ENGIE Brasil Energia S.A.

2024 CDP Corporate Questionnaire 2024

Word version

Important: this export excludes unanswered questions
This document is an export of your organization's CDP questionnaire response. It contains all data points for questions that are answered or in progress. There may be questions or data points that you have been requested to provide, which are missing from this document because they are currently unanswered. Please note that it is your responsibility to verify that your questionnaire response is complete prior to submission. CDP will not be liable for any failure to do so.
Terms of disclosure for corporate questionnaire 2024 - CDP

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09/30/2024, 08:55 pm

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C1. Introduction

(1.1) In which language are you submitting your response?

Select from:

☑ English

(1.2) Select the currency used for all financial information disclosed throughout your response.

Select from:

☑ BRL

(1.3) Provide an overview and introduction to your organization.

(1.3.2) Organization type

Select from:

☑ Publicly traded organization

(1.3.3) Description of organization

Engie Brasil Energia (EBE) is one of the largest private companies in Brazil's energy sector, with a 25-year track record in the country. With a market value of R 37.0 billion, Engie operates in the electricity generation, commercialization and transmission segments and has a shareholding in Transportadora Associada de Gás - TAG, which operates in the transportation of natural gas. The company stands out in the generation of 100% renewable energy in Brazil, with its own installed capacity of around 10 GW, distributed over 82 plants, which represent approximately 6% of national capacity. In 2023, the sale of its last coal-fired plant - the Pampa Sul Thermoelectric Plant - reinforces the company's commitment to sustainability and decarbonization. This strategic move is in line with the Engie Group's global purpose of accelerating the transition to a carbon-neutral economy and its climate commitments and targets, which also extend to the value chain, as part of the deepening of its Journey for the Climate. In terms of emissions reduction and carbon footprint management, EBE implements strict controls and continuously evaluates its operations to minimize environmental impact. The company promotes solutions to support other organizations on the path to decarbonization, including contracts with a guarantee of origin, renewable energy certificates and carbon credits. In the field of water security, Engie integrates water resources into its energy matrix, given the predominance of hydroelectric plants, which concentrate most of the company's renewable generation capacity. The company also meets strict standards and guidelines related to water quality and use while exploring new technologies and methodologies for the efficient use of water resources, contributing to the conservation and sustainable management of water. Sustainability is a priority for the company, guiding all of Engie Brasil Energia's operations. In 2023, EBE maintained its position on B3's Corporate Sustainability Index (ISE) for the 19th consecutive time, and was included in the Carbon Efficient Index (ICO2) for the 4th

year. These recognitions reflect Engie's ongoing commitment to transparency and environmental governance. In short, Engie Brasil Energia continues to drive the transition to a more sustainable and resilient future, balancing economic performance with a lasting positive impact on the environment and society.
[Fixed row]

(1.4) State the end date of the year for which you are reporting data. For emissions data, indicate whether you will be providing emissions data for past reporting years.

(1.4.1) End date of reporting year

12/31/2023

(1.4.2) Alignment of this reporting period with your financial reporting period

Select from:
☑ Yes

(1.4.3) Indicate if you are providing emissions data for past reporting years

Select from:
☑ Yes

(1.4.4) Number of past reporting years you will be providing Scope 1 emissions data for

Select from:
☑ Not providing past emissions data for Scope 1

(1.4.5) Number of past reporting years you will be providing Scope 2 emissions data for

Select from:
☑ Not providing past emissions data for Scope 2

(1.4.6) Number of past reporting years you will be providing Scope 3 emissions data for

Select from:

☑ 2 years
[Fixed row]

(1.4.1) What is your organization’s annual revenue for the reporting period?

10747784000.00

(1.5) Provide details on your reporting boundary.

	Is your reporting boundary for your CDP disclosure the same as that used in your financial statements?
	Select from: ☑ Yes

[Fixed row]

(1.6) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS001

ISIN code - equity

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEACNOR9 (B3 shares)

CUSIP number

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

29286U107 (ADRs)

Ticker symbol

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

EGIEY (ADRs)

SEDOL code

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

LEI number

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

D-U-N-S number

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

Other unique identifier

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

Ticker symbol

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ Yes

(1.6.2) Provide your unique identifier

EGIE3 (B3 shares)

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS027

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS035

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS043

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS076

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS084

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS092

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0A5

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0B3

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0C1

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0D9

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0E7

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0F4

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0G2

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0H0

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0I8

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

BREGIEDBS0K4

ISIN code - equity

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

US29286U1079
[Add row]

(1.7) Select the countries/areas in which you operate.

Select all that apply

☑ Brazil

(1.8) Are you able to provide geolocation data for your facilities?

(1.8.1) Are you able to provide geolocation data for your facilities?

Select from:

☑ Yes, for all facilities

(1.8.2) Comment

Engie recognizes the importance of geolocating its assets for the efficient and sustainable management of its operations. Precise control of the location of its 82 assets spread over 40 locations, which include hydroelectric, thermoelectric, wind and photovoltaic power plants and transmission lines, is essential for monitoring and managing environmental impacts, promoting practices for the sustainable use of natural resources.
[Fixed row]

(1.8.1) Please provide all available geolocation data for your facilities.

Row 1

(1.8.1.1) Identifier

Sede Engie Brasil Energia

(1.8.1.2) Latitude

-27.573759

(1.8.1.3) Longitude

-48.528587

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 2

(1.8.1.1) Identifier

Central Fotovoltaica Floresta I

(1.8.1.2) Latitude

-4.964266

(1.8.1.3) Longitude

-36.910596

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 3

(1.8.1.1) Identifier

Central Fotovoltaica Floresta II

(1.8.1.2) Latitude

-4.961714

(1.8.1.3) Longitude

-36.906809

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 4

(1.8.1.1) Identifier

Central Fotovoltaica Floresta III

(1.8.1.2) Latitude

-4.975631

(1.8.1.3) Longitude

-36.90516

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 5

(1.8.1.1) Identifier

Usina Fotovoltaica Assu V

(1.8.1.2) Latitude

-5.559275

(1.8.1.3) Longitude

-37.029422

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 6

(1.8.1.1) Identifier

Central Eólica Campo Largo

(1.8.1.2) Latitude

-10.465447

(1.8.1.3) Longitude

-41.493467

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 7

(1.8.1.1) Identifier

Usina Termelétrica Ibitiúva

(1.8.1.2) Latitude

-21.002744

(1.8.1.3) Longitude

-48.289669

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 8

(1.8.1.1) Identifier

Companhia Energética Estreito

(1.8.1.2) Latitude

-6.589371

(1.8.1.3) Longitude

-47.467946

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 9

(1.8.1.1) Identifier

Usina Eolioelétrica Flexeiras I

(1.8.1.2) Latitude

-3.240951

(1.8.1.3) Longitude

-39.295617

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 10

(1.8.1.1) Identifier

Usina Fotovoltaica Cidade Azul

(1.8.1.2) Latitude

-28.448449

(1.8.1.3) Longitude

-48.975459

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 11

(1.8.1.1) Identifier

Usina Eolioelétrica Guajiru

(1.8.1.2) Latitude

-3.272719

(1.8.1.3) Longitude

-39.218011

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 12

(1.8.1.1) Identifier

Usina Hidrelétrica Itá

(1.8.1.2) Latitude

-27.282894

(1.8.1.3) Longitude

-52.390933

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 13

(1.8.1.1) Identifier

Companhia Energética Jaguara

(1.8.1.2) Latitude

-20.022344

(1.8.1.3) Longitude

-47.434342

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 14

(1.8.1.1) Identifier

Usina Hidrelétrica Machadinho

(1.8.1.2) Latitude

-27.527687

(1.8.1.3) Longitude

-51.789826

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 15

(1.8.1.1) Identifier

Usina Eolioelétrica Mundaú

(1.8.1.2) Latitude

-3.191931

(1.8.1.3) Longitude

-39.373928

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 16

(1.8.1.1) Identifier

Central Eólica Trairi

(1.8.1.2) Latitude

-3.230592

(1.8.1.3) Longitude

-39.292769

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 17

(1.8.1.1) Identifier

Central Eólica Tubarão

(1.8.1.2) Latitude

-28.447778

(1.8.1.3) Longitude

-48.974722

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 18

(1.8.1.1) Identifier

Central Eólica Cacimbas

(1.8.1.2) Latitude

-3.25343

(1.8.1.3) Longitude

-39.281114

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 19

(1.8.1.1) Identifier

Central Eólica Estrela

(1.8.1.2) Latitude

-3.247718

(1.8.1.3) Longitude

-39.293534

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 20

(1.8.1.1) Identifier

Usina Eolica Ouro Verde

(1.8.1.2) Latitude

-3.303446

(1.8.1.3) Longitude

-39.296494

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 21

(1.8.1.1) Identifier

Usina Eolica Santa Mônica

(1.8.1.2) Latitude

-3.259247

(1.8.1.3) Longitude

-39.281287

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 22

(1.8.1.1) Identifier

Usina Hidrelétrica Passo Fundo

(1.8.1.2) Latitude

-27.479855

(1.8.1.3) Longitude

-52.718442

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 23

(1.8.1.1) Identifier

Usina Hidrelétrica Ponte de Pedra

(1.8.1.2) Latitude

-17.588011

(1.8.1.3) Longitude

-54.907847

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 24

(1.8.1.1) Identifier

Central Eólica Umburanas

(1.8.1.2) Latitude

-10.679477

(1.8.1.3) Longitude

-41.520631

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 25

(1.8.1.1) Identifier

Central Fotovoltaica Paracatu I

(1.8.1.2) Latitude

-17.214064

(1.8.1.3) Longitude

-47.087356

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 26

(1.8.1.1) Identifier

Central Fotovoltaica Paracatu II

(1.8.1.2) Latitude

-17.214064

(1.8.1.3) Longitude

-47.087356

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 27

(1.8.1.1) Identifier

Central Fotovoltaica Paracatu III

(1.8.1.2) Latitude

-17.222553

(1.8.1.3) Longitude

-47.082136

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 28

(1.8.1.1) Identifier

Central Fotovoltaica Paracatu IV

(1.8.1.2) Latitude

-17.226261

(1.8.1.3) Longitude

-47.082136

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 29

(1.8.1.1) Identifier

Usina Hidrelétrica Cana Brava

(1.8.1.2) Latitude

-13.402539

(1.8.1.3) Longitude

-48.143324

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 30

(1.8.1.1) Identifier

Usina Termelétrica Ferrari

(1.8.1.2) Latitude

-21.844142

(1.8.1.3) Longitude

-47.359879

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 31

(1.8.1.1) Identifier

Unidade de Cogeração Lages

(1.8.1.2) Latitude

-27.807885

(1.8.1.3) Longitude

-50.371669

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 32

(1.8.1.1) Identifier

Companhia Energética Miranda

(1.8.1.2) Latitude

-18.909425

(1.8.1.3) Longitude

-48.042392

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 33

(1.8.1.1) Identifier

Usina Termoelétrica Pampa Sul

(1.8.1.2) Latitude

-31.45038

(1.8.1.3) Longitude

-53.777083

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 34

(1.8.1.1) Identifier

Pequena Central Hidrelétrica José Gelazio da Rocha

(1.8.1.2) Latitude

-16.669942

(1.8.1.3) Longitude

-54.740808

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 35

(1.8.1.1) Identifier

Pequena Central Hidrelétrica Rondonópolis

(1.8.1.2) Latitude

-16.6536

(1.8.1.3) Longitude

-54.728178

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 36

(1.8.1.1) Identifier

Usina Hidrelétrica São Salvador

(1.8.1.2) Latitude

-12.807689

(1.8.1.3) Longitude

-48.237092

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 37

(1.8.1.1) Identifier

Usina Hidrelétrica Salto Osório

(1.8.1.2) Latitude

-25.538363

(1.8.1.3) Longitude

-53.009428

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 38

(1.8.1.1) Identifier

Usina Hidrelétrica Salto Santiago

(1.8.1.2) Latitude

-25.629022

(1.8.1.3) Longitude

-52.614871

(1.8.1.4) Comment

Latitude and longitude in decimal degrees

Row 39

(1.8.1.1) Identifier

Transmissão Elétrica Gralha Azul

(1.8.1.2) Latitude

-25.091165

(1.8.1.3) Longitude

-50.322717

(1.8.1.4) Comment

Substation location associated with the Transmission Line. Latitude and longitude in decimal degrees

Row 40

(1.8.1.1) Identifier

Transmissão Elétrica Novo Estado

(1.8.1.2) Latitude

-6.08043

(1.8.1.3) Longitude

-49.683942

(1.8.1.4) Comment

Substation location associated with the Transmission Line. Latitude and longitude in decimal degrees
[Add row]

(1.16) In which part of the electric utilities value chain does your organization operate?

Electric utilities value chain

☑ Electricity generation

☑ Transmission

(1.16.1) For your electricity generation activities, provide details of your nameplate capacity and electricity generation specifics for each technology employed.

Coal - Hard

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

345

(1.16.1.3) Gross electricity generation (GWh)

211

(1.16.1.4) Net electricity generation (GWh)

188

(1.16.1.5) Comment

The only coal-fueled thermoelectric plant operated by ENGIE Brasil Energia in 2023 was the Pampa Sul Thermoelectric Power Plant (UTPS). It was sold in May 2023.

Lignite

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Oil

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Gas

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Sustainable biomass

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

142

(1.16.1.3) Gross electricity generation (GWh)

504

(1.16.1.4) Net electricity generation (GWh)

383

(1.16.1.5) Comment

Wood and sugar cane bagasse

Other biomass

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Waste (non-biomass)

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Nuclear

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Fossil-fuel plants fitted with carbon capture and storage

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Geothermal

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

(1.16.1.5) Comment

Not applicable

Hydropower

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

8166

(1.16.1.3) Gross electricity generation (GWh)

37322

(1.16.1.4) Net electricity generation (GWh)

36683

(1.16.1.5) Comment

Generation in hydroelectric power plants and small hydroelectric power plants. The reported value does not take into account the percentage of equity interest in the Estreito Hydroelectric Plant (UHET), Itá Hydroelectric Plant (UHIT), and Machadinho Hydroelectric Plant (UHMA), which are plants that ENGIE Brasil Energia does not have operational control over. In other words, the reported value considers the total generation from all hydro assets.

Wind

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

1267

(1.16.1.3) Gross electricity generation (GWh)

5224

(1.16.1.4) Net electricity generation (GWh)

5146

(1.16.1.5) Comment

Wind power plant generation

Solar

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ Yes

(1.16.1.2) Nameplate capacity (MW)

255

(1.16.1.3) Gross electricity generation (GWh)

470

(1.16.1.4) Net electricity generation (GWh)

464

(1.16.1.5) Comment

Solar power plant generation

Marine

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ No

(1.16.1.5) Comment

Not applicable

Other renewable

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ No

(1.16.1.5) Comment

Not applicable

Other non-renewable

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ No

(1.16.1.5) Comment

Not applicable

Total

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

10174

(1.16.1.3) Gross electricity generation (GWh)

43731

(1.16.1.4) Net electricity generation (GWh)

42864

(1.16.1.5) Comment

Total energy generation from all sources.
[Fixed row]

(1.24) Has your organization mapped its value chain?

(1.24.1) Value chain mapped

Select from:

☑ Yes, we have mapped or are currently in the process of mapping our value chain

(1.24.2) Value chain stages covered in mapping

Select all that apply

☑ Upstream value chain

☑ Downstream value chain

(1.24.3) Highest supplier tier mapped

Select from:

☑ Tier 2 suppliers

(1.24.4) Highest supplier tier known but not mapped

Select from:

☑ Tier 3 suppliers

(1.24.7) Description of mapping process and coverage

Engie has structured processes for mapping its value chain, covering both the upstream and downstream stages. Regarding suppliers, the company recognizes the importance of strengthening sustainability practices throughout the value chain. Since the process of contracting 100% of direct suppliers, the registration procedure allows for the collection of compliance information on various fronts (including environmental), and this information is updated periodically by the company. In addition, in 2023, one of Engie's main initiatives was to apply an ESG survey to suppliers, using a digital platform (Arcgis) to collect data on environmental, social and governance policies and practices. The company also published the Code of Conduct for Supplier Relations, which adapts the Group's guidelines to guide ethical standards and ensure compliance in business relations. In addition, Engie has adopted a Procurement Policy that defines commitments and expectations for suppliers, aligning them with the company's principles of ethics and compliance. Supplier management is supported by regular training for employees and buyers, ensuring the application of ESG requirements. In 2023, the company maintained relations with 3,993 suppliers and registered 2,081 new partners, all of whom underwent ethical analysis, with some being assessed in more detail in aspects such as environmental risks and human rights. The mapping includes Tier 1 and Tier 2 suppliers.
[Fixed row]

(1.24.1) Have you mapped where in your direct operations or elsewhere in your value chain plastics are produced, commercialized, used, and/or disposed of?

(1.24.1.1) Plastics mapping

Select from:

☑ Yes, we have mapped or are currently in the process of mapping plastics in our value chain

(1.24.1.2) Value chain stages covered in mapping

Select all that apply

☑ End-of-life management

(1.24.1.4) End-of-life management pathways mapped

Select all that apply

☑ Recycling

[Fixed row]

C2. Identification, assessment, and management of dependencies, impacts, risks, and opportunities

(2.1) How does your organization define short-, medium-, and long-term time horizons in relation to the identification, assessment, and management of your environmental dependencies, impacts, risks, and opportunities?

Short-term

(2.1.1) From (years)

0

(2.1.3) To (years)

3

(2.1.4) How this time horizon is linked to strategic and/or financial planning

Engie's short-term horizon, which covers 0 to 3 years, is linked to the company's strategic and financial planning through immediate goals and actions aimed at achieving performance objectives and adapting to rapid changes in the market. During this period, Engie focuses on executing initiatives that are essential to achieving short-term results, including meeting targets for reducing greenhouse gas (GHG) emissions and issues related to water security. In addition, the annual variable remuneration policy for executives and senior managers is aligned with these objectives, encouraging the delivery of tangible and measurable results.

Medium-term

(2.1.1) From (years)

4

(2.1.3) To (years)

6

(2.1.4) How this time horizon is linked to strategic and/or financial planning

In the medium-term horizon, which covers the period from 4 to 6 years, Engie aligns its strategic and financial planning with the execution of plans that support the energy transition and sustainable expansion. During this period, the company focuses on strengthening its installed renewable energy capacity and significantly reducing the GHG emissions associated with energy production. This horizon is characterized by the materialization of medium-sized projects and the implementation of innovative technologies that support the company's decarbonization agenda. In addition, Engie also plans and invests in programs that increase the resilience of its operations and supply chains, with a view to effectively adapting to regulatory issues and stakeholder expectations. The investment decisions and projects developed during this period are guided by strategic objectives, such as diversifying the energy portfolio. This time horizon also includes commitments associated with water and biodiversity.

Long-term

(2.1.1) From (years)

7

(2.1.2) Is your long-term time horizon open ended?

Select from:

☑ No

(2.1.3) To (years)

21

(2.1.4) How this time horizon is linked to strategic and/or financial planning

The long-term horizon, which extends from 7 to 21 years, is integrated into Engie's strategic and financial planning through the company's future vision for the global energy transition and long-term sustainability. Over this period, Engie is committed to achieving ambitious targets, such as the continued reduction of its carbon emissions and the significant increase in renewable energy capacity, on a trajectory in which the main objective is to achieve carbon neutrality by 2045. For biodiversity and water, the time horizon is linked with the carbon strategy but also to the Global biodiversity framework timeline. This horizon encompasses the creation of a resilient and sustainable infrastructure, which implies significant investments in innovation, research and the development of new clean technologies. In addition, the company seeks to positively impact its entire value chain, encouraging sustainable practices among its suppliers and customers, in line with global commitments to mitigate climate change. Through long-term planning, Engie is preparing to anticipate and influence global trends in energy and sustainability, with a focus on the energy transition and the creation of lasting value for its stakeholders.
[Fixed row]

(2.2) Does your organization have a process for identifying, assessing, and managing environmental dependencies and/or impacts?

	Process in place	Dependencies and/or impacts evaluated in this process
	Select from: ☑ Yes	*Select from:* ☑ Both dependencies and impacts

[Fixed row]

(2.2.1) Does your organization have a process for identifying, assessing, and managing environmental risks and/or opportunities?

	Process in place	Risks and/or opportunities evaluated in this process	Is this process informed by the dependencies and/or impacts process?
	Select from: ☑ Yes	*Select from:* ☑ Both risks and opportunities	*Select from:* ☑ Yes

[Fixed row]

(2.2.2) Provide details of your organization's process for identifying, assessing, and managing environmental dependencies, impacts, risks, and/or opportunities.

Row 1

(2.2.2.1) Environmental issue

Select all that apply

☑ Climate change

☑ Water

☑ Biodiversity

(2.2.2.2) Indicate which of dependencies, impacts, risks, and opportunities are covered by the process for this environmental issue

Select all that apply

☑ Dependencies

☑ Impacts

☑ Risks

☑ Opportunities

(2.2.2.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

☑ Downstream value chain

(2.2.2.4) Coverage

Select from:

☑ Full

(2.2.2.5) Supplier tiers covered

Select all that apply

☑ Tier 1 suppliers

☑ Tier 2 suppliers

(2.2.2.7) Type of assessment

Select from:

☑ Qualitative and quantitative

(2.2.2.8) Frequency of assessment

Select from:

☑ More than once a year

(2.2.2.9) Time horizons covered

Select all that apply

☑ Short-term

☑ Medium-term

☑ Long-term

(2.2.2.10) Integration of risk management process

Select from:

☑ Integrated into multi-disciplinary organization-wide risk management process

(2.2.2.11) Location-specificity used

Select all that apply

☑ Site-specific

☑ Local

☑ Sub-national

☑ National

(2.2.2.12) Tools and methods used

Commercially/publicly available tools

☑ EcoVadis

☑ LEAP (Locate, Evaluate, Assess and Prepare) approach, TNFD

☑ TNFD – Taskforce on Nature-related Financial Disclosures

☑ WRI Aqueduct

Enterprise Risk Management

☑ COSO Enterprise Risk Management Framework

☑ Enterprise Risk Management

☑ Internal company methods

International methodologies and standards

☑ ISO 14001 Environmental Management Standard

Databases

☑ Nation-specific databases, tools, or standards

☑ Regional government databases

Other

☑ Desk-based research

☑ Jurisdictional/landscape assessment

☑ Materiality assessment

☑ Partner and stakeholder consultation/analysis

☑ Scenario analysis

(2.2.2.13) Risk types and criteria considered

Acute physical

☑ Drought

☑ Landslide

☑ Wildfires

☑ Heat waves

☑ Heavy precipitation (rain, hail, snow/ice)

☑ Flood (coastal, fluvial, pluvial, ground water)

Chronic physical

☑ Heat stress

☑ Increased ecosystem vulnerability

☑ Water stress
☑ Change in land-use
☑ Changing wind patterns
☑ Temperature variability
☑ Increased levels of environmental pollutants in freshwater bodies
☑ Precipitation or hydrological variability
☑ Increased severity of extreme weather events
☑ Water availability at a basin/catchment level
☑ Changing precipitation patterns and types (rain, hail, snow/ice)

Policy

☑ Carbon pricing mechanisms
☑ Changes to national legislation
☑ Regulation of discharge quality/volumes
☑ Limited or lack of river basin management
☑ Changes to international law and bilateral agreements
☑ Statutory water withdrawal limits/changes to water allocation
☑ Introduction of regulatory standards for previously unregulated contaminants

Market

☑ Availability and/or increased cost of raw materials
☑ Changing customer behavior
☑ Uncertainty in the market signals

Reputation

☑ Negative press coverage related to support of projects or activities with negative impacts on the environment (e.g. GHG emissions, deforestation & conversion, water stress)
☑ Stakeholder conflicts concerning water resources at a basin/catchment level

Technology

☑ Dependency on water-intensive energy sources
☑ Data access/availability or monitoring systems
☑ Transition to lower emissions technology and products

Liability

☑ Exposure to litigation
☑ Non-compliance with regulations

(2.2.2.14) Partners and stakeholders considered

Select all that apply

☑ NGOs
☑ Customers
☑ Employees
☑ Investors
☑ Suppliers
☑ Regulators
☑ Local communities
☑ Water utilities at a local level
☑ Other water users at the basin/catchment level

(2.2.2.15) Has this process changed since the previous reporting year?

Select from:

☑ Yes

(2.2.2.16) Further details of process

Engie Brasil Energia seeks to identify, assess and robustly manage environmental dependencies, impacts, risks and opportunities throughout its direct operations and value chain. This commitment is aligned with the Engie Group's guidelines, using recognized methodologies such as COSO ERM and ISO 31000. The process involves various levels of management, including the Board of Directors, Audit Committee, Executive Board and the Corporate Risk Management Forum. To meet the challenges posed by climate change and other environmental issues, Engie has established a comprehensive, cross-cutting risk assessment methodology. This methodology integrates climate risk assessment as a mandatory component in the broader Enterprise Risk Management (ERM) process. The identification and assessment of environmental dependencies, impacts, risks and opportunities are carried out by the GRC (Governance, Risks and Internal Controls) in conjunction with the Environmental Management at least once a year. In addition, Engie has a comprehensive Corporate Social Responsibility (CSR) analysis for investment decisions, ensuring that new investments are aligned with sustainability policies and objectives. The analysis covers aspects related to the environment, such as GHG emissions and biodiversity. Also in relation to biodiversity, in 2023, the company began restructuring the Biodiversity Matrix Program. Covering short, medium, and long terms, this program seeks to identify dependencies and impacts of its operations, as well as opportunities to contribute to the recovery of biomes. The analyses are carried out during the development, implementation, and operational phases. The company also maps the vulnerability of its assets to the risk of water stress using the definitions in the Aqueduct Water Risk Atlas. This analysis, initially focused on assets, is now also being carried out for around 40 suppliers. In 2024 and in the coming years, the assessment will be improved and will include a larger number of suppliers. Another initiative associated with the mapping of environmental dependencies, impacts and risks posed by suppliers is the annual Due Diligence process, characterized by an ethical investigation to detect violations of legal requirements and/or conduct considered unethical in terms of safety, health, the environment, human rights, etc. Suppliers are also invited to respond annually to an ESG questionnaire which deals with issues of climate, biodiversity, water pollution, and waste. Engie is also dedicated to mapping other links in its value chain, such as the local community, holding meetings to identify and assess the environmental dependencies and impacts associated with its operations. The Connection Program, for example, includes public visits to the plants and by the local community, schools, public authorities, and the academic and scientific community. With regard to customers, Engie invests in advertising campaigns to publicize the green products it has in its portfolio, such as carbon credits and I-

RECs. Every year, during the "Inside Engie Brasil Energia" public meeting, different stakeholders, including customers, can bring up ESG-related topics for discussion.

Row 2

(2.2.2.1) Environmental issue

Select all that apply

☑ Plastics

(2.2.2.2) Indicate which of dependencies, impacts, risks, and opportunities are covered by the process for this environmental issue

Select all that apply

☑ Impacts

(2.2.2.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

☑ End of life management

(2.2.2.4) Coverage

Select from:

☑ Full

(2.2.2.5) Supplier tiers covered

Select all that apply

☑ Tier 1 suppliers

(2.2.2.7) Type of assessment

Select from:

☑ Qualitative and quantitative

(2.2.2.8) Frequency of assessment

Select from:

☑ Annually

(2.2.2.9) Time horizons covered

Select all that apply

☑ Short-term

☑ Medium-term

☑ Long-term

(2.2.2.11) Location-specificity used

Select all that apply

☑ Site-specific

☑ Local

(2.2.2.12) Tools and methods used

Enterprise Risk Management

☑ Internal company methods

Other

☑ Materiality assessment

(2.2.2.14) Partners and stakeholders considered

Select all that apply

☑ Employees

☑ Suppliers

(2.2.2.15) Has this process changed since the previous reporting year?

Select from:

☑ No

(2.2.2.16) Further details of process

Engie Brasil Energia takes into account the generation of plastic waste when analyzing environmental dependencies, impacts, risks and opportunities throughout its direct operations. This topic is part of one of the axes of Engie's environmental strategy: Circular Economy. Guided by the Company's Sustainable Management Policy – and in compliance with the National Solid Waste Policy (Law No. 12.305/2010) – EBE's waste management complies with strict criteria and guidelines, applicable to all of its units, which are primarily aimed at eliminating or reducing its generation as much as possible. When this is not possible, priority is given to reuse, recycling, treatment, and appropriate final disposal (in that order). Regarding monitoring matters, performance indicators related to waste are regularly assessed, and reported in a monthly basis, in order to provide transparency in terms of parameters for the generation, disposal and recovery of materials. In general, the plastic generated by the assets is associated with the packaging of materials and equipment, and is considered to be non-representative. In 2023, for example, plastic accounted for 0.01% of all waste disposed of, equivalent to 25.20 tons. In addition to monitoring the volume of plastic generated in its operations, Engie sets targets for waste recovery. In 2023, for example, an average recovery target of 72% of waste, including plastics, was set. The result at the end of the period was 80%, 8 p.p. higher than the target. There are also initiatives aimed at suppliers, who are encouraged to forward plastics to local recycling cooperatives at assets under construction. If this is not possible, the supplier is instructed to dispose the plastic to a licensed site.
[Add row]

(2.2.7) Are the interconnections between environmental dependencies, impacts, risks and/or opportunities assessed?

(2.2.7.1) Interconnections between environmental dependencies, impacts, risks and/or opportunities assessed

Select from:

☑ Yes

(2.2.7.2) Description of how interconnections are assessed

Engie assesses the interconnections between environmental dependencies, impacts, risks, and opportunities for the effective and sustainable management of its businesses. The company adopts an integrated approach to identifying and managing these interconnections, ensuring the mapping of synergies and possible trade-offs in its strategies and operations. This integrated risk management approach is based on recognized standards such as COSO ERM and ISO 31000. This process not only identifies risks and opportunities in isolation, but also assesses how they interact and influence each other. For example, dependence on hydroelectric sources for energy generation is assessed in conjunction with the risks of water scarcity, climate change, and opportunities to diversify into other renewable sources.

The company also uses scenario analysis to understand how different environmental factors can interact and impact its operations over time. This includes assessing the interconnections between transition risks (such as carbon policies) and physical risks (such as extreme weather events), and how they can influence investment opportunities in renewable energies. Another analysis carried out is CSR, which adopts a matrix approach covering all dimensions of social and environmental responsibility. This matrix makes it possible to identify synergies and trade-offs between different factors, such as the reduction of GHG emissions, the protection of biodiversity and the sustainable use of water. In this way, the company can align investments and operations with sustainability objectives, minimizing negative impacts and maximizing environmental and social benefits. Examples of the interconnections assessed are: (1) Water dependence and climate risks: Engie assesses how dependence on water resources for energy generation is interconnected with climate change risks, such as prolonged droughts. This drives the diversification of its energy matrix to include more wind and solar power. (2) Biodiversity impacts and restoration opportunities: The construction of new renewable energy facilities is assessed for its impact on local biodiversity. Projects take measures to mitigate impacts and seize opportunities to contribute positively to biodiversity conservation. (3) Transition risks and carbon market opportunities: Engie analyzes how carbon policies (transition risks) connect with opportunities in the market for carbon credits and renewable energy certificates. This allows the company to align its operations with emission reduction targets and explore new sources of revenue.
[Fixed row]

(2.3) Have you identified priority locations across your value chain?

(2.3.1) Identification of priority locations

Select from:

☑ Yes, we have identified priority locations

(2.3.2) Value chain stages where priority locations have been identified

Select all that apply

☑ Direct operations

(2.3.3) Types of priority locations identified

Sensitive locations

☑ Areas important for biodiversity

☑ Areas of limited water availability, flooding, and/or poor quality of water

Locations with substantive dependencies, impacts, risks, and/or opportunities

☑ Locations with substantive dependencies, impacts, risks, and/or opportunities relating to water

☑ Locations with substantive dependencies, impacts, risks, and/or opportunities relating to biodiversity

(2.3.4) Description of process to identify priority locations

Engie takes a structured approach to identifying priority sites in its direct and upstream operations, focusing on sensitive areas and sites with relevant dependencies, impacts, risks and opportunities related to the environment. The process uses specific geolocation tools and data to ensure a detailed and accurate analysis, including sensitivity assessment to identify priority areas based on criteria such as biodiversity and water availability, as well as analysis of the potential impact of operations on local natural resources. To this end, the company uses the WRI Aqueduct tool every year to assess water-stressed areas, obtaining detailed maps and inputs for risk analysis. The process is constantly being improved, and mapping is currently being implemented for 39 target suppliers, constituting efforts for proactive and effective management of environmental challenges. At the same time, biodiversity is prioritized through the Biodiversity Matrix Program, which was restructured in 2023 to boost actions focused on a positive impact on nature. This program, aligned with the Engie Group's commitments, seeks to identify the dependencies and impacts of the company's operations, as well as opportunities to contribute to the recovery of the biomes where Engie operates. The Biodiversity Matrix Program incorporates the categories of the five domains defined by the Taskforce on Nature-related Financial Disclosure (TNFD), addressing the material conservation challenges in each Brazilian biome. This approach, covering short-, medium- and long-term horizons, allows Engie to act continuously and effectively in the management of environmental risks, ensuring that its operations are aligned with the preservation of biodiversity and the sustainable use of natural resources. In addition, the mapping is also being implemented for 39 target suppliers, reinforcing Engie's commitment to proactive and effective management of environmental challenges throughout the value chain.

(2.3.5) Will you be disclosing a list/spatial map of priority locations?

Select from:

☑ Yes, we will be disclosing the list/geospatial map of priority locations

(2.3.6) Provide a list and/or spatial map of priority locations

2.3_Mapeamento_stress hidrico e matriz bio.pdf
[Fixed row]

(2.4) How does your organization define substantive effects on your organization?

Risks

(2.4.1) Type of definition

Select all that apply

☑ Qualitative

☑ Quantitative

(2.4.2) Indicator used to define substantive effect

Select from:

☑ EBITDA

(2.4.3) Change to indicator

Select from:

☑ % decrease

(2.4.4) % change to indicator

Select from:

☑ 1-10

(2.4.6) Metrics considered in definition

Select all that apply

☑ Frequency of effect occurring

☑ Likelihood of effect occurring

(2.4.7) Application of definition

Engie defines a substantial impact on its business based on significant financial or strategic deviations from the medium-term plan (MTP) baseline scenario. To identify an effect of this class, the company evaluates deviations that represent a variation of 5% or more in accumulated EBITDA or Current Operating Revenue in relation to the base scenario. Impacts are quantified financially whenever possible, considering the magnitude of the effect in terms of percentage of EBITDA. Risks are assessed not only on the basis of financial impact, but also non-financial effects and the likelihood of occurrence. The prioritization of identified risks is therefore defined by each entity that makes up the Group, and the main risks are evaluated in forums at Group level to identify those that could have a substantial impact on Engie. The definition of a substantial effect takes into account several factors, such as the proportion of business units affected, the size of the effect on these units, the organization's dependence on these units and the potential for concern from shareholders or customers. Risk assessments consider the financial impact and CO2 emissions, and are integrated into the PMP exercise to ensure that the financial and CO2 trajectories are aligned with the established objectives. Sensitivity scenarios are conducted to provide a percentage confidence interval on these trajectories. These criteria are reviewed regularly to ensure that the definition of substantive impacts is aligned with current conditions and the company's needs. The frequency of reviewing and updating the criteria is an integral part of the risk management process, ensuring that substantive effects are properly identified and managed over time.

Opportunities

(2.4.1) Type of definition

Select all that apply

☑ Qualitative

☑ Quantitative

(2.4.2) Indicator used to define substantive effect

Select from:

☑ EBITDA

(2.4.3) Change to indicator

Select from:

☑ % increase

(2.4.4) % change to indicator

Select from:

☑ 1-10

(2.4.6) Metrics considered in definition

Select all that apply

☑ Likelihood of effect occurring

(2.4.7) Application of definition

Engie defines a substantial impact on its business based on significant financial or strategic deviations from the medium-term plan (MTP) baseline scenario. To identify an effect of this class, the company evaluates deviations that represent a variation of 5% or more in accumulated EBITDA or Current Operating Revenue in relation to the base scenario. Impacts are quantified financially whenever possible, considering the magnitude of the effect in terms of percentage of EBITDA. In addition, not only financial impacts are considered, but also non-financial effects and the likelihood of occurrence. The prioritization of identified risks is therefore defined by each entity, and the main risks are assessed across the group to identify those that could have a substantial impact on the Engie Group. For opportunities, Engie applies a similar process. The company identifies substantial opportunities by evaluating possible positive deviations that represent a variation of 5% or more of cumulative EBITDA or Current Operating Revenue in relation to the PMP base scenario. These deviations are quantified financially whenever possible, taking into

account the magnitude of the effect in terms of percentage of EBITDA. In addition to the financial impact, non-financial effects and the likelihood of occurrence are assessed. The prioritization of the opportunities identified is defined by each entity, and the main opportunities are evaluated across the group to identify those that can provide a substantial impact for the Engie Group. The definition of a significant opportunity takes into account several factors, such as the proportion of business units that could be impacted (scalability), the size of the effect on these units, the organization's dependence on these units and the potential benefit for shareholders or customers. Opportunity assessments consider the financial impact as well as potential CO2 emission reductions and are integrated into the PMP exercise to ensure that the financial and CO2 trajectories are aligned with the established objectives. Sensitivity scenarios are conducted to provide a percentage confidence interval on these trajectories. The criteria are reviewed regularly to ensure that the definition of substantial opportunities is aligned with current conditions and the company's needs.
[Add row]

(2.5) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

(2.5.1) Identification and classification of potential water pollutants

Select from:

☑ Yes, we identify and classify our potential water pollutants

(2.5.2) How potential water pollutants are identified and classified

Engie Brasil Energia's activities are legally compliant, as attested by the competent environmental agencies, based on the environmental licensing process, in which environmental monitoring and control conditions are implemented. As such, the company has programs and actions in place at its plants to minimize the impact of pollutants on water bodies. The company complies with the conditions, standards, and guidelines for managing the discharge of effluents as established in CONAMA Resolution 430/11. All hydroelectric generation is ISO14001 certified (Environmental Management). Until March 2023, the parameters Nitrogen and Phosphorus were monitored by the Company at the Pampa Sul Thermoelectric Plant. Since their sale, these parameters are not considered relevant to the other assets, since these substances are not present in domestic effluents. The company monitors oil and grease at its hydroelectric plants in order to identify possible equipment failures and increase water safety. Contamination of water bodies by oils and greases causes invaluable environmental damage, so monitoring and preventing contamination by this pollutant is essential. In 2023, the consolidated monitoring results classified the water quality of the reservoirs as “Excellent” or “Good” in general, according to the methodology established by the São Paulo State Environmental Company for the Water Quality Index.
[Fixed row]

(2.5.1) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.

Row 1

(2.5.1.1) Water pollutant category

Select from:

☑ Oil

(2.5.1.2) Description of water pollutant and potential impacts

Engie Brasil Energia minimizes the adverse impacts of water pollutants such as oil through a rigorous risk identification and management process. Oil, which can be released in the event of accidental leaks in substations or power plant hydraulic systems, has the potential to contaminate bodies of water, affecting both aquatic ecosystems and human health. To mitigate these risks, Engie implements specific procedures, such as the use of water and oil separator boxes, containment barriers, and continuous monitoring systems. In addition, all the plants have Emergency Response Plans (ERP) adapted to the local reality, which include regular team training and oil spill containment simulations. These plans are constantly reviewed and updated to reflect best practices and ensure an effective response in the event of incidents. The success of these procedures is measured through specific indicators, such as the absence of records of oil contamination in the monitored water bodies and the effectiveness of the simulated responses during emergency training. Engie also carries out periodic Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) analyses upstream and downstream of its hydroelectric plants to ensure that the water quality parameters remain within the limits established for the class of water body.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Water recycling

☑ Beyond compliance with regulatory requirements

☑ Reduction or phase out of hazardous substances

☑ Implementation of integrated solid waste management systems

☑ Requirement for suppliers to comply with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

☑ Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

(2.5.1.5) Please explain

Water pollutant mitigation actions at Engie Brasil Energia are carried out through initiatives and procedures for accident prevention, preparedness and response. These actions include regular training for local teams, equipping them with the necessary skills and knowledge to deal effectively with emergencies. As for effluent treatment, this is carried out in compliance with current regulations, ensuring that discharge levels are within the limits permitted by law. In addition to compliance, Engie carries out regular assessments of critical infrastructure and storage conditions, checking for possible leaks, spills, pipe problems and other factors that could compromise the resilience of operations. Complementing these efforts, Engie has developed Emergency Response Plans for each asset, taking into account the environmental aspects of its activities associated with the risks of accidents or incidents with a potential impact on water resources. The emergency response plan is periodically tested through emergency simulations. At each simulation, a critical analysis of the simulation is carried out, a report with the results is generated, where opportunities for improvement and non-conformities are identified and for control and comprehensiveness are recorded in action plans in the SE SUITE System for correction and improvement of the emergency response service.
[Add row]

C3. Disclosure of risks and opportunities

(3.1) Have you identified any environmental risks which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

Climate change

(3.1.1) Environmental risks identified

Select from:

☑ Yes, both in direct operations and upstream/downstream value chain

Water

(3.1.1) Environmental risks identified

Select from:

☑ Yes, both in direct operations and upstream/downstream value chain

Plastics

(3.1.1) Environmental risks identified

Select from:

☑ No

(3.1.2) Primary reason why your organization does not consider itself to have environmental risks in your direct operations and/or upstream/downstream value chain

Select from:

☑ Environmental risks exist, but none with the potential to have a substantive effect on our organization

(3.1.3) Please explain

Engie Brasil Energia, guided by its Sustainable Management Policy and in accordance with the National Solid Waste Policy (Law No. 12,305/2010), carries out waste management that complies with strict criteria and guidelines applicable to all its units. This management aims, mainly, to eliminate or reduce waste generation as much as possible. When this is not possible, the priority becomes reuse, recycling, treatment and proper final disposal. All of Engie Brasil Energia's business units have a Solid Waste Management Plan compatible with their activities, duly updated and in accordance with current legislation. The waste is stored in appropriate places, segregated according to its physical state, level of hazard and chemical incompatibility, ensuring full compliance with legislation and good environmental practices. In addition, the company uses specific software for the control and traceability of waste management processes, providing compliance and standardization. The performance indicators related to waste are regularly monitored through monthly reports, evaluating parameters for the generation, destination and recovery of materials. Specifically in relation to plastic waste, Engie Brasil Energia does not identify material risks associated with this type of waste in its direct operations or in its value chain (upstream/downstream), because in addition to being in full compliance with current environmental legislation and adopting the best waste management practices, the nature of Engie Brasil Energia's operations, Focused on the generation, commercialization, transmission of electricity and transportation of natural gas, it does not involve industrial processes that generate a significant amount of plastic waste. In 2023, plastic accounted for 0.01% of all waste disposed of.
[Fixed row]

(3.1.1) Provide details of the environmental risks identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.1.1.1) Risk identifier

Select from:
☑ Risk1

(3.1.1.3) Risk types and primary environmental risk driver

Market
☑ Other market risk, please specify **:**Increased competition in the renewable sector with lower-cost technologies and/or better operational capacity.

(3.1.1.4) Value chain stage where the risk occurs

Select from:
☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ Brazil

(3.1.1.9) Organization-specific description of risk

The transition to a low-carbon economy implies the need for technological development and changes in the regulatory framework of the energy sector. New technologies or new models of energy generation may emerge and/or expand in the Brazilian market, such as Distributed Generation. This new model may present greater market competitiveness, due to the lower cost due to the existence of subsidies. In 2023, subsidies for distributed generation in Brazil were estimated at around R 5.4 billion. As a result, Engie Brasil Energia's business model, which does not include distributed generation, may lose market share and, consequently, reduce its revenue. In this context, the risk refers to Engie Brasil Energia's loss of market due to the expansion of Distributed Generation in Brazil.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Decreased revenues due to reduced demand for products and services

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

☑ Medium-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Very likely

(3.1.1.14) Magnitude

Select from:

☑ Medium-high

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

The increase in competition in the energy sector due to the lower cost of Distributed Generation (due to the existence of subsidies) may reduce the revenue of Engie Brasil Energia (it operates only with centralized generation). The reduction in this revenue may directly impact the cash flow and the financial balance of the organization.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ Yes

(3.1.1.19) Anticipated financial effect figure in the short-term – minimum (currency)

65260000

(3.1.1.20) Anticipated financial effect figure in the short-term – maximum (currency)

86012360

(3.1.1.21) Anticipated financial effect figure in the medium-term – minimum (currency)

113817654

(3.1.1.22) Anticipated financial effect figure in the medium-term – maximum (currency)

132005642

(3.1.1.25) Explanation of financial effect figure

The reported value corresponds to the estimated revenue loss of Engie Brasil Energia based on the percentages of the Generation Scaling Factor (GSF), a hydrological risk indicator that assesses the relationship between the volume of energy generated by hydroelectric plants and the physical guarantee of these plants. The data is projected for the scenario of distributed generation (DG) expansion in Brazil between 2025 and 2030. The formula for calculating the revenue loss (Y) is: Y GSF x Market Price x Number of hours in the month For the calculation, only the market losses of Engie Brasil Energia's hydroelectric plants, one of the company's main sources of generation and profit, were considered. Plants that underwent renegotiation were not included, as the GSF does not impact these operations. Calculation components: The GSF is calculated as follows: GSFB/A where: A: Projection of hydro generation in the National Interconnected System (SIN), taking into

account the Energy Reallocation Mechanism (MRE),according to the rules of the Electric Energy Trading Chamber (CCEE).It considers factors such as thermal dispatch, load projection, wind generation, micro and mini distributed generation (MMGD),and model rounds; B: Projection of the assured energy in the SIN by the plants. The GSF calculation, considering the expansion of DGs, was done monthly and by type of asset, resulting in an average value of 86%. The Market Price refers to the average value of energy in R/MWh, which varies monthly and by asset. The average projected value for the horizon is R 155.00/MWh. The average number of hours in the month is equivalent to 720. Result: In the short term, the financial impact (Y) is around a minimum of R 65 million and a maximum of R 86 million. In the medium term, the financial impact (Y) is around a minimum of R 114 million and a maximum of R 132 million. The results indicate, therefore, that Engie may face significant financial losses both in the short and medium term, with projected losses ranging from R 65 million to R 132 million, depending on hydrological conditions, DG expansion, and increased DG competitiveness (lower energy prices due to subsidies). As distributed generation expands in the market, ENGIE Brasil Energia may lose market share, as it operates only in centralized generation. This impact is particularly relevant for the company, considering that its hydroelectric plants represent one of the main sources of revenue generation.

(3.1.1.26) Primary response to risk

Engagement

☑ Engage with regulators/policy makers

(3.1.1.27) Cost of response to risk

88580

(3.1.1.28) Explanation of cost calculation

The cost is estimated. It considers the average time per year spent by Engie Brasil Energia employees preparing materials and holding internal meetings, as well as travelling to deal with this issue. Assumptions: A: Average number of hours traveled: 16h. B: Average hourly rate: R 67.50/hour C: Fixed cost: R 4,000/year D: Average number of trips per year: 5. E: Average number of hours for meetings: 936 hours/year. Travel cost: X A x B x C x D, where X 16h x R 67.50/hour x R 4,000 x 5 trips R 25,400. Cost of attending meetings: Y B x E, Y R 67.50/hour x 936 hours R 63,180. Total cost: X Y R25,400 R63,180 R88,580.

(3.1.1.29) Description of response

Situation: The transition to a low-carbon economy in Brazil is being accelerated by new energy generation models, such as Distributed Generation (DG), which received subsidies estimated at R 5.4 billion in 2023. This has created a scenario in which DG's competitiveness could negatively impact Engie Brasil Energia's business model, which does not include DG in its matrix. Task: Engie needed to mitigate the potential impact of this DG expansion to protect its market position and revenues by promoting fairer and more balanced regulation. Action: The company has taken a proactive approach, participating in industry associations to advocate for its interests. The company has conducted detailed studies on the economic impacts of DG subsidies, highlighting how they distort prices and affect the sustainability of the sector. In addition, the company organized trips and meetings with stakeholders, such as regulators and legislators, presenting studies that demonstrate the impact of subsidies on energy tariffs and the increase in costs for most consumers. To raise public awareness and regulators, Engie has also produced external communication materials explaining the risks and disadvantages of this model. Results: EBE's work contributed to broaden the regulatory debate

on DG, influencing discussions on fairer and more balanced policies for the energy market. This has, in part, been supporting the mitigation of the negative impacts of DG subsidies on the company's business model.

Water

(3.1.1.1) Risk identifier

Select from:

☑ Risk2

(3.1.1.3) Risk types and primary environmental risk driver

Chronic physical

☑ Other chronic physical risk, please specify **:**Changes in precipitation patterns and extreme variability in weather patterns.

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ Brazil

(3.1.1.7) River basin where the risk occurs

Select all that apply

☑ Parana

☑ Tocantins

☑ Uruguay

☑ Other, please specify **:**Rio Taquari, Rio Cuaiabá, Rio Piranhas-Piacó, Rio Curu

(3.1.1.9) Organization-specific description of risk

Engie Brasil Energia is subject to hydrological risks, considering that 78% of its installed capacity comes from hydroelectric plants. Most of them are subject to water scarcity events, which are expected to occur more frequently than in recent decades. One of the main consequences of these events is the reduction of energy production, therefore, a loss of financial gains. Since 2013, Brazil has been facing adverse hydrological conditions for hydroelectric generation due to the low frequency of precipitation in the main areas of water use. Despite the insertion and expansion of renewable sources (wind and solar plants) and the increase in the supply of the thermoelectric park, the Brazilian demand for electricity is met by an average of 60% by hydroelectric plants, with great dependence on water resources for energy generation.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Decreased revenues due to reduced production capacity

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Very likely

(3.1.1.14) Magnitude

Select from:

☑ Medium-high

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

The decrease in the level of reservoirs in periods of drought reduces the generation capacity of hydroelectric plants, resulting in lower revenue and negatively impacting the company's financial indicators. In Brazil, the revenue from the generation of HPPs depends mainly on the MRE, a financial mechanism for sharing hydrological risks between hydroelectric plants. The bonus or risk is shared among all HPPs belonging to this mechanism (all HPPs and some SHPs), so the individual production of the plant is not significant for its revenue, but the total production of the HPPs is. However, this risk sharing comes at a financial cost to the

plant: the Energy Optimization Tariff. This tariff pays the financial compensation for the energy exchanged in the MRE, so it considers an individual analysis of the plant. If the plant received more allocated energy compared to its generation, it will pay a tariff, otherwise it will receive a payment.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ Yes

(3.1.1.23) Anticipated financial effect figure in the long-term – minimum (currency)

996400000

(3.1.1.24) Anticipated financial effect figure in the long-term – maximum (currency)

1743700000

(3.1.1.25) Explanation of financial effect figure

The worst historical hydrology in Brazil happened in 2021, which was the year adopted to assess the financial impact of water scarcity on Engie Brasil Energia's hydroelectric plant with the highest installed capacity. It is located in the Uruguay River Basin. This period resulted in the worst historical generation of the Energy Reallocation Mechanism (MRE), resulting in lower revenue for the plants, being a year of low generation for the asset selected in the analysis. It should be noted that the impact on revenue from the MRE is much greater than the cost of the Energy Optimization Tariff, so global water scarcity has a greater influence on HPPs. The financial impact that water scarcity brought to the assessed asset was R 249 million in 2021. The calculation of the financial impact of water scarcity events takes into account the number of events and the average impact value (R 249 million): Minimum value: V(min) 4 x R 249 million 996.4 million. Maximum value: V(min) 7 x R 249 million 1.74 billion. The number of water scarcity events was determined through climate modeling using the SSP5-8.5 scenario. A range of number of events (from 4 to 7) was defined in 2050.

(3.1.1.26) Primary response to risk

Diversification

☑ Other diversification, please specify **:**Portfolio diversification

(3.1.1.27) Cost of response to risk

13831000000

(3.1.1.28) Explanation of cost calculation

The cost of risk response is mainly related to the investment in the construction of renewable assets and transmission lines by ENGIE Brasil Energia. This is a calculated value, publicly disclosed through the Company's communication channels, such as the Sustainability Report published in 2024. By 2026, Engie plans to invest: -R10.8 billion for the diversification of the renewable energy generation portfolio, with 83% in 2024 (R9B), 15% in 2025 (R1.6B), and 2% in 2026 (R0.2B). -R2.9 billion for the expansion of transmission lines, with 18% in 2024 (R0.5B), 63% in 2025 (R1.8B), and 19% in 2026 (R0.6B). The Company also invests in water resources management programs, such as the Spring Protection and Conservation Program, the Environmental and Socio-patrimonial Inspection Program, among others. The amount is not representative in relation to the cost of building assets, thus not included in this reported data.

(3.1.1.29) Description of response

Situation: With 78% of its installed capacity coming from hydroelectric plants, Engie faces significant risk due to hydrological variability, especially with the more frequent occurrence of droughts in recent years. The worst historical hydrology was recorded in 2021, resulting in significant financial losses. Task: To reduce the impact of droughts, Engie identifies the need to diversify its energy generation matrix and implement strategies for the conservation of water resources in its operations. Action: The company has been investing heavily in the diversification of its portfolio, directing resources to the construction of solar and wind farms and to the expansion of transmission lines. In addition, Engie has developed the Spring Protection and Conservation Program, which aims to protect water sources in the areas where its plants operate. Since 2010, the program has protected about 2,500 springs in the area of influence of 14 assets, with activities that involve the identification of springs, assessment of environmental conditions, construction of protection infrastructure and forest restoration of the surroundings, in partnership with governments and NGOs. Result: The diversification of Engie's energy portfolio has strengthened the company's resilience to climate change, reducing dependence on water resources. The conservation program also had a positive impact on the preservation of water resources, benefiting both Engie's operations and local communities.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk2

(3.1.1.3) Risk types and primary environmental risk driver

Chronic physical

☑ Other chronic physical risk, please specify **:**Changes in precipitation patterns and extreme variability in weather patterns.

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ Brazil

(3.1.1.9) Organization-specific description of risk

Engie Brasil Energia is subject to hydrological risks, considering that 78% of its installed capacity comes from hydroelectric plants. Most of them are subject to water scarcity events, which are expected to occur more frequently than in recent decades. One of the main consequences of these events is the reduction of energy production, therefore, a loss of financial gains. Since 2013, Brazil has been facing adverse hydrological conditions for hydroelectric generation due to the low frequency of precipitation in the main areas of water use. Despite the insertion and expansion of renewable sources (wind and solar plants) and the increase in the supply of the thermoelectric park, the Brazilian demand for electricity is met by an average of 60% by hydroelectric plants, with great dependence on water resources for energy generation.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Decreased revenues due to reduced production capacity

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Very likely

(3.1.1.14) Magnitude

Select from:

☑ Medium-high

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

The decrease in the level of reservoirs in periods of drought reduces the generation capacity of hydroelectric plants, resulting in lower revenue and negatively impacting the company's financial indicators. In Brazil, the revenue from the generation of HPPs depends mainly on the MRE, a financial mechanism for sharing hydrological risks between hydroelectric plants. The bonus or risk is shared among all HPPs belonging to this mechanism (all HPPs and some SHPs), so the individual production of the plant is not significant for its revenue, but the total production of the HPPs is. However, this risk sharing comes at a financial cost to the plant: the Energy Optimization Tariff. This tariff pays the financial compensation for the energy exchanged in the MRE, so it considers an individual analysis of the plant. If the plant received more allocated energy compared to its generation, it will pay a tariff, otherwise it will receive a payment.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ Yes

(3.1.1.23) Anticipated financial effect figure in the long-term – minimum (currency)

996400000

(3.1.1.24) Anticipated financial effect figure in the long-term – maximum (currency)

1743700000

(3.1.1.25) Explanation of financial effect figure

The worst historical hydrology in Brazil happened in 2021, which was the year adopted to assess the financial impact of water scarcity on Engie Brasil Energia's hydroelectric plant with the highest installed capacity. It is located in the Uruguay River Basin. This period resulted in the worst historical generation of the Energy Reallocation Mechanism (MRE), resulting in lower revenue for the plants, being a year of low generation for the asset selected in the analysis. It should be noted that the impact on revenue from the MRE is much greater than the cost of the Energy Optimization Tariff, so global water scarcity has a greater influence on HPPs. The financial impact that water scarcity brought to the assessed asset was R 249 million in 2021. The calculation of the financial impact of water scarcity events takes into account the number of events and the average impact value (R 249 million): Minimum value: V(min) 4 x R 249 million 996.4 million. Maximum value: V(min) 7 x R 249 million 1.74 billion. The number of water scarcity events was determined through climate modeling using the SSP5-8.5 scenario. A range of number of events (from 4 to 7) was defined in 2050.

(3.1.1.26) Primary response to risk

Diversification

☑ Other diversification, please specify :Portfolio diversification

(3.1.1.27) Cost of response to risk

13831000000

(3.1.1.28) Explanation of cost calculation

The cost of risk response is mainly related to the investment in the construction of renewable assets and transmission lines by ENGIE Brasil Energia. This is a calculated value, publicly disclosed through the Company's communication channels, such as the Sustainability Report published in 2024. By 2026, Engie plans to invest: -R10.8 billion for the diversification of the renewable energy generation portfolio, with 83% in 2024 (R9B), 15% in 2025 (R1.6B), and 2% in 2026 (R0.2B). -R2.9 billion for the expansion of transmission lines, with 18% in 2024 (R0.5B), 63% in 2025 (R1.8B), and 19% in 2026 (R0.6B). The Company also invests in water resources management programs, such as the Spring Protection and Conservation Program, the Environmental and Socio-patrimonial Inspection Program, among others. The amount is not representative in relation to the cost of building assets, thus not included in this reported data.

(3.1.1.29) Description of response

Situation: With 78% of its installed capacity coming from hydroelectric plants, Engie faces significant risk due to hydrological variability, especially with the more frequent occurrence of droughts in recent years. The worst historical hydrology was recorded in 2021, resulting in significant financial losses. Task: To reduce the impact of droughts, Engie identifies the need to diversify its energy generation matrix and implement strategies for the conservation of water resources in its operations. Action: The company has been investing heavily in the diversification of its portfolio, directing resources to the construction of solar and wind farms and to the expansion of transmission lines. In addition, Engie has developed the Spring Protection and Conservation Program, which aims to protect water sources in the areas where its plants operate. Since 2010, the program has protected about 2,500 springs in the area of influence of 14 assets, with activities that involve the identification of springs, assessment of environmental conditions, construction of protection infrastructure and forest restoration of the surroundings, in partnership with governments and NGOs. Result: The diversification of Engie's energy portfolio has strengthened the company's resilience to climate change, reducing dependence on water resources. The conservation program also had a positive impact on the preservation of water resources, benefiting both Engie's operations and local communities.
[Add row]

(3.1.2) Provide the amount and proportion of your financial metrics from the reporting year that are vulnerable to the substantive effects of environmental risks.

Climate change

(3.1.2.1) Financial metric

Select from:

☑ Revenue

(3.1.2.2) Amount of financial metric vulnerable to transition risks for this environmental issue (unit currency as selected in 1.2)

0

(3.1.2.3) % of total financial metric vulnerable to transition risks for this environmental issue

Select from:

☑ Less than 1%

(3.1.2.4) Amount of financial metric vulnerable to physical risks for this environmental issue (unit currency as selected in 1.2)

0

(3.1.2.5) % of total financial metric vulnerable to physical risks for this environmental issue

Select from:

☑ Less than 1%

(3.1.2.7) Explanation of financial figures

The disclosed risk is a transition risk expected to occur in 2025. For this reason, there are no financial impacts in the reporting year.

Water

(3.1.2.1) Financial metric

Select from:

☑ Revenue

(3.1.2.2) Amount of financial metric vulnerable to transition risks for this environmental issue (unit currency as selected in 1.2)

0

(3.1.2.3) % of total financial metric vulnerable to transition risks for this environmental issue

Select from:

☑ Less than 1%

(3.1.2.4) Amount of financial metric vulnerable to physical risks for this environmental issue (unit currency as selected in 1.2)

0

(3.1.2.5) % of total financial metric vulnerable to physical risks for this environmental issue

Select from:

☑ Less than 1%

(3.1.2.7) Explanation of financial figures

According to the Energy Research Company (EPE), energy generation from hydraulic sources remained stable in 2023 due to the favorable water regime. The physical risk presented is expected to materialize in the long term. For this reason, there is no financial impact in the reporting year.
[Add row]

(3.2) Within each river basin, how many facilities are exposed to substantive effects of water-related risks, and what percentage of your total number of facilities does this represent?

Row 1

(3.2.1) Country/Area & River basin

Argentina

☑ Other, please specify :Rio Apodi-Mossoró

(3.2.2) Value chain stages where facilities at risk have been identified in this river basin

Select all that apply

☑ Direct operations

(3.2.3) Number of facilities within direct operations exposed to water-related risk in this river basin

1

(3.2.4) % of your organization’s total facilities within direct operations exposed to water-related risk in this river basin

Select from:

☑ 1-25%

(3.2.8) % organization’s annual electricity generation that could be affected by these facilities

Select from:

☑ Less than 1%

(3.2.10) % organization’s total global revenue that could be affected

Select from:

☑ Less than 1%

(3.2.11) Please explain

Located in the Apodi-Mossoró River basin, the Floresta photovoltaic plant was the company's only asset located in a water-stressed region in 2023. According to the Aqueduct Risk Atlas platform, the site is exposed to levels ranging from medium to high water scarcity, considering the period 1979-2019. The analysis measures the relationship between surface and groundwater availability and total water demand, including domestic, industrial, irrigation, and livestock uses. It should be noted that

water consumption in this asset, as well as in other photovoltaic plants, is very low. The main water consumption is linked to the cleaning of solar panels, which happens during scheduled maintenance more than once a year but with low water consumption levels. Therefore, the asset is located in an area of water stress, but the use and dependence on the resource is low.
[Add row]

(3.3) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

	Water-related regulatory violations	Comment
	Select from: ☑ No	*In 2023, Engie was not subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations.*

[Fixed row]

(3.5) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

Select from:
☑ No, and we do not anticipate being regulated in the next three years

(3.6) Have you identified any environmental opportunities which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

	Environmental opportunities identified
Climate change	*Select from:*

	Environmental opportunities identified
	☑ Yes, we have identified opportunities, and some/all are being realized
Water	*Select from:* ☑ Yes, we have identified opportunities, and some/all are being realized

[Fixed row]

(3.6.1) Provide details of the environmental opportunities identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp1

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Markets

☑ Other markets opportunity, please specify **:**Expansion of market share in the transmission sector

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ Brazil

(3.6.1.8) Organization specific description

Increasing demand for electricity, due to climate change, drives the growth of transmission projects. With higher temperatures, electricity grids need to be expanded and modernized to ensure a reliable supply of energy and ensure quality of life conditions also associated with the adaptive capacity of the population. New transmission projects connect renewables to urban centers, sustaining the growing demand for electricity in a resilient and low-carbon way. In this context, the opportunity refers to the growth in demand for new transmission projects due to the increase in demand for electricity to adapt to climate change and expand renewable energy generation units. Currently, Engie Brasil Energia has two transmission lines in operation. Gralha Azul has a length of 1000km and crosses 24 municipalities in Paraná. Novo Estado has an extension of 1800km and passes through 23 municipalities in the states of Tocantins and Pará.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased value of fixed assets

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

☑ The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Very likely (90–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium-high

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

n the reporting year, Engie Brasil Energia had renewable energy generation assets and two transmission lines (Gralha Azul and Novo Estado) in its portfolio. In order to expand its portfolio, in 2023, the Company signed a concession agreement for the Asa Branca project, which will play an important role in the flow of renewable energy generated in wind and solar farms in the Northeast Region. The contracted Permitted Annual Revenue (RAP) is equivalent to R 249.3 million.

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

The expansion of Engie's transmission lines, in line with the growth in demand for energy, represents an opportunity to increase Engie Brasil Energia's revenue. The increase in transmitted volumes and the enhancement of the capacity to serve new customers will have a positive impact on the organization's financial results, contributing to the strengthening of its position in the market.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.16) Financial effect figure in the reporting year (currency)

697808078

(3.6.1.17) Anticipated financial effect figure in the short-term - minimum (currency)

191290741

(3.6.1.18) Anticipated financial effect figure in the short-term – maximum (currency)

286936112

(3.6.1.23) Explanation of financial effect figures

The estimate of the financial impact took into account the projected data for the expansion of transmission lines in Brazil presented in the 2032 Ten-Year Energy Plan (PDE 2032), released by the Energy Research Company (EPE). It was assumed that the growth in revenue in the transmission segment is directly linked to the expansion of transmission projects, maintaining Engie Brasil Energia's participation in the transmission segment constant. The 2023 data refers to the realized amount, while for the years 2024 to 2050 it is a projection considering different scenarios (Net Zero and NDC) based on 2023 results. In the analysis, the Net Present Value (NPV) was calculated to show the present value of the financial impact over this period. 2023: 2023 Value: R 697 Mi (realized). It corresponds to the generation of allowed annual revenue (RAP) in 2023 by the Gralha Azul and Novo Estado transmission lines. 2024 to 2050: Revenue gain considering: NPV Km/transmission lines (Projection for Brazil provided by EPE, varying annually) x Engie market share (1.5% in 2023) x Revenue/km line (R 257Mi/km in 2023). It is understood that in

the Net Zero scenario the expansion of transmission lines will be greater than in the NDC scenario due to the trend of electrification and greater expansion of renewables. Thus, the premise states that the projected growth for transmission lines in the Net Zero scenario is 50% higher than in the Declared Policies scenario. In this sense, the minimum value of the financial impact is in line with the NDCs scenario, which represents the lowest transition level. On the other hand, the maximum value is associated with the Net Zero scenario, which represents the highest transition level.

(3.6.1.24) Cost to realize opportunity

3406000000

(3.6.1.25) Explanation of cost calculation

The cost of realizing the opportunity is related to the cost of implementing a new transmission system. Between 2023 and 2026, Engie Brasil Energia expects to contribute around R 3.4 billion for the expansion of the company's transmission lines, as follows: - 8% in 2023 (R 241 billion); - 17% in 2024 (R 531 billion); - 59% in 2025 (R 1.876 billion); - 17% in 2026 (R 553 billion). Values for the coming years are under evaluation.

(3.6.1.26) Strategy to realize opportunity

Situation: Engie Brasil Energia's operations have been gaining relevance in the transmission segment, as part of the strategy to diversify the portfolio of assets and invest in infrastructure for the flow of renewable energy, contributing to a safe and affordable energy transition. Task: The company has been working on the planning and execution of projects in the transmission segment. In 2023, the energization of the Gralha Azul project, in Paraná, and Novo Estado, in the states of Tocantins and Pará, was completed. Also in this segment, during the same year, the Company continued the works of Gavião Real Transmissora de Energia, which will also serve the distribution network of Pará. In parallel, Engie was preparing the implementation of another large project won at auction in June 2023, the Asa Branca Transmission System, passing through three states — Bahia, Minas Gerais and Espírito Santo. Action: Between 2023 and 2026, Engie Brasil Energia expects to contribute around R 3.4 billion for the expansion of the company's transmission lines, being: 8% in 2023 (R 241 billion), 17% in 2024 (R 531 billion), 59% in 2025 (R 1.876 billion) and 17% in 2026 (R 553 billion). The values for the coming years are under evaluation. In order to ensure excellence in the execution of its transmission projects, Engie has an Energy Transmission Forum. This forum, composed of multidisciplinary teams, has as its main function to analyze and propose solutions to the challenges related to the development and implementation of new initiatives in this segment. Result: The Gralha Azul project, in Paraná, and Novo Estado, in the states of Tocantins and Pará, represented the entry into operation of 2,709 kilometers of transmission lines, which reached a very high degree of availability in the period — 99.95%. The Asa Branca Transmission System will guarantee a strategic position for the flow of renewable energy generated in the Northeast, destined for the Southeast and Midwest, and will be about 1,000 kilometers long.

Water

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp2

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Reputational capital

☑ Improved ratings by sustainability/ESG indexes

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ Brazil

(3.6.1.6) River basin where the opportunity occurs

Select all that apply

☑ Parana

☑ Tocantins

☑ Uruguay

☑ Other, please specify **:**Rio Taquari, Rio Cuaiabá, Rio Piranhas-Piacó, Rio Curu

(3.6.1.8) Organization specific description

The performance of companies in sustainability and/or ESG indices impacts the allocation of resources by investors, who have increasingly directed investments to companies that demonstrate good ESG practices. In addition to the CDP, one of the indexes evaluated is the Dow Jones and the ISE Corporate Sustainability Index, which have specific modules for the water theme.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased access to capital

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.12) Magnitude

Select from:

☑ Medium

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

Improving performance in sustainability and ESG indices has a direct positive impact on Engie Brasil Energia's financial position, by attracting more institutional investors who prioritize responsible investments and access to capital with more favorable conditions. A good ESG performance improves the company's reputation, increasing its competitiveness in the market and preferential conditions in green financing. These practices can expand Engie's client portfolio and strengthen strategic partnerships, contributing to a more robust revenue stream and a stronger financial position.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.16) Financial effect figure in the reporting year (currency)

6100000000

(3.6.1.23) Explanation of financial effect figures

It is estimated that the company's market value will increase by 20% from the implementation of this opportunity (R 61 Bi). The value was estimated based on the market value of Engie Brasil Energia in 2023 (R 37 Bi) compared to 2022 (R 30.9 Bi). Such data is disclosed annually in the company's Sustainability report. It was assumed that there is a direct relationship between the value of the company and its performance in sustainability indices, such as Dow Jones. This relationship is assumed due to the improvement in Engie Brasil Energia's performance in 2023 in the Dow Jones index, which contributes to the company's positioning in the market. This year, the company improved its performance in the "Water" theme by 13% compared to the previous year.

(3.6.1.24) Cost to realize opportunity

93094081

(3.6.1.25) Explanation of cost calculation

The opportunity cost was calculated and reported in Engie Brasil Energia's balance sheets in 2023. The calculation took into account the following variables: - CAPEX: R 89Bi, of which: 99% (R 88Bi) is associated with projects to modernize hydro generation assets in two regional offices: REMG (Minas Gerais Regional) and RERI (Iguaçu River Regional) 1% (R 1Bi) is linked to structuring projects, which included, for example, the construction of water mains in an asset in the South Southeast Region. -OPEX: R 4 million, of which: 78% (R 3 million) is associated to the inspection and maintenance of surface and groundwater quality 10% (R 0.4 million) related to the treatment and disposal of liquid effluents 7% (R 0.3 million) related to erosion control and slope maintenance 5% (R 0.2 million) associated to multiple use of the reservoir. Such projects enable the operation of assets efficiently and in a way that ensures the conservation of water resources, as recommended in Engie's Environmental Policy. As a result of good operational performance and environmental conservation, Engie reinforces its positive relationship with the communities surrounding the reservoirs. In addition, it guarantees a good performance in sustainability indexes. In 2023, Engie Brasil Energia improved its water performance in the Dow Jones questionnaire by more than 13%.

(3.6.1.26) Strategy to realize opportunity

Situation: Engie perceives that performance in sustainability and ESG indices such as the CDP, Dow Jones Sustainability Index (DJSI), and the Corporate Sustainability Index (ISE) is increasingly valued by investors. Good performance in these indices can result in better conditions of access to capital. Task: The company has defined as a strategic priority to improve its water resources management practices in order to improve its performance in the sustainability and ESG indexes. The task involves integrating water management best practices into their operations and transparency in the disclosure of these efforts. Action: The company has also been intensifying its transparency by reporting in detail its practices and results in relation to water management in CDP questionnaires and other sustainability reports. Result: There is a significant improvement in Engie's sustainability and ESG indexes. In 2023, Engie Brasil Energia improved its water performance in the Dow Jones questionnaire by 13%. There was also a 20% increase in market value compared to the previous year, to which the ESG performance contributes. As a result, Engie has greater potential for access to investments.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp2

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Reputational capital

☑ Improved ratings by sustainability/ESG indexes

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ Brazil

(3.6.1.8) Organization specific description

The performance of companies in sustainability and/or ESG indices impacts the allocation of resources by investors, who have increasingly directed investments to companies that demonstrate good ESG practices. In addition to the CDP, one of the indexes evaluated is the Dow Jones and the ISE Corporate Sustainability Index, which have specific modules for the climate change theme.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased access to capital

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ The opportunity has already had a substantive effect on our organization in the reporting year

(3.6.1.12) Magnitude

Select from:

☑ Medium

(3.6.1.13) Effect of the opportunity on the financial position, financial performance and cash flows of the organization in the reporting period

Improving performance in sustainability and ESG indices has a direct positive impact on Engie Brasil Energia's financial position, by attracting more institutional investors who prioritize responsible investments and access to capital with more favorable conditions. A good ESG performance improves the company's reputation, increasing its competitiveness in the market and preferential conditions in green financing. These practices can expand Engie's client portfolio and strengthen strategic partnerships, contributing to a more robust revenue stream and a stronger financial position.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.16) Financial effect figure in the reporting year (currency)

6100000000

(3.6.1.23) Explanation of financial effect figures

It is estimated that the company's market value will increase by 20% from the implementation of this opportunity (R 61 Bi). The value was estimated based on the market value of Engie Brasil Energia in 2023 (R 37 Bi) compared to 2022 (R 30.9 Bi). Such data is disclosed annually in the company's Sustainability report. It was assumed that there is a direct relationship between the value of the company and its performance in sustainability indices, such as Dow Jones. This relationship is assumed due to the improvement in Engie Brasil Energia's performance in 2023 in the Dow Jones index, which contributes to the company's positioning in the market. This year, the company improved its performance in the "Climate Strategy" theme by 3% and in the "Emissions" theme, that includes GHG emissions, about 70% compared to the previous year.

(3.6.1.24) Cost to realize opportunity

93094081

(3.6.1.25) Explanation of cost calculation

The opportunity cost was calculated and reported in Engie Brasil Energia's balance sheets in 2023. The calculation took into account the following variables: - CAPEX: R 89Bi, of which: 99% (R 88Bi) is associated with projects to modernize hydro generation assets in two regional offices: REMG (Minas Gerais Regional) and RERI (Iguaçu River Regional) 1% (R 1Bi) is linked to structuring projects, which included, for example, the construction of water mains in an asset in the South Southeast Region. -OPEX: R 4 million, of which: 78% (R 3 million) is associated to the inspection and maintenance of surface and groundwater quality 10% (R 0.4 million) related to the treatment and disposal of liquid effluents 7% (R 0.3 million) related to erosion control and slope maintenance 5% (R 0.2 million) associated to multiple use of the reservoir. Such projects enable the operation of assets efficiently and in a way that ensures the conservation of water resources, as recommended in Engie's Environmental Policy. The opportunity costs consider only hydroelectric plants, that represented 78% of ENGIE Brasil Energia's installed capacity in 2023. This value is particularly relevant for the company, considering that its hydroelectric plants represent one of the main sources of electricity generation. As a result of

good operational performance and environmental conservation, Engie reinforces its positive relationship with the communities surrounding the reservoirs. In addition, it guarantees a good performance in sustainability indexes. In 2023, Engie Brasil Energia improved its performance in the Dow Jones questionnaire by more than 13% in water aspects, 3% in climate strategy and about 70% in emissions aspects, that includes GHG emissions, compared to the previous year.

(3.6.1.26) Strategy to realize opportunity

Situation: Engie perceives that performance in sustainability and ESG indices such as the CDP, Dow Jones Sustainability Index (DJSI), and the Corporate Sustainability Index (ISE) is increasingly valued by investors. Good performance in these indices can result in better conditions of access to capital. Task: The company has defined as a strategic priority to improve its GHG emissions management practices in order to improve its performance in the sustainability and ESG indexes. There are projects to reduce GHG emissions related to switch fossil fuel to renewable fuel in the vehicle fleet and acquire energy from renewable sources. Action: The company has also been intensifying its transparency by reporting in detail its practices and results in relation to GHG emissions management in CDP questionnaires and other sustainability reports. Result: There is a significant improvement in Engie's sustainability and ESG indexes. In 2023, Engie Brasil Energia improved its GHG emissions performance in the Dow Jones questionnaire (3% increase in the score related to the climate strategy and 75% in emissions theme, that includes GHG emissions). There was also a 20% increase in market value compared to the previous year, to which the ESG performance contributes. As a result, Engie has greater potential for access to investments.
[Add row]

(3.6.2) Provide the amount and proportion of your financial metrics in the reporting year that are aligned with the substantive effects of environmental opportunities.

Climate change

(3.6.2.1) Financial metric

Select from:
☑ Revenue

(3.6.2.2) Amount of financial metric aligned with opportunities for this environmental issue (unit currency as selected in 1.2)

697808078

(3.6.2.3) % of total financial metric aligned with opportunities for this environmental issue

Select from:

☑ 11-20%

(3.6.2.4) Explanation of financial figures

This opportunity (R 697 Mi) is associated with the annual revenue (RAP), in 2023, of the Gralha Azul and Novo Estado transmission lines. The amount corresponds to: - 38% Gralha Azul (R 267 Mi); - 62% Novo Estado (R 431 Mi).

Water

(3.6.2.1) Financial metric

Select from:

☑ Revenue

(3.6.2.2) Amount of financial metric aligned with opportunities for this environmental issue (unit currency as selected in 1.2)

6100000000

(3.6.2.3) % of total financial metric aligned with opportunities for this environmental issue

Select from:

☑ 11-20%

(3.6.2.4) Explanation of financial figures

It is estimated that the market value will increase by 20% from the implementation of this opportunity (R 6.1 billion). The value was estimated based on Engie Brasil Energia's market value in 2023 (R 37 Bi) compared to 2022 (R 30.9 Bi). Such data is disclosed annually in the company's Sustainability Report. It was assumed that there is a direct relationship between the value of the company and its performance in sustainability indices, such as the Dow Jones. This relationship is assumed due to the improvement in Engie Brasil Energia's performance in 2023 in the Dow Jones index, which contributes to the company's positioning in the market. This year, the company improved its performance in the "Water" theme by 13% compared to the previous year.
[Add row]

C4. Governance

(4.1) Does your organization have a board of directors or an equivalent governing body?

(4.1.1) Board of directors or equivalent governing body

Select from:

☑ Yes

(4.1.2) Frequency with which the board or equivalent meets

Select from:

☑ More frequently than quarterly

(4.1.3) Types of directors your board or equivalent is comprised of

Select all that apply

☑ Executive directors or equivalent

☑ Non-executive directors or equivalent

☑ Independent non-executive directors or equivalent

(4.1.4) Board diversity and inclusion policy

Select from:

☑ Yes, and it is publicly available

(4.1.5) Briefly describe what the policy covers

Engie Brasil Energia presents corporate guidelines related to Diversity, Gender Equity and Inclusion (DEI). These pillars aim to increase diversity in teams, promoting an inclusive work environment that respects and values individual differences, as well as guaranteeing equal opportunities for all employees. To achieve these objectives, Engie has established a Policy based on nine pillars, ranging from respect for differences to the implementation of specific measures to ensure compliance with the DEI commitments. In addition, Engie has a Policy on the Appointment of Directors, Officers and Committee Members, which is a key instrument for decision-making at senior management level. This policy ensures that the composition of the Board of Directors, its Committees and the Executive Board is

aligned with the best governance practices. The nomination process takes into account important criteria such as the complementarity of skills, the availability of time to carry out the duties and diversity, promoting a management that reflects the company's values.

(4.1.6) Attach the policy (optional)

ENGIE Policy Nomination of Directors and Committee Members.pdf
[Fixed row]

(4.1.1) Is there board-level oversight of environmental issues within your organization?

	Board-level oversight of this environmental issue
Climate change	*Select from:* ☑ Yes
Water	*Select from:* ☑ Yes
Biodiversity	*Select from:* ☑ Yes

[Fixed row]

(4.1.2) Identify the positions (do not include any names) of the individuals or committees on the board with accountability for environmental issues and provide details of the board's oversight of environmental issues.

Climate change

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ President
☑ Board chair
☑ General Counsel
☑ Board-level committee
☑ Chief Executive Officer (CEO)
☑ Chief Sustainability Officer (CSO)

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:
☑ Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply
☑ Other policy applicable to the board, please specify :Engie's Policy for Sustainable Management

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:
☑ Scheduled agenda item in some board meetings – at least annually

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply
☑ Reviewing and guiding annual budgets
☑ Overseeing and guiding scenario analysis
☑ Overseeing the setting of corporate targets
☑ Monitoring progress towards corporate targets
☑ Approving corporate policies and/or commitments
☑ Overseeing and guiding the development of a business strategy
☑ Overseeing and guiding acquisitions, mergers, and divestitures
☑ Monitoring supplier compliance with organizational requirements
☑ Monitoring compliance with corporate policies and/or commitments
☑ Reviewing and guiding innovation/R&D priorities
☑ Approving and/or overseeing employee incentives
☑ Overseeing and guiding major capital expenditures
☑ Monitoring the implementation of the business strategy
☑ Monitoring the implementation of a climate transition plan

☑ Overseeing and guiding the development of a climate transition plan

☑ Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

(4.1.2.7) Please explain

At Engie, the issue of climate change is integrated into the company's governance mechanisms. The Board of Directors approves corporate policies and commitments related to climate change, ensuring that they are aligned with the company's strategic objectives. The annual budget is reviewed and oriented to include climate considerations, reflecting the importance of considering dependencies, impacts, risks and opportunities, as well as possible climate trajectories, in all operations. In this sense, scenario analysis aims to ensure that the company is prepared for a variety of possible climate futures. Thus, the definition of corporate goals related to climate change is aligned with the scenarios considered in the studies prepared by the company, enabling the regular review of innovation and research and development (R&D) priorities. The implementation of the business strategy is therefore monitored on a regular basis, with special attention paid to the company's climate transition plan, which is currently being drawn up. This monitoring aims to ensure that the company's actions are in line with its climate commitments. Acquisitions, mergers and divestments are guided by a climate perspective, as is supplier compliance with organizational requirements. Progress towards corporate targets is also constantly monitored, with incentives being set for employees to promote their achievement.

Water

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ President

☑ Board chair

☑ General Counsel

☑ Board-level committee

☑ Chief Executive Officer (CEO)

☑ Chief Sustainability Officer (CSO)

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply

☑ Other policy applicable to the board, please specify **:**Engie's Policy for Sustainable Management

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Scheduled agenda item in some board meetings – at least annually

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Reviewing and guiding annual budgets
☑ Overseeing and guiding scenario analysis
☑ Overseeing the setting of corporate targets
☑ Approving corporate policies and/or commitments
☑ Overseeing and guiding public policy engagement
☑ Monitoring the implementation of a climate transition plan
☑ Overseeing and guiding the development of a business strategy
☑ Overseeing and guiding acquisitions, mergers, and divestitures
☑ Monitoring supplier compliance with organizational requirements
☑ Monitoring compliance with corporate policies and/or commitments
☑ Overseeing and guiding the development of a climate transition plan
☑ Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities
☑ Overseeing and guiding public policy engagement
☑ Reviewing and guiding innovation/R&D priorities
☑ Approving and/or overseeing employee incentives
☑ Overseeing and guiding major capital expenditures
☑ Monitoring the implementation of the business strategy

(4.1.2.7) Please explain

Similar to the climate approach, the Board of Directors approves corporate policies and commitments related to water management, ensuring that they are aligned with the company's strategic objectives. The annual budget is reviewed and oriented to include water considerations, reflecting the importance of addressing the dependencies, impacts, risks and opportunities associated with water security in all operations, especially considering the organization's hydroelectric plants. Scenario analysis is conducted to ensure that the company is prepared to face various situations related to water availability and quality. The implementation of the business strategy is monitored periodically, with special attention to water management plans and the location of assets. The supervision of acquisitions, mergers and divestments also includes an assessment of water impacts, as well as suppliers' compliance with environmental requirements, which include proper water management.

Biodiversity

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ President
☑ Board chair
☑ General Counsel
☑ Board-level committee
☑ Chief Executive Officer (CEO)
☑ Chief Sustainability Officer (CSO)

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply

☑ Other policy applicable to the board, please specify **:**Engie's Policy for Sustainable Management

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Scheduled agenda item in some board meetings – at least annually

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Reviewing and guiding annual budgets
☑ Overseeing and guiding scenario analysis
☑ Approving corporate policies and/or commitments
☑ Reviewing and guiding innovation/R&D priorities
☑ Approving and/or overseeing employee incentives
☑ Monitoring supplier compliance with organizational requirements
☑ Overseeing and guiding major capital expenditures
☑ Monitoring the implementation of the business strategy
☑ Monitoring the implementation of a climate transition plan
☑ Overseeing and guiding the development of a business strategy
☑ Overseeing and guiding acquisitions, mergers, and divestitures

☑ Monitoring compliance with corporate policies and/or commitments
☑ Overseeing and guiding the development of a climate transition plan
☑ Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

(4.1.2.7) Please explain

For Engie, the preservation of biodiversity is also a priority integrated into the company's governance mechanisms. As with the approach to climate change and water security, the Board of Directors approves corporate policies and commitments related to biodiversity, ensuring that they are aligned with the company's strategic objectives. The annual budget includes the related demands, reflecting the importance of addressing the dependencies, impacts, risks and opportunities associated with environmental preservation in all operations. The implementation of the business strategy is monitored periodically, with special attention to scenario analyses and biodiversity preservation plans, with a view to ensuring compliance with environmental commitments. Therefore, the supervision of acquisitions, mergers and divestments includes the assessment of impacts on biodiversity, as well as the compliance of suppliers with the company's environmental preservation requirements. [Fixed row]

(4.2) Does your organization’s board have competency on environmental issues?

Climate change

(4.2.1) Board-level competency on this environmental issue

Select from:
☑ Yes

(4.2.2) Mechanisms to maintain an environmentally competent board

Select all that apply
☑ Consulting regularly with an internal, permanent, subject-expert working group
☑ Engaging regularly with external stakeholders and experts on environmental issues
☑ Integrating knowledge of environmental issues into board nominating process
☑ Regular training for directors on environmental issues, industry best practice, and standards (e.g., TCFD, SBTi)
☑ Having at least one board member with expertise on this environmental issue

(4.2.3) Environmental expertise of the board member

Experience

☑ Executive-level experience in a role focused on environmental issues

☑ Management-level experience in a role focused on environmental issues

☑ Experience in an organization that is exposed to environmental-scrutiny and is going through a sustainability transition

Water

(4.2.1) Board-level competency on this environmental issue

Select from:

☑ Yes

(4.2.2) Mechanisms to maintain an environmentally competent board

Select all that apply

☑ Consulting regularly with an internal, permanent, subject-expert working group

☑ Engaging regularly with external stakeholders and experts on environmental issues

☑ Integrating knowledge of environmental issues into board nominating process

☑ Regular training for directors on environmental issues, industry best practice, and standards (e.g., TCFD, SBTi)

☑ Having at least one board member with expertise on this environmental issue

(4.2.3) Environmental expertise of the board member

Experience

☑ Executive-level experience in a role focused on environmental issues

☑ Management-level experience in a role focused on environmental issues

☑ Experience in an organization that is exposed to environmental-scrutiny and is going through a sustainability transition

[Fixed row]

(4.3) Is there management-level responsibility for environmental issues within your organization?

	Management-level responsibility for this environmental issue
Climate change	*Select from:* ☑ Yes
Water	*Select from:* ☑ Yes
Biodiversity	*Select from:* ☑ Yes

[Fixed row]

(4.3.1) Provide the highest senior management-level positions or committees with responsibility for environmental issues (do not include the names of individuals).

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Executive Officer (CEO)

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Assessing environmental dependencies, impacts, risks, and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Implementing a climate transition plan

☑ Implementing the business strategy related to environmental issues

☑ Managing annual budgets related to environmental issues

☑ Managing major capital and/or operational expenditures relating to environmental issues

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Quarterly

(4.3.1.6) Please explain

Engie's CEO is responsible for managing the company's climate issues. His responsibilities include implementing the company's strategy with climate issues in mind, incorporating considerations about the company's climate transition plan (which is currently being drawn up), and ensuring that decisions are in line with the planned budgets. This alignment of the company's positioning is essential for consolidating environmental performance, and is embodied in the company's Climate Journey. The CEO also monitors compliance with corporate policies and commitments, and participates in defining incentives related to environmental performance. The direct reporting line to the board ensures that climate issues are addressed effectively and strategically, with quarterly reporting.

Water

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Executive Officer (CEO)

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Implementing a climate transition plan

☑ Implementing the business strategy related to environmental issues

☑ Managing annual budgets related to environmental issues

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Half-yearly

(4.3.1.6) Please explain

Engie's CEO oversees strategic initiatives to improve efficiency in the use of the company's water resources. Responsibilities include monitoring issues associated with dependencies, impacts, risks and opportunities related to water use, in order to ensure informed decisions regarding the company's use of this resource. As part of these decisions, the company is committed to reducing fresh water consumption by around 70% by 2030. Through direct reporting to the board, the CEO keeps the water conservation strategy integrated into the company's operations and strategic planning.

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Executive Officer (CEO)

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Implementing a climate transition plan

☑ Implementing the business strategy related to environmental issues

☑ Managing annual budgets related to environmental issues

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Half-yearly

(4.3.1.6) Please explain

Engie's CEO also oversees the company's biodiversity issues in order to ensure that operations minimize negative impacts on ecosystems. Responsibilities include monitoring compliance with corporate environmental policies and ensuring that appropriate measures are taken to identify and protect sensitive areas, contributing to biodiversity conservation.

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Financial Officer (CFO)

(4.3.1.2) Environmental responsibilities of this position

Strategy and financial planning

☑ Managing annual budgets related to environmental issues

☑ Implementing the business strategy related to environmental issues

☑ Developing a business strategy which considers environmental issues

☑ Managing acquisitions, mergers, and divestitures related to environmental issues

☑ Managing major capital and/or operational expenditures relating to environmental issues

☑ Managing priorities related to innovation/low-environmental impact products or services (including R&D)

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Annually

(4.3.1.6) Please explain

The CFO works to integrate climate considerations into the company's financial strategy. His or her responsibilities include managing annual budgets related to environmental issues, implementing the corporate strategy with climate issues in mind, and managing acquisitions, mergers and divestments also in light of environmental issues. In addition, the CFO is responsible for managing significant capital and operating expenses, promoting innovation and the development of products or services with a low environmental impact. The CFO's actions ensure that the company's financial goals are aligned with its environmental commitments, reporting annually to the board on these matters.

Water

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Financial Officer (CFO)

(4.3.1.2) Environmental responsibilities of this position

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Implementing the business strategy related to environmental issues

☑ Managing acquisitions, mergers, and divestitures related to environmental issues

☑ Managing annual budgets related to environmental issues

☑ Managing major capital and/or operational expenditures relating to environmental issues

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Annually

(4.3.1.6) Please explain

The CFO considers water conservation initiatives when allocating financial resources. Their responsibilities include managing annual budgets and capital and operating expenses that include actions aimed at water efficiency, in line with the company's strategies that consider sustainable water management. The CFO also oversees acquisitions and mergers that are related to reducing water impact.

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Financial Officer (CFO)

(4.3.1.2) Environmental responsibilities of this position

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Implementing the business strategy related to environmental issues

☑ Managing acquisitions, mergers, and divestitures related to environmental issues

☑ Managing annual budgets related to environmental issues

☑ Managing major capital and/or operational expenditures relating to environmental issues

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Annually

(4.3.1.6) Please explain

As with the Climate and Water themes, Engie's CFO plays a key role in integrating Biodiversity considerations into the company's financial strategy. His responsibilities include managing annual budgets and capital expenditure in line with biodiversity conservation strategy. The CFO also oversees acquisitions and mergers with a focus on minimizing impacts on biodiversity. With an annual report to the board, the CFO must ensure that the company's financial executions are in line with its biodiversity commitments, reporting on financial opportunities connected to the issue or the need for budgetary interventions, with a view to contributing to sustainable environmental management.

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Sustainability Officer (CSO)

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing supplier compliance with environmental requirements

☑ Managing value chain engagement related to environmental issues

Policies, commitments, and targets

☑ Setting corporate environmental policies and/or commitments

☑ Setting corporate environmental targets

Strategy and financial planning

☑ Conducting environmental scenario analysis

☑ Developing a climate transition plan

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ More frequently than quarterly

(4.3.1.6) Please explain

Engie Brasil Energia's CSO, in addition to supervising the dependencies, impacts, risks and opportunities related to climate change for the assets and the company as a whole, also works to engage the value chain on climate issues. The CSO identifies and assesses the position in relation to corporate environmental policies and commitments, as well as defining specific corporate environmental targets to mitigate climate change. In addition, it guides climate transition plans and the conduct of climate scenario analyses to ensure that the company is prepared to face the future challenges of climate change. The CSO reports directly to the board of directors more frequently than quarterly, ensuring that progress towards climate goals is monitored frequently and that strategic decisions are informed by climate considerations.

Water

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Sustainability Officer (CSO)

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing supplier compliance with environmental requirements

☑ Managing value chain engagement related to environmental issues

Policies, commitments, and targets

☑ Setting corporate environmental policies and/or commitments

☑ Setting corporate environmental targets

Strategy and financial planning

☑ Conducting environmental scenario analysis

☑ Developing a climate transition plan

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ More frequently than quarterly

(4.3.1.6) Please explain

Engie Brasil Energia's CSO is responsible for overseeing environmental issues, including water management. This role includes managing the issue throughout the company's value chain. The CSO works to identify the alignment of practices with corporate policies and commitments for the conservation and efficient use of water, as well as defining specific environmental targets for water management. In addition, the CSO oversees the preparation of water management plans and conducts analyses of water-related scenarios, ensuring that the company is prepared to face challenges to the availability and quality of water resources. Reporting directly to the board of directors more frequently than quarterly, the CSO ensures that water governance is a strategic priority.

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Sustainability Officer (CSO)

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing supplier compliance with environmental requirements

☑ Managing value chain engagement related to environmental issues

Policies, commitments, and targets

☑ Setting corporate environmental policies and/or commitments

☑ Setting corporate environmental targets

Strategy and financial planning

☑ Conducting environmental scenario analysis

☑ Developing a climate transition plan

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ More frequently than quarterly

(4.3.1.6) Please explain

Responsible for managing environmental issues, the CSO's work also covers Biodiversity. The CSO oversees the dependencies, impacts, risks and opportunities related to this issue in order to ensure that the actions, policies and commitments undertaken are duly aligned with the requirements of biodiversity protection, especially considering the impacts that hydroelectric and wind power plant assets can have on the surrounding ecosystem. Reporting directly to the board of directors on a more than quarterly basis, the CSO ensures that biodiversity is integrated into the company's agenda.

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Committee

☑ Risk committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Assessing environmental dependencies, impacts, risks, and opportunities

☑ Assessing future trends in environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Annually

(4.3.1.6) Please explain

Engie Brasil Energia's Risk Committee is responsible for assessing and managing the dependencies, impacts, risks and opportunities related to climate change, ensuring compliance with environmental policies and sustainability commitments. The committee uses trend analyses and climate scenarios to prepare the company for potential risks. In 2023, an updated version of the Business Risks and Opportunities Matrix was drawn up, following the Engie Group's methodology, based on ISO 31000 and COSO ERM. Climate risk, ranked among the top 10 to be managed, requires a comprehensive, cross-cutting assessment. The management process, aligned with the Group's guidelines, involves Senior Management, the Audit Committee, the Corporate Risk Management Forum, the Governance, Risks and Internal Controls Management, the Environment and Climate Management and the Investor Relations Management, among other areas. Reporting annually to the board of directors, the Risk Committee integrates climate risk mitigation strategies into the company's strategic planning, adopting a proactive approach. In 2023, Engie began drawing up adaptation plans for each asset, assessing the risks, causes, consequences and financial impacts of climate change. In 2024, new risks and opportunities, including critical monetary impacts, will be assessed.

Water

(4.3.1.1) Position of individual or committee with responsibility

Committee

☑ Risk committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Assessing environmental dependencies, impacts, risks, and opportunities

☑ Assessing future trends in environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Annually

(4.3.1.6) Please explain

Engie's Risk Committee is responsible for assessing risks and opportunities related to the environment, including water resources. The committee also monitors compliance with corporate environmental policies and legislation, ensuring that the company is in line with its objectives and the regulations applicable to the sector. This committee reports directly to the board on an annual basis, providing a comprehensive overview of the environmental risks and opportunities facing the company. In 2023, an updated version of the Business Risks and Opportunities Matrix was drawn up, after conducting a new risk analysis cycle - which followed the methodology adopted by the Engie Group, based on ISO 31000 and COSO ERM. Under this methodology, 10 main groups of risks - with the potential to negatively impact the company's financial results and reputation - were consolidated. As a result, 55 mitigation plans were generated, which are monitored quarterly by the committee. Among the risks related to the environment, one of the main categories is the use of the surroundings of the reservoirs, for which there are Environmental Plans as management mechanisms.

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Committee

☑ Risk committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Assessing environmental dependencies, impacts, risks, and opportunities

☑ Assessing future trends in environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Annually

(4.3.1.6) Please explain

Engie's Risk Committee is responsible for assessing risks and opportunities related to the environment, including the issue of biodiversity. The committee also monitors compliance with corporate environmental policies and legislation, ensuring that the company is in line with its objectives and the regulations applicable to the sector. This committee reports directly to the board on an annual basis, providing a comprehensive overview of the environmental risks and opportunities facing the company. In 2023, an updated version of the Business Risks and Opportunities Matrix was drawn up, after conducting a new risk analysis cycle - which followed the methodology adopted by the Engie Group, based on ISO 31000 and COSO ERM. Under this methodology, 10 main groups of risks - with the potential to negatively impact the company's financial results and reputation - were consolidated. As a result, 55 mitigation plans were generated, which are monitored quarterly by the committee. Therefore, its role is decisive in identifying and mitigating environmental risks, ensuring that the company makes informed and proactive decisions in relation to environmental management. Among the risks related to the environment, the main categories in the biodiversity axis are Ichthyofauna and Avifauna, as well as Environmental Protection Areas, especially due to the company's hydroelectric and wind power plants.

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Committee

☑ Sustainability committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing engagement in landscapes and/or jurisdictions

☑ Managing public policy engagement related to environmental issues

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Developing a climate transition plan

☑ Implementing a climate transition plan

☑ Managing priorities related to innovation/low-environmental impact products or services (including R&D)

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ More frequently than quarterly

(4.3.1.6) Please explain

Engie's Sustainability Committee oversees the issues of environmental dependencies, impacts, risks and opportunities related to climate change. This committee is also responsible for developing an organizational strategy that considers environmental issues and for managing priorities related to innovation and low environmental impact products or services, including research and development. Specific climate and ESG targets are set for the Sustainability Committee and monitored by the Board. Direct reporting to the board takes place on a quarterly basis. With this, the Committee ensures that strategic sustainability actions are aligned with corporate objectives and that they are implemented efficiently.

Water

(4.3.1.1) Position of individual or committee with responsibility

Committee

☑ Sustainability committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing engagement in landscapes and/or jurisdictions

☑ Managing public policy engagement related to environmental issues

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Developing a climate transition plan

☑ Implementing a climate transition plan

☑ Managing priorities related to innovation/low-environmental impact products or services (including R&D)

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ More frequently than quarterly

(4.3.1.6) Please explain

Engie's Sustainability Committee oversees strategies to promote water efficiency. This committee also oversees opportunities and risks related to water use, ensuring that the company complies with its environmental policies and commitments. Engie is dedicated to identifying potential contributions to water conservation and

develops initiatives to reduce its water footprint. Specific ESG targets are set for the Sustainability Committee, including water security, and these are monitored by the Board. The committee reports to the board on a quarterly basis, ensuring transparency and effectiveness in the implementation of these initiatives.

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Committee

☑ Sustainability committee

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing engagement in landscapes and/or jurisdictions

☑ Managing public policy engagement related to environmental issues

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Managing priorities related to innovation/low-environmental impact products or services (including R&D)

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ More frequently than quarterly

(4.3.1.6) Please explain

Engie's Sustainability Committee assesses strategies for protecting and promoting biodiversity in the areas where the company operates. The committee manages the opportunities and risks related to the issue, ensuring that the company's operations are in line with environmental policies and corporate commitments. By promoting innovation and the development of sustainable practices, the committee ensures that the company makes a positive contribution to biodiversity conservation. Specific ESG targets, including biodiversity, are set for the Sustainability Committee and monitored by the Board. Direct reporting to the board takes place on a quarterly basis. With this, the Committee ensures that strategic sustainability actions are aligned with corporate objectives and that they are implemented efficiently.
[Add row]

(4.5) Do you provide monetary incentives for the management of environmental issues, including the attainment of targets?

Climate change

(4.5.1) Provision of monetary incentives related to this environmental issue

Select from:
☑ Yes

(4.5.2) % of total C-suite and board-level monetary incentives linked to the management of this environmental issue

15

(4.5.3) Please explain

Short-term (annual) variable remuneration combines bonuses and profit-sharing, and can vary between 40% and 90% of fixed annual remuneration, depending on the position and inherent goals, including ESG aspects. Long-term variable remuneration offers the Executive Board, at the end of 4 years, a Long-Term Incentive Plan linked to Phantom Shares and corporate indicators. In 2023, 20% of the long-term variable remuneration of the CEO and executive board was associated with non-financial criteria, including ESG aspects (15% focused on environmental issues and 5% on social issues). Within the Environmental criterion there are indicators associated with increasing renewable energy generation capacity and reducing greenhouse gas emissions related to energy generation.

Water

(4.5.1) Provision of monetary incentives related to this environmental issue

Select from:

☑ Yes

(4.5.2) % of total C-suite and board-level monetary incentives linked to the management of this environmental issue

15

(4.5.3) Please explain

Short-term (annual) variable remuneration combines bonuses and profit-sharing and can vary between 40% and 90% of fixed annual remuneration, depending on the position and inherent goals, including ESG aspects. Long-term variable remuneration offers the Executive Board a Long-Term Incentive Plan linked to Phantom Shares and corporate indicators at the end of 4 years. In 2023, 20% of the long-term variable remuneration of the CEO and executive board was linked to non-financial criteria, including ESG aspects (15% focused on environmental issues and 5% on social issues). Environment included indicators associated with increasing renewable energy generation capacity, which is directly related to lower GHG emissions and a smaller water footprint (for comparison purposes, in 2021 ENGIE Brasil Energia consumed 120.7m³/MWh from a coal-fired thermoelectric plant, 0.0004 m³/MWh from a wind asset and 0.0003 m³/MWh from a solar asset).
[Fixed row]

(4.5.1) Provide further details on the monetary incentives provided for the management of environmental issues (do not include the names of individuals).

Climate change

(4.5.1.1) Position entitled to monetary incentive

Board or executive level

☑ Chief Executive Officer (CEO)

(4.5.1.2) Incentives

Select all that apply

☑ Bonus - % of salary

☑ Shares

(4.5.1.3) Performance metrics

Targets

☑ Achievement of environmental targets

☑ Organization performance against an environmental sustainability index

Strategy and financial planning

☑ Board approval of climate transition plan

Emission reduction

☑ Implementation of an emissions reduction initiative

☑ Reduction in emissions intensity

Engagement

☑ Increased engagement with suppliers on environmental issues

☑ Increased engagement with customers on environmental issues

(4.5.1.4) Incentive plan the incentives are linked to

Select from:

☑ Both Short-Term and Long-Term Incentive Plan, or equivalent

(4.5.1.5) Further details of incentives

Remuneration is made up of a fixed portion and a variable portion (short and long term). SHORT-TERM VARIABLE REMUNERATION (ANNUAL): combines bonuses and profit-sharing and can vary between 40% and 90% of the fixed annual remuneration, depending on the position and the inherent challenges and goals, including ESG aspects. It affects managerial and operational positions. In 2023, the percentage of monetary incentives linked to ESG aspects, which include the issue of combating climate change and water security, represented 7.5%.That year, one of the targets set was to achieve a carbon emissions intensity that will enable the Netzero emissions strategy in 2045 established by the Engie Group, which includes Engie Brasil Energia (0.0302 tCO2e/MWh).For each asset, a target was also set to increase the percentage of renewable fuel used by the fleet (implementation of an emissions reduction initiative).In 2024 there are targets linked to performance in sustainability indices, such as CDP and Dow Jones (maintaining or increasing performance in relation to the previous year).There is also a target associated with the decarbonization of offending suppliers, i.e. those that contribute at least 80% of scope 3 emissions).The target consists of engaging 100% of offending suppliers to define targets aligned with science by 2030. LONG-TERM VARIABLE REMUNERATION: This is linked to the Executive Board. It offers, at the end of four years, a Long-Term Incentive Plan linked to Phantom Shares and corporate indicators, as well as Performance Shares and the Group's Stock Option Policy. In 2023, 20% of the long-term variable remuneration of the CEO and executive board was linked to non-financial criteria, including ESG aspects (15% focused on environmental

issues and 5% on social issues). Within the Environmental criterion there are indicators associated with increasing renewable energy generation capacity and reducing greenhouse gas emissions related to energy generation. One of the strategic guidelines for 2023 was for the company to be positively recognized in terms of ESG in Brazil (linked to ratings targets) and to provide excellent customer service by offering renewable products and solutions (engaging customers in decarbonization).

(4.5.1.6) How the position's incentives contribute to the achievement of your environmental commitments and/or climate transition plan

The variable remuneration associated with ESG aspects contributed to the achievement of the environmental commitments established by Engie Brasil Energia. The target for reducing the intensity of greenhouse gas emissions for 2023 was achieved, with the intensity equivalent to 0.030 tCO2e/MWh in operational control, i.e. a reduction of 43% compared to 2022. This performance makes it possible to achieve the Netzero 2045 target set by the Engie Group, which includes Engie Brasil Energia. The initiatives adopted reflect the improved performance in indices that assess ESG aspects, such as CDP and Dow Jones. In 2023, the company moved up a grade from B to A- in the CDP questionnaire (climate change module). In the Dow Jones, performance in the "Emissions" aspect increased by 75% compared to the previous year. In the "Climate Strategy" aspect, which has a high score, it improved by 3%. By linking remuneration to decarbonization and sustainability goals, Engie Brasil Energia reinforces the company's commitment to its environmental goals and the climate transition, encouraging the adoption of practices that favor the reduction of emissions and the increase in renewable capacity, as well as fostering a corporate culture focused on sustainability throughout the value chain.

Water

(4.5.1.1) Position entitled to monetary incentive

Board or executive level

☑ Chief Executive Officer (CEO)

(4.5.1.2) Incentives

Select all that apply

☑ Bonus - % of salary

☑ Shares

(4.5.1.3) Performance metrics

Targets

☑ Organization performance against an environmental sustainability index

Pollution

☑ Reduction of water pollution incidents

☑ Reduction/elimination of environmental incidents and/or environmental notices (notices of violation)

Engagement

☑ Increased engagement with suppliers on environmental issues

(4.5.1.4) Incentive plan the incentives are linked to

Select from:

☑ Both Short-Term and Long-Term Incentive Plan, or equivalent

(4.5.1.5) Further details of incentives

Remuneration is made up of a fixed portion and a variable portion (short and long term). SHORT-TERM VARIABLE REMUNERATION (ANNUAL): combines bonuses and profit-sharing and can vary between 40% and 90% of the fixed annual remuneration, depending on the position and the inherent challenges and goals, including ESG aspects. It affects managerial and operational positions. In 2023, the percentage of monetary incentives linked to ESG aspects, which include the issue of combating climate change and water security, represented 7.5%.In that year, one of the targets set was to have zero environmental infractions with a conviction without the possibility of appeal. This goal aims to ensure continuous improvement in the management of reservoirs, helping to minimize potential impacts on water quality and ichthyofauna. By 2024, a goal has been set to expand the reporting of water aspects in ESG ratings, such as the CDP. The company is also seeking to increase efficiency in the use of water resources, with the goal of reducing the consumption of fresh water by the energy produced by around 70% by 2030 compared to 2019 (i.e. reaching 0.1 m3/kwh by 2030). This target reflects the company's commitment to identifying and implementing initiatives to reduce the water footprint and promote water conservation, guaranteeing the quality and availability of resources. LONG-TERM VARIABLE REMUNERATION: This is linked to the Executive Board. It offers, at the end of four years, a Long-Term Incentive Plan linked to Phantom Shares and corporate indicators, as well as Performance Shares and the Group's Stock Option Policy. In 2023, 20% of the long-term variable remuneration of the CEO and executive board was linked to non-financial criteria, including ESG aspects (15% focused on environmental issues and 5% on social issues).Environment included indicators associated with increasing renewable energy generation capacity, which is directly related to lower GHG emissions and a smaller water footprint (for comparison purposes, in 2021 ENGIE Brasil Energia consumed 120.7m³/MWh from a coal-fired thermoelectric plant, 0.0004 m³/MWh from a wind asset and 0.0003 m³/MWh from a solar asset). One of the strategic drivers in 2023 was to be positively recognized in ESG in Brazil (linked to ratings performance), including in aspects of water security.

(4.5.1.6) How the position’s incentives contribute to the achievement of your environmental commitments and/or climate transition plan

The variable remuneration associated with ESG aspects has contributed to the achievement of environmental commitments established by Engie Brasil Energia. For example, in 2023 there were no environmental infractions with a conviction without the possibility of appeal. In other words, the successful achievement of the target supports the reduction of exposure to environmental risks of Engie Brasil Energia's assets over time, including water pollution. In relation to the target of reducing

freshwater consumption by the energy produced, a 76% reduction was observed between 2019 (0.19m³/MWh) and 2023 (0.046m³/MWh). With regard to water disposal, the company adopts strict standards that take into account the characteristics of the receiving water body and the most stringent limits laid down in current legislation. All effluents generated in operations, as well as in implementation activities, are treated before their final disposal or release. The initiatives adopted by Engie Brasil reflect its improved performance in indices that assess ESG aspects, such as the Dow Jones. In 2023, performance in the "Water" aspect increased by 13% compared to the previous year. We can see that the financial incentives related to the company's ESG criteria drive the efforts of the relevant areas of the company to implement initiatives that promote the proper use of water, as well as its efficient use and the reduction of total consumption.
[Add row]

(4.6) Does your organization have an environmental policy that addresses environmental issues?

	Does your organization have any environmental policies?
	Select from: ☑ Yes

[Fixed row]

(4.6.1) Provide details of your environmental policies.

Row 1

(4.6.1.1) Environmental issues covered

Select all that apply
☑ Climate change
☑ Water
☑ Biodiversity

(4.6.1.2) Level of coverage

Select from:

☑ Organization-wide

(4.6.1.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

☑ Downstream value chain

(4.6.1.4) Explain the coverage

The Engie Group's Environmental Policy is a broad and strategic response to environmental challenges, with a strong focus on climate change and the protection of biodiversity. Engie's commitment goes beyond reducing its own greenhouse gas (GHG) emissions; it also includes supporting customers and suppliers to reduce their emissions by offering solutions in line with sustainability. As well as promoting sustainable practices internally, Engie extends its positive impact to its entire value chain. This includes the goal of engaging with 100% of its preferred suppliers (except energy), encouraging certification or alignment with Science Based Targets (SBT). The company also seeks to integrate sustainable water management into the services provided to customers and encourages suppliers with water challenges to develop action plans. The company's policy emphasizes transparency and regular communication of environmental performance, ensuring that all stakeholders are well informed. The approach adopted combines all relevant environmental issues to avoid side effects, using tools such as Life Cycle Assessment (LCA) to understand the full impact of its operations and products.

(4.6.1.5) Environmental policy content

Environmental commitments

☑ Commitment to a circular economy strategy

☑ Commitment to comply with regulations and mandatory standards

☑ Commitment to take environmental action beyond regulatory compliance

☑ Commitment to stakeholder engagement and capacity building on environmental issues

Climate-specific commitments

☑ Commitment to net-zero emissions

☑ Commitment to not funding climate-denial or lobbying against climate regulations

Water-specific commitments

☑ Commitment to control/reduce/eliminate water pollution

☑ Commitment to reduce water consumption volumes
☑ Commitment to reduce water withdrawal volumes
☑ Commitment to safely managed WASH in local communities
☑ Commitment to water stewardship and/or collective action

(4.6.1.6) Indicate whether your environmental policy is in line with global environmental treaties or policy goals

Select all that apply
☑ Yes, in line with the Paris Agreement
☑ Yes, in line with Sustainable Development Goal 6 on Clean Water and Sanitation

(4.6.1.7) Public availability

Select from:
☑ Publicly available

(4.6.1.8) Attach the policy

ENGIE Sustainable Management Policy.pdf
[Add row]

(4.10) Are you a signatory or member of any environmental collaborative frameworks or initiatives?

(4.10.1) Are you a signatory or member of any environmental collaborative frameworks or initiatives?

Select from:
☑ Yes

(4.10.2) Collaborative framework or initiative

Select all that apply
☑ CEO Water Mandate
☑ World Business Council for Sustainable Development (WBCSD)

☑ UN Global Compact

☑ Global Reporting Initiative (GRI) Community Member

☑ Task Force on Nature-related Financial Disclosures (TNFD)

☑ Task Force on Climate-related Financial Disclosures (TCFD)

☑ Other, please specify **:Action Declaration on Climate Policy Engagement**

(4.10.3) Describe your organization’s role within each framework or initiative

Engie is involved in various networks and coalitions that help to improve its practices and strengthen the creation of value for the benefit of its stakeholders. This collective approach allows the company, in line with its purpose, to reconcile economic performance with a positive impact on people and the planet. Given its strategic nature for the business and its impact on the economy and society, climate change is a recurring topic on the agenda of the company's senior management. It is the responsibility of the Chairman of the Board of Directors to interact with Head Office to implement the global commitments made by the Engie Group in its operations in Brazil, ensuring that they are reflected in the different areas and business segments. The Board of Directors is also responsible for analyzing and guiding the Executive Board on strategic issues related to climate, such as climate risk analysis; annual contracting of operational risk insurance, within the adaptation strategy; and validation of strategic, operational and performance aspects related to climate change. In order to monitor and disseminate the alignment of its companies' policies and the main industrial/commercial associations, Engie Brasil Energia is a member of the Brazilian Business Council for Sustainable Development (CEBDS), the representative of the World Business Council for Sustainable Development (WBCSD) in the country, and is one of the companies that endorsed, in 2023, the letter of urgency for the creation of a regulated carbon market in the country. The document advocates speeding up and simplifying the bill dealing with the Brazilian regulated carbon market, since the bill has undergone a series of amendments and changes over the years. That year, the company also signed up to the Biodiversity commitments with CEBDS. In 2023, Engie also joined the United Nations Global Compact, a movement that brings together organizations from different countries with a focus on the business contribution to the 2030 Agenda for Sustainable Development. Since 2022, the company has also been a signatory of the Action declaration on climate policy engagement, a joint initiative of Corporate Knights and the Global 100 Council that describes how industry leaders in the movement to decarbonize the economy support ambitious actions to reduce the gap between the declaration of commitments and effective action towards reducing emissions. Therefore, the company works together with industry/trade associations and other entities to promote alignment with the Paris Agreement. In addition, Engie has taken on a science-based target which has been certified by the Science Based Target Initiative (SBTi) and which consists of reducing the Group's emissions intensity by 2030. In addition, the Parent Company has also set itself the ambition of reducing its emissions intensity by more than 90% by 2045, both targets incorporating Engie Brasil Energia's emissions. Another action adopted by the Company is to ensure that its indicators are aligned with the best market practices, such as the Global Reporting Initiative (GRI) Community Member, the Task Force on Climate-related Financial Disclosures (TCFD) and the Task Force on Nature-related Financial Disclosures (TNFD). The 2023 Sustainability Report published by Engie Brasil Energia presents results and discussions on these indicators. In addition, the company is aligned with Nature-Based Solutions (NBS), an example of which is the Campo Largo Wind Farm, which began a strategic assessment and update of the project's action plan at the end of 2023. Among the highlights of the review is the inclusion of the IUCN - International Union for Conservation of Nature - methodology for defining endangered species and planning ecological management focused on the application of Nature-Based Solutions (NBS). In addition, the Engie Group is a frequent contributor to the work carried out by the CEO Water Mandate.
[Fixed row]

(4.11) In the reporting year, did your organization engage in activities that could directly or indirectly influence policy, law, or regulation that may (positively or negatively) impact the environment?

(4.11.1) External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the environment

Select all that apply

☑ Yes, we engaged directly with policy makers

☑ Yes, we engaged indirectly through, and/or provided financial or in-kind support to a trade association or other intermediary organization or individual whose activities could influence policy, law, or regulation

(4.11.2) Indicate whether your organization has a public commitment or position statement to conduct your engagement activities in line with global environmental treaties or policy goals

Select from:

☑ Yes, we have a public commitment or position statement in line with global environmental treaties or policy goals

(4.11.3) Global environmental treaties or policy goals in line with public commitment or position statement

Select all that apply

☑ Paris Agreement

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

(4.11.4) Attach commitment or position statement

Engie-Action-Declaration-on-Climate-Policy-Engagement_GlobalCOmpactUN.pdf

(4.11.5) Indicate whether your organization is registered on a transparency register

Select from:

☑ Yes

(4.11.6) Types of transparency register your organization is registered on

Select all that apply

☑ Non-government register

(4.11.7) Disclose the transparency registers on which your organization is registered & the relevant ID numbers for your organization

In Brazil, some initiatives focused on transparency and corporate responsibility on climate issues are comparable to transparency registers. Engie, for example, publishes an annual Greenhouse Gas Emissions Inventory, allowing detailed monitoring of its emissions. The company also responds publicly to the CDP, providing transparency on its environmental initiatives and progress over the years. And in 2023, Engie Brasil Energia joined the Global Compact.

(4.11.8) Describe the process your organization has in place to ensure that your external engagement activities are consistent with your environmental commitments and/or transition plan

To ensure that external engagement activities are aligned with the company's environmental commitments and transition plan, Engie has an integrated governance and monitoring process. This process involves evaluating and validating engagement activities to ensure that they are in line with corporate policies and strategic sustainability objectives. In this context, the Sustainability Committee plays an important role, identifying, reviewing and approving the relevant initiatives. This committee ensures that the activities are in line with the company's commitments and best market practices. After this initial validation, the proposals for commitments and actions go to the Board for approval. Engie also continuously monitors the progress of external engagement activities, using recognized frameworks to ensure transparency and compliance. These frameworks include the Global Reporting Initiative (GRI), the Task Force on Climate-related Financial Disclosures (TCFD) and the Task Force on Nature-related Financial Disclosures (TNFD).
[Fixed row]

(4.11.1) On what policies, laws, or regulations that may (positively or negatively) impact the environment has your organization been engaging directly with policy makers in the reporting year?

Row 1

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

Proposal regulating the carbon market in Brazil (PL 2148/2015)

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply
☑ Climate change

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Environmental impacts and pressures

☑ Emissions – CO2

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ National

(4.11.1.5) Country/area/region the policy, law, or regulation applies to

Select all that apply

☑ Brazil

(4.11.1.6) Your organization's position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Participation in working groups organized by policy makers

☑ Submitting written proposals/inquiries

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

Engie Brasil Energia has been following the debates on regulated and voluntary carbon markets and, as a member of the Brazilian Wind Energy Association (ABEEOLICA), actively participates in the Carbon Market Working Group (WG). Through the Association, the electricity sector's position on the regulation of a national carbon market is taken to forums involving the government and parliamentarians. ENGIE Brasil Energia also participates in the Carbon Market Working Group promoted by the Brazilian Business Council for Sustainable Development (CEBDS), the WBCSD's representative institution in Brazil, of which the company is a member. In addition, ENGIE Brasil Energia was one of the companies that endorsed, in 2023, the letter of urgency for the creation of a regulated carbon market in the country, an initiative also promoted by CEBDS. The document advocates speeding up and simplifying the bill dealing with the Brazilian regulated carbon market, since the bill has undergone a series of amendments and changes over the years. The letter was delivered directly to the deputy rapporteur of the issue in the Chamber of Deputies. The establishment of a carbon market is an important issue for Engie since, through this market, the company will be able to trade credits, encourage innovation in low carbon technologies and fulfill its emission reduction commitments in a more efficient and economical way. In addition, a regulated carbon market strengthens transparency and environmental responsibility, in line with the company's objectives of promoting sustainable practices and responding to the demands of shareholders and regulators.

(4.11.1.11) Indicate if you have evaluated whether your organization’s engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 2

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

Approval of the green hydrogen regulatory framework in Brazil

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply

☑ Climate change

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Energy and renewables

☑ Renewable energy generation

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ National

(4.11.1.5) Country/area/region the policy, law, or regulation applies to

Select all that apply

☑ Brazil

(4.11.1.6) Your organization's position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Discussion in public forums

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

Engie is engaged in developing the regulatory framework for green hydrogen in Brazil, through associations such as the Brazilian Hydrogen Association (ABH2) and the Brazilian Green Hydrogen Industry Association (ABIHV), of which it is a member. This milestone is important for the company as it seeks to ensure progress on environmental targets, since green hydrogen plays a crucial role in decarbonization and the energy transition. Engie's involvement aims to contribute to the creation of regulations that favor the expansion of this technology, in line with the company's climate commitments and transition plan. The success of the engagement is measured through Engie's active participation in discussions and public consultations, as well as the evolution of policies that encourage the production and use of green hydrogen in Brazil.

(4.11.1.11) Indicate if you have evaluated whether your organization's engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 3

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

State Policy for the Just Energy Transition and the Just Energy Transition Hub in the South of the State of Santa Catarina

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply

☑ Climate change

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Other

☑ Climate transition plans

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ Regional

(4.11.1.5) Country/area/region the policy, law, or regulation applies to

Select all that apply

☑ Brazil

(4.11.1.6) Your organization’s position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Discussion in public forums

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

Together with the State Government of Santa Catarina, Engie is engaged in the construction of the State Policy for the Just Energy Transition and the development of the Just Energy Transition Hub in the south of the state. This policy is relevant to the fulfillment of the company's environmental commitments and transition plan, as it establishes the strategic and programmatic bases for the sustainable economic and social development of Santa Catarina, with a focus on reducing greenhouse gas emissions. This engagement reflects Engie's intention to promote an energy transition that values the environmental assets of the region where it operates and fosters the creation of new sustainable businesses and jobs. Engie actively participates in discussions to influence policies that contribute to decarbonization and the development of sustainable production chains.

(4.11.1.11) Indicate if you have evaluated whether your organization’s engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 4

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

ANA Resolution No. 155/2023: Crisis Rooms of the National Water Agency (ANA)

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply

☑ Water

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Environmental impacts and pressures

☑ Water availability

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ National

(4.11.1.5) Country/area/region the policy, law, or regulation applies to

Select all that apply

☑ Brazil

(4.11.1.6) Your organization’s position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Discussion in public forums

☑ Responding to consultations

☑ Submitting written proposals/inquiries

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

Engie took part in the process of creating and revising ANA Resolution 155/2023, which established the Crisis Rooms and Monitoring Rooms as environments for coordinating and managing critical hydrological events. Currently, Engie's participation in these rooms, which take place monthly with a focus on the river basins where the company has hydroelectric plants, is fundamental to fulfilling its environmental commitments and its transition plan. These collaborative meetings aim to manage crises related to water management, addressing issues such as droughts and floods, enabling integrated and coordinated management between various institutions. During periods of drought or severe flooding, this format of engagement enables a rapid and aligned response to water management needs in crisis scenarios. In addition, this space for monitoring and decision-making has influenced revisions and the creation of regulatory resolutions, which demonstrates the importance of the Crisis Rooms in the formulation of water management policies in Brazil. Engie measures the success of this engagement through its ability to contribute to strategic decisions that promote efficient water management and the continued operation of its hydroelectric plants, minimizing operational risks and strengthening its responsible action in the face of extreme weather events.

(4.11.1.11) Indicate if you have evaluated whether your organization’s engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

Row 5

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

ANA ANEEL Joint Resolution No. 127/2022

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply

☑ Water

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Environmental impacts and pressures

☑ Water availability

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ National

(4.11.1.5) Country/area/region the policy, law, or regulation applies to

Select all that apply

☑ Brazil

(4.11.1.6) Your organization’s position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Discussion in public forums

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

ANA ANEEL Joint Resolution No. 127/2022, which establishes guidelines for hydrological monitoring and reservoir management, was instituted in the ANA's Crisis Rooms, with Engie's active participation. This engagement allowed the company to contribute data and operational practices, resulting in a resolution that strengthens transparency and effectiveness in monitoring critical parameters such as water quality, rainfall and sedimentation. This resolution is crucial to the company's environmental commitments, as it promotes continuous and accurate monitoring of water resources. Engie measures the success of this engagement by its ability to guarantee the collection of high-quality hydrological data, which guides more efficient and sustainable management of its hydroelectric projects.

(4.11.1.11) Indicate if you have evaluated whether your organization’s engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

Row 6

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

ANA Resolution 70/2021

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply

☑ Water

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Environmental protection and management procedures

☑ Environmental protection requirements

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ National

(4.11.1.5) Country/area/region the policy, law, or regulation applies to

Select all that apply

☑ Brazil

(4.11.1.6) Your organization’s position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Discussion in public forums

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

ANA Resolution No. 70/2021, which defines the conditions for the operation of the Tocantins River Hydric System, enables the integrated management of water resources in the basin where Engie has important operations. The company's participation in the ANA's Crisis Rooms made it possible for it to influence the formulation of this resolution, ensuring that the operating conditions of the reservoirs take into account strict technical criteria in line with environmental preservation. This resolution is essential to Engie's transition commitments, especially with regard to water security and the sustainable operation of its hydroelectric plants. The success of this engagement is measured by the effectiveness of the measures adopted in the resolution, which ensure the availability of water and the minimization of environmental impacts on the Tocantins River System.

(4.11.1.11) Indicate if you have evaluated whether your organization’s engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

[Add row]

(4.11.2) Provide details of your indirect engagement on policy, law, or regulation that may (positively or negatively) impact the environment through trade associations or other intermediary organizations or individuals in the reporting year.

Row 1

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**ABRACEEL - Brazilian Association of Energy Traders

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization’s position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

Engie Brasil Energia is a member and sponsor of ABRACEEL - the Brazilian Association of Energy Traders, supporting the association's work to promote competition in the free market as an instrument to increase efficiency and security of supply in the areas of electricity, ethanol and natural gas. In addition, the company collaborates with society in general, opinion leaders and government bodies in activities aimed at stimulating the growth of carbon credit trading.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

77836

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

ABRACEEL aims to position the free market as a favorable environment for Brazil to make the energy transition, benefiting companies and governments.

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 2

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify :ABRAGE - Brazilian Association of Electric Power Generation Companies

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

ABRAGE is made up of large companies that generate electricity, predominantly from hydroelectric sources, and aims to improve the development of activities related to electricity generation through research, studies and debates among its members. By being part of FMASE, ABRAGE represents its members in discussions on socio-environmental issues, including climate change.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

196121

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

ABRAGE aims to facilitate and promote for its members: I - The exchange of technical, commercial, financial and legal information related to electricity generation activities; II - The preparation of analyses and studies of common interest; III - The signing of agreements and arrangements for technical cooperation and exchange of information with public and private, national and international entities; IV - The preparation and defense of proposals for the solution of common problems.

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

Row 3

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

Global

☑ Other global trade association, please specify :International Hydropower Association

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

Engie Brasil Energia is a member and sponsor of the International Hydropower Association (IHA), taking advantage of the tools it offers to transform the operation of the hydroelectric industry. Through this association, the company has access to the Hydropower Sustainability Training Academy, which allows it to develop internal capacity in sustainability. In addition, it can assess and certify new and existing hydropower projects using the Hydropower Sustainability Standard. Engie Brasil Energia also benefits from the guidelines provided by the Hydropower Sustainability Guidelines, which detail International Good Industry Practice. This participation demonstrates the company's commitment to sustainability, showing that it is possible to lead by example and fulfill commitments, showing that the energy industry can be progressive, visionary, green and sustainable.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

0

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

Row 4

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**APINE . In English, Brazilian Association of Independent Power Producers.

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

Engie is a member of the Brazilian Association of Independent Power Producers (Apine), an organization whose aim is to promote and defend the interests of independent power producers in Brazil. Engie, as one of the largest private power generators in the country, actively participates in the discussions promoted by Apine, contributing to the development of technical and regulatory solutions that impact the electricity sector. The wide range of energy sources represented by Apine members includes hydroelectric, biomass, thermal and wind power. By emphasizing its strong strategy of transitioning to a low-carbon economy, with a focus on renewable energies and energy efficiency, Engie positively influences public policies and regulations in the electricity sector with a focus on the climate transition, while promoting its own sustainability and innovation objectives.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

263736

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

As the representative body for independent energy producers, Apine interacts with the executive and legislative branches and with the other bodies involved in the Brazilian electricity sector - Aneel, ONS, CCEE, EPE, Eletrobrás, ANP, Petrobras - as well as with sister associations. It routinely holds technical meetings with its members to discuss important issues affecting the sector, as well as sending out weekly newsletters on the progress of issues relevant to the Electricity Sector, events, legislation, activities carried out and meetings attended by the Association. Whenever necessary, with the participation of technicians from member

companies and/or contracted consultancies, it prepares technical notes on relevant issues in the electricity sector, with the aim of providing its members with information and collaborating with bodies in the sector to resolve relevant issues. If necessary, Apine represents its members in legal actions of collective interest and hires consultants to carry out specific work of interest to independent energy production and its members. For this representation and benefits, Engie is a member company.

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 5

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**Acende Brasil

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization’s position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual’s position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization’s position is consistent with or differs from the organization or individual’s position, and any actions taken to influence their position

Engie's position is broadly consistent with the principles and objectives of the Instituto Acende Brasil. Both organizations share a commitment to transparency and sustainability in the Brazilian electricity sector, seeking to analyze and improve the sector's governance, regulation and efficiency with a long-term perspective. Engie, as one of the leading companies in the sector, values the importance of clear regulatory and fiscal policies, as well as robust governance practices, which are central themes of the analyses and studies promoted by the Acende Brasil Institute.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

267962

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

The Institute's team of executives and researchers provides professional services such as courses, studies and analysis, research and development projects and the Sustainable Energy label. Engie, as a company that seeks out qualified information on the market to navigate regulatory, market, governance and environmental issues, is a member with a view to gaining access to the content and exchanges of knowledge that take place in this space.

(4.11.2.11) Indicate if you have evaluated whether your organization’s engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization’s engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 6

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**ABRATE (Associação Brasileira das Empresas de Transmissão de Energia Elétrica). In English, Brazilian Association of Electric Power Transmission Companies

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization’s position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual’s position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization’s position is consistent with or differs from the organization or individual’s position, and any actions taken to influence their position

Engie shares ABRATE's commitment to promoting the sustainability, development and attractiveness of the electricity transmission business in Brazil. Both entities recognize the importance of a favorable regulatory environment and policies that encourage continuous investment in the transmission infrastructure, which is essential to guarantee the security and efficiency of the national electricity system.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

198919

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

Engie recognizes that ABRATE plays an important role in representing the interests of transmission companies before regulatory and government bodies. In addition, Engie supports the Association's efforts to add value for member companies, promoting good practices and defending the importance of a robust and efficient transmission sector, which is vital for the continuity of energy supply in the country.

(4.11.2.11) Indicate if you have evaluated whether your organization’s engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 7

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**ABEEólica (Associação Brasileira de Energia Eólica). In English, Brazilian Wind Energy Association.

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization’s position is consistent with or differs from the organization or individual’s position, and any actions taken to influence their position

Engie, as one of the largest energy companies in the country, has a clear commitment to the energy transition and the expansion of its renewable matrix, where wind energy plays a key role. ABEEólica, in representing the wind energy industry in Brazil, promotes the values and objectives that the company considers crucial for the future of the energy sector: the development of a clean, renewable, low environmental impact and competitive energy source. Both entities share the view that wind energy is strategic for the diversification and security of the national energy matrix. Engie actively supports and participates in ABEEólica's initiatives to strengthen the presence of wind energy in Brazil, whether through favorable public policies, encouraging new investments, or promoting technological innovations that make this energy source even more efficient and accessible.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

149502

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

As an associate, Engie values ABEEólica's role in increasing the recognition of wind energy as a vital component of the national energy strategy, a goal that is fully congruent with the company's mission to lead the transition to a more sustainable energy model, and therefore funding the association is in line with the organization's goals of diversifying its matrix and also of generating impact beyond the value chain. In this way, Engie sees ABEEólica as representing the interests of all companies committed to the expansion of wind energy in Brazil.

(4.11.2.11) Indicate if you have evaluated whether your organization’s engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization’s engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 8

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**ABDIB (Associação Brasileira da Infraestrutura e Indústrias de Base). In English, Brazilian Association of Infrastructure and Basic Industries

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization’s position is consistent with or differs from the organization or individual’s position, and any actions taken to influence their position

Abdib, which brings together various public and private companies linked to infrastructure and basic industries, acts as a key part of the ecosystem to foster robust and sustainable investments in infrastructure to promote the country's economic and social development and strengthen the sector's competitiveness. Engie shares Abdib's view that it is necessary not only to deal with immediate challenges, such as economic crises and uncertainties, but also to maintain a long-term perspective that guarantees the sustainability and expansion of infrastructure in Brazil. The company values Abdib's initiatives aimed at proposing and monitoring emergency measures, legislative projects that attract private investment and medium-term policies that address the country's historical shortcomings.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

43200

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

Engie supports Abdib's mission to collaborate with public and private agents to make consistent investments possible, as well as to increase the participation of Brazilian companies in the global infrastructure market. As an organization committed to the energy transition and innovation, Engie sees the partnership with Abdib as an opportunity to contribute to the development of solutions that strengthen Brazil's infrastructure, in line with the principles of sustainability and social responsibility.

(4.11.2.11) Indicate if you have evaluated whether your organization’s engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization’s engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 9

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify **:**CEPEL (Centro de Pesquisas de Energia Elétrica). In English, Electric Power Research Center

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization’s position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual’s position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization’s position is consistent with or differs from the organization or individual’s position, and any actions taken to influence their position

Engie values and supports initiatives that seek to optimize energy efficiency, automate systems, manage assets sustainably and integrate renewable energies, areas in which Cepel excels. The company recognizes the importance of Cepel's laboratory infrastructure, which is fundamental to the advancement of the electricity sector,

both nationally and internationally, and sees the partnership with Cepel as an opportunity to foster innovation and the development of technological solutions that contribute to improving the generation, transmission, distribution and sale of electricity.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

2632

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

Engie shares Cepel's vision and therefore supports research and development conducted with a multidisciplinary approach, involving both academia and industry. Cepel's commitment to technical excellence and innovation is aligned with Engie's mission to lead the energy transition in Brazil, promoting a more sustainable and efficient future for the electricity sector.

(4.11.2.11) Indicate if you have evaluated whether your organization’s engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization’s engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 10

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

South America

☑ Other trade association in South America, please specify :ABH2 (Brazilian Hydrogen Association)

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

Engie shares the vision of the Brazilian Hydrogen Association (ABH2) on the role of hydrogen as a strategic energy source for the energy transition and decarbonization. The company is aligned with ABH2's objectives of promoting the hydrogen production, storage, distribution and use chain in Brazil, recognizing the potential of this technology to contribute significantly to the diversification of the national energy matrix.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

35000

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

The funding is in line with Engie's objectives of encouraging collaboration between companies, the scientific community and other relevant players to promote innovation and technological development in the field of hydrogen. The company is involved in projects that explore the use of hydrogen as an energy vector and supports initiatives aimed at its commercialization and large-scale application in Brazil. In addition to its national activities, ABH2 actively participates in the International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE), which is an international collaborative initiative, at government level, for the development and implementation of hydrogen and fuel cell technologies, promoting international discussions on norms and standards for these technologies as well as on the certification of hydrogen production.

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 11

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

Global

☑ Other global trade association, please specify **:**Pacto Global (UN Global Compact)

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ No, we did not attempt to influence their position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

As a signatory of the Global Compact, Engie adheres to the 10 Universal Principles in the areas of Human Rights, Labor, Environment and Anti-Corruption, integrating these fundamental values into its operations and business strategies. In addition, Engie is committed to advancing the 17 Sustainable Development Goals (SDGs), recognizing the importance of the 2030 Agenda as a global action plan to eradicate poverty, protect the planet and ensure prosperity for all.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

36450

(4.11.2.10) Describe the aim of this funding and how it could influence policy, law or regulation that may impact the environment

Engie sees the Global Compact not just as a guideline, but as a platform for engagement and collaborative leadership and has therefore contributed financially in order to support the dissemination of its initiatives. Participation in the Global Compact reflects Engie's commitment to acting responsibly and transparently, contributing to a fairer and more sustainable future.

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

☑ Kunming-Montreal Global Biodiversity Framework

☑ Sustainable Development Goal 6 on Clean Water and Sanitation

[Add row]

(4.12) Have you published information about your organization's response to environmental issues for this reporting year in places other than your CDP response?

Select from:

☑ Yes

(4.12.1) Provide details on the information published about your organization's response to environmental issues for this reporting year in places other than your CDP response. Please attach the publication.

Row 1

(4.12.1.1) Publication

Select from:

☑ In mainstream reports, in line with environmental disclosure standards or frameworks

(4.12.1.2) Standard or framework the report is in line with

Select all that apply

☑ GRI

☑ TCFD

☑ TNFD

(4.12.1.3) Environmental issues covered in publication

Select all that apply

☑ Climate change

☑ Water

☑ Biodiversity

(4.12.1.4) Status of the publication

Select from:

☑ Complete

(4.12.1.5) Content elements

Select all that apply

☑ Strategy

☑ Governance

☑ Emission targets

☑ Emissions figures

☑ Risks & Opportunities

☑ Value chain engagement

☑ Dependencies & Impacts

☑ Biodiversity indicators

☑ Water accounting figures

(4.12.1.6) Page/section reference

Pages 62 - 97

(4.12.1.7) Attach the relevant publication

ENGIE_RS2023-EN.pdf

(4.12.1.8) Comment

Engie publishes its annual Sustainability Report. In 2023, the Environment & Climate section (pages 62 to 97) is dedicated to Conservation Strategies, Environmental Governance, Environmental Risks, Community Engagement and Climate.
[Add row]

C5. Business strategy

(5.1) Does your organization use scenario analysis to identify environmental outcomes?

Climate change

(5.1.1) Use of scenario analysis

Select from:
☑ Yes

(5.1.2) Frequency of analysis

Select from:
☑ Annually

Water

(5.1.1) Use of scenario analysis

Select from:
☑ Yes

(5.1.2) Frequency of analysis

Select from:
☑ Annually
[Fixed row]

(5.1.1) Provide details of the scenarios used in your organization’s scenario analysis.

Climate change

(5.1.1.1) Scenario used

Climate transition scenarios

☑ IEA APS

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Policy

☑ Market

☑ Reputation

☑ Technology

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 2.5ºC - 2.9ºC

(5.1.1.7) Reference year

2023

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

☑ Other regulators, legal and policy regimes driving forces, please specify **:**Regulação local: Mercado de carbono brasileiro

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

The IEA Stated Policies Scenario (STEPS) reflects current policy settings based on a sector-by-sector and country-by-country assessment of the specific policies that are in place (e.g. NDCs), as well as those that have been announced by governments around the world (by the end of August 2023). The scenario also takes into account currently planned manufacturing capacities for clean energy technologies. Unlike NZE 2050, STEPS does not assume that all governments will fulfill all their promises. This scenario adopts a more conservative perspective, considering the challenges and obstacles that countries may face. Although the results are promising, the scenario highlights the need for more ambitious policies and faster implementation to achieve global climate goals. The scenario was used to understand which climate transition risks and opportunities could affect Engie's business if they materialize. In line with the NZE 2050 scenario, it is known that there are many uncertainties related to the evolution of energy technologies, policies and markets. In this sense, the inclusion of more than one scenario in the analysis is an attempt to reduce the risks arising from these uncertainties, ensuring that the organization draws up a climate strategy considering different possible trajectories.

(5.1.1.11) Rationale for choice of scenario

The analysis of climate risks and opportunities takes into account more than one scenario in order to understand possible trajectories and prepare the organization for the challenges imposed by these trajectories. For the analysis of transition risks, the organization selected two scenarios proposed by the International Energy Agency's (IEA) Global Energy and Climate Model (GEC), one of which is below 2ºC, following the TCFD guidelines, represented by NZE 2050. In addition to this, the "Stated Policies Scenario (STEPS)" was selected, which projects a warming by the end of the century equivalent to 2.7ºC. Unlike the NZE 2050 scenario, which considers compliance with the Paris Agreement as the main driver, the STEPS scenario projects a trajectory based on the climate policies currently declared by countries (NDC), which suggests that the current level of ambition of the NDCs is insufficient to limit global warming to 1.5ºC, requiring more robust and accelerated mitigation actions. Both scenarios require a profound transformation of society, which implies greater challenges and risks for the transition to a low-carbon economy.

It is therefore understood that the choice of these scenarios is based on a conservative analysis to ensure that the organization is prepared for more challenging scenarios. The results of the analysis guide the organization's mitigation and adaptation strategy.

Water

(5.1.1.1) Scenario used

Water scenarios

☑ WRI Aqueduct

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

Relevant technology and science

☑ Granularity of available data (from aggregated to local)

☑ Data regime (from closed to open)

Direct interaction with climate

☑ Perception of efficacy of climate regime

Macro and microeconomy

☑ Domestic growth

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

The limitations include those produced by the PCR-GLOBWB2 global hydrological model and the delineation of hydrological sub-basins by the HydroBASINS 6 model. One of the assumptions is that water resources are pooled within each sub-basin. However, in HydroBASINS 6, coastal and island sub-basins are often grouped together to make the sub-basin area more homogeneous. Furthermore, although the underlying models have been validated, the results have not. The lack of direct validation makes it impossible to assess some of the parameters in the calculation, such as the length of the input time series, the regression method and the optimal size of the moving window. The indicator does not explicitly take into account environmental flow requirements, water quality or access to water.

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Climate change

(5.1.1.1) Scenario used

Climate transition scenarios

☑ IEA NZE 2050

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Policy

☑ Market

☑ Reputation

☑ Technology

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 1.5°C or lower

(5.1.1.7) Reference year

2023

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

☑ Other regulators, legal and policy regimes driving forces, please specify **:**Local regulation/Brazilian Carbon Market

Relevant technology and science

☑ Granularity of available data (from aggregated to local)

☑ Data regime (from closed to open)

Direct interaction with climate

☑ Perception of efficacy of climate regime

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

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Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 4.5

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP2

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 2.5ºC - 2.9ºC

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

Relevant technology and science

☑ Granularity of available data (from aggregated to local)

☑ Data regime (from closed to open)

Direct interaction with climate

☑ Perception of efficacy of climate regime

Macro and microeconomy

☑ Domestic growth

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

In the SSP2-4.5 scenario, the trajectory of human and technological development maintains its current characteristics, marked by inequalities and environmental impacts. Greenhouse gas emissions, although decreasing from the second half of the century, remain high, resulting in moderate challenges for mitigating and adapting to climate change. It is understood that scenarios are not predictions or prognoses of the future, just narratives about plausible outcomes of trajectories that society can take, providing notions of what could result from adopting certain actions, decisions and development paths. In this sense, uncertainties are intrinsic to scenarios, and in an attempt to reduce them, more than one scenario was selected to help the organization in its decision-making regarding its adaptation strategy.

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Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 7.0

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP3

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 3.5ºC - 3.9ºC

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

Relevant technology and science

☑ Granularity of available data (from aggregated to local)

☑ Data regime (from closed to open)

Direct interaction with climate

☑ Perception of efficacy of climate regime

Macro and microeconomy

☑ Domestic growth

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

In the SSP3-7.0 scenario, growing political polarization and the increase in regional conflicts in the 21st century, combined with the prioritization of domestic issues by nations, create an unfavourable scenario for international cooperation, including environmental problems. In this context, greenhouse gas emissions continue to rise, pushing global temperatures above 2ºC by 2050 and intensifying the challenges of mitigating and adapting to climate change. It is understood that scenarios are not predictions or prognoses of the future, just narratives about plausible outcomes of trajectories that society can take, providing notions of what could result from

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Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 8.5

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP5

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 4.0°C and above

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

Relevant technology and science

☑ Granularity of available data (from aggregated to local)

☑ Data regime (from closed to open)

Direct interaction with climate

☑ Perception of efficacy of climate regime

Macro and microeconomy

☑ Domestic growth

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

The SSP5-8.5 scenario is considered to be the most pessimistic from the point of view of emissions and socio-economic trajectories. Global development, marked by intense globalization and investments in human capital, is driven by an energy model based on fossil fuels. Greenhouse gas emissions have increased significantly throughout the 21st century, intensifying global warming. In this scenario, the challenges to mitigate climate change are great, while the capacity to adapt, driven by technological advances, is considered smaller. It is understood that scenarios are not predictions or prognoses of the future, just narratives about plausible outcomes of trajectories that society can take, providing notions of what could result from adopting certain actions, decisions and development paths. In this sense, uncertainties are intrinsic to scenarios, and in an attempt to reduce them, more than one scenario was selected to help the organization in its decision-making regarding its adaptation strategy.

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Water

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 4.5

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP2

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 2.5ºC - 2.9ºC

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

☑ Level of action (from local to global)

☑ Global targets

Relevant technology and science

☑ Granularity of available data (from aggregated to local)

☑ Data regime (from closed to open)

Direct interaction with climate

☑ Perception of efficacy of climate regime

Macro and microeconomy

☑ Domestic growth

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

In the SSP2-4.5 scenario, the trajectory of human and technological development maintains its current characteristics, marked by inequalities and environmental impacts. Greenhouse gas emissions, although decreasing from the second half of the century, remain high, resulting in moderate challenges for mitigating and adapting to climate change. It is understood that scenarios are not predictions or prognoses of the future, just narratives about plausible outcomes of trajectories that society can take, providing notions of what could result from adopting certain actions, decisions and development paths. In this sense, uncertainties are intrinsic to scenarios, and in an attempt to reduce them, more than one scenario was selected to help the organization in its decision-making regarding its adaptation strategy.

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(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 7.0

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP3

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 3.5ºC - 3.9ºC

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

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Regulators, legal and policy regimes

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☑ Level of action (from local to global)

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Macro and microeconomy

☑ Domestic growth

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

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Physical climate scenarios

☑ RCP 8.5

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP5

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 4.0°C and above

(5.1.1.7) Reference year

2010

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Changes to the state of nature

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☑ Level of action (from local to global)

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Relevant technology and science

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☑ Perception of efficacy of climate regime

Macro and microeconomy

☑ Domestic growth

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[Add row]

(5.1.2) Provide details of the outcomes of your organization’s scenario analysis.

Climate change

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply
☑ Risk and opportunities identification, assessment and management
☑ Strategy and financial planning
☑ Resilience of business model and strategy
☑ Capacity building
☑ Target setting and transition planning

(5.1.2.2) Coverage of analysis

Select from:
☑ Organization-wide

(5.1.2.3) Summarize the outcomes of the scenario analysis and any implications for other environmental issues

The use of scenarios is essential for strategic planning. Engie is working to improve its corporate actions and strategies with the aim of reducing greenhouse gas (GHG) emissions and adapting its practices and processes to the transition scenarios towards a low-carbon economy. The transition risk analysis is based on the IEA scenario, providing guidelines for the company's energy portfolio. Based on this analysis, the company has defined its ambition to become Net Zero by 2045, covering the entire value chain, with intermediate targets set for 2025 and 2030, in line with the Science Based Targets (SBTi). In terms of targets, the Group defined that, by 2030, 80% of its installed capacity should come from renewable energy sources; the result for 2023 was 42%. Based on the targets set by the Group, Engie Brasil Energia monitors the indicators related to climate change on a monthly basis and prepares the environmental performance report for the Group every year, which is audited by third parties to ensure that the consolidated and pre-established criteria are being met based on the defined scenarios. In 2023, Engie Brasil Energia's emissions results were 672 ktCO2e, with full decarbonization of its portfolio by 2023. A reduction of more than 90% in emissions is estimated, contributing to the achievement of the intermediate and final targets set by the Group. In terms of installed capacity, by the end of 2023 Engie Brasil Energia had become the

largest 100% renewable electricity generator in the country, with 8.3 GW of installed capacity of its own. The scenarios are updated annually, allowing us to project EBE's CO2 emissions and update the value of our assets. For EBE, the Group uses a modeled energy system and recognized external providers. Thanks to its international presence and experience with various decarbonization levers, Engie is able to produce its own energy scenarios. This has allowed the company to compensate for the lack of granularity in publicly available scenario data, continuously monitor its performance and refine its understanding and measurement of risks. With this, Engie Brasil Energia has established a business model that is resilient to market volatility and capable of achieving consistent results over the long term. Among the main pillars of the corporate strategy is the diversification of the asset portfolio, encompassing the generation and commercialization of renewable energy, the provision of infrastructure for the flow of this energy and support for the gradual replacement of fossil fuels. Combined with effective risk and opportunity management, operating in complementary segments captures synergies and drives value generation. Based on a consistent pipeline of projects, the company maintains its competitiveness and takes advantage of the opportunities arising from the energy transition and the evolution of the electricity sector in the country. With regard to physical risks, the focus is on understanding the resilience of sites and activities in relation to climate change, both in terms of the impact on production and demand, as well as the safety of facilities and the health and safety of employees. Medium and high global warming scenarios are used for this purpose. The company also works on assessing quantitative impacts (chronic stresses and acute shocks). Based on climate scenarios, the best locations for developing new green generation assets and strengthening the adaptation policy are estimated.

Water

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply

☑ Risk and opportunities identification, assessment and management

☑ Strategy and financial planning

☑ Resilience of business model and strategy

☑ Capacity building

☑ Target setting and transition planning

(5.1.2.2) Coverage of analysis

Select from:

☑ Organization-wide

(5.1.2.3) Summarize the outcomes of the scenario analysis and any implications for other environmental issues

Faced with the risk of water scarcity in several countries, both in terms of quantity and quality, and the risk of conflicts over use, Engie is continually seeking to improve its commitment to water management. In accordance with the Engie Group's Non-Financial Objectives, the company is striving to be increasingly efficient in its use of water resources and is working to reduce the consumption of fresh water by the energy produced by around 70%, with 2019 as the baseline. As part of its strategy for 2023, the Group refined this analysis using the LEAP method, recommended by the CSRD, with the support of consultancy firm ERM. To carry out an

initial review of impacts and dependencies, the results of the WBCSD Energy Pathway sectoral work, to which Engie contributed, were used, which includes the exploitation of resources such as water. Asset integrity can be affected by an increase in extreme events, including water stress. Over the last three years, Engie has been working to increase its resilience to climate change. For these analyses, the scenarios used are based on different degrees of warming: 1,5C, 2C, 3C and 4C. These scenarios project data to assess the vulnerabilities of our assets and the financial impacts, particularly on production and damages. Based on the studies, targets were set by the Group that cover Engie Brasil Energia's operations. In 2023, only one asset was located in a water stress region, according to the analysis carried out using the Aqueduct Risk Atlas platform (Floresta photovoltaic plant). Despite being located in a water-stressed area, the risk is classified and managed considering, in addition to the location, the asset's annual consumption, which must not exceed the global target - 0.10m3/MWh. In 2023, the consumption of the Floresta photovoltaic solar array was 0.2 ML, 98% below the target, and no water is used directly in its production process, only for cleaning and annual maintenance of its photovoltaic panels. Therefore, the studies carried out validated the timeliness of this venture, which today continues to operate in line with the company's strategic and financial planning, always in compliance with the relevant targets and standards. With regard to the resilience of the assets, a local Working Group was formed, with specialists from different areas, to study and validate the analyses developed, with the aim of strengthening technical capacity in understanding the impacts of climate change on the assets and establishing adaptation action plans.
[Fixed row]

(5.2) Does your organization’s strategy include a climate transition plan?

(5.2.1) Transition plan

Select from:

☑ Yes, we have a climate transition plan which aligns with a 1.5°C world

(5.2.3) Publicly available climate transition plan

Select from:

☑ Yes

(5.2.4) Plan explicitly commits to cease all spending on, and revenue generation from, activities that contribute to fossil fuel expansion

Select from:

☑ Yes

(5.2.5) Description of activities included in commitment and implementation of commitment

Among the main pillars of Engie's strategy is the diversification of its asset portfolio, encompassing the generation and sale of renewable energy, the provision of infrastructure to transport this energy and support for the gradual replacement of fossil fuels. In terms of targets, the Group has defined that, by 2030, 80% of its installed capacity should come from renewable sources; in 2023, the result was 42%. By the end of 2023, Engie had become the largest 100% renewable electricity generator in the country, with 8.3 GW of installed capacity of its own. This proves that EBE is adhering to its plan to cease investments and revenue generation in activities that contribute to the expansion of fossil fuels. The Engie Group has set itself the ambition of becoming Net Zero by 2045, covering the entire value chain, with intermediate targets set for 2025 and 2030, in line with the Science Based Targets. The short-term target is certified by SBTi. Engie publishes quarterly performance indicators, including emissions-related data, in its Earnings Announcements and Investor Presentations (available to any interested party). In these documents, we comment on the evolution and trends of decarbonization, in line with our corporate strategies and commitments. Every year, the company publishes its Sustainability Report, which addresses the issue more comprehensively, detailing strategies, governance, risks and opportunities, metrics and targets. In both the quarterly and annual reports, communication and feedback channels are available for shareholders. In addition, shareholders can propose agendas at Shareholders' Meetings, in accordance with the Brazilian Corporate Law and the Participation Manual, available on the company's website. Engie's climate strategy is approved by the Board of Directors, which is responsible for enabling the implementation of the company's transition plan to a decarbonized economy. Engie is structuring a document to make the Transition Plan even clearer.

(5.2.7) Mechanism by which feedback is collected from shareholders on your climate transition plan

Select from:

☑ We have a different feedback mechanism in place

(5.2.8) Description of feedback mechanism

Engie Brasil Energia's climate strategy, which serves as the basis for the Transition Plan, is published annually. When the company publishes its reports, including the Sustainability Report, communication and feedback channels are available for shareholders. In addition, shareholders can propose agendas at meetings, in accordance with the Brazilian Corporate Law and the Participation Manual, available on the company's website. In 2023, at the annual public meeting called "Inside Engie Brasil Energia", the People, Processes and Sustainability Director presented the Company's mitigation and adaptation agenda. This meeting involves various stakeholders, from investors to experts in the energy and sustainability sector, who had the opportunity to ask questions and provide feedback.

(5.2.9) Frequency of feedback collection

Select from:

☑ Annually

(5.2.10) Description of key assumptions and dependencies on which the transition plan relies

Through its Journey for the Climate, Engie Brasil Energia is committed to the fight against climate change and has been fulfilling its purpose of accelerating the transition to a carbon-neutral economy, in line with the precepts of the Paris Agreement and the Sustainable Development Goals (SDGs). The company also participates in various initiatives, such as Science Based Targets (SBTi), TFCD (Task Force on Climate-related Financial Disclosures), World Alliance for Efficient

Solutions, Caring for Climate, Hydrogen Council, Terrawatt Initiative and Business Leadership Criteria on Carbon Pricing. Engie's transition plan to a decarbonized economy is based on scenario analysis which takes into account the risks and opportunities related to climate change.

(5.2.11) Description of progress against transition plan disclosed in current or previous reporting period

The current transition plan for a decarbonized economy presents Engie Brasil Energia's strategy for climate mitigation and adaptation. The plan includes the GHG inventory, the targets set, as well as the projects aimed at reducing GHG emissions. The company is structuring a document to make the Transition Plan even clearer, including carbon scenarios. As of May 2023, all the energy produced by Engie Brasil Energia came from renewable sources. The Pampa Sul thermoelectric plant, the last coal-fired plant, was decommissioned in line with Engie's strategy of prioritizing investments in renewable assets, such as wind and solar power plants.

(5.2.12) Attach any relevant documents which detail your climate transition plan (optional)

Journey for the Climate (Sustainability Report).pdf

(5.2.13) Other environmental issues that your climate transition plan considers

Select all that apply

☑ No other environmental issue considered

[Fixed row]

(5.3) Have environmental risks and opportunities affected your strategy and/or financial planning?

(5.3.1) Environmental risks and/or opportunities have affected your strategy and/or financial planning

Select from:

☑ Yes, both strategy and financial planning

(5.3.2) Business areas where environmental risks and/or opportunities have affected your strategy

Select all that apply

☑ Products and services

☑ Upstream/downstream value chain

☑ Investment in R&D

☑ Operations

[Fixed row]

(5.3.1) Describe where and how environmental risks and opportunities have affected your strategy.

Products and services

(5.3.1.1) Effect type

Select all that apply

☑ Risks

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

☑ Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

In terms of risks, changes in environmental regulations may require the company to modify its products, such as offering energy sources with lower carbon emissions. This could mean a transition to technologies such as wind, solar or hydroelectric power, to the detriment of fossil fuels. In addition, extreme weather events, such as storms and floods, may force the company to develop more resilient services, such as installing more robust infrastructures or creating contingency plans to guarantee the continuity of the energy supply. Climate opportunities can lead to the development of new products and services focused on clean and renewable energy. This includes offering solar energy packages for homes and businesses, expanding wind generation, or even consultancy services to help other sectors reduce their carbon footprint. In addition, with climate change altering energy consumption patterns, the company may need to adapt its services to meet these new demands, perhaps by offering energy efficiency solutions or intelligent energy management technologies that adjust to fluctuations in consumption. A relevant issue for service operations is water scarcity, as it directly impacts the supply of essential resources for energy generation. Climate change could alter the availability of water in certain regions, which would affect the viability of hydroelectric projects. This could result in interruptions to the energy supply, increased costs and challenges in the continuity of operations, forcing the company to look for alternatives that are less dependent on water resources. The scarcity of water and the increased frequency of droughts has pushed the company to diversify its portfolio, investing in solutions that are less dependent on water resources, such as solar and wind energy. This has led to the development of new products that use energy generation technologies with lower water consumption, or even the creation of services that help optimize water use in existing operations.

Upstream/downstream value chain

(5.3.1.1) Effect type

Select all that apply

☑ Risks

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

Climate risks and opportunities have driven the company to improve its metrics related to climate impact and the transition to a low-carbon economy. Recognizing the importance of addressing these challenges together with its partners, the company has made progress in defining engagement goals and launched the Supplier Decarbonization Program, which aims to support and guide suppliers in building their own paths towards carbon neutrality. This program not only mitigates the risks associated with Scope 3 emissions, but also capitalizes on the opportunities to lead the energy transition, strengthening the commitment to sustainable practices throughout the supply chain.

Investment in R&D

(5.3.1.1) Effect type

Select all that apply

☑ Risks

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

☑ Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

Faced with the risks associated with climate change, the company directs part of its R&D investments towards the creation of technologies to adapt its operations to extreme climatic conditions, such as droughts, floods, heat waves, extreme winds and landslides, seeking solutions that guarantee the continuity of energy generation even in unfavorable scenarios. As an example, Engie Brasil Energia launched a public call for projects on the theme "Impacts of climate change and land use on the Brazilian electricity sector" and the selected initiative continued its studies until 2023. In addition, climate opportunities can direct R&D investments towards the exploitation of renewable energy sources that do not depend on water, such as solar and wind. This could involve research into new materials, energy storage technologies, and innovative methods of integrating these sources into the electricity system.

Operations

(5.3.1.1) Effect type

Select all that apply

☑ Risks

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

☑ Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

Faced with growing water scarcity and changes in weather patterns, the company has been reviewing its operations to reduce vulnerability to these factors by adapting its operating practices to meet the challenges posed by climate change. Based on the risks identified, Climate Change Adaptation Plans have been drawn up, providing for a set of strategies and actions developed to manage the impacts and risks associated with climate change, considering projections and multiple possible futures. In this way, they support the company's preparation to respond effectively to changes in environmental conditions caused by climate change.
[Add row]

(5.3.2) Describe where and how environmental risks and opportunities have affected your financial planning.

Row 1

(5.3.2.1) Financial planning elements that have been affected

Select all that apply

☑ Revenues
☑ Direct costs
☑ Indirect costs
☑ Capital allocation
☑ Capital expenditures
☑ Acquisitions and divestments

(5.3.2.2) Effect type

Select all that apply
☑ Risks

(5.3.2.3) Environmental issues relevant to the risks and/or opportunities that have affected these financial planning elements

Select all that apply
☑ Climate change
☑ Water

(5.3.2.4) Describe how environmental risks and/or opportunities have affected these financial planning elements

In line with the Group's business strategy, Engie Brasil Energia has been expanding its renewable energy generation portfolio. In 2021, it completed the sale of the Jorge Lacerda Thermoelectric Complex and, in 2023, it sold the company's last coal-fired asset, the Pampa Sul Thermoelectric Plant. This change in portfolio is directly linked to decision-making on "acquisitions and divestments", "capital allocation", "revenue generation", as well as the company's "direct and indirect costs". The generation of energy from renewable sources is highly impacted by climatic conditions, such as water shortages and lack of wind. A prolonged period of wind shortages could, for example, result in less energy being generated than contracted, which could have a negative impact on the company's operating profits. In addition, if Engie does not have the capacity to continue mitigating the impacts of the deficit in hydroelectric generation generated by unfavorable hydrological conditions, it could be exposed to the short-term energy market, which also affects the company's future operating profits, as well as the market value of the securities issued by the company. As a result, the measures taken to mitigate these risks are intelligent portfolio management, climate risk analysis, the existence of climate adaptation plans for all assets, investment in new technologies and the development of R&D projects.
[Add row]

(5.4) In your organization’s financial accounting, do you identify spending/revenue that is aligned with your organization’s climate transition?

	Identification of spending/revenue that is aligned with your organization's climate transition	Methodology or framework used to assess alignment with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
	Select from: ☑ Yes	*Select all that apply* ☑ A sustainable finance taxonomy	*Select from:* ☑ At the organization level only

[Fixed row]

(5.4.1) Quantify the amount and percentage share of your spending/revenue that is aligned with your organization's climate transition.

Row 1

(5.4.1.1) Methodology or framework used to assess alignment

Select from:

☑ A sustainable finance taxonomy

(5.4.1.2) Taxonomy under which information is being reported

Select from:

☑ EU Taxonomy for Sustainable Activities

(5.4.1.3) Objective under which alignment is being reported

Select from:

☑ Total across climate change mitigation and climate change adaption

(5.4.1.4) Indicate whether you are reporting eligibility information for the selected objective

Select from:

☑ Yes

(5.4.1.5) Financial metric

Select from:

☑ Revenue/Turnover

(5.4.1.6) Amount of selected financial metric that is aligned in the reporting year (currency)

7697601000

(5.4.1.7) Percentage share of selected financial metric aligned in the reporting year (%)

74.2

(5.4.1.8) Percentage share of selected financial metric planned to align in 2025 (%)

87.2

(5.4.1.9) Percentage share of selected financial metric planned to align in 2030 (%)

87.2

(5.4.1.10) Percentage share of financial metric that is taxonomy-eligible in the reporting year (%)

87.2

(5.4.1.11) Percentage share of financial metric that is taxonomy non-eligible in the reporting year (%)

12.8

(5.4.1.12) Details of the methodology or framework used to assess alignment with your organization’s climate transition

All "Eligible" and "Aligned" activities are classified in accordance with the European Union's Taxonomy regulation. The data is audited at a global level (Engie Group) and is publicly disclosed on the Engie Brasil Energia website and, on a consolidated basis, by the Engie Group. The revenue figures for 2025 and 2030 were estimated based on the forecast of Engie Brasil Energia's asset portfolio for those years. The estimate considers that new investments are focused on wind and solar energy, which are eligible and aligned with the European Union's sustainable taxonomy.

Row 2

(5.4.1.1) Methodology or framework used to assess alignment

Select from:

☑ A sustainable finance taxonomy

(5.4.1.2) Taxonomy under which information is being reported

Select from:

☑ EU Taxonomy for Sustainable Activities

(5.4.1.3) Objective under which alignment is being reported

Select from:

☑ Total across climate change mitigation and climate change adaption

(5.4.1.4) Indicate whether you are reporting eligibility information for the selected objective

Select from:

☑ Yes

(5.4.1.5) Financial metric

Select from:

☑ CAPEX

(5.4.1.6) Amount of selected financial metric that is aligned in the reporting year (currency)

3049564000

(5.4.1.7) Percentage share of selected financial metric aligned in the reporting year (%)

95.7

(5.4.1.8) Percentage share of selected financial metric planned to align in 2025 (%)

96.3

(5.4.1.9) Percentage share of selected financial metric planned to align in 2030 (%)

96.3

(5.4.1.10) Percentage share of financial metric that is taxonomy-eligible in the reporting year (%)

96.3

(5.4.1.11) Percentage share of financial metric that is taxonomy non-eligible in the reporting year (%)

3.7

(5.4.1.12) Details of the methodology or framework used to assess alignment with your organization’s climate transition

All "Eligible" and "Aligned" activities are classified in accordance with the European Union's Taxonomy regulation. The data is audited at a global level (Engie Group) and is publicly disclosed on the Engie Brasil Energia website and, on a consolidated basis, by the Engie Group. CAPEX data for 2025 and 2030 was estimated based on Engie Brasil Energia's asset portfolio forecast for those years. The estimate considers that the new investments are focused on wind and solar energy, which are eligible and aligned with the European Union's sustainable taxonomy.

Row 3

(5.4.1.1) Methodology or framework used to assess alignment

Select from:

☑ A sustainable finance taxonomy

(5.4.1.2) Taxonomy under which information is being reported

Select from:

☑ EU Taxonomy for Sustainable Activities

(5.4.1.3) Objective under which alignment is being reported

Select from:

☑ Total across climate change mitigation and climate change adaption

(5.4.1.4) Indicate whether you are reporting eligibility information for the selected objective

Select from:

☑ Yes

(5.4.1.5) Financial metric

Select from:

☑ OPEX

(5.4.1.6) Amount of selected financial metric that is aligned in the reporting year (currency)

319940000

(5.4.1.7) Percentage share of selected financial metric aligned in the reporting year (%)

90.8

(5.4.1.8) Percentage share of selected financial metric planned to align in 2025 (%)

100

(5.4.1.9) Percentage share of selected financial metric planned to align in 2030 (%)

100

(5.4.1.10) Percentage share of financial metric that is taxonomy-eligible in the reporting year (%)

100

(5.4.1.11) Percentage share of financial metric that is taxonomy non-eligible in the reporting year (%)

0

(5.4.1.12) Details of the methodology or framework used to assess alignment with your organization’s climate transition

All "Eligible" and "Aligned" activities are classified in accordance with the European Union's Taxonomy regulation. The data is audited at a global level (Engie Group) and is publicly disclosed on the Engie Brasil Energia website and, on a consolidated basis, by the Engie Group. The OPEX data for 2025 and 2030 was estimated based on Engie Brasil Energia's asset portfolio forecast for those years. The estimate considers that new investments are focused on wind and solar energy, which are eligible and aligned with the European Union's sustainable taxonomy.
[Add row]

(5.4.3) Provide any additional contextual and/or verification/assurance information relevant to your organization’s taxonomy alignment.

(5.4.3.2) Additional contextual information relevant to your taxonomy accounting

The Group follows a four-step process to identify the activities that are eligible and aligned according to the European Regulation governing the taxonomy of sustainable activities (2020/852) in all the countries in which the Group operates for 2023. The process covered climate change mitigation and adaptation objectives. The Group is mainly focused on the climate change mitigation objective, in line with its decarbonization strategy. The first stage consists of studying the eligibility of activities and dividing the Group's economic activities into two categories: eligible and ineligible. The second stage consists of determining, among the eligible activities, those whose priority was to contribute substantially to the objective of mitigating or adapting to climate change, assessing their compliance with the technical review criteria presented in the delegated acts. Among the technical review criteria, the activity is considered aligned if: for hydroelectric generation: the hydroelectric plant is of the "run of the river" type or can demonstrate an energy flow rate of more than 5 W/m2. The third stage refers to compliance with the technical analysis criteria, ensuring that there is no detriment to the other environmental objectives. The management of risks related to climate change, water resources, the circular economy, biodiversity erosion and air pollution is addressed in a specific section of Engie’s environmental policy. The compliance assessment is carried out by the environmental coordinators based on the following main elements: risks related to climate change (physical risks), water stress, pollution (NOx, SOx, PM), protected zones, which is updated every year as part of the environmental report of the sites in operation; environmental management plan as part of the Group's voluntary CSR objectives; EMAS and ISO 14001 certification. The data is audited at a global level (Engie Group) and is available at https://www.engie.com.br/investidores/informacoes-financeiras/principais-indicadores/.

(5.4.3.3) Indicate whether you will be providing verification/assurance information relevant to your taxonomy alignment in question 13.1

Select from:
☑ Yes
[Fixed row]

(5.5) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

(5.5.1) Investment in low-carbon R&D

Select from:

☑ Yes

(5.5.2) Comment

Engie is committed to innovation and the development of technologies that promote the transition to a low-carbon economy. In this context, the company directs its investments in Research and Development (R&D) with a strategy aligned with its decarbonization goals, seeking solutions that boost energy efficiency and the use of renewable sources. Engie's R&D projects cover several areas, including the optimization of photovoltaic plants, the development of wind turbine technologies and fault monitoring systems, as well as initiatives focused on adapting the Brazilian electricity sector to the impacts of climate change. By fostering the development of advanced technologies, the company seeks not only to optimize the performance of its renewable generation assets, but also to create solutions that can be scaled up and applied to the market in general, making a significant contribution to the decarbonization of the energy sector as a whole. These investments are in line with the company's global goals of achieving carbon neutrality by 2045.
[Fixed row]

(5.5.7) Provide details of your organization's investments in low-carbon R&D for your sector activities over the last three years.

Row 1

(5.5.7.1) Technology area

Select from:

☑ Solar energy generation

(5.5.7.2) Stage of development in the reporting year

Select from:

☑ Applied research and development

(5.5.7.3) Average % of total R&D investment over the last 3 years

0.1

(5.5.7.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

48169.85

(5.5.7.5) Average % of total R&D investment planned over the next 5 years

3.5

(5.5.7.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

The tool developed in this project is capable of detecting, identifying and quantifying energy losses in Engie Brasil Energia's photovoltaic plants. Through the diagnosis, there is the potential to optimize the efficiency of the plants by reducing energy losses, thus maximizing solar energy production. Since solar energy is a renewable and clean source, it supports the transition to a low-carbon economy. By improving the diagnosis and, possibly, the operational efficiency of the plants, the project will contribute directly to reducing GHG emissions, supporting the company's Transition Plan.

Row 3

(5.5.7.1) Technology area

Select from:

☑ Wind energy generation

(5.5.7.2) Stage of development in the reporting year

Select from:

☑ Full/commercial-scale demonstration

(5.5.7.3) Average % of total R&D investment over the last 3 years

16.6

(5.5.7.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

7164832.11

(5.5.7.5) Average % of total R&D investment planned over the next 5 years

0

(5.5.7.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

The project is directly linked to the development of wind power, a renewable and clean energy source. The production of wind turbines in Brazil helps to reduce emissions from the transportation of this equipment, which is normally purchased from other countries. In addition to fostering domestic industry, the project contributes to expanding Brazil's renewable energy matrix, reducing dependence on fossil sources and, consequently, reducing greenhouse gas (GHG) emissions. This project supports the company's Transition Plan by boosting the use of advanced technology in wind power generation, in line with decarbonization objectives.

Row 4

(5.5.7.1) Technology area

Select from:

☑ Other, please specify **:**R&D projects related to improving technologies that enhance operational efficiency

(5.5.7.2) Stage of development in the reporting year

Select from:

☑ Small scale commercial deployment

(5.5.7.3) Average % of total R&D investment over the last 3 years

4.2

(5.5.7.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

1834479.5

(5.5.7.5) Average % of total R&D investment planned over the next 5 years

16.4

(5.5.7.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

The projects in small-scale commercial implementation status are aimed at improving technologies that increase operational efficiency and sustainability in the electricity sector. Among them is the improvement of an optical transformer. Another project focuses on creating a system to monitor and detect faults in synchronous generators by analyzing the magnetic field, enabling early identification of abnormalities and preventing faults that could result in significant operational interruptions. Both projects are key to reducing operational risks and optimizing the use of resources, directly aligned with the objectives of the company's Transition Plan for a more sustainable and efficient operation.

Row 5

(5.5.7.1) Technology area

Select from:

☑ Other, please specify **:**R&D to develop research focused on mitigating and adapting to climate change in the energy sector.

(5.5.7.2) Stage of development in the reporting year

Select from:

☑ Applied research and development

(5.5.7.3) Average % of total R&D investment over the last 3 years

2.9

(5.5.7.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

3715447.56

(5.5.7.5) Average % of total R&D investment planned over the next 5 years

13.5

(5.5.7.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

The projects at the applied research and development level seek to address challenges in the transition to a more sustainable and resilient energy matrix. One of the projects focuses on developing methodologies, criteria and computational resources to identify, classify and quantify business opportunities in systems with high penetration of variable renewable energy sources, such as solar and wind. This is expected to lead to greater integration in the energy matrix, making a significant contribution to the transition to a low-carbon system and strengthening the resilience of the electricity system, in line with the company's Transition Plan. Another project focuses on the impacts of climate change and land use on the Brazilian electricity sector, with the aim of building a portfolio of sub-projects aimed at developing software, methods, techniques and models for power generation companies. The initiative is fundamental to Engie Brasil Energia's low-carbon strategy, as it aims to estimate and mitigate the impacts of climate change, protecting power generation assets against extreme weather events.
[Add row]

(5.7) Break down, by source, your organization’s CAPEX in the reporting year and CAPEX planned over the next 5 years.

Coal – hard

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Since the sale of its last coal-fired plant in May 2023, Engie Brasil Energia has a 100% renewable portfolio. Following the decarbonization objectives of the Engie Group's portfolio, Engie Brasil Energia is not expected to operate coal-fired assets again.

Lignite

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use lignite in its operations and does not plan to operate this type of source in line with its decarbonization strategy.

Oil

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use fuel oil to generate electricity and does not plan to operate with this source in line with its decarbonization strategy.

Gas

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use gas in its operations and does not plan to operate this type of source in line with its decarbonization strategy.

Sustainable biomass

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use sustainable biomass in its operations and does not plan to operate this type of source.

Other biomass

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

No significant CAPEX was identified in sustainable biomass, with resources being concentrated on the expansion of other types of renewable generation and transmission lines.

Waste (non-biomass)

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use waste (non-biomass) to generate electricity and does not plan to operate this type of source.

Nuclear

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not operate nuclear power plants and has no plans to do so.

Geothermal

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not operate geothermal sources and does not plan to operate this type of source in line with its decarbonization strategy.

Hydropower

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

89181314

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

3.6

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

4

(5.7.4) Most recent year in which a new power plant using this source was approved for development

2017

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia operates hydroelectric plants and plans to continue operating this type of source in line with its decarbonization strategy. In 2023 and throughout 2024, the company has been modernizing and maintaining the generating facilities at the Salto Osório, Jaguara and Miranda hydroelectric plants. From 2025 onwards, the modernization and maintenance of these plants will continue. For the next few years, therefore, the planned CAPEX allocation is associated with the actual maintenance and operation values assessed for the period; however, other investments may be incorporated depending on the definitions of the business strategy in the coming years.

Wind

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

2118000000

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

87

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

47

(5.7.4) Most recent year in which a new power plant using this source was approved for development

2022

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia operates wind power sources and plans to continue expanding this type of source in the energy matrix, in line with its decarbonization and diversification strategy. In 2023, construction continued on the Serra do Assuruá Wind Complex. In 2024, the Santo Agostinho Wind Complex is due to be completed and the Serra do Assuruá Wind Complex projects will be implemented. In 2025, the Serra do Assuruá Wind Complex will be completed. For the coming years, the planned CAPEX allocation is associated with the actual values of the plants under construction, as well as maintenance and operation assessed for the period; however, other investments may be incorporated depending on the definitions of the business strategy in the coming years.

Solar

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

239000000

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

10

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

48

(5.7.4) Most recent year in which a new power plant using this source was approved for development

2023

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia operates solar power plants and plans to continue expanding this type of source in line with its decarbonization and diversification strategy. In 2023, the company earmarked investments for the construction of the Assú Sol Photovoltaic Complex. In the short term, CAPEX is expected to be allocated to the

completion of this same complex. For the coming years, therefore, the planned allocation of resources is associated with the actual values of plants under construction, as well as maintenance and operation assessed for the period; however, other investments may be incorporated depending on the definitions of the business strategy in the coming years.

Marine

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not operate tidal power and does not plan to operate this type of source.

Fossil-fuel plants fitted with CCS

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not operate plants that use fossil fuels and does not plan to operate this type of source in line with its decarbonization strategy.

Other renewable (e.g. renewable hydrogen)

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use any renewable sources in its operations other than hydroelectric, solar, wind and biomass plants (sugar cane and wood).

Other non-renewable (e.g. non-renewable hydrogen)

(5.7.1) CAPEX in the reporting year for power generation from this source (unit currency as selected in 1.2)

0

(5.7.2) CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

0

(5.7.3) CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

0

(5.7.5) Explain your CAPEX calculations, including any assumptions

Engie Brasil Energia does not use non-renewable sources in its operations, and its portfolio includes only hydroelectric, solar, wind and biomass power plants, in line with its decarbonization strategy.
[Fixed row]

(5.7.1) Break down your total planned CAPEX in your current CAPEX plan for products and services (e.g. smart grids, digitalization, etc.).

Row 1

(5.7.1.1) Products and services

Select from:
☑ Energy management services

(5.7.1.2) Description of product/service

The Energy Place Platform was launched in 2020 by Engie Brasil Energia. Through this platform, customers can quote and buy short- and long-term energy. They can also track information, contractual performance and download documents intuitively and quickly. The platform is available to clients, free consumers who are not yet Engie clients and management companies operating in the free energy market. In 2023, the Company recorded a significant increase in the number of customers in the Free Contracting Environment (ACL), which rose from 982 to 1,408, an increase of 43% on the previous year. As Energy Place is also available to consumers who are not yet ENGIE customers, the total number of users is higher than mentioned. In 2023 the Platform was already operating, but improvements and the implementation of new modules are planned for the coming years. In 2023, around R3 million were disbursed, associated with preparing the platform for the opening

of the free energy market and the technological evolution of the e-Commerce tool. In 2024, investments of R2 million are planned to prepare the platform for self-service for our customers and to launch new products on the e-Commerce platform. In 2025, the investment forecast is R1 million, with a focus on stabilizing and improving the platform. In other words, investments totaling R6 million. In 2023, free consumers accounted for 41% of physical sales and 37% of net operating revenue. There are prospects for an increase in this share in the coming years, given the validity of Normative Ordinance 50/2022, in which the Ministry of Mines and Energy granted all high-voltage consumers the right to migrate to the ACL from January 2024.

(5.7.1.3) CAPEX planned for product/service

6000000

(5.7.1.4) Percentage of total CAPEX planned for products and services

100

(5.7.1.5) End year of CAPEX plan

2025
[Add row]

(5.9) What is the trend in your organization’s water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

(5.9.1) Water-related CAPEX (+/- % change)

82

(5.9.2) Anticipated forward trend for CAPEX (+/- % change)

77

(5.9.3) Water-related OPEX (+/- % change)

-40

(5.9.4) Anticipated forward trend for OPEX (+/- % change)

-8

(5.9.5) Please explain

The positive variation in CAPEX is mainly associated with investments in the modernization of hydroelectric plants,which may lead to increased efficiency and optimization of water use.In 2022,resources were invested in the modernization of Salto Osório Hydro Plant (UHSO) and Estreito Hydro Plant (UHET).In 2023, investments were made in the Jaquara (UHJA),Miranda (UHMI),and UHSO plants,along the construction of a water pipeline in Pampa Sul.Between 2024 and 2026,resources are planned for the modernization of UHSO,UHJA,and UHMI. Operating expenditure (OPEX),primarily related to monitoring water quality and quantity,shows a downward trend due to reduced water consumption and increased reuse.Between 2022 and 2023,efficiency investments significantly reduced water usage and,consequently,the need for additional OPEX. From 2023 to 2024,water related CAPEX and OPEX will continue,but it is expected that operational costs will not be impacted to the same extent as the investments.
[Fixed row]

(5.10) Does your organization use an internal price on environmental externalities?

	Use of internal pricing of environmental externalities	Environmental externality priced
	Select from: ☑ Yes	*Select all that apply* ☑ Carbon ☑ Water

[Fixed row]

(5.10.1) Provide details of your organization's internal price on carbon.

Row 1

(5.10.1.1) Type of pricing scheme

Select from:

☑ Shadow price

(5.10.1.2) Objectives for implementing internal price

Select all that apply

☑ Drive low-carbon investment

(5.10.1.3) Factors considered when determining the price

Select all that apply

☑ Existing or pending legislation

☑ Price/cost of voluntary carbon offset credits

☑ Scenario analysis

(5.10.1.4) Calculation methodology and assumptions made in determining the price

The definition of the internal carbon price is carried out transversally by Engie Brasil Energia, involving the market intelligence and new business development areas. The future CER price curve takes into account factors such as: (i) the status of ENGIE Brasil Energia's stock of CERs available for sale; (ii) market demand; (iii) competitor prices; (iv) the regulatory situation; (v) the cost of issuing CERs. The shadow price methodology was adopted, and the carbon price can be used in investment decisions.

(5.10.1.5) Scopes covered

Select all that apply

☑ Scope 1

(5.10.1.6) Pricing approach used – spatial variance

Select from:

☑ Uniform

(5.10.1.8) Pricing approach used – temporal variance

Select from:

☑ Evolutionary

(5.10.1.9) Indicate how you expect the price to change over time

Carbon pricing instruments can have indirect effects on energy demand, as well as on the marginal cost of energy production. In the case of Brazil, the implementation of sectoral mitigation plans, as planned by future decrees of a carbon market, can increase the operating cost of thermal units and therefore impact the price of energy. More relevant, however, is the fact that the combination of national and international carbon prices can lead to a greater demand for electricity to replace fossil fuels in transport and industry, as well as to produce energy-intensive low-carbon products such as aluminum or even hydrogen-based products for export, such as ammonia, methanol or steel. In addition to this general effect on electricity demand and supply curves, there will be a reduction in demand for renewable energy attributes, such as green PPAs and Renewable Energy Certificates, which can generate additional direct income for Non-Conventional Renewable Energy (NCRE) projects.

(5.10.1.10) Minimum actual price used (currency per metric ton CO2e)

24

(5.10.1.11) Maximum actual price used (currency per metric ton CO2e)

48

(5.10.1.12) Business decision-making processes the internal price is applied to

Select all that apply

☑ Capital expenditure

☑ Opportunity management

(5.10.1.13) Internal price is mandatory within business decision-making processes

Select from:

☑ Yes, for all decision-making processes

(5.10.1.14) % total emissions in the reporting year in selected scopes this internal price covers

100

(5.10.1.15) Pricing approach is monitored and evaluated to achieve objectives

Select from:

☑ Yes

(5.10.1.16) Details of how the pricing approach is monitored and evaluated to achieve your objectives

Currently, depending on the market situation, Engie can consider the impact of revenue from carbon credits when analyzing new investments (CAPEX) in renewable energy generation projects. The prices and volumes of this opportunity are determined internally, with price being determined by the Market Intelligence area, and volume by the Environment area through an avoided emissions methodology adopted by the Group.
[Add row]

(5.10.2) Provide details of your organization's internal price on water.

Row 1

(5.10.2.1) Type of pricing scheme

Select from:

☑ Shadow price

(5.10.2.2) Objectives for implementing internal price

Select all that apply

☑ Incentivize consideration of water-related issues in risk assessment

☑ Navigate regulations

(5.10.2.3) Factors beyond current market price are considered in the price

Select from:

☑ No

(5.10.2.16) Details of how the pricing approach is monitored and evaluated to achieve your objectives

Engie Brasil Energia has a cost linked to the use of water to generate electricity at its hydroelectric plants. This cost refers to the sector tax called Financial Compensation for the Use of Water Resources for Hydroelectric Generation (CFURH), established by Law 7.990/89, which is applied to all companies in the sector

by ANEEL and paid monthly according to the amount of electricity generated. Currently, the CFURH corresponds to 7% of the value of the energy on the bill. The minimum value in 2023 was equivalent to R 0.0004/m³ and the maximum to R 0.0009/m³. The values were not presented in the columns "minimum actual priced used" and "maximum actual price used" because there was a limitation on the number of decimal places at the time of reporting (a maximum of 2 decimal places) on the CDP platform. According to the law, the amount collected by the tax is distributed to the states, the Federal District, and the municipalities in whose territories electricity production facilities are located, or which have areas affected by water from the reservoirs. A less significant portion of the resources is allocated to the Ministry of the Environment, to be used for the implementation of the National Water Resources Policy and the National Water Resources Management System. This tax is considered in the cash flow and decision-making process, as it is deemed relevant for some assets.
[Add row]

(5.11) Do you engage with your value chain on environmental issues?

Suppliers

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:
☑ Yes

(5.11.2) Environmental issues covered

Select all that apply
☑ Climate change
☑ Water

Customers

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:
☑ Yes

(5.11.2) Environmental issues covered

Select all that apply

☑ Climate change

Investors and shareholders

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:

☑ No, but we plan to within the next two years

(5.11.3) Primary reason for not engaging with this stakeholder on environmental issues

Select from:

☑ Other, please specify :Currently, two minority shareholders (members of the Board) undergo training on Climate Change. In the coming years, actions are planned to engage a larger number of investors and shareholders.

(5.11.4) Explain why you do not engage with this stakeholder on environmental issues

Currently, two minority shareholders are part of the Board of Directors of Engie Brasil Energia, as required by the New Market listing segment of the Brazilian Stock Exchange – B3. They undergo annual training on Climate Change to promote engagement in this issue. This training is one of Engie Brasil Energia's corporate goals, tied to employees' short-term (annual) variable compensation. In the coming years, actions are planned to engage a larger number of investors and shareholders.

Other value chain stakeholders

(5.11.1) Engaging with this stakeholder on environmental issues

Select from:

☑ Yes

(5.11.2) Environmental issues covered

Select all that apply

☑ Water

[Fixed row]

(5.11.1) Does your organization assess and classify suppliers according to their dependencies and/or impacts on the environment?

Climate change

(5.11.1.1) Assessment of supplier dependencies and/or impacts on the environment

Select from:

☑ Yes, we assess the dependencies and/or impacts of our suppliers

(5.11.1.2) Criteria for assessing supplier dependencies and/or impacts on the environment

Select all that apply

☑ Contribution to supplier-related Scope 3 emissions

(5.11.1.3) % Tier 1 suppliers assessed

Select from:

☑ 100%

(5.11.1.4) Define a threshold for classifying suppliers as having substantive dependencies and/or impacts on the environment

To classify suppliers whose impacts on the environment are significant, Engie uses a threshold based on their share of Scope 3 GHG emissions. Specifically, the main suppliers are those that together account for 80% of the company's Scope 3 emissions. Therefore, in percentage terms, the company seeks to engage 100% of these main suppliers, which correspond to 80% of Scope 3 emissions.

(5.11.1.5) % Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

Select from:

☑ 1-25%

(5.11.1.6) Number of Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

39

Water

(5.11.1.1) Assessment of supplier dependencies and/or impacts on the environment

Select from:

☑ Yes, we assess the dependencies and/or impacts of our suppliers

(5.11.1.2) Criteria for assessing supplier dependencies and/or impacts on the environment

Select all that apply

☑ Impact on water availability

☑ Impact on pollution levels

(5.11.1.3) % Tier 1 suppliers assessed

Select from:

☑ 1-25%

(5.11.1.4) Define a threshold for classifying suppliers as having substantive dependencies and/or impacts on the environment

Engie classifies critical suppliers in water resources through its ESG questionnaire, assessing impacts on water availability and pollution, legal compliance, certifications, and environmental initiatives. Suppliers with a performance below 15 on a scale of 0-44 are considered critical. These suppliers are prioritized for engagement, with the aim of mitigating impacts and promoting more sustainable water management practices.

(5.11.1.5) % Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

Select from:

☑ 1-25%

(5.11.1.6) Number of Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

84
[Fixed row]

(5.11.2) Does your organization prioritize which suppliers to engage with on environmental issues?

Climate change

(5.11.2.1) Supplier engagement prioritization on this environmental issue

Select from:

☑ Yes, we prioritize which suppliers to engage with on this environmental issue

(5.11.2.2) Criteria informing which suppliers are prioritized for engagement on this environmental issue

Select all that apply

☑ In line with the criteria used to classify suppliers as having substantive dependencies and/or impacts relating to climate change

(5.11.2.4) Please explain

In addition to the ESG questionnaire, which has a specific climate module, Engie Brasil Energia also assesses the suppliers that contribute most to its scope 3 emissions (categories 1 and 2). In 2023, the company selected suppliers that contributed more than 80% of greenhouse gas emissions in categories 1 and 2. Emissions were calculated based on spend and emissions factors provided by Quantis (data provider). There is a direct relationship between the suppliers with the highest spend in 2023 and the highest emissions. 39 suppliers were selected and invited to take part in the Supplier Decarbonization Program and were encouraged to monitor their emissions, set reduction targets in line with science and implement decarbonization projects. In addition to providing suppliers with a free inventory preparation tool, Engie also promotes training and capacity building. This approach allows the company to direct attention and efforts towards the suppliers that have the most significant impact on its operations. By prioritizing suppliers based on the volume of purchases, Engie ensures that it is proactively managing those that represent a substantial portion of its supply chains, which is essential for maintaining operational continuity and compliance with its quality standards.

Water

(5.11.2.1) Supplier engagement prioritization on this environmental issue

Select from:

☑ Yes, we prioritize which suppliers to engage with on this environmental issue

(5.11.2.2) Criteria informing which suppliers are prioritized for engagement on this environmental issue

Select all that apply

☑ Other, please specify **:**Suppliers requesting participation in Engie’s sustainability campaigns, which include water safety issues.

(5.11.2.4) Please explain

Every year, Engie Brasil Energia invites all of its suppliers to answer an ESG questionnaire on various subjects, including water. There are, for example, questions about the existence of water reuse projects, targets for reducing the pollution load from effluents and whether there is monitoring of quality in order to comply with current legislation. In addition, there is a question associated with interest in receiving information materials on this subject, helping these suppliers engaged in the topic to receive recommendations and relevant guidance so that they can adopt good practices in the use of water resources. Suppliers who show an interest in receiving the content are prioritized in training actions, such as sending out the newsletter mentioned above.
[Fixed row]

(5.11.5) Do your suppliers have to meet environmental requirements as part of your organization’s purchasing process?

Climate change

(5.11.5.1) Suppliers have to meet specific environmental requirements related to this environmental issue as part of the purchasing process

Select from:

☑ Yes, environmental requirements related to this environmental issue are included in our supplier contracts

(5.11.5.2) Policy in place for addressing supplier non-compliance

Select from:

☑ Yes, we have a policy in place for addressing non-compliance

(5.11.5.3) Comment

Engie assesses and monitors its suppliers with a focus on compliance with ethical, environmental and sustainability criteria, including aspects related to greenhouse gas emissions. There are clauses in contracts with suppliers that require compliance with ethical and environmental requirements. Engie's ethics, health and safety, social and environmental responsibility clause must be included in all contracts with all the Group's suppliers, service providers, subcontractors and partners, regardless of the entity with which they are working. For every contract, the unit's environmental team analyzes the supplier and adds an annex to the contract called

"Additional Conditions". In this annex, depending on the supplier's characteristics, the contractor is required to meet environmental requirements, such as a Solid Waste Plan, supplying data for the preparation of a greenhouse effect inventory, among others that the environmental team deems pertinent. In addition, suppliers are subjected to a due diligence process, which assesses possible ethical and environmental infractions (infraction notices, environmental lawsuits, among others). When an infraction is identified, the supplier is contacted, and a risk analysis is carried out. The supplier may be prohibited from contracting or inactivated from the base.

Water

(5.11.5.1) Suppliers have to meet specific environmental requirements related to this environmental issue as part of the purchasing process

Select from:

☑ Yes, environmental requirements related to this environmental issue are included in our supplier contracts

(5.11.5.2) Policy in place for addressing supplier non-compliance

Select from:

☑ Yes, we have a policy in place for addressing non-compliance

(5.11.5.3) Comment

Engie assesses and monitors its suppliers with a focus on compliance with ethical, environmental and sustainability criteria, including aspects related to water management. All contracts signed by the company include clauses requiring compliance with ethical, health and safety, social and environmental responsibility standards, covering all suppliers, service providers, subcontractors and partners. In addition, the environmental team of the responsible unit carries out a detailed analysis of suppliers, inserting "Additional Conditions" into the contract as necessary. These conditions may include the requirement for a Solid Waste Management Plan, the provision of data for greenhouse gas emissions inventories, and other relevant environmental obligations. Engie also applies its Due Diligence policy to ensure that its suppliers are in line with the company's environmental standards. When an infringement is identified, the supplier is contacted, and a risk analysis is carried out. The supplier may be prohibited from contracting or inactivated from the base.
[Fixed row]

(5.11.6) Provide details of the environmental requirements that suppliers have to meet as part of your organization’s purchasing process, and the compliance measures in place.

Climate change

(5.11.6.1) Environmental requirement

Select from:

☑ Adoption of the UN International Labour Organization Principles

(5.11.6.2) Mechanisms for monitoring compliance with this environmental requirement

Select all that apply

☑ Fines and penalties

(5.11.6.3) % tier 1 suppliers by procurement spend required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.4) % tier 1 suppliers by procurement spend in compliance with this environmental requirement

Select from:

☑ 100%

(5.11.6.7) % tier 1 supplier-related scope 3 emissions attributable to the suppliers required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.8) % tier 1 supplier-related scope 3 emissions attributable to the suppliers in compliance with this environmental requirement

Select from:

☑ 100%

(5.11.6.9) Response to supplier non-compliance with this environmental requirement

Select from:

☑ Suspend and engage

(5.11.6.10) % of non-compliant suppliers engaged

Select from:

☑ 100%

(5.11.6.11) Procedures to engage non-compliant suppliers

Select all that apply

☑ Providing information on appropriate actions that can be taken to address non-compliance

(5.11.6.12) Comment

In all contracts with suppliers, there are specific clauses for compliance with international law norms established by the International Labour Organization (ILO) and national law norms established by the Ministry of Labor and Employment (MTE). These include, for example, the prohibition of child labor or any other form of forced or compulsory labor. This matter is also addressed in the Due Diligence process, which establishes that 100% of suppliers must undergo an ethics and compliance review. This process takes place at the time of supplier registration and annually. The tool used to monitor the reputation of suppliers representing the highest expenditures, called RepRisk, also assesses violations of ILO principles. If any violation is identified, whether at the time of contracting, during the Due Diligence process, or through RepRisk analyses, the supplier may be contacted to clarify the situation, and a risk analysis is conducted, which could lead to the termination of the contract or deactivation. Engagement actions are also promoted to ensure that non-compliance does not recur. In 2023, 100% of suppliers were subject to the mentioned contractual clauses as well as the Due Diligence process. No violations and/or embargoes related to infractions of ILO principles were identified. In other words, 100% of the suppliers are in compliance with this requirement.

Water

(5.11.6.1) Environmental requirement

Select from:

☑ Compliance with an environmental certification, please specify **:**No infractions related to the management of water resources, including environmental fines and embargoes. Brazilian legislation establishes standards and limits for the emission of pollutants into the atmosphere and watercourses.

(5.11.6.2) Mechanisms for monitoring compliance with this environmental requirement

Select all that apply

☑ Fines and penalties

(5.11.6.3) % tier 1 suppliers by procurement spend required to comply with this environmental requirement

Select from:
☑ 100%

(5.11.6.4) % tier 1 suppliers by procurement spend in compliance with this environmental requirement

Select from:
☑ 100%

(5.11.6.5) % tier 1 suppliers with substantive environmental dependencies and/or impacts related to this environmental issue required to comply with this environmental requirement

Select from:
☑ 100%

(5.11.6.6) % tier 1 suppliers with substantive environmental dependencies and/or impacts related to this environmental issue that are in compliance with this environmental requirement

Select from:
☑ 100%

(5.11.6.9) Response to supplier non-compliance with this environmental requirement

Select from:
☑ Retain and engage

(5.11.6.10) % of non-compliant suppliers engaged

Select from:
☑ 100%

(5.11.6.11) Procedures to engage non-compliant suppliers

Select all that apply

☑ Providing information on appropriate actions that can be taken to address non-compliance

(5.11.6.12) Comment

Engie Brasil Energia has a Due Diligence process, which establishes that 100% of suppliers must undergo an ethics and compliance analysis (frequency: at the time of registration and annually). One of the criteria evaluated is associated with non-conformities in the management of water resources that may be linked to environmental notices and/or embargoes. If a fine or embargo is identified, the supplier is called in to clarify the situation and a risk analysis is carried out, which could lead to the contract being interrupted or inactivated. Engagement actions are also promoted so that non-compliance does not recur. In 2023, 100% of suppliers underwent a due diligence process. In no case were there any environmental fines and/or embargoes associated with the environmental requirements assessed. In other words, 100% of suppliers are complying.

Climate change

(5.11.6.1) Environmental requirement

Select from:

☑ Compliance with an environmental certification, please specify **:**No infractions related to greenhouse gas emissions and pollutants, including environmental fines and embargoes. Brazilian legislation establishes standards and limits for the emission of pollutants into the atmosphere and watercourses.

(5.11.6.2) Mechanisms for monitoring compliance with this environmental requirement

Select all that apply

☑ Fines and penalties

(5.11.6.3) % tier 1 suppliers by procurement spend required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.4) % tier 1 suppliers by procurement spend in compliance with this environmental requirement

Select from:

☑ 100%

(5.11.6.7) % tier 1 supplier-related scope 3 emissions attributable to the suppliers required to comply with this environmental requirement

Select from:
☑ 100%

(5.11.6.8) % tier 1 supplier-related scope 3 emissions attributable to the suppliers in compliance with this environmental requirement

Select from:
☑ 100%

(5.11.6.9) Response to supplier non-compliance with this environmental requirement

Select from:
☑ Retain and engage

(5.11.6.10) % of non-compliant suppliers engaged

Select from:
☑ 100%

(5.11.6.11) Procedures to engage non-compliant suppliers

Select all that apply
☑ Providing information on appropriate actions that can be taken to address non-compliance

(5.11.6.12) Comment

Engie Brasil Energia has a Due Diligence process that requires 100% of suppliers to undergo an ethics and compliance review (frequency: at registration and annually). One of the criteria evaluated is related to non-compliance with emission of gases and air pollutants that could result in environmental fines and/or sanctions. If any fines or sanctions are identified, the supplier is contacted to clarify the situation, and a risk assessment is conducted, which may result in contract

termination or deactivation. Engagement actions are also promoted to prevent recurring non-compliance. In 2023, 100% of suppliers underwent the due diligence process. No environmental fines and/or sanctions related to the assessed environmental criteria were identified, meaning that 100% of suppliers were in compliance.

Water

(5.11.6.1) Environmental requirement

Select from:

☑ Adoption of the UN International Labour Organization Principles

(5.11.6.2) Mechanisms for monitoring compliance with this environmental requirement

Select all that apply

☑ Fines and penalties

(5.11.6.3) % tier 1 suppliers by procurement spend required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.4) % tier 1 suppliers by procurement spend in compliance with this environmental requirement

Select from:

☑ 100%

(5.11.6.5) % tier 1 suppliers with substantive environmental dependencies and/or impacts related to this environmental issue required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.6) % tier 1 suppliers with substantive environmental dependencies and/or impacts related to this environmental issue that are in compliance with this environmental requirement

Select from:

☑ 100%

(5.11.6.9) Response to supplier non-compliance with this environmental requirement

Select from:

☑ Suspend and engage

(5.11.6.10) % of non-compliant suppliers engaged

Select from:

☑ 100%

(5.11.6.11) Procedures to engage non-compliant suppliers

Select all that apply

☑ Providing information on appropriate actions that can be taken to address non-compliance

(5.11.6.12) Comment

In all contracts with suppliers, there are specific clauses for compliance with international law norms established by the International Labour Organization (ILO) and national law norms established by the Ministry of Labor and Employment (MTE). These include, for example, the prohibition of child labor or any other form of forced or compulsory labor. This matter is also addressed in the Due Diligence process, which establishes that 100% of suppliers must undergo an ethics and compliance review. This process takes place at the time of supplier registration and annually. The tool used to monitor the reputation of suppliers representing the highest expenditures, called RepRisk, also assesses violations of ILO principles. If any violation is identified, whether at the time of contracting, during the Due Diligence process, or through RepRisk analyses, the supplier may be contacted to clarify the situation, and a risk analysis is conducted, which could lead to the termination of the contract or deactivation. Engagement actions are also promoted to ensure that non-compliance does not recur. In 2023, 100% of suppliers were subject to the mentioned contractual clauses as well as the Due Diligence process. No violations and/or embargoes related to infractions of ILO principles were identified. In other words, 100% of the suppliers are in compliance with this requirement.
[Add row]

(5.11.7) Provide further details of your organization’s supplier engagement on environmental issues.

Climate change

(5.11.7.2) Action driven by supplier engagement

Select from:

☑ Emissions reduction

(5.11.7.3) Type and details of engagement

Information collection

☑ Collect GHG emissions data at least annually from suppliers

(5.11.7.4) Upstream value chain coverage

Select all that apply

☑ Tier 1 suppliers

☑ Tier 2 suppliers

(5.11.7.5) % of tier 1 suppliers by procurement spend covered by engagement

Select from:

☑ 51-75%

(5.11.7.6) % of tier 1 supplier-related scope 3 emissions covered by engagement

Select from:

☑ 76-99%

(5.11.7.8) Number of tier 2+ suppliers engaged

39

(5.11.7.9) Describe the engagement and explain the effect of your engagement on the selected environmental action

Engie Brasil's Supplier Decarbonization Program was structured in 2023 and its main objective is to offer support and guidance to suppliers in establishing their own carbon neutrality trajectory. The Program's goal is to engage 100% of the Company's main suppliers – which account for 80% of Scope 3 emissions (categories 1 and

2) – to set decarbonization targets in line with science. In 2023 and throughout 2024, webinars were held on climate change with the participation of suppliers who accounted for approximately 60% of the company's spend in 2023, to raise awareness and engage suppliers in this agenda. In 2024, a platform was made available to suppliers free of charge for drawing up a GHG inventory, where it is also possible to assess the impact of adopting decarbonization projects. Suppliers who have joined the Program have additional incentives, such as extra points in performance evaluations and priority in training. As a result of this action, greater transparency on the part of suppliers is expected, as well as greater involvement in climate-related issues, which could lead to new actions by the company with suppliers.

(5.11.7.10) Engagement is helping your tier 1 suppliers meet an environmental requirement related to this environmental issue

Select from:

☑ Yes, please specify the environmental requirement **:**By committing to decarbonization targets, the suppliers will reduce their Scope 1 and 2 emissions (and consequently the Scope 3 emissions of Engie Brasil Energia).

(5.11.7.11) Engagement is helping your tier 1 suppliers engage with their own suppliers on the selected action

Select from:

☑ Yes

Water

(5.11.7.2) Action driven by supplier engagement

Select from:

☑ Other, please specify **:**Sending newsletters on water management to raise awareness.

(5.11.7.3) Type and details of engagement

Capacity building

☑ Provide training, support and best practices on how to mitigate environmental impact

(5.11.7.4) Upstream value chain coverage

Select all that apply

☑ Tier 1 suppliers

☑ Tier 2 suppliers

(5.11.7.5) % of tier 1 suppliers by procurement spend covered by engagement

Select from:
☑ 26-50%

(5.11.7.7) % tier 1 suppliers with substantive impacts and/or dependencies related to this environmental issue covered by engagement

Select from:
☑ 1-25%

(5.11.7.8) Number of tier 2+ suppliers engaged

4

(5.11.7.9) Describe the engagement and explain the effect of your engagement on the selected environmental action

Engie engages its suppliers in water practices to ensure legal compliance and the sustainable use of resources. To monitor performance, the company collects data via an ESG questionnaire. In 2023, through the ESG questionnaire, suppliers were able to request participation in education and awareness campaigns on sustainability promoted by Engie, which include topics such as reducing pollution of water bodies and water abstraction. These suppliers were found to have a low impact on Engie in 2023 in terms of water security, since their performance on the issues associated with water management in the ESG questionnaire was high. Engagement actions were planned based on the analysis of the 2023 data and are being carried out in 2024.

(5.11.7.10) Engagement is helping your tier 1 suppliers meet an environmental requirement related to this environmental issue

Select from:
☑ Yes, please specify the environmental requirement **:**Avoid violations related to water resource management.

(5.11.7.11) Engagement is helping your tier 1 suppliers engage with their own suppliers on the selected action

Select from:
☑ Yes

[Add row]

(5.11.9) Provide details of any environmental engagement activity with other stakeholders in the value chain.

Climate change

(5.11.9.1) Type of stakeholder

Select from:

☑ Customers

(5.11.9.2) Type and details of engagement

Education/Information sharing

☑ Run an engagement campaign to educate stakeholders about the environmental impacts about your products, goods and/or services

(5.11.9.3) % of stakeholder type engaged

Select from:

☑ 100%

(5.11.9.4) % stakeholder-associated scope 3 emissions

Select from:

☑ 100%

(5.11.9.5) Rationale for engaging these stakeholders and scope of engagement

In 2023, Engie Brasil Energia led campaigns to inform customers about its green offerings, including carbon credits, renewable energy contracts (ENGIE-REC) and renewable energy certificates (I-REC). The main objectives were to raise awareness about decarbonization and to promote Engie's products. The campaign was designed to engage companies of different scales, from medium-sized companies with 500 to 1,000 employees to large corporations with more than 10,000 employees, also including companies with 1,000 to 5,000 and 5,000 to 10,000 employees. In addition, it sought to reach a wide range of positions within these organizations, such as environmental and ESG (Environmental, Social and Governance) professionals, administrators, CEOs, managers and financial professionals. The campaign aims to reach decision-makers and influencers capable of promoting change in their organizations.

(5.11.9.6) Effect of engagement and measures of success

As part of this campaign, Engie Brasil Energia released videos and content on decarbonization and targeted product campaigns to resonate with its target audience. The success metric was the increase in the sale of I-RECs associated with gaining impressions and clicks on Google and LinkedIn. The campaign carried out in 2023 was considered a success, as the efforts culminated in 902,104 impressions and 22,455 clicks, as evidenced by Google and LinkedIn metrics, and there was a 70% increase in the sale of I-RECs.

Water

(5.11.9.1) Type of stakeholder

Select from:

☑ Other value chain stakeholder, please specify **:**Local communities

(5.11.9.2) Type and details of engagement

Education/Information sharing

☑ Run an engagement campaign to educate stakeholders about the environmental impacts about your products, goods and/or services

(5.11.9.3) % of stakeholder type engaged

Select from:

☑ 100%

(5.11.9.5) Rationale for engaging these stakeholders and scope of engagement

Engaging local communities is part of the environmental conservation strategy adopted by Engie Brasil Energia, which includes aspects of water security. The company carries out a series of activities dedicated to promoting sustainable development, with a focus on Environmental Education. Environmental Education activities are part of the Conexão Program, focused on a diversified public, such as local communities, public and private schools, public authorities and the scientific academic community in general, which also offers structured routines for public visits to the power plants and other facilities in the Company's generation park.

(5.11.9.6) Effect of engagement and measures of success

One of the measures of success of the Connection Program was the occurrence of at least 1 meeting in each Engie Brasil Energia regional office throughout 2023. This metric was successfully achieved and more than 122,000 people participated in the Connection Program during the year. Throughout the presentations,

participants were able to understand how the assets work, the energy generation process and its interfaces with the environment, including the use of water resources and pollution of water bodies.
[Add row]

(5.12) Indicate any mutually beneficial environmental initiatives you could collaborate on with specific CDP Supply Chain members.

Row 1

(5.12.1) Requesting member

Select from:

(5.12.2) Environmental issues the initiative relates to

Select all that apply
☑ Climate change

(5.12.4) Initiative category and type

Other
☑ Other initiative type, please specify **:**Engagement in climate change (monitor GHG emissions, set reduction targets in line with science, and implement decarbonization projects). Please see Note 1 in the column 'Please Explain'.

(5.12.5) Details of initiative

Please see Note 1 in the column 'Please Explain. Engie Brasil Energia invited Gerdau to take part in the Supplier Decarbonization Program. In this Program, the suppliers are encouraged to monitor their emissions, set reduction targets in line with science and implement decarbonization projects. In addition to providing suppliers with a free inventory preparation tool, Engie also promotes training and capacity building.

(5.12.6) Expected benefits

Select all that apply

☑ Other, please specify **:**Please see Note 1 in the column 'Please Explain. Through participation in the Program, Gerdau is encouraged to set reduction targets in line with science and implement decarbonization projects.

(5.12.7) Estimated timeframe for realization of benefits

Select from:

☑ > 5 years

(5.12.8) Are you able to estimate the lifetime CO2e and/or water savings of this initiative?

Select from:

☑ No

(5.12.11) Please explain

Note 1: In 2023,Gerdau acquired renewable energy from Engie Brasil Energia. As a result, Gerdau can report a reduction in its Scope 2 emissions (associated with electricity purchases) through the market-based approach. It is important to note that the emissions from Engie should not be considered in Gerdau's Scope 3 but rather reported in Scope 2 under the market-based approach. The emissions related to this acquired energy are not reported in Scope 3 of Engie Brasil Energia, as categories 10 (processing of sold products) and 11 (use of sold products) are not applicable to energy generation companies. Note 2: Engie acquired materials from Gerdau in 2023. The emissions associated with this acquisition were reported in Engie's inventory (category 1 of Scope 3).Concerned with engaging its suppliers of materials and goods on the topic of climate change, Engie Brasil Energia invited some suppliers to participate in the Supplier Decarbonization Program, including Gerdau.
[Add row]

(5.13) Has your organization already implemented any mutually beneficial environmental initiatives due to CDP Supply Chain member engagement?

(5.13.1) Environmental initiatives implemented due to CDP Supply Chain member engagement

Select from:

☑ No, and we do not plan to within the next two years

(5.13.2) Primary reason for not implementing environmental initiatives

Select from:

☑ Not an immediate strategic priority

(5.13.3) Explain why your organization has not implemented any environmental initiatives

Engie already has engagement programs with its suppliers, utilizing mechanisms such as the ESG questionnaire, training, and other initiatives that vary based on the supplier's level of criticality. However, the company is prioritizing the strengthening and scalability of these programs to have a broader impact on its supplier base. Thus, the focus is not limited to specific engagement with the CDP Supply Chain, but rather on a more comprehensive strategy aimed at enhancing the sustainable performance of the entire value chain.
[Fixed row]

C6. Environmental Performance - Consolidation Approach

(6.1) Provide details on your chosen consolidation approach for the calculation of environmental performance data.

Climate change

(6.1.1) Consolidation approach used

Select from:

☑ Operational control

(6.1.2) Provide the rationale for the choice of consolidation approach

Engie Brasil Energia uses the operational control approach to address climate issues, as it allows the company to take direct responsibility for the emissions and environmental performance of the operations under its management. This approach facilitates governance and the implementation of corrective actions, since the company has the authority to make decisions and implement necessary changes to achieve its environmental objectives. This ensures that all environmental practices and policies are applied consistently in the operations under its control, promoting effective environmental management in line with corporate standards. In addition, the operational control approach is fully in line with Engie's organizational structure, where the company exercises control over more than 90% of the assets in its portfolio. This consistency simplifies data collection and environmental performance monitoring, providing a clear and manageable view of the environmental impact of its activities. In this way, Engie is able to continuously monitor and improve its environmental performance, ensuring that its operations make a positive contribution to sustainability and the environment.

Water

(6.1.1) Consolidation approach used

Select from:

☑ Operational control

(6.1.2) Provide the rationale for the choice of consolidation approach

Engie Brasil Energia uses the operational control approach to deal with issues related to water resources, as it allows the company to take direct responsibility for the environmental performance of the operations under its management, especially in the hydroelectric sector. This approach facilitates governance and the implementation of corrective actions, since the company has the authority to make decisions and implement necessary changes to achieve its environmental

objectives. This ensures that all environmental practices and policies are applied consistently in the operations under its control, promoting effective environmental management in line with corporate standards. In addition, the operational control approach is fully in line with Engie's organizational structure, where the company exercises control over the majority of its operations. This consistency simplifies data collection and the monitoring of environmental performance, providing a clear and manageable view of the environmental impact of its activities. In this way, Engie is able to continuously monitor and improve its environmental performance, ensuring that its operations make a positive contribution to sustainability and the environment.

Plastics

(6.1.1) Consolidation approach used

Select from:

☑ Operational control

(6.1.2) Provide the rationale for the choice of consolidation approach

Engie Brasil Energia uses the operational control approach to deal with the issue of plastics in its operations. Although this issue is not currently considered material for the company, the company takes responsibility for waste management practices in the operations under its control, ensuring that its operations meet the environmental standards set by the company. In addition, Engie is aware of the growing importance of the issue of plastics throughout the value chain and is committed to moving forward in identifying the impact of plastics in the upstream, if it identifies a significant risk to its operations or reputation.

Biodiversity

(6.1.1) Consolidation approach used

Select from:

☑ Operational control

(6.1.2) Provide the rationale for the choice of consolidation approach

Engie Brasil Energia uses the operational control approach to deal with biodiversity issues, as it allows the company to take direct responsibility for the environmental performance of the operations under its management. This approach facilitates governance and the implementation of corrective actions, since the company has the authority to make decisions and implement necessary changes to achieve its objectives. This ensures that all related practices and policies are applied consistently in the operations under its control, promoting effective environmental management in line with corporate standards. In addition, the operational control approach is fully in line with Engie's organizational structure, where the company exercises control over the majority of its operations. This consistency simplifies data collection and the monitoring of environmental performance, providing a clear and manageable view of the impact of its activities. In this way, the company is able to continuously monitor and improve its performance, ensuring that its operations make a positive contribution to sustainability.
[Fixed row]

C7. Environmental performance - Climate Change

(7.1) Is this your first year of reporting emissions data to CDP?

Select from:

☑ No

(7.1.1) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

(7.1.1.1) Has there been a structural change?

Select all that apply

☑ Yes, an acquisition

☑ Yes, a divestment

(7.1.1.2) Name of organization(s) acquired, divested from, or merged with

Pampa Sul Thermoelectric Plant (UTPS)

(7.1.1.3) Details of structural change(s), including completion dates

As part of the strategy to decarbonize the portfolio, the sale of the subsidiary Usina Termoelétrica Pampa Sul was completed on May 31, 2023. UTPS emissions were accounted for until May 2023. In addition, in 2023, the Company signed the purchase agreement for all the shares held by Atlas Energia Renovável do Brasil S.A. and Atlas Brasil Energia Holding 2 S.A., for the acquisition of the Juazeiro, São Pedro, Sol do Futuro, Sertão Solar and Lar do Sol photovoltaic complexes, located in the states of Bahia, Minas Gerais and Ceará. The installed capacity of the assets is 545 Mwac. All are in operation, with operating authorizations expiring between 2051 and 2054.
[Fixed row]

(7.1.2) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

(7.1.2.1) Change(s) in methodology, boundary, and/or reporting year definition?

Select all that apply

☑ Yes, a change in boundary

(7.1.2.2) Details of methodology, boundary, and/or reporting year definition change(s)

In line with continuous improvement practices in reporting scope 3 emissions, as recommended by GHG Protocol, in 2023 Engie Brasil Energia began to report new Scope 3 sources: capital goods, purchased goods and services, investments and activities related to fuel and energy not included in Scopes 1 and 2. To avoid inconsistencies in the comparison with previous years, the company recalculated Scope 3 emissions for 2021 and 2022, including the new sources.
[Fixed row]

(7.1.3) Have your organization’s base year emissions and past years’ emissions been recalculated as a result of any changes or errors reported in 7.1.1 and/or 7.1.2?

(7.1.3.1) Base year recalculation

Select from:

☑ Yes

(7.1.3.2) Scope(s) recalculated

Select all that apply

☑ Scope 3

(7.1.3.3) Base year emissions recalculation policy, including significance threshold

To ensure consistency in the inventory records for each year, emissions for 2021 and 2022 have been recalculated. Scope 3 sources are now also reported: Capital goods, purchased goods and services, investments and fuel and energy-related activities not included in Scopes 1 and 2.

(7.1.3.4) Past years' recalculation

Select from:
☑ Yes
[Fixed row]

(7.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Select all that apply
☑ Brazil GHG Protocol Programme
☑ Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019
☑ IPCC Guidelines for National Greenhouse Gas Inventories, 2006
☑ ISO 14064-1

(7.3) Describe your organization's approach to reporting Scope 2 emissions.

(7.3.1) Scope 2, location-based

Select from:
☑ We are not reporting a Scope 2, location-based figure

(7.3.2) Scope 2, market-based

Select from:
☑ We are reporting a Scope 2, market-based figure

(7.3.3) Comment

In 2023, emissions from the purchase and loss of electricity were reduced to zero in the market-based approach due to the use of 100% renewable energy, as evidenced by the issuance of International REC Standard certificates of origin (I-RECs). As a result, scope 2 emissions were reduced to zero in the market-based approach.
[Fixed row]

(7.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

Select from:
☑ No

(7.5) Provide your base year and base year emissions.

Scope 1

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

5430480

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 2 (location-based)

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

11992

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 2 (market-based)

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Category does not apply to base year inventory. ENGIE Brasil Energia reporting based on the market-based approach began in 2023 (from the acquisition of IRECs).

Scope 3 category 1: Purchased goods and services

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

423523

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 2: Capital goods

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

1095216

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

173374

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 4: Upstream transportation and distribution

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

9141

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 5: Waste generated in operations

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

49

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 6: Business travel

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

381

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 7: Employee commuting

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

395

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 8: Upstream leased assets

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia.

Scope 3 category 9: Downstream transportation and distribution

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

6188

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3 category 10: Processing of sold products

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia.

Scope 3 category 11: Use of sold products

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia.

Scope 3 category 12: End of life treatment of sold products

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia.

Scope 3 category 13: Downstream leased assets

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia.

Scope 3 category 14: Franchises

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia.

Scope 3 category 15: Investments

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

103718

(7.5.3) Methodological details

The emissions calculation for the 2021 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).

Scope 3: Other (upstream)

(7.5.1) Base year end

12/31/2021

(7.5.2) Base year emissions (metric tons CO2e)

8

(7.5.3) Methodological details

The category was filled in with the sum of emissions from the treatment of liquid effluents treated outside the organization's boundaries and indirect fugitive emissions.

Scope 3: Other (downstream)

(7.5.1) Base year end

12/31/2024

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

The emissions category does not apply to power generation and transmission operations, which are the types of operations carried out by Engie Brasil Energia. [Fixed row]

(7.6) What were your organization’s gross global Scope 1 emissions in metric tons CO2e?

Reporting year

(7.6.1) Gross global Scope 1 emissions (metric tons CO2e)

211947

(7.6.3) Methodological details

The emissions calculation for the 2023 ENGIE Brasil Energia's inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potential used for the calculations is that published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5).
[Fixed row]

(7.7) What were your organization’s gross global Scope 2 emissions in metric tons CO2e?

Reporting year

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO2e)

0

(7.7.2) Gross global Scope 2, market-based emissions (metric tons CO2e) (if applicable)

0

(7.7.4) Methodological details

In 2023, emissions from the purchase and loss of electricity were reduced to zero in the market-based approach due to the use of 100% renewable energy, as evidenced by the issuance of International REC Standard certificates of origin (I-RECs). As a result, scope 2 emissions were reduced to zero in the market-based approach. The calculation of emissions in ENGIE Brasil Energia's 2023 inventory was carried out using Cerensa software. The software uses emission factors derived from the Brazilian GHG Protocol Program, IPCC and Defra. The global warming potentials used for the calculations are those published by the IPCC Fifth Assessment Report: Climate Change 2013 (AR5). The Sustainability Report presents Scope 2 emissions considering both location-based and market-based approaches, following the recommendations of the GHG Protocol. In the CDP, as selected in question 7.3, ENGIE Brasil Energia reported Scope 2 emissions using the market-based approach.
[Fixed row]

(7.8) Account for your organization’s gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

164905

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Spend-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Emissions that occur throughout the life cycle (extraction, production, and transportation) of goods and services purchased or acquired by the company, which are not accounted for in any other Scope 3 category. A spend-based method was adopted, and the emission factors were obtained from QUANTIS database, as recommended by the GHG Protocol.

Capital goods

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

158954

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Spend-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Emissions that occur throughout the life cycle (extraction, production, and transportation) of capital goods purchased or acquired by the company, which are not accounted for in any other Scope 3 category. A spend-based method was adopted, and the emission factors were obtained from QUANTIS database, as recommended by the GHG Protocol.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

25598

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Emissions that occur throughout the life cycle of fuels and energy purchased, consumed, or sold by the the Company. In other words, it does not account for combustion emissions (reported in Scopes 1 and 2). Emission factors were obtained from Ecoinvent database.

Upstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

5212

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

(7.8.5) Please explain

Mobile combustion emission factors were adopted following the methodologies provided by 'IPCC 2006 – vol. 2 Energy – Chap. 3 Mobile Combustion' and the GHG Protocol Brazil Tool 2024.0.1. In the upstream transport and distribution category, ENGIE Brasil Energia considers rented or contracted vehicles under the control of third parties used to transport people, raw materials, and/or products/by-products funded by the company (cars, ships, and locomotives). Data from suppliers were used for the calculations.

Waste generated in operations

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

2091

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Waste-type-specific method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

(7.8.5) Please explain

Emission factors from waste treatments and disposals were adopted following the methodologies provided by 'IPCC 2006 – vol. 5 Waste – Chap. 3 Solid Waste Disposal / Chap. 4 Biological Treatment of Solid Waste' and by the GHG Protocol Brazil Tool 2024.0.1. ENGIE Brasil Energia considers waste disposed of in landfills, composted, or incinerated in disposal sites not controlled by the company, in addition to accounting for emissions from the anaerobic treatment of liquid effluents within the organization's limits. Proper final disposal is an assumption of waste management carried out by ENGIE Brasil Energia at all its facilities, highlighting the relevance of calculating emissions from waste operations for EBE's considerations within its assumptions, despite this having low numerical significance within total emissions.

Business travel

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

3414

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

(7.8.5) Please explain

Mobile combustion emission factors were adopted following the methodologies provided by “IPCC 2006 – vol. 2 Energy – Chap. 3 Mobile combustion;” and “2020 Government GHG Conversion Factors for Company Reporting: Methodology Paper for Emission Factors (DEFRA 2020)”. ENGIE Brasil Energia measures the emission of air travel and occasional trips by employees in vehicles leased for activities related to the organization's business.

Employee commuting

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

274

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

(7.8.5) Please explain

Mobile combustion emission factors were adopted following the methodologies provided by “IPCC 2006 – vol. 2 Energy – Chap. 3 Mobile combustion” and the GHG Protocol Brazil Tool 2024.0.1 ENGIE Brasil Energia considers this emission as chartered transport used for home-work transport. ENGIE Brasil Energia's greenhouse gas inventory is validated by a third-party company, including Scope 3 emissions.

Upstream leased assets

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Engie Brasil Energia is not a lessor of upstream assets. So, this category is not applicable.

Downstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

This measure is not applicable to ENGIE Brasil Energia, as there were no emissions associated with downstream transportation and distribution in the reporting year. The upstream transportation and distribution is applicable for ENGIE Brasil Energia's inventory and was reported.

Processing of sold products

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Considering that the product sold by ENGIE Brasil Energia is electricity, there is no end-of-life processing and, therefore, this measure is not applicable.

Use of sold products

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

This category is not applicable to ENGIE Brasil Energia, since the product it sells is electricity, which does not generate emissions in its use.

End of life treatment of sold products

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

Considering that the product sold by ENGIE Brasil Energia is electricity, there is no end-of-life treatment and, therefore, this category is not applicable.

Downstream leased assets

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

ENGIE Brasil Energia is not a lessee of downstream assets. So, this category is not applicable.

Franchises

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

ENGIE Brasil Energia does not have deductibles, so the category is not applicable.

Investments

(7.8.1) Evaluation status

Select from:
☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

99317

(7.8.3) Emissions calculation methodology

Select all that apply
☑ Investment-specific method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

(7.8.5) Please explain

Corresponds to the emissions from the operations of TAG (Transportadora Associada de Gás). In 2023, Engie Brasil Energia held a 32.5% stake in TAG. This value was considered in the calculation. On December 28, 2023, the Company announced the sale of 15% of its 32.5% stake in Transportadora Associada de Gás (TAG). Scope 1 and 2 emissions reported by TAG were considered in the calculation.

Other (upstream)

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

11

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Waste-type-specific method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

(7.8.5) Please explain

The category was filled in with the sum of emissions from the treatment of liquid effluents treated outside the organization's boundaries and indirect fugitive emissions. The emissions of the treatment and disposal of waste was reported in another scope 3 category (Waste generated in the operations).

Other (downstream)

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

ENGIE Brasil Energia has no other relevant sources to record.
[Fixed row]

(7.8.1) Disclose or restate your Scope 3 emissions data for previous years.

Past year 1

(7.8.1.1) End date

12/31/2022

(7.8.1.2) Scope 3: Purchased goods and services (metric tons CO2e)

29192

(7.8.1.3) Scope 3: Capital goods (metric tons CO2e)

27650

(7.8.1.4) Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

56665

(7.8.1.5) Scope 3: Upstream transportation and distribution (metric tons CO2e)

4586

(7.8.1.6) Scope 3: Waste generated in operations (metric tons CO2e)

139

(7.8.1.7) Scope 3: Business travel (metric tons CO2e)

941

(7.8.1.8) Scope 3: Employee commuting (metric tons CO2e)

632

(7.8.1.9) Scope 3: Upstream leased assets (metric tons CO2e)

0

(7.8.1.10) Scope 3: Downstream transportation and distribution (metric tons CO2e)

0

(7.8.1.11) Scope 3: Processing of sold products (metric tons CO2e)

0

(7.8.1.12) Scope 3: Use of sold products (metric tons CO2e)

0

(7.8.1.13) Scope 3: End of life treatment of sold products (metric tons CO2e)

0

(7.8.1.14) Scope 3: Downstream leased assets (metric tons CO2e)

0

(7.8.1.15) Scope 3: Franchises (metric tons CO2e)

0

(7.8.1.16) Scope 3: Investments (metric tons CO2e)

91435

(7.8.1.17) Scope 3: Other (upstream) (metric tons CO2e)

3

(7.8.1.18) Scope 3: Other (downstream) (metric tons CO2e)

0

(7.8.1.19) Comment

Note 1: Emissions that do not apply to the 2022 inventory have been reported as zero. Note 2: In Scope 3, category Other (upstream) includes emissions from stationary combustion from a source controlled or owned by the supplier.

Past year 2

(7.8.1.1) End date

12/31/2021

(7.8.1.2) Scope 3: Purchased goods and services (metric tons CO2e)

423523

(7.8.1.3) Scope 3: Capital goods (metric tons CO2e)

1095216

(7.8.1.4) Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

173374

(7.8.1.5) Scope 3: Upstream transportation and distribution (metric tons CO2e)

9141

(7.8.1.6) Scope 3: Waste generated in operations (metric tons CO2e)

49

(7.8.1.7) Scope 3: Business travel (metric tons CO2e)

381

(7.8.1.8) Scope 3: Employee commuting (metric tons CO2e)

395

(7.8.1.9) Scope 3: Upstream leased assets (metric tons CO2e)

0

(7.8.1.10) Scope 3: Downstream transportation and distribution (metric tons CO2e)

6188

(7.8.1.11) Scope 3: Processing of sold products (metric tons CO2e)

0

(7.8.1.12) Scope 3: Use of sold products (metric tons CO2e)

0

(7.8.1.13) Scope 3: End of life treatment of sold products (metric tons CO2e)

0

(7.8.1.14) Scope 3: Downstream leased assets (metric tons CO2e)

0

(7.8.1.15) Scope 3: Franchises (metric tons CO2e)

0

(7.8.1.16) Scope 3: Investments (metric tons CO2e)

103718

(7.8.1.17) Scope 3: Other (upstream) (metric tons CO2e)

8

(7.8.1.18) Scope 3: Other (downstream) (metric tons CO2e)

0

(7.8.1.19) Comment

Note 1: Emissions that do not apply to the 2021 inventory have been reported as zero. Note 2: In Scope 3, category Other (upstream) includes emissions from stationary combustion from a source controlled or owned by the supplier.
[Fixed row]

(7.9) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	*Select from:* ☑ Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	*Select from:* ☑ Third-party verification or assurance process in place

	Verification/assurance status
Scope 3	*Select from:* ☑ Third-party verification or assurance process in place

[Fixed row]

(7.9.1) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Row 1

(7.9.1.1) Verification or assurance cycle in place

Select from:
☑ Annual process

(7.9.1.2) Status in the current reporting year

Select from:
☑ Complete

(7.9.1.3) Type of verification or assurance

Select from:
☑ Limited assurance

(7.9.1.4) Attach the statement

ENGIE_BV_CERTIFICATION 14064-3_2023.pdf

(7.9.1.5) Page/section reference

Page 2

(7.9.1.6) Relevant standard

Select from:
☑ ISO14064-3

(7.9.1.7) Proportion of reported emissions verified (%)

100
[Add row]

(7.9.2) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Row 1

(7.9.2.1) Scope 2 approach

Select from:
☑ Scope 2 location-based

(7.9.2.2) Verification or assurance cycle in place

Select from:
☑ Annual process

(7.9.2.3) Status in the current reporting year

Select from:
☑ Complete

(7.9.2.4) Type of verification or assurance

Select from:

☑ Limited assurance

(7.9.2.5) Attach the statement

ENGIE_BV_CERTIFICATION 14064-3_2023.pdf

(7.9.2.6) Page/ section reference

Page 2

(7.9.2.7) Relevant standard

Select from:

☑ ISO14064-3

(7.9.2.8) Proportion of reported emissions verified (%)

100
[Add row]

(7.9.3) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Row 1

(7.9.3.1) Scope 3 category

Select all that apply

☑ Scope 3: Franchises

☑ Scope 3: Investments

☑ Scope 3: Capital goods

☑ Scope 3: Use of sold products

☑ Scope 3: Upstream leased assets

☑ Scope 3: Downstream leased assets

☑ Scope 3: Business travel
☑ Scope 3: Employee commuting
☑ Scope 3: Waste generated in operations
☑ Scope 3: End-of-life treatment of sold products
☑ Scope 3: Upstream transportation and distribution
☑ Scope 3: Downstream transportation and distribution
☑ Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
☑ Scope 3: Processing of sold products
☑ Scope 3: Purchased goods and services

(7.9.3.2) Verification or assurance cycle in place

Select from:
☑ Annual process

(7.9.3.3) Status in the current reporting year

Select from:
☑ Complete

(7.9.3.4) Type of verification or assurance

Select from:
☑ Limited assurance

(7.9.3.5) Attach the statement

ENGIE_BV_CERTIFICATION 14064-3_2023.pdf

(7.9.3.6) Page/section reference

Page 2

(7.9.3.7) Relevant standard

Select from:

☑ ISO14064-3

(7.9.3.8) Proportion of reported emissions verified (%)

100
[Add row]

(7.10) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Select from:
☑ Decreased

(7.10.1) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

Change in renewable energy consumption

(7.10.1.1) Change in emissions (metric tons CO2e)

18730

(7.10.1.2) Direction of change in emissions

Select from:
☑ Decreased

(7.10.1.3) Emissions value (percentage)

1.7

(7.10.1.4) Please explain calculation

In 2023, emissions from the purchase and loss of electricity were reduced to zero in the market-based approach due to the use of 100% renewable energy, as evidenced by the issuance of International REC Standard certificates of origin (I-RECs).

Other emissions reduction activities

(7.10.1.1) Change in emissions (metric tons CO2e)

329

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

0.03

(7.10.1.4) Please explain calculation

Engie Brasil Energia has targets for a gradual increase in the consumption of renewable fuel by its vehicle fleet. The amount of emissions avoided was calculated as the difference between a scenario in which the fleet uses only gasoline and one in which it uses only ethanol. The scenarios were obtained by multiplying the volume of fuel consumed, the emission factors for each fuel adopted by the GHG Protocol and the average burning efficiency (ethanol has around 70% of the energy efficiency of gasoline).

Divestment

(7.10.1.1) Change in emissions (metric tons CO2e)

1076509

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

98

(7.10.1.4) Please explain calculation

During the process of decarbonizing its portfolio, EBE sold the Pampa Sul Thermoelectric Plant, which covered a large part of the company's emissions. The company now only generates energy from renewable sources. The emissions avoided take into account all of the plant's scope 1 and 2 emissions.

Acquisitions

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Mergers

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Change in output

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Change in methodology

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Change in boundary

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Change in physical operating conditions

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Unidentified

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

There were no significant changes in the issues linked to this category.

Other

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Não ocorreram alterações relevantes nas emissões atreladas a esta categoria.
[Fixed row]

(7.10.2) Are your emissions performance calculations in 7.10 and 7.10.1 based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Select from:

☑ Location-based

(7.12) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Select from:

☑ Yes

(7.12.1) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

	CO2 emissions from biogenic carbon (metric tons CO2)	Comment
	899579	*Scope 1: 898268 tCO2e Scope 3: 1311 tCO2e ENGIE Brasil Energia's biogenic emissions are mostly from biomass thermoelectric power plants.*

[Fixed row]

(7.15) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Select from:

☑ Yes

(7.15.1) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used global warming potential (GWP).

Row 1

(7.15.1.1) Greenhouse gas

Select from:

☑ CO2

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

192303

(7.15.1.3) GWP Reference

Select from:

☑ IPCC Fifth Assessment Report (AR5 – 100 year)

Row 2

(7.15.1.1) Greenhouse gas

Select from:

☑ CH4

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

7613

(7.15.1.3) GWP Reference

Select from:

☑ IPCC Fifth Assessment Report (AR5 – 100 year)

Row 3

(7.15.1.1) Greenhouse gas

Select from:

☑ N2O

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

10273

(7.15.1.3) GWP Reference

Select from:

☑ IPCC Fifth Assessment Report (AR5 – 100 year)

Row 4

(7.15.1.1) Greenhouse gas

Select from:
☑ HFCs

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

543

(7.15.1.3) GWP Reference

Select from:
☑ IPCC Fifth Assessment Report (AR5 – 100 year)

Row 5

(7.15.1.1) Greenhouse gas

Select from:
☑ SF6

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

1215

(7.15.1.3) GWP Reference

Select from:
☑ IPCC Fifth Assessment Report (AR5 – 100 year)
[Add row]

(7.15.3) Break down your total gross global Scope 1 emissions from electric utilities value chain activities by greenhouse gas type.

Fugitives

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

1.77

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0.05

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

1759.99

(7.15.3.5) Comment

Fugitive emissions include refrigerant gases, insulating gases and gases used in fire extinguishers.

Combustion (Electric utilities)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

190266.8

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

270.95

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

208097.22

(7.15.3.5) Comment

Includes combustion in stationary sources.

Combustion (Gas utilities)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

0

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

0

(7.15.3.5) Comment

Not applicable to Engie Brasil Energia's operations.

Combustion (Other)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

339.06

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0.11

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

348.43

(7.15.3.5) Comment

Includes combustion in mobile sources.

Emissions not elsewhere classified

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

1695.18

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

0.81

(7.15.3.3) Gross Scope 1 SF6 emissions (metric tons SF6)

0

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

1741.007

(7.15.3.5) Comment

Includes the other scope 1 categories (process emissions, effluents, agricultural activities, land use change).
[Fixed row]

(7.16) Break down your total gross global Scope 1 and 2 emissions by country/area.

	Scope 1 emissions (metric tons CO2e)
Brazil	*211947*

[Fixed row]

(7.17) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

Select all that apply

☑ By facility

(7.17.2) Break down your total gross global Scope 1 emissions by business facility.

Row 1

(7.17.2.1) Facility

CFPA - Usina Paracatu

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

13

(7.17.2.3) Latitude

-17.219999

(7.17.2.4) Longitude

-47.1

Row 2

(7.17.2.1) Facility

UHCB - Usina Hidrelétrica Cana Brava

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

6

(7.17.2.3) Latitude

-13.401747

(7.17.2.4) Longitude

-48.142442

Row 3

(7.17.2.1) Facility

PHRO - Pequena Central Hidrelétrica Rondonópolis

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

9

(7.17.2.3) Latitude

-16.6536

(7.17.2.4) Longitude

-54.728178

Row 4

(7.17.2.1) Facility

UHSS - Usina Hidrelétrica Salto Santiago

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

9

(7.17.2.3) Latitude

-25.629214

(7.17.2.4) Longitude

-52.615497

Row 5

(7.17.2.1) Facility

UHPP - Usina Hidrelétrica Ponte de Pedra

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

115

(7.17.2.3) Latitude

-17.588011

(7.17.2.4) Longitude

-54.907847

Row 6

(7.17.2.1) Facility

PHJG - Pequena Central Hidrelétrica José Gelásio da Rocha

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

154

(7.17.2.3) Latitude

-16.669942

(7.17.2.4) Longitude

-54.740808

Row 7

(7.17.2.1) Facility

UTIB - Usina Termelétrica Ibitiúva

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

3687

(7.17.2.3) Latitude

-21.002744

(7.17.2.4) Longitude

-48.289669

Row 9

(7.17.2.1) Facility

UFCA - Usina Solar Fotovoltaica Cidade Azul

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0.06

(7.17.2.3) Latitude

-28.447778

(7.17.2.4) Longitude

-48.974722

Row 12

(7.17.2.1) Facility

SEDE - Sede ENGIE Brasil Energia S.A

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

443

(7.17.2.3) Latitude

-27.573609

(7.17.2.4) Longitude

-48.52848

Row 13

(7.17.2.1) Facility

STNE - Sistema de transmissão Novo Estado

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

1006

(7.17.2.3) Latitude

-6.08043

(7.17.2.4) Longitude

-49.683942

Row 14

(7.17.2.1) Facility

UHPF - Usina Hidrelétrica Passo Fundo

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

4

(7.17.2.3) Latitude

-27.479725

(7.17.2.4) Longitude

-52.718433

Row 15

(7.17.2.1) Facility

CETR - Conjunto Eólico Trairi

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

46

(7.17.2.3) Latitude

-3.241458

(7.17.2.4) Longitude

-39.292769

Row 17

(7.17.2.1) Facility

CFFL - Usina Solar Fotovoltaica Floresta

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

7

(7.17.2.3) Latitude

-5.94

(7.17.2.4) Longitude

-35.2

Row 18

(7.17.2.1) Facility

UCLA - Unidade de Cogeração Lages

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

810

(7.17.2.3) Latitude

-27.807819

(7.17.2.4) Longitude

-50.371883

Row 19

(7.17.2.1) Facility

CECL - Central Eólica Campo Largo

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

75

(7.17.2.3) Latitude

-10.454546

(7.17.2.4) Longitude

-41.465814

Row 20

(7.17.2.1) Facility

UHMI - Usina Hidrelétrica Miranda

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

10

(7.17.2.3) Latitude

-18.909425

(7.17.2.4) Longitude

-48.042392

Row 21

(7.17.2.1) Facility

Usina Eólica Tubarão

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

(7.17.2.3) Latitude

-48.98

(7.17.2.4) Longitude

-28.45

Row 22

(7.17.2.1) Facility

UTFE - Usina Termelétrica Ferrari

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

12587

(7.17.2.3) Latitude

-21.844142

(7.17.2.4) Longitude

-47.359879

Row 23

(7.17.2.1) Facility

STGA - Sistema de Transmissão Gralha Azul

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

28

(7.17.2.3) Latitude

-25.091165

(7.17.2.4) Longitude

-50.322717

Row 24

(7.17.2.1) Facility

UTPS - Usina Termelétrica Pampa Sul

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

192599

(7.17.2.3) Latitude

-31.450389

(7.17.2.4) Longitude

-53.777083

Row 25

(7.17.2.1) Facility

CEUR - Central Eólica Umburanas

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

92

(7.17.2.3) Latitude

-10.590515

(7.17.2.4) Longitude

-41.471364

Row 26

(7.17.2.1) Facility

FVAE - Central Fotovoltaica Assú V

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

11

(7.17.2.3) Latitude

-5.565949

(7.17.2.4) Longitude

-37.029511

Row 27

(7.17.2.1) Facility

UHSO - Usina Hidrelétrica Salto Osório

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

51

(7.17.2.3) Latitude

-25.538175

(7.17.2.4) Longitude

-53.009703

Row 28

(7.17.2.1) Facility

UHJA - Usina Hidrelétrica Jaguara

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

66

(7.17.2.3) Latitude

-20.022344

(7.17.2.4) Longitude

-47.434342

Row 29

(7.17.2.1) Facility

UHSA - Usina Hidrelétrica São Salvador

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

58

(7.17.2.3) Latitude

-12.807689

(7.17.2.4) Longitude

-48.237092

Row 30

(7.17.2.1) Facility

UHET - Companhia Energética Estreito

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

(7.17.2.3) Latitude

-6.589371

(7.17.2.4) Longitude

-47.467946

Row 31

(7.17.2.1) Facility

UHMA - Usina Hidrelétrica Machadinho

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

(7.17.2.3) Latitude

-27.527687

(7.17.2.4) Longitude

-51.789826

Row 32

(7.17.2.1) Facility

UHIT - Usina Hidrelétrica Itá

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

(7.17.2.3) Latitude

-27.282894

(7.17.2.4) Longitude

-52.390933
[Add row]

(7.19) Break down your organization’s total gross global Scope 1 emissions by sector production activity in metric tons CO2e.

	Gross Scope 1 emissions, metric tons CO2e	Comment
Electric utility activities	*211947*	*ENGIE Brasil Energia does not operate in other sectors.*

[Fixed row]

(7.22) Break down your gross Scope 1 and Scope 2 emissions between your consolidated accounting group and other entities included in your response.

Consolidated accounting group

(7.22.1) Scope 1 emissions (metric tons CO2e)

211947

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

0

(7.22.4) Please explain

The renewable sources of the energy consumed were proven through the purchase of I-RECs, so the company had zero emissions for scope 2 in the market-based approach.

All other entities

(7.22.1) Scope 1 emissions (metric tons CO2e)

0

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

0

(7.22.4) Please explain

ENGIE Brasil Energia has no other entities to include.
[Fixed row]

(7.23) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

Select from:
☑ Not relevant as we do not have any subsidiaries

(7.26) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Row 1

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:
☑ Scope 1

(7.26.4) Allocation level

Select from:
☑ Company wide

(7.26.6) Allocation method

Select from:
☑ Allocation based on another physical factor

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:
☑ Megawatt hours (MWh)

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

350400

(7.26.9) Emissions in metric tonnes of CO2e

0

(7.26.10) Uncertainty (±%)

6

(7.26.11) Major sources of emissions

In 2023, Gerdau had a renewable energy purchase contract (from a hydroelectric plant) in force with ENGIE Brasil Energia. In this asset, the largest source of scope 1 emissions was fugitive emissions, followed by mobile combustion.

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The calculation is made by measuring the emissions per MWh generated by Engie Brasil Energia, followed by multiplying the factor obtained by the amount of energy in MWh sold to Gerdau in 2023. As the energy was generated by renewable sources, the emission is zero and should be computed in Gerdau's scope 2 (market approach). ENGIE BRASIL ENERGIA has no emissions associated with customers in scope 3 (categories 10 - processing of sold products- and 11 - use of sold products- are not applicable to electricity generators and transmitters).

(7.26.14) Where published information has been used, please provide a reference

No reference.
[Add row]

(7.27) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Row 1

(7.27.1) Allocation challenges

Select from:

☑ Other, please specify **:**Cat 10 and 11 of Scope 3 are not applicable to energy generation and transmission companies.In other words, Engie should not allocate emissions to customers (emissions from electricity purchases correspond to the customer's Scope 2, not Scope 3)

(7.27.2) Please explain what would help you overcome these challenges

The GHG emissions associated with electricity consumption and transmission losses by the companies that purchase electricity from Engie Brasil Energia should be allocated to the scope 2 of these companies and not to scope 3. For this reason, questions 7.26 (note that emissions that you allocate will be your customers' Scope 3 emissions) and 7.27 are not applicable.
[Add row]

(7.28) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

(7.28.1) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Select from:

☑ No

(7.28.3) Primary reason for no plans to develop your capabilities to allocate emissions to your customers

Select from:

☑ Other, please specify **:**GHG emissions associated with electricity consumption and transmission losses by companies that purchase electricity from Engie should be allocated to those companies' Scope 2 and not Scope 3. Questions 7.26, 7.27, and 7.28 are not applicable.

(7.28.4) Explain why you do not plan to develop capabilities to allocate emissions to your customers

The GHG emissions associated with electricity consumption and transmission losses by the companies that purchase electricity from Engie Brasil Energia should be allocated to the scope 2 of these companies and not to scope 3. For this reason, questions 7.26 (note that emissions that you allocate will be your customers' Scope 3 emissions), 7.27 and 7.28 are not applicable.
[Fixed row]

(7.29) What percentage of your total operational spend in the reporting year was on energy?

Select from:
☑ More than 0% but less than or equal to 5%

(7.30) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	*Select from:* ☑ Yes
Consumption of purchased or acquired electricity	*Select from:* ☑ Yes
Consumption of purchased or acquired heat	*Select from:* ☑ No
Consumption of purchased or acquired steam	*Select from:* ☑ No
Consumption of purchased or acquired cooling	*Select from:* ☑ No
Generation of electricity, heat, steam, or cooling	*Select from:* ☑ Yes

[Fixed row]

(7.30.1) Report your organization’s energy consumption totals (excluding feedstocks) in MWh.

Consumption of fuel (excluding feedstock)

(7.30.1.1) Heating value

Select from:

☑ LHV (lower heating value)

(7.30.1.2) MWh from renewable sources

2512418

(7.30.1.3) MWh from non-renewable sources

59008

(7.30.1.4) Total (renewable and non-renewable) MWh

2571427

Consumption of purchased or acquired electricity

(7.30.1.1) Heating value

Select from:

☑ LHV (lower heating value)

(7.30.1.2) MWh from renewable sources

495702

(7.30.1.3) MWh from non-renewable sources

0

(7.30.1.4) Total (renewable and non-renewable) MWh

495702

Consumption of self-generated non-fuel renewable energy

(7.30.1.1) Heating value

Select from:
☑ LHV (lower heating value)

(7.30.1.2) MWh from renewable sources

43051166

(7.30.1.4) Total (renewable and non-renewable) MWh

43051166

Total energy consumption

(7.30.1.1) Heating value

Select from:
☑ LHV (lower heating value)

(7.30.1.2) MWh from renewable sources

46059286

(7.30.1.3) MWh from non-renewable sources

59008

(7.30.1.4) Total (renewable and non-renewable) MWh

46118294
[Fixed row]

(7.30.6) Select the applications of your organization’s consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	*Select from:* ☑ Yes
Consumption of fuel for the generation of heat	*Select from:* ☑ No
Consumption of fuel for the generation of steam	*Select from:* ☑ No
Consumption of fuel for the generation of cooling	*Select from:* ☑ No
Consumption of fuel for co-generation or tri-generation	*Select from:* ☑ Yes

[Fixed row]

(7.30.7) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

(7.30.7.1) Heating value

Select from:
☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

2511729

(7.30.7.3) MWh fuel consumed for self-generation of electricity

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

2511729

(7.30.7.8) Comment

Engie uses sustainable biomass as a primary source for electricity generation in its operations. The biomass used comes from renewable sources (sugarcane and wood), ensuring a cleaner energy mix aligned with the company's transition principles.

Other biomass

(7.30.7.1) Heating value

Select from:

☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

690

(7.30.7.3) MWh fuel consumed for self-generation of electricity

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

690

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Other types of biomass have been used as an energy source by Engie. This includes the consumption of ethanol.

Other renewable fuels (e.g. renewable hydrogen)

(7.30.7.1) Heating value

Select from:
☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.3) MWh fuel consumed for self-generation of electricity

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Although Engie is assessing the potential of renewable fuels such as green hydrogen, there was no consumption of other sources in this category during the reporting period. The company continues to invest in innovation to integrate these fuels into its energy matrix in the future.

Coal

(7.30.7.1) Heating value

Select from:
☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

52313

(7.30.7.3) MWh fuel consumed for self-generation of electricity

52313

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Coal was used for electricity generation at the Pampa Sul Thermoelectric Plant, which was sold in May 2023. It represented a smaller share of the company's total energy mix. From May 2023 onwards, Engie Brasil Energia no longer has any coal-fired thermoelectric plants in its portfolio, which is now 100% comprised of renewable sources.

Oil

(7.30.7.1) Heating value

Select from:
☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

6693

(7.30.7.3) MWh fuel consumed for self-generation of electricity

5033

(7.30.7.4) MWh fuel consumed for self-generation of heat

1660

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

There was consumption of diesel and gasoline in the vehicle and machinery fleet. Engie seeks to minimize the use of oil in its operations, favoring lower-carbon alternatives whenever possible.

Gas

(7.30.7.1) Heating value

Select from:
☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

2

(7.30.7.3) MWh fuel consumed for self-generation of electricity

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

2

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Gas consumption was not significant during the reporting period, being used exclusively in the gas-powered vehicle fleet and in cafeterias (LPG). Engie continues to prioritize lower environmental impact fuels, especially renewable sources, to replace gas.

Other non-renewable fuels (e.g. non-renewable hydrogen)

(7.30.7.1) Heating value

Select from:

☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.3) MWh fuel consumed for self-generation of electricity

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

There was no consumption of other non-renewable fuels during the reporting period. Engie prioritizes the use of renewable sources and is committed to reducing dependence on fossil fuels.

Total fuel

(7.30.7.1) Heating value

Select from:

☑ LHV

(7.30.7.2) Total fuel MWh consumed by the organization

2571427

(7.30.7.3) MWh fuel consumed for self-generation of electricity

57347

(7.30.7.4) MWh fuel consumed for self-generation of heat

2351

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

2511729

(7.30.7.8) Comment

The total fuel consumption reflects Engie Brasil Energia's strategy for transitioning to a more sustainable energy matrix, focusing on increasing the use of sustainable biomass and gradually reducing fossil fuels. From May 2023 onwards, 100% of the energy generated came from renewable sources, aligned with the company's sustainability goals and climate change mitigation efforts.
[Fixed row]

(7.30.16) Provide a breakdown by country/area of your electricity/heat/steam/cooling consumption in the reporting year.

Brazil

(7.30.16.1) Consumption of purchased electricity (MWh)

495702

(7.30.16.2) Consumption of self-generated electricity (MWh)

43051166

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

43546868.00
[Fixed row]

(7.33) Does your electric utility organization have a transmission and distribution business?

Select from:
☑ Yes

(7.33.1) Disclose the following information about your transmission and distribution business.

Row 1

(7.33.1.1) Country/area/region

Select from:
☑ Brazil

(7.33.1.2) Voltage level

Select from:

☑ Transmission (high voltage)

(7.33.1.3) Annual load (GWh)

0

(7.33.1.4) Annual energy losses (% of annual load)

0.63

(7.33.1.5) Scope where emissions from energy losses are accounted for

Select from:

☑ Scope 2 (market-based)

(7.33.1.6) Emissions from energy losses (metric tons CO2e)

0

(7.33.1.7) Length of network (km)

909

(7.33.1.8) Number of connections

41

(7.33.1.9) Area covered (km2)

104.4

(7.33.1.10) Comment

Corresponds to the Transmission line of the Gralha Azul System (located in Paraná). As it is a transmission system, it does not have annual load data (annual electricity delivered to the grid system by the generating units, expressed in GWh).

Row 3

(7.33.1.1) Country/area/region

Select from:

☑ Brazil

(7.33.1.2) Voltage level

Select from:

☑ Transmission (high voltage)

(7.33.1.3) Annual load (GWh)

0

(7.33.1.4) Annual energy losses (% of annual load)

1.9

(7.33.1.5) Scope where emissions from energy losses are accounted for

Select from:

☑ Scope 2 (market-based)

(7.33.1.6) Emissions from energy losses (metric tons CO2e)

0

(7.33.1.7) Length of network (km)

1800

(7.33.1.8) Number of connections

10

(7.33.1.9) Area covered (km2)

48

(7.33.1.10) Comment

Corresponds to the Transmission line of the New State System (located in Pará and Tocantins). As it is a transmission system, it does not have annual load data (annual electricity delivered to the grid system by the generating units, expressed in GWh).
[Add row]

(7.45) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Row 1

(7.45.1) Intensity figure

0.008

(7.45.2) Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

211946.64

(7.45.3) Metric denominator

Select from:
☑ megawatt hour generated (MWh)

(7.45.4) Metric denominator: Unit total

26511539

(7.45.5) Scope 2 figure used

Select from:

☑ Market-based

(7.45.6) % change from previous year

81

(7.45.7) Direction of change

Select from:

☑ Decreased

(7.45.8) Reasons for change

Select all that apply

☑ Change in renewable energy consumption

☑ Other emissions reduction activities

☑ Divestment

(7.45.9) Please explain

The reduction in greenhouse gas emissions was mainly due to: (i) Implementation of mitigation projects (such as replacing fossil fuels with renewable fuels in the vehicle fleet); (ii) Changes in the consumption of renewable energy (as of 2023, 100% of the energy purchased came from renewable sources, the origin of the energy being proven through the purchase of I-RECs). (iii) Divestments (emissions from the Pampa Sul coal-fired power plant were accounted for until May 2023, when it was sold).

Row 2

(7.45.1) Intensity figure

0.00002

(7.45.2) Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

211946.64

(7.45.3) Metric denominator

Select from:

☑ unit total revenue

(7.45.4) Metric denominator: Unit total

10747784

(7.45.5) Scope 2 figure used

Select from:

☑ Market-based

(7.45.6) % change from previous year

79

(7.45.7) Direction of change

Select from:

☑ Decreased

(7.45.8) Reasons for change

Select all that apply

☑ Change in renewable energy consumption

☑ Other emissions reduction activities

☑ Divestment

(7.45.9) Please explain

The reduction in greenhouse gas emissions was mainly due to: (i) Implementation of mitigation projects (such as replacing fossil fuels with renewable fuels in the vehicle fleet); (ii) Changes in the consumption of renewable energy (as of 2023, 100% of the energy purchased was from renewable sources, the origin of the energy being proven through the purchase of I-RECs). (iii) Divestments (emissions from the Pampa Sul coal-fired power plant were accounted for until May 2023, when it was sold).
[Add row]

(7.46) For your electric utility activities, provide a breakdown of your Scope 1 emissions and emissions intensity relating to your total power plant capacity and generation during the reporting year by source.

Coal – hard

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

192599

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.3) Scope 1 emissions intensity (Gross generation)

912.79

(7.46.4) Scope 1 emissions intensity (Net generation)

1024.46

Sustainable biomass

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

17084

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

☑ Net

(7.46.3) Scope 1 emissions intensity (Gross generation)

33.90

(7.46.4) Scope 1 emissions intensity (Net generation)

44.61

Hydropower

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

483

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

☑ Net

(7.46.3) Scope 1 emissions intensity (Gross generation)

0.01

(7.46.4) Scope 1 emissions intensity (Net generation)

0.01

Wind

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

212

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

☑ Net

(7.46.3) Scope 1 emissions intensity (Gross generation)

0.04

(7.46.4) Scope 1 emissions intensity (Net generation)

0.04

Solar

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

30

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

☑ Net

(7.46.3) Scope 1 emissions intensity (Gross generation)

0.06

(7.46.4) Scope 1 emissions intensity (Net generation)

0.06

Total

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

210409

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

4.91
[Fixed row]

(7.52) Provide any additional climate-related metrics relevant to your business.

Row 1

(7.52.1) Description

Select from:

☑ Waste

(7.52.2) Metric value

122.4

(7.52.3) Metric numerator

Recycling hazardous waste (t)

(7.52.4) Metric denominator (intensity metric only)

It is not an intensity metric.

(7.52.5) % change from previous year

194.2

(7.52.6) Direction of change

Select from:

☑ Increased

(7.52.7) Please explain

ENGIE Brasil Energia achieved three positive advances in 2023 compared to 2022: (i) decrease in the total volume of waste generated; (ii) an increase in waste returned to the supplier (reverse logistics) instead of going to landfill; (iii) increase in co-processed waste instead of going to landfill.

Row 2

(7.52.1) Description

Select from:

☑ Waste

(7.52.2) Metric value

126

(7.52.3) Metric numerator

Co-processing of hazardous waste (t)

(7.52.4) Metric denominator (intensity metric only)

It is not an intensity metric.

(7.52.5) % change from previous year

157.1

(7.52.6) Direction of change

Select from:

☑ Increased

(7.52.7) Please explain

ENGIE Brasil Energia achieved three positive advances in 2023 compared to 2022: (i) decrease in the total volume of waste generated; (ii) an increase in waste returned to the supplier (reverse logistics) instead of going to landfill (iii) increase in co-processed waste instead of going to landfill

Row 3

(7.52.1) Description

Select from:

☑ Energy usage

(7.52.2) Metric value

20238

(7.52.3) Metric numerator

Total grid electricity consumption (MWh)

(7.52.4) Metric denominator (intensity metric only)

It is not an intensity metric.

(7.52.5) % change from previous year

32

(7.52.6) Direction of change

Select from:

☑ Decreased

(7.52.7) Please explain

Until May 2023, the largest portion of the company's energy consumption (direct and indirect) was related to the operation of the Pampa Sul Thermoelectric Power Plant. With the exit of this plant from the asset portfolio, there was a significant reduction in total energy consumption compared to the previous year. In addition, ENGIE Brasil Energia met its target of increasing its renewable energy generation capacity (100% from May 2023), significantly reducing the energy consumption required to operate the assets. In addition, the company adopted several initiatives that led to energy efficiency gains, reducing electricity consumption from the grid. It is important to note that ENGIE Brasil Energia acquired I-RECs to offset all electricity consumed from the grid in 2023, and for this reason, Scope 2 emissions are zero under the market-based approach.
[Add row]

(7.53) Did you have an emissions target that was active in the reporting year?

Select all that apply
☑ Absolute target
☑ Intensity target

(7.53.1) Provide details of your absolute emissions targets and progress made against those targets.

Row 1

(7.53.1.1) Target reference number

Select from:
☑ Abs 1

(7.53.1.2) Is this a science-based target?

Select from:
☑ Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

(7.53.1.4) Target ambition

Select from:

☑ 1.5°C aligned

(7.53.1.5) Date target was set

12/31/2019

(7.53.1.6) Target coverage

Select from:

☑ Organization-wide

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

☑ Carbon dioxide (CO2)

☑ Perfluorocarbons (PFCs)

☑ Hydrofluorocarbons (HFCs)

☑ Sulphur hexafluoride (SF6)

☑ Nitrogen trifluoride (NF3)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

☑ Scope 3

(7.53.1.9) Scope 2 accounting method

Select from:

☑ Market-based

(7.53.1.10) Scope 3 categories

Select all that apply

☑ Other (upstream)
☑ Scope 3, Category 15 – Investments
☑ Scope 3, Category 2 – Capital goods
☑ Scope 3, Category 6 – Business travel
☑ Scope 3, Category 7 – Employee commuting
☑ Scope 3, Category 1 – Purchased goods and services
☑ Scope 3, Category 5 – Waste generated in operations
☑ Scope 3, Category 4 – Upstream transportation and distribution
☑ Scope 3, Category 9 – Downstream transportation and distribution
☑ Scope 3, Category 3 – Fuel- and energy- related activities (not included in Scope 1 or 2)

(7.53.1.11) End date of base year

12/30/2017

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

4403996.75

(7.53.1.13) Base year Scope 2 emissions covered by target (metric tons CO2e)

17926.97

(7.53.1.14) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

0

(7.53.1.15) Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

0

(7.53.1.16) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

6.69

(7.53.1.17) Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

7219.18

(7.53.1.18) Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

203.96

(7.53.1.19) Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

891.59

(7.53.1.20) Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

265.32

(7.53.1.22) Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

7326.54

(7.53.1.28) Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

0

(7.53.1.29) Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

0

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

15913.280

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

4437837.000

(7.53.1.33) Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

(7.53.1.34) Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

(7.53.1.35) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

100

(7.53.1.36) Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

100

(7.53.1.37) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

100

(7.53.1.38) Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

100

(7.53.1.39) Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

100

(7.53.1.40) Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

100

(7.53.1.41) Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

100

(7.53.1.43) Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

100

(7.53.1.49) Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

100

(7.53.1.50) Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

100

(7.53.1.52) Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

100

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

(7.53.1.54) End date of target

12/30/2045

(7.53.1.55) Targeted reduction from base year (%)

90

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

443783.700

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

211946.64

(7.53.1.58) Scope 2 emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.59) Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

164904.82

(7.53.1.60) Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

158954.24

(7.53.1.61) Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

25598.11

(7.53.1.62) Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

5211.88

(7.53.1.63) Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

2091.46

(7.53.1.64) Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

3414.35

(7.53.1.65) Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

273.91

(7.53.1.67) Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.73) Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

99316.52

(7.53.1.74) Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

10.98

(7.53.1.76) Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

459776.270

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

671722.910

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ Yes, it covers land-related and non-land related emissions (e.g. SBT approved before the release of FLAG target-setting guidance)

(7.53.1.79) % of target achieved relative to base year

94.29

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

The Group aims to achieve Net Zero Carbon by 2045 for all its emissions scopes (123). Engie Brasil Energia's main task is to achieve Net Zero Carbon by 2045, following a trajectory aligned with global targets while studying and evaluating certification from the SBT initiative and strive to ensure proportionality of targets relative to their operational limits. While Engie Brasil Energia's invests in renewable, it also carries out emission reduction actions including the demobilization and sale of five thermoelectric plants from 2013 to 2023: Charqueadas, Alegrete, William Arjona, Jorge Lacerda and Pampa Sul. The emissions from Pampa Sul were accounted for up until the date of its disposal, on May 2023. With this, ENGIE Brasil Energia has consolidated its strategy to remove coal operations from its portfolio and become a 100% renewable energy producer. Engie Brasil Energia is confident in the ability to decrease emissions further and align with the Group's global targets, contributing to the Net Zero Carbon goal by 2045. The company also ensures proportionality with their parent company's emissions, reinforcing their commitment to environmental responsibility. The target comprises all the GHG gases (Engie Brasil Energia, in 2023, did not have any emission sources associated with NF3 e PFC).

(7.53.1.83) Target objective

The target objective is to engage the Group and its subsidiaries, such as Engie Brasil Energia, on a Net Zero objective to contribute to global carbon neutrality within the respect of the Paris Agreements. We consider this target to be science-based as validated by Moody's Net Zero assessment to be compliant with IEA NZE. Indeed, IEA is asking power sector companies to achieve Net Zero by 2040 but ENGIE Group is half a power sector company, half an oil&gas company for which Net Zero target is 2050 at maximum. The Group aims to achieve Net Zero Carbon by 2045 for all its emissions scopes (123), with a trajectory targeting well-below 2C by 2030. Engie Brasil Energia's main task is to achieve Net Zero Carbon by 2045, following a trajectory aligned with global targets while studying and evaluating certification from the SBT initiative and strive to ensure proportionality of targets relative to their operational limits.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

ENGIE's plan for achieving the target relies on the following decarbonization levers according the different scope of emissions: • Energy production:Coal phase-out by 2025 in Europe and by 2027 worldwide; Reduction and greening of gas consumption;Renewable heat;Energy Efficiency • Energy consumption:Consumption of green electricity • Energy sales:Sale of green and low-carbon electricity;Reduction and greening of gas sales;Energy efficiency and sufficiency•Methane emissions:Modification of industrial security technologies;Reduction of venting and flaring•Ways of working:Energy sufficiency of buildings;Low-carbon service and company vehicles;Reduction of air travel;Development of soft mobility•Procurement: incentives to the top 250 preferred suppliers to be SBTi certified or aligned./Progress made:ENGIE is on track to achieve the target as progress is linear to logarithmic with 43,39% of target achieved in 7 years and 11 years remaining to achieve the rest. For Engie Brasil Energia,the contribution to achieving the trajectory established by the ENGIE Group is mainly through the reduction of emissions from energy production. On this front, at the end of May 2023,Engie Brasil Energia reached 100% of renewable sources comprising the generating complex, the result of the ongoing process of decarbonization of its portfolio and the strategy of prioritizing investments in assets from renewable sources of energy.The sale of the coal thermal powerplant took place a business driven by our vision for the future in order to enable a gradual and fair transition for the region's economy-reducing local socioeconomic impacts that could be generated by the abrupt discontinuation of these operations.A Companhia assinou,em 2023, contrato de compra dos Conjuntos Fotovoltaicos Juazeiro,São Pedro,Sol do Futuro,Sertão Solar e Lar do Sol,localizados nos estados da Bahia,Minas Gerais e Ceará.In line with our efforts to support other companies to decarbonize their operations,we have registered significant growth in adherence to contracts with guaranteed origin,renewable energy certificates and carbon credits.This way,we continue to monitor the developments necessary for the evolution of the carbon market in the country,based on the important definitions established by COP26–United Nations Conference on Climate Change.//Progress made: Engie Brasil Energia is on track to achieve the target, with more than 85% of target achieved in the reporting year (target year: 2045).

(7.53.1.85) Target derived using a sectoral decarbonization approach

Select from:

☑ Yes

Row 3

(7.53.1.1) Target reference number

Select from:

☑ Abs 2

(7.53.1.2) Is this a science-based target?

Select from:

☑ Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

(7.53.1.4) Target ambition

Select from:

☑ 1.5°C aligned

(7.53.1.5) Date target was set

07/22/2023

(7.53.1.6) Target coverage

Select from:

☑ Organization-wide

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

☑ Carbon dioxide (CO2)

☑ Perfluorocarbons (PFCs)

☑ Hydrofluorocarbons (HFCs)

☑ Sulphur hexafluoride (SF6)

☑ Nitrogen trifluoride (NF3)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 3

(7.53.1.10) Scope 3 categories

Select all that apply

☑ Other (upstream)

☑ Scope 3, Category 15 – Investments

☑ Scope 3, Category 2 – Capital goods

☑ Scope 3, Category 6 – Business travel

☑ Scope 3, Category 1 – Purchased goods and services

☑ Scope 3, Category 5 – Waste generated in operations

☑ Scope 3, Category 4 – Upstream transportation and distribution

☑ Scope 3, Category 9 – Downstream transportation and distribution

☑ Scope 3, Category 7 – Employee commuting

☑ Scope 3, Category 3 – Fuel- and energy- related activities (not included in Scope 1 or 2)

(7.53.1.11) End date of base year

12/30/2017

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

4403289.31

(7.53.1.14) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

0

(7.53.1.15) Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

0

(7.53.1.16) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

6.69

(7.53.1.17) Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

7219.18

(7.53.1.18) Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

203.96

(7.53.1.19) Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

851.59

(7.53.1.20) Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

265.32

(7.53.1.22) Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

7326.54

(7.53.1.28) Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

0

(7.53.1.29) Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

0

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

15873.280

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

4419162.590

(7.53.1.33) Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

99.98

(7.53.1.35) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

100

(7.53.1.36) Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

100

(7.53.1.37) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

100

(7.53.1.38) Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

100

(7.53.1.39) Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

100

(7.53.1.40) Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

100

(7.53.1.41) Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

100

(7.53.1.43) Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

100

(7.53.1.49) Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

100

(7.53.1.50) Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

100

(7.53.1.52) Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

100

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

99.58

(7.53.1.54) End date of target

12/30/2030

(7.53.1.55) Targeted reduction from base year (%)

58

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

1856048.288

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

208097.22

(7.53.1.59) Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

164904.82

(7.53.1.60) Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

158954.24

(7.53.1.61) Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

18139.36

(7.53.1.62) Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

5211.88

(7.53.1.63) Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

2091.46

(7.53.1.64) Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

3414.35

(7.53.1.65) Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

273.91

(7.53.1.67) Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.73) Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

99316.52

(7.53.1.74) Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

10.98

(7.53.1.76) Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

452317.520

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

660414.740

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

146.65

(7.53.1.80) Target status in reporting year

Select from:

☑ Achieved

(7.53.1.82) Explain target coverage and identify any exclusions

This target of ENGIE Group comprises energy generation and methane emissions (other emissions mainly due to on-site generators and mobile combustion are not included within the Group target as minor compared to other sources of emissions). The scope 3.3 is covering only Scope 3.3.A, 3.3.B and 3.3.C, as emissions due to energy sold is covered by the intensity target. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the emission values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company (Scope 1 considers only energy generation, representated by the stationary combustion; Scope 3 considers all the categories, excluding 3.3.D.). Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals are presented. The target comprises all the GHG gases (Engie Brasil Energia, in 2023, did not have any emission sources associated with NF3 e PFC).

(7.53.1.83) Target objective

The objective of this target, is along with our intensity target, to cover 99% of ENGIE Group's GHG footprint to make sure that the Group is following, in the near-term, a decarbonization pathway compliant with the Paris Agreement. We consider this target to be 1.5C science-based as validated by Moody's Net Zero Assessment to be compliant with IEA NZE. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the emission values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals are presented. ENGIE's reduction activities in meeting the target will result in lower emission factors in countries where it operates and consumed electricity and heat. On this front, from may 2023, ENGIE Brasil Energia has consolidated its strategy to remove coal operations from its portfolio and become a 100% renewable energy producer.

(7.53.1.85) Target derived using a sectoral decarbonization approach

Select from:

☑ Yes

(7.53.1.86) List the emissions reduction initiatives which contributed most to achieving this target

The target is mainly based on the planned withdrawal from coal by 2025 in Europe and by 2027 in the rest of the world. The Engie Group presented its plan to withdraw from coal by 2027. To deliver on this plan, ENGIE will first prioritize the closure of these sites, then their conversion to lowcarbon energy, and will lastly dispose of them, if it is impossible to close or convert them due to local restrictions. In line with the goal set, ENGIE Brasil Energia contributes to achieving the trajectory established by the ENGIE Group mainly through the reduction of emissions from energy production. By May 2023 Engie Brasil Energia reached 100% of renewable sources comprising our generating complex, a historic milestone that is the result of the ongoing process of decarbonization of ENGIE's portfolio in Brazil. We also have projects at an advanced stage of development that total 2 GW of renewable energy. In line with our efforts to support other companies to decarbonize their operations, we have registered significant growth in adherence to contracts with guaranteed origin, renewable energy certificates and carbon credits. This way, we continue to monitor the developments necessary for the evolution of the carbon market in the country, based on the important definitions established by COP26 – United Nations Conference on Climate Change. The Group is working on new and even more ambitious decarbonization targets with a view to well-below 2C certification, which ENGIE Brasil Energia will be directly involved.

Row 4

(7.53.1.1) Target reference number

Select from:

☑ Abs 3

(7.53.1.2) Is this a science-based target?

Select from:

☑ Yes, and this target has been approved by the Science Based Targets initiative

(7.53.1.3) Science Based Targets initiative official validation letter

SBTi certification_Engie Brasil Energia.pdf

(7.53.1.4) Target ambition

Select from:

☑ Well-below 2°C aligned

(7.53.1.5) Date target was set

01/31/2023

(7.53.1.6) Target coverage

Select from:

☑ Organization-wide

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

☑ Sulphur hexafluoride (SF6)

☑ Nitrogen trifluoride (NF3)

☑ Carbon dioxide (CO2)
☑ Perfluorocarbons (PFCs)
☑ Hydrofluorocarbons (HFCs)

(7.53.1.8) Scopes

Select all that apply
☑ Scope 3

(7.53.1.10) Scope 3 categories

Select all that apply
☑ Scope 3, Category 1 – Purchased goods and services
☑ Scope 3, Category 2 – Capital goods
☑ Scope 3, Category 3 – Fuel- and energy- related activities (not included in Scope 1 or 2)

(7.53.1.11) End date of base year

12/30/2017

(7.53.1.14) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

0

(7.53.1.15) Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

0

(7.53.1.16) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

6.69

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

6.690

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

6.690

(7.53.1.35) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

100

(7.53.1.36) Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

100

(7.53.1.37) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

100

(7.53.1.52) Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

100

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

(7.53.1.54) End date of target

12/30/2030

(7.53.1.55) Targeted reduction from base year (%)

32.5

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

4.516

(7.53.1.59) Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

164904.82

(7.53.1.60) Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

158954.24

(7.53.1.61) Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

18139.36

(7.53.1.76) Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

341998.420

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

341998.420

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

-15729181.56

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

This target is one of three SBTi WB2C certification objectives along with ENGIE Group's two other intensity targets. Overall, these 3 objectives are covering 79% of ENGIE Group's footprint. The scope 3.3 is covering only Scope 3.3.A B C, as emissions due to energy sold is covered by the intensity target. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the emission values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company (Scope 3 considers all the categories, excluding 3.3.D). Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals are presented. The target comprises all the GHG gases (Engie Brasil Energia, in 2023, did not have any emission sources associated with NF3 e PFC). Note: The increase in Scope 3 emissions (categories 1, 2, and 3) in the reporting year (2023) compared to the base year of the target (2017) occurs because categories 1 and 2 of Scope 3 were not calculated in the base year. This was due to the low materiality of these emission categories compared to Scope 1 emissions (mainly associated with coal-fired power plants). Additionally, as part of a continuous improvement process for Scope 3, new categories have been included. In 2023, all applicable Scope 3 categories for ENGIE Brasil Energia's operations are calculated and reported in the Inventory. That is, categories 1, 2, 3, 4, 5, 6, 7, 9, and 15.

(7.53.1.83) Target objective

The objective of this target, is along with ENGIE Group's intensity target, to cover 79% of the GHG footprint to make sure that the Group is following, in the near-term, a decarbonization pathway compliant with the Paris Agreement that has been validated by SBTi. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the emission values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals are presented.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

The most contributing emissions reduction initiative for ENGIE Group are: / Procurement: • incentives to the top 250 preferred suppliers to be SBTi certified or aligned. / Upstream emissions of purchased fuels: • reduction of the volumes of fuels sold and consumed / Other out of scope 3: Biomethane production to greenify gas distributed. ENGIE Brasil Energia assumes similar targets to its parent company. The main action adopted by ENGIE Brasil Energia that contribute to the achievement of global goals is: Incentives to the top 39 suppliers to be SBTi certified or aligned. They together contributed to more than 80% of categories 1 and 2 of Scope 3 in 2023. There is a Decarbonization Program focused in these suppliers in progress.

(7.53.1.85) Target derived using a sectoral decarbonization approach

Select from:

☑ Yes

[Add row]

(7.53.2) Provide details of your emissions intensity targets and progress made against those targets.

Row 1

(7.53.2.1) Target reference number

Select from:

☑ Int 1

(7.53.2.2) Is this a science-based target?

Select from:

☑ Yes, and this target has been approved by the Science Based Targets initiative

(7.53.2.3) Science Based Targets initiative official validation letter

SBTi certification_Engie Brasil Energia.pdf

(7.53.2.4) Target ambition

Select from:

☑ Well-below 2°C aligned

(7.53.2.5) Date target was set

01/31/2023

(7.53.2.6) Target coverage

Select from:

☑ Organization-wide

(7.53.2.7) Greenhouse gases covered by target

Select all that apply

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

☑ Carbon dioxide (CO2)

☑ Perfluorocarbons (PFCs)

☑ Hydrofluorocarbons (HFCs)

☑ Nitrogen trifluoride (NF3)

☑ Sulphur hexafluoride (SF6)

(7.53.2.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

(7.53.2.9) Scope 2 accounting method

Select from:

☑ Location-based

(7.53.2.11) Intensity metric

Select from:

☑ Metric tons CO2e per megawatt hour (MWh)

(7.53.2.12) End date of base year

12/30/2017

(7.53.2.13) Intensity figure in base year for Scope 1 (metric tons CO2e per unit of activity)

0.201

(7.53.2.14) Intensity figure in base year for Scope 2 (metric tons CO2e per unit of activity)

0.008

(7.53.2.33) Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

0.2090000000

(7.53.2.34) % of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

100

(7.53.2.35) % of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

100

(7.53.2.54) % of total base year emissions in all selected Scopes covered by this intensity figure

100

(7.53.2.55) End date of target

12/30/2030

(7.53.2.56) Targeted reduction from base year (%)

66

(7.53.2.57) Intensity figure at end date of target for all selected Scopes (metric tons CO2e per unit of activity)

0.0710600000

(7.53.2.58) % change anticipated in absolute Scope 1+2 emissions

-99.7

(7.53.2.60) Intensity figure in reporting year for Scope 1 (metric tons CO2e per unit of activity)

0.008

(7.53.2.61) Intensity figure in reporting year for Scope 2 (metric tons CO2e per unit of activity)

0

(7.53.2.80) Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

0.0080000000

(7.53.2.81) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.2.82) % of target achieved relative to base year

145.72

(7.53.2.83) Target status in reporting year

Select from:

☑ Achieved

(7.53.2.85) Explain target coverage and identify any exclusions

This intensity target covers all scope 1 and 2 emissions from the power sector according SBTi Sectorial Decrease Approach (SDA) of the Power sector. The ENGIE Group's target was certified by SBTi and following the guidelines it comprises all of its subsidiaries, including Engie Brasil Energia. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the intensity values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals presented. The target comprises all the GHG gases (Engie Brasil Energia, in 2023, did not have any emission sources associated with NF3 e PFC).

(7.53.2.86) Target objective

The objective of this target has been set to make sure that the ENGIE Group is following, in the near-term, on its power sector related activities, a decarbonization pathway compliant with the Paris Agreement that has been validated by SBTi. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the intensity values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals presented.

(7.53.2.88) Target derived using a sectoral decarbonization approach

Select from:

☑ Yes

(7.53.2.89) List the emissions reduction initiatives which contributed most to achieving this target

The plan for achieving the target by Engie Group relies on the following decarbonization levers according the different scope of emissions: / Energy production: • Coal phase-out by 2025 in Europe and by 2027 worldwide • Reduction and greening of gas consumption • Renewable heat • Energy Efficiency. • Growth of renewable production (80 GW objective in 2030) / Energy consumption: • Consumption of green electricity. // Progress made: Engie is on track to achieve the target as progress is logarithmic (high decrease at the start) with 76,65% of target achieved in 7 years and 6 years remaining to achieve the rest. As per ENGIE Brasil Energia's strategy the plan for achieving this target is in line with the decarbonization of the portfolio as mentioned with the sale of the last thermoeletric in the portfolio on May 2023 (Pampa Sul). As well as new investments in renewable energy will help in achieving this target.

Row 2

(7.53.2.1) Target reference number

Select from:

☑ Int 2

(7.53.2.2) Is this a science-based target?

Select from:

☑ Yes, and this target has been approved by the Science Based Targets initiative

(7.53.2.3) Science Based Targets initiative official validation letter

SBTi certification_Engie Brasil Energia.pdf

(7.53.2.4) Target ambition

Select from:

☑ Well-below 2°C aligned

(7.53.2.5) Date target was set

01/31/2023

(7.53.2.6) Target coverage

Select from:

☑ Organization-wide

(7.53.2.7) Greenhouse gases covered by target

Select all that apply

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

☑ Carbon dioxide (CO2)

☑ Perfluorocarbons (PFCs)

☑ Hydrofluorocarbons (HFCs)

☑ Nitrogen trifluoride (NF3)

☑ Sulphur hexafluoride (SF6)

(7.53.2.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 3

(7.53.2.10) Scope 3 categories

Select all that apply

☑ Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

☑ Category 15: Investments

(7.53.2.11) Intensity metric

Select from:

☑ Metric tons CO2e per megawatt hour (MWh)

(7.53.2.12) End date of base year

12/30/2017

(7.53.2.13) Intensity figure in base year for Scope 1 (metric tons CO2e per unit of activity)

0.201

(7.53.2.17) Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e per unit of activity)

0

(7.53.2.29) Intensity figure in base year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

0

(7.53.2.32) Intensity figure in base year for total Scope 3 (metric tons CO2e per unit of activity)

0.0000000000

(7.53.2.33) Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

0.2010000000

(7.53.2.34) % of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

100

(7.53.2.38) % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

100

(7.53.2.50) % of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

100

(7.53.2.53) % of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

100

(7.53.2.54) % of total base year emissions in all selected Scopes covered by this intensity figure

100

(7.53.2.55) End date of target

12/30/2030

(7.53.2.56) Targeted reduction from base year (%)

56

(7.53.2.57) Intensity figure at end date of target for all selected Scopes (metric tons CO2e per unit of activity)

0.0884400000

(7.53.2.58) % change anticipated in absolute Scope 1+2 emissions

-99.7

(7.53.2.59) % change anticipated in absolute Scope 3 emissions

0

(7.53.2.60) Intensity figure in reporting year for Scope 1 (metric tons CO2e per unit of activity)

0.008

(7.53.2.64) Intensity figure in reporting year for Scope 3, Category 3: Fuel- and energy-related activities (metric tons CO2e per unit of activity)

0.0003

(7.53.2.76) Intensity figure in reporting year for Scope 3, Category 15: Investments (metric tons CO2e per unit of activity)

0.0037

(7.53.2.79) Intensity figure in reporting year for total Scope 3 (metric tons CO2e per unit of activity)

0.0040000000

(7.53.2.80) Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

0.0120000000

(7.53.2.81) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.2.82) % of target achieved relative to base year

167.91

(7.53.2.83) Target status in reporting year

Select from:

☑ Achieved

(7.53.2.85) Explain target coverage and identify any exclusions

This intensity target covers all scope 1 and 3 emissions from the power sector according SBTi Sectorial Decrease Approach (SDA) of the Power sector. The ENGIE Group's target was certified by SBTi and following the guidelines it comprises all of its subsidiaries, including Engie Brasil Energia. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the intensity values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals presented. The target comprises all the GHG gases (Engie Brasil Energia, in 2023, did not have any emission sources associated with NF3 e PFC).

(7.53.2.86) Target objective

The objective of this target has been set to make sure that the Group is following, in the near-term, on its power sector related activities, a decarbonization pathway compliant with the Paris Agreement that has been validated by SBTi. n order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the intensity values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. Likewise, ENGIE Brasil Energia's actions that contribute to the achievement of global goals presented.

(7.53.2.88) Target derived using a sectoral decarbonization approach

Select from:

☑ Yes

(7.53.2.89) List the emissions reduction initiatives which contributed most to achieving this target

The plan for achieving the target relies on the following decarbonization levers according the different scope of emissions: / Energy production: • Coal phase-out by 2025 in Europe and by 2027 worldwide • Reduction and greening of gas consumption • Renewable heat • Energy Efficiency. • Growth of renewable production (80 GW objective in 2030) / Energy sales: • Sale of green and low-carbon electricity • Energy efficiency and sufficiency. // Progress made: Engie is on track to achieve the target as progress is linear (high decrease at the start) with 51,92% of target achieved in 7 years and 6 years remaining to achieve the rest. As per ENGIE Brasil Energia's strategy the plan for achieving this target is in line with the decarbonization of the portfolio as mentioned with the sale of the last thermoeletric in the portfolio on May 2023 (Pampa Sul). As well as new investments in renewable energy will help in achieving this target.
[Add row]

(7.54) Did you have any other climate-related targets that were active in the reporting year?

Select all that apply

☑ Targets to increase or maintain low-carbon energy consumption or production

☑ Net-zero targets

(7.54.1) Provide details of your targets to increase or maintain low-carbon energy consumption or production.

Row 1

(7.54.1.1) Target reference number

Select from:

☑ Low 1

(7.54.1.2) Date target was set

12/31/2019

(7.54.1.3) Target coverage

Select from:

☑ Organization-wide

(7.54.1.4) Target type: energy carrier

Select from:

☑ Electricity

(7.54.1.5) Target type: activity

Select from:

☑ Production

(7.54.1.6) Target type: energy source

Select from:

☑ Renewable energy source(s) only

(7.54.1.7) End date of base year

12/30/2020

(7.54.1.8) Consumption or production of selected energy carrier in base year (MWh)

18124963.29

(7.54.1.9) % share of low-carbon or renewable energy in base year

83

(7.54.1.10) End date of target

12/30/2030

(7.54.1.11) % share of low-carbon or renewable energy at end date of target

58

(7.54.1.12) % share of low-carbon or renewable energy in reporting year

99.3

(7.54.1.13) % of target achieved relative to base year

-65.20

(7.54.1.14) Target status in reporting year

Select from:
☑ Achieved

(7.54.1.16) Is this target part of an emissions target?

Yes, this target is part of the ENGIE's and, respectively, Engie Brasil Energia’s commitment to decarbonise their energy production mixes.

(7.54.1.17) Is this target part of an overarching initiative?

Select all that apply

☑ Science Based Targets initiative

(7.54.1.18) Science Based Targets initiative official validation letter

SBTi certification_Engie Brasil Energia.pdf

(7.54.1.19) Explain target coverage and identify any exclusions

This target concerns all the electricity production capacities of the Group in GW (heat and cold capacities are excluded). In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company.

(7.54.1.20) Target objective

Accelerating the development of renewable energies is a strategic priority for the Group. This target is part of the ENGIE's commitment to reduce by 66% the rate of emissions per kWh of energy production between 2017 and 2030 (int 1). This intensity target has been validated by Moody’s Net Zero Assessment to be compliant with a 1.5C scenario based on IEA NZA. The Transition pathway Initiative has also evaluated our carbon intensity trajectory to be compliant with a 1.5C trajectory up to 2030. In order to ensure the proportionality of the global targets in relation to the operational limits of ENGIE Brasil Energia, the values presented in this question indicate the representativeness of ENGIE Brasil Energia's data in relation to the total presented by its indirect parent company. ENGIE Brasil Energia's actions contributes to the achievement of the global target. In the reporting year (2023), the operations in Brazil were responsible for the achievement of a 100% of energy from renewable sources.

(7.54.1.22) List the actions which contributed most to achieving this target

ENGIE Brasil Energia's actions contributes to the achievement of the global target. ENGIE Brasil Energia understands that investments in renewable generation and transmission systems need to happen together In the context of the energy transition. To that end, it maintains projects in advanced development stages - with feasibility studies at an advanced stage that may be implemented or not. These projects – photovoltaic plants and wind farms – can add 2 GW to the Company's installed capacity – which assesses both greenfields (projects yet to be built) and acquisitions of already operational projects. Specifically, within the operational limits of ENGIE Brasil Energia, the following assets already in operation were acquired: Floresta Photovoltaic Complex, located in Areia Branca (RN) and the Paracatu Photovoltaic Complex, located in Paracatu (MG). The Santo Agostinho Wind Complex is currently being implemented, with a total installed capacity of 434 MW, which will be achieved with the implementation of 70 wind turbines in this first phase of the project. Gralha Azul (Paraná) and Novo Estado (Pará and Tocantins) transmission projects were implemented and in 2022 showed considerable efficiency results aligned with the social economic development of the region they are

present. In 2023, the Company signed a contract to purchase all shares held by Atlas Energia Renovável do Brasil S.A. and Atlas Brasil Energia Holding 2 S.A. for the acquisition of the Juazeiro, São Pedro, Sol do Futuro, Sertão Solar, and Lar do Sol photovoltaic complexes, located in the states of Bahia, Minas Gerais, and Ceará. The installed capacity of these assets is 545 MWac. By May 2023 EBE reached 100% of renewable sources comprising our generating complex, a historic milestone that is the result of the ongoing process of decarbonization of ENGIE's portfolio in Brazil.

Row 2

(7.54.1.1) Target reference number

Select from:

☑ Low 2

(7.54.1.2) Date target was set

10/31/2022

(7.54.1.3) Target coverage

Select from:

☑ Organization-wide

(7.54.1.4) Target type: energy carrier

Select from:

☑ Electricity

(7.54.1.5) Target type: activity

Select from:

☑ Consumption

(7.54.1.6) Target type: energy source

Select from:

☑ Renewable energy source(s) only

(7.54.1.7) End date of base year

12/31/2022

(7.54.1.8) Consumption or production of selected energy carrier in base year (MWh)

46203.33

(7.54.1.9) % share of low-carbon or renewable energy in base year

0

(7.54.1.10) End date of target

12/31/2023

(7.54.1.11) % share of low-carbon or renewable energy at end date of target

100

(7.54.1.12) % share of low-carbon or renewable energy in reporting year

100

(7.54.1.13) % of target achieved relative to base year

100.00

(7.54.1.14) Target status in reporting year

Select from:
☑ Achieved

(7.54.1.16) Is this target part of an emissions target?

Yes, this target enables the achievement of the Abs1, Int1, and NZ1 targets, which include scope 2 emissions.

(7.54.1.17) Is this target part of an overarching initiative?

Select all that apply

☑ Other, please specify **:**Low2 target enables the achievement of: - Abs 1 and NZ1: we consider this target to be science-based as validated by Moody's Net Zero assessment to be compliant with IEA NZE - Int1: ENGIE's target certified by SBTi (comprises ENGIE Brasil Energia)

(7.54.1.19) Explain target coverage and identify any exclusions

The target applies to all operational units and the headquarters of ENGIE Brasil Energia. It also covers all electricity consumed, meaning there are no exclusions.

(7.54.1.20) Target objective

The target set by ENGIE Brasil Energia is to achieve 100% renewable energy consumption for the entire company by 2023. The renewable energy source is verified through the acquisition of renewable energy certificates (RECs). The achievement of this target is considered in the variable remuneration of ENGIE Brasil Energia's Environmental Management employees.

(7.54.1.22) List the actions which contributed most to achieving this target

To achieve the target, ENGIE Brasil Energia acquired renewable energy certificates (RECs) for its entire electricity consumption in 2023. As a result, scope 2 emissions under the market-based approach are considered zero in ENGIE Brasil Energia's 2023 inventory. For the following years, the same target of 100% renewable electricity consumption is expected to be adopted.
[Add row]

(7.54.3) Provide details of your net-zero target(s).

Row 1

(7.54.3.1) Target reference number

Select from:

☑ NZ1

(7.54.3.2) Date target was set

12/31/2019

(7.54.3.3) Target Coverage

Select from:

☑ Organization-wide

(7.54.3.4) Targets linked to this net zero target

Select all that apply

☑ Abs1

(7.54.3.5) End date of target for achieving net zero

12/30/2045

(7.54.3.6) Is this a science-based target?

Select from:

☑ Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

(7.54.3.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

☑ Scope 3

(7.54.3.9) Greenhouse gases covered by target

Select all that apply

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

☑ Carbon dioxide (CO2)

☑ Perfluorocarbons (PFCs)

☑ Sulphur hexafluoride (SF6)

☑ Nitrogen trifluoride (NF3)

☑ Hydrofluorocarbons (HFCs)

(7.54.3.10) Explain target coverage and identify any exclusions

Target is covering 100% of the GHG footprint of ENGIE Group. ENGIE Brasil Energia is aligned with ENGIE Group's targets to reach net-zero in 2045, lacknowledging the strategic importance of the goal and is committed to developing action plans capable to contributing to the goal, working together with its indirect parent company. The target comprises all the GHG gases (Engie Brasil Energia, in 2023, did not have any emission sources associated with NF3 e PFC).

(7.54.3.11) Target objective

The target objective is to engage the Group on a Net Zero objective to contribute to global carbon neutrality within the respect of the Paris Agreements. We consider this target to be science-based as validated by Moody's Net Zero assessment to be compliant with IEA NZE. Indeed, IEA is asking power sector companies to achieve Net Zero by 2040 but ENGIE is half a power sector company, half an oil&gas company for which Net Zero target is 2050 at maximum. Furthermore, there is not yet any guidance for the oil&gas sector from SBTi. ENGIE Brasil Energia is aligned with ENGIE Group's targets to reach net-zero in 2045, lacknowledging the strategic importance of the goal and is committed to developing action plans capable to contributing to the goal, working together with its indirect parent company.

(7.54.3.12) Do you intend to neutralize any residual emissions with permanent carbon removals at the end of the target?

Select from:

☑ Yes

(7.54.3.13) Do you plan to mitigate emissions beyond your value chain?

Select from:

☑ No, we do not plan to mitigate emissions beyond our value chain

(7.54.3.14) Do you intend to purchase and cancel carbon credits for neutralization and/or beyond value chain mitigation?

Select all that apply

☑ Yes, we plan to purchase and cancel carbon credits for neutralization at the end of the target

(7.54.3.15) Planned milestones and/or near-term investments for neutralization at the end of the target

To not start to onboard on the carbon removal value chain in 2045 (year of Net Zero target), the Group has set up a near-term target to already neutralize residual emissions in countries or activities that will be in capacity to reach a 90% reduction by 2030. Indeed, the Group has committed to a Net Zero Carbon target on 4 countries including Brazil as well as its ways of working by 2030. To do so it will first reduce its GHG emissions and compensate its residual emissions through

internal carbon removal initiatives and procurement of removal carbon credits on the voluntary market. This way the Group will start neutralize residual emissions to prepare its 2045 Net Zero target but will not compensate more than its 2045 expected residual emissions (namely 10% of 2017's GHG footprint).

(7.54.3.17) Target status in reporting year

Select from:

☑ Underway

(7.54.3.19) Process for reviewing target

In order to review its targets, the Group has begun a transformation that has enabled it to shift from a reporting approach to a performance management approach, thus carrying out large-scale operational change. To this end, ENGIE has developed management tools for both long-term strategic projections and for investment decisions, as well as for infra-annual operational management. Since 2021, the Group has integrated nonfinancial items in its medium-term financial plan (MTP) to assign CO2 budgets. The GBUs develop their operational decarbonization strategy so as not to exceed the limits set (budget N1, 2025, 2030 and 2045). This yearly updated trajectory is validated by both ExCom and the Board. Further the Climate strategy is also updated and voted every 3 year at the AGM (Say on climate). [Add row]

(7.55) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Select from:

☑ Yes

(7.55.1) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	*0*	*`Numeric input*

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
To be implemented	*0*	*0*
Implementation commenced	*0*	*0*
Implemented	*3*	*1095568*
Not to be implemented	*0*	*`Numeric input*

[Fixed row]

(7.55.2) Provide details on the initiatives implemented in the reporting year in the table below.

Row 1

(7.55.2.1) Initiative category & Initiative type

Company policy or behavioral change

☑ Site consolidation/closure

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

1076509

(7.55.2.3) Scope(s) or Scope 3 category(ies) where emissions savings occur

Select all that apply

☑ Scope 1

☑ Scope 2 (location-based)

☑ Scope 3 category 6: Business travel

☑ Scope 3 category 7: Employee commuting

☑ Scope 3 category 4: Upstream transportation & distribution

☑ Scope 3 category 5: Waste generated in operations

(7.55.2.4) Voluntary/Mandatory

Select from:
☑ Voluntary

(7.55.2.5) Annual monetary savings (unit currency – as specified in C0.4)

26051522

(7.55.2.6) Investment required (unit currency – as specified in C0.4)

0

(7.55.2.7) Payback period

Select from:
☑ No payback

(7.55.2.8) Estimated lifetime of the initiative

Select from:
☑ <1 year

(7.55.2.9) Comment

During the process of decarbonizing its portfolio, Engie Brasil Energia sold the Pampa Sul Thermoelectric Plant, its last coal-fired thermoelectric asset. The calculation of the avoided cost considers the average price of a ton of carbon (5USD/t CO2) considering the existence of a carbon pricing instrument in the country.

Row 2

(7.55.2.1) Initiative category & Initiative type

Transportation

☑ Other, please specify :Fleet fuel replacement

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

329

(7.55.2.3) Scope(s) or Scope 3 category(ies) where emissions savings occur

Select all that apply

☑ Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

(7.55.2.5) Annual monetary savings (unit currency – as specified in C0.4)

19317

(7.55.2.6) Investment required (unit currency – as specified in C0.4)

0

(7.55.2.7) Payback period

Select from:

☑ <1 year

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 21-30 years

(7.55.2.9) Comment

Engie Brasil Energia has adopted targets for each asset to increase the consumption of renewable fuel in its vehicle fleet. The value of the GHG emissions avoided and the cost of implementing the initiative were calculated based on the difference between a scenario in which vehicles only use gasoline and another that adopts ethanol. To calculate emissions, the efficiency of both fuels and the combustion emissions factors proposed by the GHG Protocol were taken into account. With regard to operating costs, the average fuel price in 2023 provided by the National Petroleum Agency (ANP) was adopted, with gasoline equivalent to R5.50/L and ethanol equivalent to R3.75/L. There was no investment (CAPEX), since the fleet was already flex-fuel.

Row 3

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption

☑ Other, please specify **:**Acquisition of renewable energy (IRECs)

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

18730

(7.55.2.3) Scope(s) or Scope 3 category(ies) where emissions savings occur

Select all that apply

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

(7.55.2.5) Annual monetary savings (unit currency – as specified in C0.4)

0

(7.55.2.6) Investment required (unit currency – as specified in C0.4)

496847414

(7.55.2.7) Payback period

Select from:

☑ <1 year

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 21-30 years

(7.55.2.9) Comment

In 2023, emissions from the purchase of electricity and transmission losses were reduced to zero in the market-based approach thanks to the use of 100% renewable energy sources, proven by the purchase of certificates of origin (I-RECs). The cost of implementing the initiative took into account the volume of energy purchased in 2023 and the losses and cost of purchasing IRECs (average value of 1R/MWh).
[Add row]

(7.55.3) What methods do you use to drive investment in emissions reduction activities?

Row 1

(7.55.3.1) Method

Select from:

☑ Internal price on carbon

(7.55.3.2) Comment

The Group, including its subsidiaries, uses internal regional carbon price sensitives to assess its investments projects. For ENGIE Brasil Energia a cross-business lines working group produces climate change storylines (regulatory developments, technology penetration, customer attitudes changes, variations on weather patterns, etc.), which are used as inputs to build the Corporate Scenarios. The Corporate Scenarios are a set of plausible future scenarios including qualitative storylines, macroeconomics (energy demand and prices, growth assumption etc...), and energy commodities and carbon prices assumptions. These scenarios are used for strategic analysis and decision-making including project valuation, investment decisions and medium-term planning. The impacts of carbon pricing scenarios

on the new investment projects proposals are reviewed in light of the specific context of the host country and of its regulatory framework and inform decision-making. Engie Brasil Energia uses internal carbon pricing to assess the impact of new investments in renewable energy. Climate change (regulatory developments, use of new technology, changes in customer attitudes, variations in weather patterns, etc.) are used as inputs to build the Corporate Scenarios. The Corporate Scenarios are a set of plausible future scenarios, including qualitative scenarios, macroeconomics (energy demand and prices, growth assumption, etc.) and carbon and energy commodity price assumptions. These scenarios are used for strategic analysis and decision making, including project assessment, investment decisions, and medium-term planning.

Row 3

(7.55.3.1) Method

Select from:

☑ Internal finance mechanisms

(7.55.3.2) Comment

The Group allocates carbon budgets to each of its GBUs; defined in absolute CO2e emissions, they impose a limit on emitting activities on the current year, 2025 and 2030. They are the key CO2 control mechanism for all investment decisions. To ensure the successful achievement of these targets, realized emissions are reported every trimester and presented to the CEO-level Quarterly Business Reviews.

Row 4

(7.55.3.1) Method

Select from:

☑ Other **:**Green Bonds

(7.55.3.2) Comment

The green bond market is one of the investment options that will finance the future energy transition. In 2024, the Engie Group is the leading corporate issuer of green bonds in the world, with 6 billion of green bonds issued (21 billion since 2014). The Group has also integrated into its syndicated credit lines the margin adjustment mechanisms linked to compliance with performance indicators in terms of CO2 emissions (absolute emissions from energy generation and growth in the proportion of renewable capacities). ENGIE published its new Green Financing Framework on June 13, 2023. This new framework achieved a sustainability quality score of SQS2 (Very Good) from Moody's, which provided a Second Party Opinion (SPO) on its green characteristics. In this new framework, the technical eligibility criteria of eligible green projects are consistent, when this is relevant and possible, and to the extent possible, with the eligibility criteria of the EU Taxonomy Regulation and the Delegated Acts on Climate Change Mitigation and Adaptation adopted in June 2021 (the "EU Taxonomy"). Engie Brasil Energia also classifies and publishes its

annual financial results considering the EU Taxonomy definitions. ENGIE Brasil Energia's renewable energy projects are a part of the ENGIE Group's Green Bond financing structure and, thus, raise money from international funds for the expansion of renewable sources in Brazil.

Row 5

(7.55.3.1) Method

Select from:

☑ Dedicated budget for low-carbon product R&D

(7.55.3.2) Comment

Research and technological development activities lay the groundwork for the ENGIE Group’s future by strengthening its ability to identify, evaluate and test new technologies in order to validate safe and efficient solutions that will be integrated into tomorrow's offerings. R&D also helps the continuous improvement of operational performance. A large portion of the Group's R&D is focused on low carbon products and digital technologies. Research and development costs, excluding technical assistance costs, totalled 190 million in 2020. The amount invested by ENGIE Brasil Energia in research and development projects undertaken in 2023, which used resources from R&D investments from Aneel, was equivalent to R 21.8 million. A significant portion of this R&D investment is focused on low-carbon products and digital technologies. Among the projects we highlight the continued implementation of the first large national wind turbine, with 4.2 MW of power, carried out in partnership with WEG – a Brazilian company specialized in the manufacture of electrical machines – and of Santa Catarina Electric Power Plants (Celesc).

Row 6

(7.55.3.1) Method

Select from:

☑ Financial optimization calculations

(7.55.3.2) Comment

Emissions reduction projects are presented as part of the standard budget review and project approval process. This includes calculation of costs and return on investment. Our investment opportunities in emissions reduction activities go through financial optimization calculations taking into account specific risks and opportunities related to CO2 exposure management. Such investments are evaluated according to our standard investment process, which are valid to all ENGIE’s subsidiaries.
[Add row]

(7.58) Describe your organization’s efforts to reduce methane emissions from your activities.

The company developed the LAGES project, which aims to avoid the emission of methane by anaerobic digestion in stockpiles (biomass decomposition) through electricity controlled by a cogeneration process, which simultaneously generates electricity and thermal energy (steam) from waste of wood produced from various industrialized woods that would otherwise be discarded organically. The Project sells electricity to the local distributor and to industrial customers called free consumers. The Project Activity contributes to the mitigation of greenhouse gas emissions by reducing methane production in wood waste piles where the waste that will be used will otherwise be deposited. It is also important to highlight the fact that biomass presents a great advantage for the country in terms of diversifying the energy supply and its use has a positive impact on the local economy, including the direct and indirect generation of jobs. The Project reduces anthropogenic GHG emissions by avoiding methane emissions from the anaerobic digestion of wood residues in piles of sawmill waste that are widely discarded without adequate environmental controls. In the baseline scenario, wood waste would continue to be dumped in a region where open-pit biomass burning is chemical, dumping in piles is the predominant practice, and where the supply of this wood waste exceeds its demand. The greenhouse gas emission reductions generated by the Project are around 196,689 tCO2e/year and a total of 1,966,889 tCO2e over a ten year fixed crediting period. This estimate is based on an availability factor of 95% and a conservative load factor of 40% for the Lages Project cogeneration unit, i.e. 183,600 tons/year of wood waste consumed and conservative assumptions regarding avoided methane emissions.

(7.73) Are you providing product level data for your organization’s goods or services?

Select from:

☑ No, I am not providing data

(7.73.2) Complete the following table for the goods/services for which you want to provide data.

	Requesting member
Row 1	*Select from:*

[Add row]

(7.74) Do you classify any of your existing goods and/or services as low-carbon products?

Select from:

☑ Yes

(7.74.1) Provide details of your products and/or services that you classify as low-carbon products.

Row 1

(7.74.1.1) Level of aggregation

Select from:

☑ Group of products or services

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:

☑ The EU Taxonomy for environmentally sustainable economic activities

(7.74.1.3) Type of product(s) or service(s)

Other

☑ Other, please specify **:**Power + All ENGIE's renewable energy capacities aligned with EU Taxonomy

(7.74.1.4) Description of product(s) or service(s)

Installation and operation of all ENGIE Brasil Energia renewable energy capacities (onshore wind, solar, and hydros with a power density smaller than 4 W/m²)

(7.74.1.5) Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Select from:

☑ Yes

(7.74.1.6) Methodology used to calculate avoided emissions

Select from:

☑ Other, please specify **:**Avoided emissions consider the difference between the emission factor of the interconnected Brazilian grid (0.0385 tCO2/MWh in 2023) and the emission factor of renewable energy generation by wind, solar, and hydro sources (EF=0)

(7.74.1.7) Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Select from:

☑ Gate-to-gate

(7.74.1.8) Functional unit used

Metric tons of avoided emissions

(7.74.1.9) Reference product/service or baseline scenario used

Baseline (business-as-usual): emission factor of the interconnected Brazilian grid (it includes termoeletrics fueled by coal and gas). Data provided by the Brazilian Ministry of Science, Technology, and Innovation. The average value in 2023 was (0.0385 tCO2/MWh) Alternative scenario: emission factor of renewable energy generation by wind, solar, and hydro sources (EF0) Premise adopted by the GHG Protocol and UNFCCC (ACM0002 - Grid-connected electricity generation from renewable sources)

(7.74.1.10) Life cycle stage(s) covered for the reference product/service or baseline scenario

Select from:

☑ Cradle-to-grave

(7.74.1.11) Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

870199

(7.74.1.12) Explain your calculation of avoided emissions, including any assumptions

*CALCULATION: Average generation of MWh/year from renewable sources of Engie Brasil Energia * Brazilian Grid 2023 Annual Average Factor (tCO2/MWh) tCO2e/year avoided. EMISSION FACTOR: The Brazilian's Emission factor of the Grid is provided by the Ministry of Science, Technology, and Innovation. The emission factor of the renewable sources are considered zero. RENEWABLE ENERGY GENERATION: Considers onshore wind, solar, and hydros with a power density smaller than 4 W/m² (as recommended by UNFCCC Large-scale Consolidated Methodology ACM0002 - Grid-connected electricity generation from renewable sources)*

(7.74.1.13) Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

71
[Add row]

(7.79) Has your organization canceled any project-based carbon credits within the reporting year?

Select from:
☑ Yes

(7.79.1) Provide details of the project-based carbon credits canceled by your organization in the reporting year.

Row 1

(7.79.1.1) Project type

Select from:
☑ Wind

(7.79.1.2) Type of mitigation activity

Select from:
☑ Emissions reduction

(7.79.1.3) Project description

The Trairi Wind Power Plant CDM Project consists of the construction and operation of a wind power plant that will supply clean electricity to the National Interconnected System (SIN). The additional electricity generated will enable a reduction in the use of greenhouse gas (GHG) intensive generation sources.

(7.79.1.4) Credits canceled by your organization from this project in the reporting year (metric tons CO2e)

200

(7.79.1.5) Purpose of cancelation

Select from:

☑ Voluntary offsetting

(7.79.1.6) Are you able to report the vintage of the credits at cancelation?

Select from:

☑ Yes

(7.79.1.7) Vintage of credits at cancelation

2013

(7.79.1.8) Were these credits issued to or purchased by your organization?

Select from:

☑ Issued

(7.79.1.9) Carbon-crediting program by which the credits were issued

Select from:

☑ CDM (Clean Development Mechanism)

(7.79.1.10) Method the program uses to assess additionality for this project

Select all that apply

☑ Investment analysis

(7.79.1.11) Approaches by which the selected program requires this project to address reversal risk

Select all that apply

☑ Temporary crediting

(7.79.1.12) Potential sources of leakage the selected program requires this project to have assessed

Select all that apply

☑ Other, please specify **:**The project, which consists of wind energy generation, has no leakage emissions. More explanations have been provided in the column 'Please explain.

(7.79.1.13) Provide details of other issues the selected program requires projects to address

Conceived as a Clean Development Mechanism (CDM), the Trairi Wind Power Plant project is located in northeastern Brazil, on the coast of the state of Ceará, in the town of Trairi. It will have an installed capacity of 25.4 MW. The implementation and operation of the CDM project activity will reduce greenhouse gas (GHG) emissions, as the additional electricity generated and dispatched to the system will make it possible to reduce the electricity generated by fossil fuel-fired thermal power plants in the operational margin of the national interconnected system or to avoid or postpone the addition of new GHG-intensive generation sources to the system.

(7.79.1.14) Please explain

The project, which consists of wind power generation, has no leakage emissions. According to the ACM0002 methodology of the CDM (Grid-connected electricity generation from renewable sources), the main emissions that potentially generate leakage in the context of electricity sector projects arise from activities such as the construction of power plants and upstream emissions from the use of fossil fuels (extraction, processing and transportation). Therefore, for the context of the project, where there is wind power generation, the sources of leakage emissions are considered negligible. It should be noted that the project has been audited by a third-party company and approved by the UNFCCC.

Row 2

(7.79.1.1) Project type

Select from:

☑ Methane avoidance

(7.79.1.2) Type of mitigation activity

Select from:

☑ Emissions reduction

(7.79.1.3) Project description

The Project is designed to avoid methane emissions from anaerobic digestion in stockpiles (biomass decay) through controlled combustion by cogeneration process, which simultaneously generates electricity and thermal energy (steam) from the wood waste produced from several timber industries that would otherwise be disposed inadequately. The project is not requiring emission reductions from the electricity grid displacement. Lages Project's cogeneration facility is located in Lages,

State of Santa Catarina, Brazil, whose economy is based on the wood industry using timber from planted forests. The Project is already under operation by Lages Bioenergética Ltda., a Special Purpose Company fully owned by ENGIE Brasil Energia SA, specially constituted to build, operate and maintain the Lages Project.

(7.79.1.4) Credits canceled by your organization from this project in the reporting year (metric tons CO2e)

55020

(7.79.1.5) Purpose of cancelation

Select from:

☑ Voluntary offsetting

(7.79.1.6) Are you able to report the vintage of the credits at cancelation?

Select from:

☑ Yes

(7.79.1.7) Vintage of credits at cancelation

2013

(7.79.1.8) Were these credits issued to or purchased by your organization?

Select from:

☑ Issued

(7.79.1.9) Carbon-crediting program by which the credits were issued

Select from:

☑ CDM (Clean Development Mechanism)

(7.79.1.10) Method the program uses to assess additionality for this project

Select all that apply

☑ Investment analysis

(7.79.1.11) Approaches by which the selected program requires this project to address reversal risk

Select all that apply

☑ Temporary crediting

(7.79.1.12) Potential sources of leakage the selected program requires this project to have assessed

Select all that apply

☑ Upstream/downstream emissions

(7.79.1.13) Provide details of other issues the selected program requires projects to address

Conceived as a Clean Development Mechanism (CDM), the Lages Cogeneration Unit (UCLA), located in the Serra Catarinense and belonging to ENGIE Brasil Energia, has had emissions reduction among its main purposes since it began operations in 2003. By using waste from the local timber industry to generate electricity and steam, the plant has given a new destination to a material with great potential for methane emissions - a greenhouse gas (GHG) up to 25 times more potent than carbon dioxide (CO2). Thus, in a decade, the UCLA operation avoided the emission of approximately 2.5 million tons of CO2 equivalent. In addition, the Company sought to expand the positive impact of the project by using biomass ash for agricultural use and, in an experimental project, for composting domestic organic waste. The results obtained confirm that investment in circular economy initiatives has great transformative potential towards sustainable development.

(7.79.1.14) Please explain

The two sources of leakage are related to the off-site wood waste transportation and ash transportation that is produced in the wood waste combustion process. The calculations and justifications are presented in the Project Design Document (PDD) and the Monitoring Reports (MR), both of which are audited by third party companies and approved by the UNFCCC. The Project is in accordance with the Appendix B of the simplified modalities and procedures for small scale CDM project activities – Type III.E "Avoidance methane production from biomass decay through controlled combustion"
[Add row]

C9. Environmental performance - Water security

(9.1) Are there any exclusions from your disclosure of water-related data?

Select from:

☑ No

(9.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

Water withdrawals – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Daily

(9.2.3) Method of measurement

Direct measurement or calculation

(9.2.4) Please explain

100% of the assets (hydroelectric, solar, wind, biomass and thermoelectric plants, transmission lines and administrative areas) have measurement or calculation of the estimated volume of water withdrawals. The frequency of metering depends on the type and size of the asset and the applicable legislation. In most assets, measurement is carried out by water meters, with data recorded on an hourly basis, while in assets that do not have water meters installed, the calculation for the estimate is carried out monthly, according to the energy production process. In the case of biomass, the hours of turbine operation versus pump flow are considered. When the supply comes from a third party, there is a provision in the contract between the parties for recording the registered volume, according to the need of the water tanker. These values are measured and reported by the local teams monthly through an internal system called SE Suite and reported annually to the controller.

Water withdrawals – volumes by source

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Daily

(9.2.3) Method of measurement

Direct measurement or calculation

(9.2.4) Please explain

100% of assets (hydroelectric, solar, wind, biomass and thermoelectric plants, transmission lines and administrative areas) are metered by source, e.g. fresh surface water, groundwater, etc.; and by type of use, e.g. industrial use and cooling and heating. The frequency of measurement depends on the type and size of the asset and the applicable legislation. For most assets, measurement is carried out by hydrometers, with hourly data records, while for assets that do not have hydrometers installed, calculation for estimation is carried out monthly, according to the energy production process. In the case of biomass, the hours of operation of the turbines versus the flow rate of the pumps is considered. In some cases, when the supply comes from a third party, there is a provision in the contract between the parties for recording the registered volume, according to when the water tankers are requested.

Water withdrawals quality

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Daily

(9.2.3) Method of measurement

Direct measurement and laboratory analysis

(9.2.4) Please explain

100% of the quality of the water collected is monitored locally, mainly for technical reasons, in relation to the operational restrictions of each site. Water quality monitoring at Engie Brasil Energia's projects is carried out following a sampling plan, which includes biological, physical and chemical parameters. Depending on the size of the site, the production technology and the parameters required, water quality monitoring is carried out daily, weekly, monthly or annually. Water quality monitoring at biomass plants is carried out daily, at hydroelectric, wind and transmission plants it is carried out monthly or quarterly and every six months in the case of solar plants.

Water discharges – total volumes

(9.2.1) % of sites/facilities/operations

Select from:
☑ 100%

(9.2.2) Frequency of measurement

Select from:
☑ Monthly

(9.2.3) Method of measurement

Direct measurement or calculation

(9.2.4) Please explain

100% of the assets (hydroelectric, solar, wind, biomass and thermoelectric plants, transmission lines and administrative areas) are measured and reported by the local teams monthly through an internal system called SE Suite and annually reported to the parent company. The volumes of water discharged are directly linked to the volumes captured and consumed. The frequency of measurement depends on the type and size of the asset. Measurement is carried out by water meters, with hourly records, while where there are no water meters, an estimate of discharge is carried out monthly. In order to calculate the volume of water discharged from the

data collected for electricity generation, the entire volume collected, after use, is considered effluent, while from the data for consumption at the administrative level, the number of people and the number of days worked at the asset are taken into account, or that 80% of the water consumed generates effluent, in accordance with NBR 7229/1993.

Water discharges – volumes by destination

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Monthly

(9.2.3) Method of measurement

Direct measurement or calculation

(9.2.4) Please explain

100% of the assets (hydroelectric, solar, wind, biomass and thermoelectric, transmission lines and administrative areas) control the volume of effluent discharged by destination. The values are reported by the local teams monthly, using a system called SE Suite. The volumes of water discharged are directly linked to the volumes collected and consumed. The frequency of measurement depends on the type and size of the asset. In most of the assets, measurement is carried out by water meters, with hourly records, while where there are no water meters, an estimate of discharge by destination is carried out monthly. To calculate the volume of water discharged, based on the data collected for electricity generation, the entire volume collected, after use, is considered effluent, while based on the data for consumption at the administrative level, the number of people and days worked is taken into account, or that 80% of the water consumed generates effluent, in accordance with NBR 7229/1993.

Water discharges – volumes by treatment method

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Daily

(9.2.3) Method of measurement

Direct measurement or calculation

(9.2.4) Please explain

100% of the assets (hydroelectric, solar, wind, biomass and thermoelectric plants, transmission lines and administrative areas) have control of the volumes of water discharged by treatment method, such as conventional treatment systems. All effluents generated in operations, as well as in implementation activities, are treated before their final disposal or release. In the case of sanitary effluents, they are sent to collective treatment systems or septic tanks or biodigesters are used which dispose of the water in drains installed in the ground, while the other effluents undergo different forms of treatment. After measurement, the values are reported by the local teams monthly through an internal system called SE Suite. The frequency of measurement depends on the type and size of the asset and the applicable legislation. Audits are also carried out in accordance with ISO 140001/2015 standards.

Water discharge quality – by standard effluent parameters

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Quarterly

(9.2.3) Method of measurement

Direct measurement and laboratory analysis

(9.2.4) Please explain

100% of the water discharged has local and daily effluent monitoring, regarding operational obligations as determined by CONAMA Resolution 430/2011. The quality of the water discharged is checked through tests to analyze the water samples. Some aspects are analyzed, such as: pH, Temperature, Suspended Solids, COD, BOD5, etc. The main pollutants are monitored continuously with fixed analysis devices and the other pollutants in the laboratory with standard methods. In the case of hydroelectric plants, water quality monitoring is carried out upstream and downstream of the dams. Water quality monitoring at biomass plants is carried out daily, at hydroelectric, wind and transmission plants it is carried out monthly or quarterly and every six months in the case of solar plants.

Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Quarterly

(9.2.3) Method of measurement

Direct measurement and laboratory analysis

(9.2.4) Please explain

100% of the water discharged has local and daily effluent monitoring, in accordance with the operational obligations set out in CONAMA Resolution 430/2011. Emissions parameters were monitored more frequently and had significant values when the Pampa Sul Thermoelectric Plant was still in Engie Brasil Energia's portfolio. However, after its exit in March 2023, these parameters do not present significant value for the other assets, since these substances are not present in domestic effluents and other company activities.

Water discharge quality – temperature

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Continuously

(9.2.3) Method of measurement

Laboratory analysis and/or instruments installed on site with information in the hydroelectric plants' supervisory system.

(9.2.4) Please explain

100% of the water discharged has local and continuous monitoring in relation to the obligations of the operating license for all sites and this includes temperature monitoring, which is one of the main parameters monitored in the discharged water. Engie's monitoring complies with the parameters of current regulations, such as CONAMA Resolution 430/2011. This monitoring is carried out upstream and downstream of the operations by taking samples and acts as an assessment of the quality of the company's effluent management, with the aim of bringing the effluent parameters into line with the parameters defined by the legislation. In the case of hydroelectric plants, there is real-time temperature measurement at the outlet of the generating units' cooling system, which is checked directly on the instrument and/or reported to the plant's supervisory system.

Water consumption – total volume

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Monthly

(9.2.3) Method of measurement

Calculation

(9.2.4) Please explain

100% of the total volume of water consumption is monitored using calculations. The data used for the calculation are the volumes of difference between the water abstracted and the volumes of water discharged, which are collected, in general, quarterly or more frequently, depending on the situation. Therefore, the water consumption figure is based on an average of the consumption figures observed in all the assets. All this information is monitored and recorded using the SE Suite system.

Water recycled/reused

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Monthly

(9.2.3) Method of measurement

Direct measurement or calculation

(9.2.4) Please explain

100% of recycled or reused water is monitored at the assets. Depending on the size of the site, production technology and regulatory restrictions, water consumption is calculated on site based on the data available on a daily, weekly or monthly basis. In recent years, new initiatives are emerging to optimize the use of water, such as water reuse through rainwater harvesting, percolation water harvesting and effluent reuse, for example.

The provision of fully-functioning, safely managed WASH services to all workers

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Daily

(9.2.3) Method of measurement

Direct measurement

(9.2.4) Please explain

The supply of water, sanitation and hygiene (WASH) services complies with the standards required by Ministry of Health Ordinance No. 05 of 28/09/2017, Annex XX and is managed to ensure safe consumption and use by all employees at all company units. All reports on the characterization of water for human consumption are recorded, regardless of the source of the drinking water purchased, whether it's from drums or other sources, such as artesian wells and the water supply concessionaire, depending on the location. The quality of the water supplied to workers is analyzed regularly, and in some cases daily, by means of sampling and the analysis involves comparison with the parameters defined in the Ministry of Health's Ordinance.
[Fixed row]

(9.2.1) For your hydropower operations, what proportion of the following water aspects are regularly measured and monitored?

Fulfilment of downstream environmental flows

(9.2.1.1) % of sites/facilities/operations measured and monitored

Select from:

☑ 100%

(9.2.1.2) Please explain

100% of hydroelectric plants seek to respect minimum river flows, environmental restrictions and multiple uses, so environmental flows downstream are monitored locally and continuously in relation to the obligations of the operating license for all sites, so as not to affect other users (agriculture, fishing, recreation, etc.). The hydroelectric plants have an Operating Instruction that defines the technical, environmental and operational parameters to standardize operating procedures from the planning phase, daily operating schedule and real-time operation of the assets. To ensure that the parameters required by the legislation are exceeded in the conservation of water resources, the company carries out surface water quality monitoring programs in the reservoirs it manages, with the support of specialized and independent companies. In 2023, the consolidated monitoring results classified the water quality of the reservoirs as "Excellent" or "Good" in general, according to the methodology established by the São Paulo State Environmental Company (Cetesb) for the Water Quality Index. The Springs Protection and Conservation Program,

developed voluntarily by the company since 2010, in different regions of the country, with partnerships signed with government and third sector organizations, promotes the conservation of springs, while contributing to improving the quality of the water consumed by the local population. In addition, Engie Brasil Energia participates in the Rio Grande, Araguari, Iguaçu and Uruguay River Basin Committees, as well as the State Water Resources Councils of the states of Santa Catarina and Paraná, to actively contribute to public policies on the use of water resources and the management of multiple uses of the reservoirs under its concession.

Sediment loading

(9.2.1.1) % of sites/facilities/operations measured and monitored

Select from:

☑ 100%

(9.2.1.2) Please explain

Engie Brasil Energia operates and maintains a Network of Hydrosedimentological Monitoring Stations in the reservoirs of its hydroelectric plants with the aim of monitoring sediment input and deposition. This monitoring is characterized by periodic measurements of liquid and solid discharges at pre-defined hydrosedimentometric stations, which make daily limnimetric records at the ruler sections. The discharge measurements make it possible to determine and/or update the key curves of the fluviometric stations of the tributaries upstream of the reservoirs. Based on the key curves and the limnimetric observations made at the stations, the trend in sediment production in the area of influence of the reservoirs can be quantified and monitored. The frequency of measurements complies with the requirements of ANA-ANEEL Resolution 03/2010, which can vary from daily to quarterly checks on each asset.

Other, please specify

(9.2.1.1) % of sites/facilities/operations measured and monitored

Select from:

☑ Not relevant

(9.2.1.2) Please explain

In hydroelectric plant operations, aspects other than flow control, water quality and sediment input are of little relevance at the operational, social and environmental levels.
[Fixed row]

(9.2.2) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

Total withdrawals

(9.2.2.1) Volume (megaliters/year)

3689.17

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ Lower

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Facility closure

(9.2.2.4) Five-year forecast

Select from:

☑ Lower

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.2.6) Please explain

In view of Engie Brasil Energia's commitment to decarbonizing its generating fleet, the Pampa Sul Thermoelectric Power Plant was removed from the Company's portfolio in May 2023, and for this reason there was a significant reduction in the volume of water withdrawn in relation to the previous year. In accordance with the ENGIE Group's Non-Financial Objectives, the Company seeks to be increasingly efficient in its use of water resources and is working to reduce the consumption of fresh water by the energy produced by around 70%, using 2019 as a benchmark, reaching 0.1 m3/kWh by 2030. In this sense, it is expected that there will be a

reduction in the volume of water abstracted next year, mainly due to the removal of the Lages biomass plant from Engie Brasil Energia's portfolio by the beginning of 2024. In addition, the company is developing initiatives to reuse and reduce consumption and for the coming years, Engie will continue to invest in renewable energy and seek to reduce the water footprint of its activities.

Total discharges

(9.2.2.1) Volume (megaliters/year)

1696.56

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.2.4) Five-year forecast

Select from:

☑ Lower

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.2.6) Please explain

In 2023, the period of operation of the biomass plants was extended compared to 2022, especially in Ibitiuva, the Floresta and Paracatu Photovoltaic Plants operated the full year, in addition, some Engie Brasil Energia hydroelectric plants are undergoing modernization, which resulted in an increase in the number of people working at these plants and, consequently, in greater consumption and disposal of water, compared to the previous year.

Total consumption

(9.2.2.1) Volume (megaliters/year)

1992.62

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ Much lower

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Facility closure

(9.2.2.4) Five-year forecast

Select from:

☑ Lower

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.2.6) Please explain

In 2023, thermoelectric generation was responsible for the company's largest industrial water consumption. Due to the exit of the Jorge Lacerda Thermoelectric Complex from the Company's asset portfolio in 2021 and the Pampa Sul Thermoelectric Plant in 2023, the Company's water footprint has been significantly reduced in terms of water withdrawal and consumption. In addition, guided by the Non-Financial Objectives established by the Engie Group for the period up to 2030, the Company is seeking to be increasingly efficient in its use of water resources and is working to reduce the consumption of fresh water by the energy produced by around 70%, with 2019 as the reference year. For the next few years, the Lages biomass plant is being phased out, which should also contribute to reducing the company's water consumption.
[Fixed row]

(9.2.4) Indicate whether water is withdrawn from areas with water stress, provide the volume, how it compares with the previous reporting year, and how it is forecasted to change.

(9.2.4.1) Withdrawals are from areas with water stress

Select from:

☑ Yes

(9.2.4.2) Volume withdrawn from areas with water stress (megaliters)

0.2

(9.2.4.3) Comparison with previous reporting year

Select from:

☑ This is our first year of measurement

(9.2.4.4) Primary reason for comparison with previous reporting year

Select from:

☑ Change in accounting methodology

(9.2.4.5) Five-year forecast

Select from:

☑ About the same

(9.2.4.6) Primary reason for forecast

Select from:

☑ Maximum potential volume reduction already achieved

(9.2.4.7) % of total withdrawals that are withdrawn from areas with water stress

0.01

(9.2.4.8) Identification tool

Select all that apply

☑ WRI Aqueduct

(9.2.4.9) Please explain

The Engie Group maps the vulnerability of its assets to the risk of water stress according to the incidence verified in the Aqueduct Water Risk Atlas, a tool that classifies this risk into five categories: very high, high, medium, low and very low. In this assessment, Engie Brasil Energia's assets were classified in the very low to medium range, except for the Floresta Photovoltaic Complex (RN), in a region classified as having high water stress. Assets in water-stressed areas are assessed annually by entering the asset's geographical coordinates into the Aqueduct Water Risk Atlas. The generation asset Floresta Photovoltaic Complex (RN), located in a water-stressed area, was acquired in 2022, and does not use water in its production process, representing around 0.003% of the total water consumed by the company in the year. This risk is classified and managed based on the requirements set out in the Engie Group's Environmental Plan, which considers, in addition to location, the asset's annual water consumption. The outlook for the coming years is that the volume abstracted from the area under water stress will remain the same, bearing in mind that for the operation of the Floresta Photovoltaic Complex (RN), the minimum volume of water is already extracted from the area, in compliance with the requirements and authorizations of the environmental agencies. The water consumed at this asset is used exclusively for cleaning the photovoltaic panels, which is carried out every 2 or 3 years, depending on need, to ensure better efficiency in electricity generation. The initiative to reduce the washing of photovoltaic panels every year to every two or three years already represents a significant action to ensure savings in the use of water in this asset.
[Fixed row]

(9.2.7) Provide total water withdrawal data by source.

Fresh surface water, including rainwater, water from wetlands, rivers, and lakes

(9.2.7.1) Relevance

Select from:

☑ Relevant

(9.2.7.2) Volume (megaliters/year)

1805.51

(9.2.7.3) Comparison with previous reporting year

Select from:

☑ Much lower

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

☑ Facility closure

(9.2.7.5) Please explain

Relevant because the company uses fresh surface water for cooling and industrial processes to generate electricity. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. Therefore, the volume of fresh water abstracted in 2023 was much lower than in 2022. There was a 57% reduction in the volume of surface water withdrawals for generation, due to the removal of the Pampa Sul Thermoelectric Plant, which was responsible for the company's largest industrial water withdrawal. Thus, due to the exit of assets such as the Pampa Sul Thermoelectric Plant,in 2023, and next year, the Lages biomass plant, the company's water footprint has been steadily reduced. Engie seeks to be increasingly efficient in its use of water resources and is working to reduce the consumption of fresh water by the energy produced by around 70%, with 2019 as the reference year

Brackish surface water/Seawater

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Engie Brasil Energia has no history of collecting brackish or salt water and, given the location of the hydroelectric plants, should not have any records in the future. Therefore, the withdrawal of brackish or salt water/sea water is not a relevant parameter for the company.

Groundwater – renewable

(9.2.7.1) Relevance

Select from:

☑ Relevant

(9.2.7.2) Volume (megaliters/year)

17.82

(9.2.7.3) Comparison with previous reporting year

Select from:

☑ Much higher

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.7.5) Please explain

Relevant because Engie Brasil Energia uses renewable groundwater for industrial processes, but the volumes are very low in relation to other categories of withdrawal. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. Therefore, the volume of groundwater withdrawals in 2023 was much higher than in 2022. In 2023, there was a 26% increase in the volume of groundwater compared to the previous year, due to the continuation of the modernization projects at the Salto Osório (PR), Jaguara (SP) and Miranda (MG) hydroelectric plants, which led to an increase in water consumption, and this came from groundwater withdrawal.

Groundwater – non-renewable

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Engie Brasil Energia has no history of non-renewable groundwater withdrawals in its activities and should not present any records in the future. Therefore, non-renewable groundwater withdrawal is not a relevant parameter for the company.

Produced/Entrained water

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Due to the characteristics of its activities and sector, Engie Brasil Energia does not withdrawal water produced on its sites. Therefore, it has no history of this information, and it is not considered a relevant parameter for the company.

Third party sources

(9.2.7.1) Relevance

Select from:

☑ Relevant

(9.2.7.2) Volume (megaliters/year)

1865.85

(9.2.7.3) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.7.5) Please explain

Relevant because Engie Brasil Energia uses outsourced sources of water for some activities. The figures for outsourced sources come from water tankers and municipal water supply concessionaires. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. Therefore, the volume of third-party water used in 2023 was approximately the same as in 2022. In 2023, water was purchased from local water tankers suppliers and from municipalities for the Assu, Campo Largo, Cidade Azul, Ferrari, Floresta, Lages, Umburanas and Pampa assets, but this was not a significant different volume compared to the previous year.
[Fixed row]

(9.2.8) Provide total water discharge data by destination.

Fresh surface water

(9.2.8.1) Relevance

Select from:
☑ Relevant

(9.2.8.2) Volume (megaliters/year)

52.41

(9.2.8.3) Comparison with previous reporting year

Select from:
☑ Much lower

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:
☑ Facility closure

(9.2.8.5) Please explain

Relevant because the company withdrawal and discharges fresh surface water for industrial processes to generate electricity. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. The volume of fresh water discharged in 2023 was much lower than in 2022. This is due to the departure of the Pampa Sul Thermoelectric Power Plant

from the company's portfolio in May 2023. Over the years, in addition to the Pampa Sul Thermoelectric Plant, the Jorge Lacerda Thermoelectric Complex was also phased out in 2021. Engie strives to be increasingly efficient in its use of water resources and is working to reduce the discharge of fresh water by the energy produced. For the coming years, it is expected that there will be a further reduction in the volume of water discharged, with the removal of the Lages biomass plant from the company's portfolio.

Brackish surface water/seawater

(9.2.8.1) Relevance

Select from:

☑ Not relevant

(9.2.8.5) Please explain

Not relevant to Engie Brasil Energia's context as there is no discharge into brackish surface water/sea water.

Groundwater

(9.2.8.1) Relevance

Select from:

☑ Not relevant

(9.2.8.5) Please explain

Not relevant to Engie Brasil Energia's context as there is no discharge into groundwater.

Third-party destinations

(9.2.8.1) Relevance

Select from:

☑ Relevant

(9.2.8.2) Volume (megaliters/year)

1643.61

(9.2.8.3) Comparison with previous reporting year

Select from:

☑ Higher

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.8.5) Please explain

Relevant because the company uses the municipal wastewater collection and treatment service. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. The volume of water discharged to third parties in 2023 was higher than in 2022, due to the modernization of processes at some of the company's hydroelectric plants, such as Salto Osório (PR), Jaguara (SP) and Miranda (MG), which led to an increase in consumption patterns and, consequently, an increase in the volume of effluent discharged. These modernization processes are not carried out every year, so for the coming years there is an expectation of a reduction in the volume of water discharged to third parties.
[Fixed row]

(9.2.9) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

Tertiary treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

1.06

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Higher

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Other, please specify **:**Equipment maintenance and water leaks at some hydroelectric plants

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 1-10

(9.2.9.6) Please explain

Engie Brasil Energia has effluents from administrative activities and industrial activities for generating electricity, mainly from equipment cooling processes. Tertiary treatment takes place at around 9% of the company's hydroelectric plants and complies with the parameters of CONAMA Resolution No. 430/2011. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. The volume of effluents with tertiary treatment in 2023 was higher than in 2022 due to the volume of effluents generated from leaks and maintenance needs identified at some of the company's assets, such as the Cana Brava, São Salvador and Estreito Hydroelectric Power Plants. Given that these leaks and maintenance work have been identified and corrected, it is expected that in the coming years there will be a reduction in the volume of water destined for tertiary treatment.

Secondary treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

51.35

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Much lower

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 21-30

(9.2.9.6) Please explain

Engie Brasil Energia has effluents from administrative activities and industrial activities to generate electricity, mainly from equipment cooling processes. Secondary treatment takes place at around 25% of the company's plants and complies with the parameters of CONAMA Resolution No. 430/2011. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. The volume of effluent with secondary treatment in 2023 was much lower than in 2022, due to the removal of the Pampa Sul Thermoelectric Plant, which was responsible for the company's largest consumption of industrial water, around 47 megaliters, which represents around 90% of the volume of effluent with secondary treatment in 2023.

Primary treatment only

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Not relevant

(9.2.9.6) Please explain

It is not relevant because Engie Brasil Energia carries out additional treatment processes in addition to primary treatment before discharging the effluent, to comply with the parameters defined in current legislation, CONAMA Resolution No. 430/2011.

Discharge to the natural environment without treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Not relevant

(9.2.9.6) Please explain

It is not relevant because Engie Brasil Energia does not have any volume of water, apart from the volumes of water used to generate energy at the hydroelectric plants, returning to nature untreated. In the case of the water used after the cooling processes, it is reused in the company's activities, so there is no disposal of untreated water.

Discharge to a third party without treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

1644.15

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Higher

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 11-20

(9.2.9.6) Please explain

Relevant because Engie Brasil Energia sends effluents directly to third parties without any treatment. This type of discharged water is sent to a third-party treatment plant to comply with the regulations determined by CONAMA Resolution No. 430, in addition to CONAMA Resolution No. 357/2055. These figures are significant for biomass plants. To define the comparison with the previous year, the following parameters were considered: between 0 and 4.9% equal; between 5 and 10% lower or higher; and greater than 10,1% much lower or much higher. The volume of effluent sent to third parties without treatment in 2023 was higher than in 2022. These increases were significant in biomass plants, which had a longer operating time in 2023, so there was an increase in this type of treatment. The trend is for a reduction over the next few years, given the removal of the Lages biomass plant from the company's portfolio.

Other

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Not relevant

(9.2.9.6) Please explain

Engie Brasil Energia's main activities are the generation of electricity by hydroelectric, solar and biomass plants, so the effluents generated in these and other industrial processes and administrative activities are properly disposed of through secondary, tertiary or third-party treatment, in accordance with current CONAMA Resolutions. Therefore, there is no other type of effluent disposal or treatment.
[Fixed row]

(9.2.10) Provide details of your organization’s emissions of nitrates, phosphates, pesticides, and other priority substances to water in the reporting year.

(9.2.10.1) Emissions to water in the reporting year (metric tons)

0

(9.2.10.2) Categories of substances included

Select all that apply

☑ Nitrates

☑ Phosphates

☑ Pesticides

(9.2.10.4) Please explain

The volume of water used to generate electricity in hydroelectric power stations is not used for consumption and returns entirely to the water body, without any chemical or biological interaction. There is only greater aeration due to physical processes as it passes through the turbines. Therefore, the concentration of substances such as nitrates, phosphates and pesticides are negligible for this type of generation. On the other hand, thermoelectric plants can have considerable levels of these types of substances, which is why the Pampa Sul Thermoelectric Plant carried out this monitoring. Engie Energia Brasil currently has no thermoelectric plants, so this value remains negligible.
[Fixed row]

(9.3) In your direct operations and upstream value chain, what is the number of facilities where you have identified substantive water-related dependencies, impacts, risks, and opportunities?

Direct operations

(9.3.1) Identification of facilities in the value chain stage

Select from:

☑ Yes, we have assessed this value chain stage and identified facilities with water-related dependencies, impacts, risks, and opportunities

(9.3.2) Total number of facilities identified

1

(9.3.3) % of facilities in direct operations that this represents

Select from:

☑ 1-25

(9.3.4) Please explain

The company's only asset in an area of high water stress is the Floresta Photovoltaic Complex, located in the state of Rio Grande do Norte (which corresponds to 3.7% of its total generation assets, or 1.0% of its own installed capacity). Acquired in 2022, this solar generation asset does not use water directly in its production process, only for cleaning and maintaining its photovoltaic panels. Despite being in a water-stressed area, the risk is classified and managed considering, in addition to the location, the asset's annual consumption, which must not exceed the global target - 0.10m3/MWh. In 2023, the Conjunto's consumption was 0.2 ML, 98% below the target. All the company's other assets are in regions classified in the range from very low to medium risk of water stress.

Upstream value chain

(9.3.1) Identification of facilities in the value chain stage

Select from:

☑ No, we have not assessed this value chain stage for facilities with water-related dependencies, impacts, risks, and opportunities, but we are planning to do so in the next 2 years

(9.3.4) Please explain

The company's only asset in an area of high water stress is the Floresta Photovoltaic Complex, located in the state of Rio Grande do Norte (which corresponds to 3.7% of its total generation assets, or 1.0% of its own installed capacity). Acquired in 2022, this solar generation asset does not use water directly in its production process, only for cleaning and maintaining its photovoltaic panels. Despite being in a water-stressed area, the risk is classified and managed considering, in addition to the location, the asset's annual consumption, which must not exceed the global target - 0.10m3/MWh. In 2023, the Conjunto's consumption was 0.2 ML, 98% below the target. All the company's other assets are in regions classified in the range from very low to medium risk of water stress.
[Fixed row]

(9.3.1) For each facility referenced in 9.3, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Row 1

(9.3.1.1) Facility reference number

Select from:

☑ Facility 1

(9.3.1.2) Facility name (optional)

Floresta Photovoltaic Complex

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.4) Dependencies, impacts, risks, and/or opportunities identified at this facility

Select all that apply

☑ Risks

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Brazil

☑ Other, please specify **:**Rio Apodi-Mossoró

(9.3.1.8) Latitude

-4.964266

(9.3.1.9) Longitude

-36.910596

(9.3.1.10) Located in area with water stress

Select from:

☑ Yes

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Solar

(9.3.1.13) Total water withdrawals at this facility (megaliters)

0.17

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ This is our first year of measurement

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0.17

(9.3.1.21) Total water discharges at this facility (megaliters)

0.14

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ This is our first year of measurement

(9.3.1.23) Discharges to fresh surface water

0

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0.14

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0.03

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ This is our first year of measurement

(9.3.1.29) Please explain

The Floresta Photovoltaic Complex, like Engie Brasil Energia's other electricity generation plants, has frequent monitoring of water withdrawal, consumption and discharge parameters. This information is recorded periodically in the SE Suite system to continuously improve the management of the use of water resources. When evaluating the comparison with the behavior of these parameters in 2023, in relation to the history, however, it is not possible to define an increase, reduction or maintenance of the values, given that there was a change in the methodology for calculating these values in 2023. Therefore, it is not possible to make a comparison. In any case, the company has endeavored to reduce water use in all its activities, including the Floresta Photovoltaic Plant.
[Add row]

(9.3.2) For the facilities in your direct operations referenced in 9.3.1, what proportion of water accounting data has been third party verified?

Water withdrawals – total volumes

(9.3.2.1) % verified

Select from:
☑ 76-100

(9.3.2.2) Verification standard used

The parameters of the volume limit defined in the water grant issued by the competent environmental agency, in this case the Rio Grande do Norte State Water Management Institute, are used.

Water withdrawals – volume by source

(9.3.2.1) % verified

Select from:
☑ 76-100

(9.3.2.2) Verification standard used

The parameters of the volume limit defined in the water grant issued by the competent environmental agency, in this case the Rio Grande do Norte State Water Management Institute, are used.

Water withdrawals – quality by standard water quality parameters

(9.3.2.1) % verified

Select from:

☑ 76-100

(9.3.2.2) Verification standard used

The parameters of Ministry of Health Ordinance No. 05 of September 28, 2017, which deals with the procedures for controlling and monitoring the quality of water for human consumption and its standard of potability, and GM/MS Ordinance No. 888, May 4, 2021, are used.

Water discharges – total volumes

(9.3.2.1) % verified

Select from:

☑ 76-100

(9.3.2.2) Verification standard used

Guidelines from current legislation, Conama Resolution No. 430/2011 and Conama Resolution No. 420/2009, are used, given that the system in the Floresta Photovoltaic Complex works with a pit/filter.

Water discharges – volume by destination

(9.3.2.1) % verified

Select from:

☑ 76-100

(9.3.2.2) Verification standard used

Guidelines from current legislation, Conama Resolution No. 430/2011 and Conama Resolution No. 420/2009, are used, given that the system in the Floresta Photovoltaic Complex works with a pit/filter.

Water discharges – volume by final treatment level

(9.3.2.1) % verified

Select from:

☑ 76-100

(9.3.2.2) Verification standard used

Guidelines from current legislation, Conama Resolution No. 430/2011 and Conama Resolution No. 420/2009, are used.

Water discharges – quality by standard water quality parameters

(9.3.2.1) % verified

Select from:

☑ 76-100

(9.3.2.2) Verification standard used

Guidelines from current legislation, Conama Resolution No. 430/2011 and Conama Resolution No. 420/2009, are used, given that the system in the Floresta Photovoltaic Complex works with a pit/filter.

Water consumption – total volume

(9.3.2.1) % verified

Select from:

☑ 76-100

(9.3.2.2) Verification standard used

There is no normative verification standard, but consumption is monitored to assess possible problems such as water leaks.
[Fixed row]

(9.4) Could any of your facilities reported in 9.3.1 have an impact on a requesting CDP supply chain member?

Select from:

☑ No, CDP supply chain members do not buy goods or services from facilities listed in 9.3.1

(9.5) Provide a figure for your organization’s total water withdrawal efficiency.

(9.5.1) Revenue (currency)

10747784000

(9.5.2) Total water withdrawal efficiency

2913333.89

(9.5.3) Anticipated forward trend

Considering the indicator and the target set by the Group for application at Engie Brasil Energia, the rate of freshwater consumption went from 0.19m³/MWh in 2019 to 0.046m³/MWh in 2023, a reduction of around 76%. As set out in the Group's Non-Financial Objectives, the Company aims to be increasingly efficient in its use of water resources and to reduce freshwater consumption for the energy produced by around 70%, using 2019 as a baseline, reaching 0.1 m3/kwh by 2030.
[Fixed row]

(9.7) Do you calculate water intensity for your electricity generation activities?

Select from:

☑ Yes

(9.7.1) Provide the following intensity information associated with your electricity generation activities.

Row 1

(9.7.1.1) Water intensity value (m3/denominator)

0.05

(9.7.1.2) Numerator: water aspect

Select from:

☑ Total water consumption

(9.7.1.3) Denominator

Select from:

☑ MWh

(9.7.1.4) Comparison with previous reporting year

Select from:

☑ Much lower

(9.7.1.5) Please explain

Considering the indicator established by the Group, the rate of freshwater consumption went from 0.19m³/MWh in 2019 to 0.046m³/MWh in 2023, representing around a 75% reduction. This is due to the exit of assets such as the Jorge Lacerda Thermoelectric Complex from the Company's asset portfolio in 2021 and the Pampa Sul Thermoelectric Plant in 2023, which significantly reduced the Company's water footprint. This indicator is used at Engie Brasil Energia to determine which units are most intensive in their use of water and to propose measures to reduce consumption or reuse water. Derived from Engie Brasil Energia's Sustainable Management Policy and guided by the Non-Financial Objectives established by the Eengie Group, Engie Brasil Energia seeks to be increasingly efficient in its use of water resources. As such, it is working to reduce the consumption of freshwater in relation to the energy produced, with the aim of reducing this consumption by 70% by 2030, with 2019 as the baseline. In this sense, it is expected that there will be a reduction in the volume of water withdrawal and consumed next year, mainly due to the removal of the Lages biomass plant from the company's portfolio. In addition, there are several actions already underway to reduce and reuse water.
[Add row]

(9.12) Provide any available water intensity values for your organization’s products or services.

Row 1

(9.12.1) Product name

Electricity generation

(9.12.2) Water intensity value

0.046

(9.12.3) Numerator: Water aspect

Select from:

☑ Water consumed

(9.12.4) Denominator

MWh

(9.12.5) Comment

Considering the indicator established by the Group, the rate of freshwater consumption went from 0.19m³/MWh in 2019 to 0.046m³/MWh in 2023, representing around a 75% reduction. This is due to the exit of assets such as the Jorge Lacerda Thermoelectric Complex from the Company's asset portfolio in 2021 and the Pampa Sul Thermoelectric Plant in 2023, which significantly reduced the Company's water footprint. This indicator is used at Engie Brasil Energia to determine which units are most intensive in their use of water and to propose measures to reduce consumption or reuse water. Engie Brasil Energia seeks to be increasingly efficient in its use of water resources. It is therefore working to reduce the consumption of freshwater in relation to the energy produced, with the aim of reducing this consumption by 70% by 2030, taking 2019 as the baseline. In this sense, it is expected that there will be a reduction in the volume of water abstracted and consumed next year.
[Add row]

(9.13) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances	Comment
	Select from: ☑ No	*Engie Brasil Energia produces and supplies electricity, which does not contain any hazardous substances, as defined by the regulatory authority.*

[Fixed row]

(9.14) Do you classify any of your current products and/or services as low water impact?

(9.14.1) Products and/or services classified as low water impact

Select from:

☑ Yes

(9.14.2) Definition used to classify low water impact

Engie Brasil Energia classifies low water impact activities as those that do not directly involve water in their processes, such as solar power plants, wind farms and transmission lines. On the other hand, electricity generation activities that have a high impact and dependence on water are hydroelectric and thermoelectric power plants, which are responsible for significant volumes of water, especially water withdrawal and discharge. Water impact is considered in the production of electricity and transmission and refers to the amount of water used for these activities. To increasingly reduce the water impact of all its operations, Engie presents indicators associated with increasing renewable energy generation capacity, which is directly related to lower GHG emissions and a smaller water footprint. In the case of the Floresta Photovoltaic Complex solar power plant, for example, located in a water-stressed area, Engie has reduced water consumption for electricity generation as much as possible by reducing the cleaning of photovoltaic panels, among other measures.

(9.14.4) Please explain

The generation of electricity through solar power plants, wind farms and transmission lines, consume less water both in their process and in their maintenance compared to activities that require water in their operation, compared to hydroelectric and thermoelectric plants. In other words, they are less water-intensive. In addition, Engie has actions to reduce water use in all its processes, linked to the monitoring of indicators associated with increasing renewable energy generation capacity, which is directly related to lower GHG emissions and a smaller water footprint.
[Fixed row]

(9.15) Do you have any water-related targets?

Select from:
☑ Yes

(9.15.1) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

	Target set in this category	Please explain
Water pollution	*Select from:* ☑ Yes	*Rich text input [must be under 1000 characters]*
Water withdrawals	*Select from:* ☑ Yes	*Rich text input [must be under 1000 characters]*
Water, Sanitation, and Hygiene (WASH) services	*Select from:* ☑ Yes	*Não é aplicável para nossa atividade. Categoria de meta não é relevante para as operações da organização.*
Other	*Select from:* ☑ No, and we do not plan to within the next two years	*No specific targets are being planned beyond the previous themes.*

[Fixed row]

(9.15.2) Provide details of your water-related targets and the progress made.

Row 1

(9.15.2.1) Target reference number

Select from:

☑ Target 1

(9.15.2.2) Target coverage

Select from:

☑ Site/facility

(9.15.2.3) Category of target & Quantitative metric

Water withdrawals

☑ Other water withdrawals, please specify **:**Keep the funding amount equal to or lower than 2022

(9.15.2.4) Date target was set

01/31/2023

(9.15.2.5) End date of base year

12/31/2022

(9.15.2.6) Base year figure

2077.86

(9.15.2.7) End date of target year

12/31/2023

(9.15.2.8) Target year figure

2077.86

(9.15.2.9) Reporting year figure

1934.97

(9.15.2.10) Target status in reporting year

Select from:

☑ Achieved and maintained

(9.15.2.12) Global environmental treaties/initiatives/ frameworks aligned with or supported by this target

Select all that apply

☑ Sustainable Development Goal 6

(9.15.2.13) Explain target coverage and identify any exclusions

Target set at the Cana Brava HPP to reduce consumption of natural resources, seeking to keep treated water consumption in 2023 lower than or equal to consumption in 2022 (2077.86 m3).

(9.15.2.15) Actions which contributed most to achieving or maintaining this target

Awareness-raising work among staff on the conscious use of resources, elimination of leaks in the plant's hydraulic installations, replacement of taps with automatic valves.

(9.15.2.16) Further details of target

Target reassessed annually with the main objective of continuing stability or reducing consumption.

Row 2

(9.15.2.1) Target reference number

Select from:

☑ Target 2

(9.15.2.2) Target coverage

Select from:

☑ Organization-wide (direct operations only)

(9.15.2.3) Category of target & Quantitative metric

Water pollution

☑ Other water pollution, please specify **:** No environmental infractions with a conviction without the possibility of appeal

(9.15.2.4) Date target was set

01/31/2022

(9.15.2.5) End date of base year

12/31/2022

(9.15.2.6) Base year figure

1

(9.15.2.7) End date of target year

12/31/2023

(9.15.2.8) Target year figure

0

(9.15.2.9) Reporting year figure

0

(9.15.2.10) Target status in reporting year

Select from:

☑ Achieved

(9.15.2.11) % of target achieved relative to base year

100

(9.15.2.12) Global environmental treaties/initiatives/ frameworks aligned with or supported by this target

Select all that apply

☑ Sustainable Development Goal 6

(9.15.2.13) Explain target coverage and identify any exclusions

In 2023, one of the targets set by the company was to have zero environmental infractions with a conviction without the possibility of appeal. This goal aims to ensure continuous improvement in the management of the reservoirs of Engie Brasil Energia's hydroelectric plants, helping to minimize potential impacts on water quality and ichthyofauna. In other words, achieving the target is directly associated with reducing pollution of water bodies. This target is relevant for the company, considering that the company's portfolio is made up of hydroelectric assets, which have the highest demand for water and, consequently, the greatest potential impact on water resources.

(9.15.2.15) Actions which contributed most to achieving or maintaining this target

Engie Brasil Energia's Environmental Policy includes robust management of aspects associated with water withdrawal, discharge and consumption. Among the existing processes is that of identifying potential contributions to water conservation, considering quality and availability. Regarding water disposal, the company adopts standards that consider the characteristics of the receiving water body and the strictest limits laid down in current legislation. All effluents generated in operations, as well as in implementation activities, are treated before they are finally disposed of or discharged. These actions contribute to achieving the target, which is directly associated with reducing pollution of water bodies.

(9.15.2.16) Further details of target

Target reassessed annually with the main objective of maintaining water quality in water bodies.

Row 3

(9.15.2.1) Target reference number

Select from:

☑ Target 3

(9.15.2.2) Target coverage

Select from:

☑ Site/facility

(9.15.2.3) Category of target & Quantitative metric

Water, Sanitation, and Hygiene (WASH) services

☑ Increase in the proportion of local population using safely managed drinking water services around our facilities and operations

(9.15.2.4) Date target was set

01/01/2021

(9.15.2.5) End date of base year

01/01/2020

(9.15.2.6) Base year figure

30

(9.15.2.7) End date of target year

12/31/2024

(9.15.2.8) Target year figure

100

(9.15.2.9) Reporting year figure

100

(9.15.2.10) Target status in reporting year

Select from:

☑ Achieved

(9.15.2.11) % of target achieved relative to base year

100

(9.15.2.12) Global environmental treaties/initiatives/ frameworks aligned with or supported by this target

Select all that apply

☑ Sustainable Development Goal 6

(9.15.2.13) Explain target coverage and identify any exclusions

The goal is to regulate the conservation, recovery, use, and occupation of the reservoir's surroundings in order to maintain the environmental quality of the water body. This will be achieved through the revision of the Environmental Conservation and Use Plan for the Surroundings of the Artificial Reservoir (PACUERA) at the Salto Santiago Hydroelectric Plant (UHSS). Achieving this goal contributes to increasing the availability of quality water for the local population.

(9.15.2.15) Actions which contributed most to achieving or maintaining this target

A consulting firm was hired to review the PACUERA in 2021. In addition, technical meetings with stakeholders were held to map usage demands throughout the review process, along with a public consultation with stakeholders (scheduled for November 2024).

(9.15.2.16) Further details of target

This goal will not be reassessed annually after its achievement, as it will have fulfilled its purpose upon completion.
[Add row]

C10. Environmental performance - Plastics

(10.1) Do you have plastics-related targets, and if so what type?

(10.1.1) Targets in place

Select from:

☑ No, and we do not plan to within the next two years

(10.1.3) Please explain

Engie Brasil Energia conducts a comprehensive materiality analysis to identify and prioritize the most relevant issues for its operations and stakeholders. During this process, issues such as climate change, water security and biodiversity preservation were identified as critical for the company, guiding sustainability efforts and investments. However, the analysis also revealed that the issue of plastics is not considered material for the company. This is due to the fact that the main operations and activities, focused on generating, transmitting and selling energy, do not involve processes that result in significant production, use or disposal of plastics. Therefore, although the global importance of plastic waste management and its relevance to many sectors is recognized, this issue does not directly align with the nature of Engie's operations and environmental impacts.
[Fixed row]

(10.2) Indicate whether your organization engages in the following activities.

Production/commercialization of plastic polymers (including plastic converters)

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Production/commercialization of durable plastic goods and/or components (including mixed materials)

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Usage of durable plastics goods and/or components (including mixed materials)

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not operate with this type of material.

Production/commercialization of plastic packaging

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Production/commercialization of goods/products packaged in plastics

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Provision/commercialization of services that use plastic packaging (e.g., food services)

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Provision of waste management and/or water management services

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Provision of financial products and/or services for plastics-related activities

(10.2.1) Activity applies

Select from:

☑ No

(10.2.2) Comment

Engie does not engage in this type of activity.

Other activities not specified

(10.2.1) Activity applies

Select from:

☑ Yes

(10.2.2) Comment

Engie produces a relatively low amount of plastic waste, which represents just 0.01% of the total waste generated by the company. Most of this plastic waste comes from packaging. Currently, the plastics generated are responsibly disposed of and 100% monitored, being sent for recycling (64.2%), co-processing (26.4%) and landfill (9.4%). The correct disposal of waste is a priority for Engie, and the total volume of waste, including plastics, is checked annually by an independent third party, as detailed in the company's sustainability report. Although it is possible that the volume of plastic waste will increase due to the addition of five new plants to the company's portfolio in 2024, this increase will not be significant in relation to the total waste generated. Engie remains committed to diverting as much plastic waste as possible from landfills, prioritizing its recycling and reuse, in line with its sustainable waste management strategy. In 2023 an average recovery target of 72% of waste was set, including plastic waste. The result at the end of the period was 80%, 8 p.p. higher than the target.
[Fixed row]

C11. Environmental performance - Biodiversity

(11.2) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

(11.2.1) Actions taken in the reporting period to progress your biodiversity-related commitments

Select from:

☑ Yes, we are taking actions to progress our biodiversity-related commitments

(11.2.2) Type of action taken to progress biodiversity- related commitments

Select all that apply

☑ Law & policy

☑ Species management

☑ Education & awareness

☑ Land/water protection

☑ Land/water management

☑ Livelihood, economic & other incentives

[Fixed row]

(11.3) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
	Select from: ☑ Yes, we use indicators	*Select all that apply* ☑ State and benefit indicators

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
		☑ Other, please specify :Water consumption and withdrawal; number of springs recovered; hectares of preserved area, number of seedlings planted; number of species monitored; Investment in socio-environmental projects of public interest.

[Fixed row]

(11.4) Does your organization have activities located in or near to areas important for biodiversity in the reporting year?

Legally protected areas

(11.4.1) Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity

Select from:

☑ Yes

(11.4.2) Comment

Attention to biodiversity is a cornerstone of Engie Brasil Energia's environmental conservation strategy, which has historically developed programs and initiatives aimed at mitigating negative impacts on the surroundings of the projects, promoting the integrity of ecosystems, as well as enhancing positive effects on nature through its performance.

UNESCO World Heritage sites

(11.4.1) Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity

Select from:

☑ Not assessed

(11.4.2) Comment

Area not evaluated by Engie.

UNESCO Man and the Biosphere Reserves

(11.4.1) Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity

Select from:

☑ Yes

(11.4.2) Comment

Attention to biodiversity is a cornerstone of Engie Brasil Energia's environmental conservation strategy, which has historically developed programs and initiatives aimed at mitigating negative impacts on the surroundings of the projects, promoting the integrity of ecosystems, as well as enhancing positive effects on nature through its performance.

Ramsar sites

(11.4.1) Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity

Select from:

☑ No

(11.4.2) Comment

Engie's activities are not located in or near this type of area.

Key Biodiversity Areas

(11.4.1) Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity

Select from:

☑ Yes

(11.4.2) Comment

Attention to biodiversity is a cornerstone of Engie Brasil Energia's environmental conservation strategy, which has historically developed programs and initiatives aimed at mitigating negative impacts on the surroundings of the projects, promoting the integrity of ecosystems, as well as enhancing positive effects on nature through its performance.

Other areas important for biodiversity

(11.4.1) Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity

Select from:

☑ No

(11.4.2) Comment

Engie's activities are not located in or near this type of area.
[Fixed row]

(11.4.1) Provide details of your organization’s activities in the reporting year located in or near to areas important for biodiversity.

Row 1

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Guartelá Canyon

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Situation: Engie Brasil Energia's activities are in constant interaction with biodiversity, both by improving the services provided by nature (such as biomass, water resources and climate regulation), and by the impact of its industrial facilities on ecosystems. Task: To address these environmental challenges and prioritize the preservation of biodiversity, Engie Brasil Energia established the Biodiversity Matrix Program. This program aims to map preservation opportunities in biomes, identifying endangered species, conservation units and priority protection areas near the company's assets. In addition, the program involves stakeholders and partners who strengthen long-term environmental initiatives. Action: The Biodiversity Matrix Program works diligently to optimize processes and effectively manage risks, impacts and conservation opportunities. Specific action plans are developed for the preservation of biodiversity targets and areas, establishing clear guidelines and objectives. Results: As a result of the Biodiversity Matrix Program, Engie Brasil Energia collects valuable data on the impact of its facilities on ecosystems, enabling informed decision-making and targeted conservation efforts. By mapping conservation opportunities and identifying endangered species and priority areas, the company has taken proactive steps to mitigate their impact on nature. Collaboration with stakeholders and partners has strengthened environmental initiatives, generating lasting positive impacts. In addition, in the licensing process, mitigation measures are also defined through environmental programs, recovery, reforestation, and compensation.

Row 2

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Campos Gerais do Paraná

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 3

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Várzeas do Curso Médio-Alto do Rio Iguaçu

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 4

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Painel / Urupema

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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Row 5

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Interflúvio dos rios Tocantins e Paranã

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 6

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Corredor do Iguaçu

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 7

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual do Rio Guarani

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 8

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Campos da região de Bagé

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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Row 9

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Sento Sé Campo Formoso

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 10

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

General Carneiro

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Electricity generation

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Operational controls

☑ Restoration

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Row 11

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Cerrados do Nordeste do Tocantis

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 12

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Key Biodiversity Areas

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Monumento Natural de Árvores Fossilizadas e Adjacências

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 13

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Natural Municipal do Apertado

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Situation: Engie Brasil Energia's activities are in constant interaction with biodiversity, both by improving the services provided by nature (such as biomass, water resources and climate regulation), and by the impact of its industrial facilities on ecosystems. Task: To address these environmental challenges and prioritize the preservation of biodiversity, Engie Brasil Energia established the Biodiversity Matrix Program. This program aims to map preservation opportunities in biomes, identifying endangered species, conservation units and priority protection areas near the company's assets. In addition, the program involves stakeholders and partners who strengthen long-term environmental initiatives. Action: The Biodiversity Matrix Program works diligently to optimize processes and effectively manage risks, impacts and conservation opportunities. Specific action plans are developed for the preservation of biodiversity targets and areas, establishing clear guidelines and objectives. Results: As a result of the Biodiversity Matrix Program, Engie Brasil Energia collects valuable data on the impact of its facilities on ecosystems, enabling informed decision-making and targeted conservation efforts. By mapping conservation opportunities and identifying endangered species and priority areas, the company has taken proactive steps to mitigate their impact on nature. Collaboration with stakeholders and partners has strengthened environmental initiatives, generating lasting positive impacts. In addition, in the licensing process, mitigation measures are also defined through environmental programs, recovery, reforestation, and compensation.

Row 14

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Natural Municipal Mata do Rio Uruguai Teixeira Soares

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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Row 16

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Natural Municipal Centenário

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 17

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual Fritz Plaumann

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls
☑ Operational controls
☑ Restoration
☑ Biodiversity offsets

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Row 18

(11.4.1.2) Types of area important for biodiversity

Select all that apply
☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:
☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual do Espigão Alto

(11.4.1.6) Proximity

Select from:
☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:
☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply
☑ Physical controls
☑ Operational controls
☑ Restoration
☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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Row 19

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual Rio Canoas

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 20

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual do Papagaio-Charão

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 21

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Natural Municipal de Sagrisa

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

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Row 22

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Not applicable

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Estação Ecológica Rio dos Touros

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 23

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Particular do Patrimônio Natural da Serra do Tombador

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Physical controls

☑ Operational controls

☑ Restoration

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Row 24

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental Lago de São Salvador do Tocantins, Paranã e Palmeirópolis

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 25

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental de Pouso Alto

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

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Row 26

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental Lago de Peixe/Angical

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 27

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual Dom Osório Stoffel

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Situation: Engie Brasil Energia's activities are in constant interaction with biodiversity, both by improving the services provided by nature (such as biomass, water resources and climate regulation), and by the impact of its industrial facilities on ecosystems. Task: To address these environmental challenges and prioritize the preservation of biodiversity, Engie Brasil Energia established the Biodiversity Matrix Program. This program aims to map preservation opportunities in biomes, identifying endangered species, conservation units and priority protection areas near the company's assets. In addition, the program involves stakeholders and partners who strengthen long-term environmental initiatives. Action: The Biodiversity Matrix Program works diligently to optimize processes and effectively manage risks, impacts and conservation opportunities. Specific action plans are developed for the preservation of biodiversity targets and areas, establishing clear guidelines and objectives. Results: As a result of the Biodiversity Matrix Program, Engie Brasil Energia collects valuable data on the impact of its facilities on ecosystems, enabling informed decision-making and targeted conservation efforts. By mapping conservation opportunities and identifying endangered species and priority areas, the company has taken proactive steps to mitigate their impact on nature. Collaboration with stakeholders and partners has strengthened environmental initiatives, generating lasting positive impacts. In addition, in the licensing process, mitigation measures are also defined through environmental programs, recovery, reforestation, and compensation.

Row 28

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental das Dunas da Lagoinha

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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Row 29

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental do Estuário do Rio Mundaú

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Operational controls

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Row 30

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual de Porto Ferreira

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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Row 31

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Particular do Patrimônio Natural Sítio Kon Tiki

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

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Row 32

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Nacional da Chapada das Mesas

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

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Row 33

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Monumento Natural das Árvores Fossilizadas

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

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Row 34

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual do Pau Furado

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

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Row 35

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Particular de Patrimonio Natural - RPPN JACOB

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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Row 36

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual das Furnas de Bom Jesus

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

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Row 37

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental da Baleia Franca

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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Row 38

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Floresta Nacional do Açu

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

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Row 39

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Nacional do Boqueirão da Onça

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

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Row 40

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental do Estado da Escarpa Devoniana

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

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☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Situation: Engie Brasil Energia's activities are in constant interaction with biodiversity, both by improving the services provided by nature (such as biomass, water resources and climate regulation), and by the impact of its industrial facilities on ecosystems. Task: To address these environmental challenges and prioritize the preservation of biodiversity, Engie Brasil Energia established the Biodiversity Matrix Program. This program aims to map preservation opportunities in biomes, identifying endangered species, conservation units and priority protection areas near the company's assets. In addition, the program involves stakeholders and partners who strengthen long-term environmental initiatives. Action: The Biodiversity Matrix Program works diligently to optimize processes and effectively manage risks, impacts and conservation opportunities. Specific action plans are developed for the preservation of biodiversity targets and areas, establishing clear guidelines and objectives. Results: As a result of the Biodiversity Matrix Program, Engie Brasil Energia collects valuable data on the impact of its facilities on ecosystems, enabling informed decision-making and targeted conservation efforts. By mapping conservation opportunities and identifying endangered species and priority areas, the company has taken proactive steps to mitigate their impact on nature. Collaboration with stakeholders and partners has strengthened environmental initiatives, generating lasting positive impacts. In addition, in the licensing process, mitigation measures are also defined through environmental programs, recovery, reforestation, and compensation.

Row 41

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Not applicable

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Estação Ecológica Fernandes Pinheiro

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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Row 42

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área De Proteção Ambiental Do Rio Verde

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 43

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental Estadual Serra da Esperança

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 44

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Floresta Nacional de Irati

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 45

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Nacional dos Campos Gerais

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 46

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Not applicable

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Biológica das Araucárias

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 47

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual de Paracatu

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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Row 48

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental Dunas do Rosado

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 49

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ UNESCO Man and the Biosphere Reserves

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Caatinga

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 50

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ UNESCO Man and the Biosphere Reserves

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Pantanal

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 51

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ UNESCO Man and the Biosphere Reserves

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Cerrado

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 52

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental do Boqueirão da Onça

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 53

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental Gruta dos Brejões - Vereda do Romão Gramacho

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 54

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental Passaúna

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Situation: Engie Brasil Energia's activities are in constant interaction with biodiversity, both by improving the services provided by nature (such as biomass, water resources and climate regulation), and by the impact of its industrial facilities on ecosystems. Task: To address these environmental challenges and prioritize the preservation of biodiversity, Engie Brasil Energia established the Biodiversity Matrix Program. This program aims to map preservation opportunities in biomes, identifying endangered species, conservation units and priority protection areas near the company's assets. In addition, the program involves stakeholders and partners who strengthen long-term environmental initiatives. Action: The Biodiversity Matrix Program works diligently to optimize processes and effectively manage risks, impacts and conservation opportunities. Specific action plans are developed for the preservation of biodiversity targets and areas, establishing clear guidelines and objectives. Results: As a result of the Biodiversity Matrix Program, Engie Brasil Energia collects valuable data on the impact of its facilities on ecosystems, enabling informed decision-making and targeted conservation efforts. By mapping conservation opportunities and identifying endangered species and priority areas, the company has taken proactive steps to mitigate their impact on nature. Collaboration with stakeholders and partners has strengthened environmental initiatives, generating lasting positive impacts. In addition, in the licensing process, mitigation measures are also defined through environmental programs, recovery, reforestation, and compensation.

Row 55

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Relevante Interesse Ecológico da Serra do Tigre

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls
☑ Operational controls
☑ Restoration
☑ Biodiversity offsets

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Row 56

(11.4.1.2) Types of area important for biodiversity

Select all that apply
☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:
☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Estação Ecológica Municipal Severino Ravanello

(11.4.1.6) Proximity

Select from:
☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:
☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply
☑ Physical controls
☑ Operational controls
☑ Restoration
☑ Biodiversity offsets

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Row 57

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Ambiental Natural Marcelina Ravanello

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

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Row 58

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Estadual do Caxambu

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

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(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 59

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Not applicable

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Refúgio da Vida Silvestre do Pinhão

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 60

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Biológica Municipal das Aves

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 61

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Particular de Patrimonio Natural Pedra sobre Pedra

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

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☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 62

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category Ia-III

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Parque Natural Municipal João José Theodoro da Costa Neto

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

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Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

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Row 63

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental das Dunas do Litoral Oeste

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 64

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental do Lagamar do Cauípe

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

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Row 65

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Not applicable

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Estação Ecológica do Pecém

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

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Select all that apply

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Row 66

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Área de Proteção Ambiental do Minaçu

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

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Row 67

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Particular de Patrimonio Natural Valdir Baldin

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Situation: Engie Brasil Energia's activities are in constant interaction with biodiversity, both by improving the services provided by nature (such as biomass, water resources and climate regulation), and by the impact of its industrial facilities on ecosystems. Task: To address these environmental challenges and prioritize the preservation of biodiversity, Engie Brasil Energia established the Biodiversity Matrix Program. This program aims to map preservation opportunities in biomes, identifying endangered species, conservation units and priority protection areas near the company's assets. In addition, the program involves stakeholders and partners who strengthen long-term environmental initiatives. Action: The Biodiversity Matrix Program works diligently to optimize processes and effectively manage risks, impacts and conservation opportunities. Specific action plans are developed for the preservation of biodiversity targets and areas, establishing clear guidelines and objectives. Results: As a result of the Biodiversity Matrix Program, Engie Brasil Energia collects valuable data on the impact of its facilities on ecosystems, enabling informed decision-making and targeted conservation efforts. By mapping conservation opportunities and identifying endangered species and priority areas, the company has taken proactive steps to mitigate their impact on nature. Collaboration with stakeholders and partners has strengthened environmental initiatives, generating lasting positive impacts. In addition, in the licensing process, mitigation measures are also defined through environmental programs, recovery, reforestation, and compensation.

Row 68

(11.4.1.2) Types of area important for biodiversity

Select all that apply

☑ Legally protected areas

(11.4.1.3) Protected area category (IUCN classification)

Select from:

☑ Category IV-VI

(11.4.1.4) Country/area

Select from:

☑ Brazil

(11.4.1.5) Name of the area important for biodiversity

Reserva Particular de Patrimonio Natural Cachoeira da Sucupira

(11.4.1.6) Proximity

Select from:

☑ Up to 25 km

(11.4.1.8) Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Geração de eletricidade

(11.4.1.9) Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Select from:

☑ Yes, but mitigation measures have been implemented

(11.4.1.10) Mitigation measures implemented within the selected area

Select all that apply

☑ Physical controls

☑ Operational controls

☑ Restoration

☑ Biodiversity offsets

(11.4.1.11) Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

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[Add row]

C13. Further information & sign off

(13.1) Indicate if any environmental information included in your CDP response (not already reported in 7.9.1/2/3, 8.9.1/2/3/4, and 9.3.2) is verified and/or assured by a third party?

	Other environmental information included in your CDP response is verified and/or assured by a third party
	Select from: ☑ Yes

[Fixed row]

(13.1.1) Which data points within your CDP response are verified and/or assured by a third party, and which standards were used?

Row 1

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

☑ Climate change

(13.1.1.2) Disclosure module and data verified and/or assured

Environmental performance – Climate change

☑ Waste data

☑ Carbon removals

☑ Base year emissions

☑ Electricity/Steam/Heat/Cooling generation

☑ Emissions reduction initiatives/activities

☑ Year on year change in absolute emissions (Scope 3)

☑ Progress against targets
☑ Project-based carbon credits
☑ Year on year change in emissions intensity (Scope 1 and 2)
☑ Year on year change in emissions intensity (Scope 3)
☑ Year on year change in absolute emissions (Scope 1 and 2)

(13.1.1.3) Verification/assurance standard

General standards

☑ ISAE 3000

Climate change-related standards

☑ IRECS (International Renewable Energy Certificate services)
☑ ISO 14064-3

(13.1.1.4) Further details of the third-party verification/assurance process

Bureau Veritas was hired by Engie Brasil Energia to carry out an independent assurance of the company's 2023 Sustainability Report. The scope of the verification covered the GRI standards and principles for Sustainability Reports, covering the period from January 1, 2023 to December 31, 2023. The assurance involved a variety of activities, including interviews with those responsible for the material topics and the content of the Report, remote verification of corporate and operational processes, analysis of documentary evidence provided by Engie, analysis of stakeholder engagement activities and evaluation of the system used to determine the material aspects included in the Report. The verification level adopted was Limited, in accordance with the requirements of the ISAE 3000 standard, incorporated into Bureau Veritas' internal verification protocols. In its opinion, Bureau Veritas concluded that Engie's Sustainability Report presents the impacts of the company's activities in a balanced way and that an appropriate method of data collection and compilation was used in relation to the GRI Reliability Principle.

(13.1.1.5) Attach verification/assurance evidence/report (optional)

ENGIE_RS2023-EN.pdf

Row 2

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

☑ Water

(13.1.1.2) Disclosure module and data verified and/or assured

Environmental performance – Water security

☑ Water consumption– total volume
☑ Water discharges– total volumes
☑ Water withdrawals– total volumes
☑ Water withdrawals – volumes by source
☑ Water discharges – volumes by destination
☑ Water discharges – volumes by treatment method

(13.1.1.3) Verification/assurance standard

General standards

☑ ISAE 3000

(13.1.1.4) Further details of the third-party verification/assurance process

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(13.1.1.5) Attach verification/assurance evidence/report (optional)

ENGIE_RS2023-EN.pdf

Row 3

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

☑ Biodiversity

(13.1.1.2) Disclosure module and data verified and/or assured

Identification, assessment, and management of dependencies, impacts, risks, and opportunities

☑ Identification of priority locations

(13.1.1.3) Verification/assurance standard

General standards

☑ ISAE 3000

(13.1.1.4) Further details of the third-party verification/assurance process

Bureau Veritas was hired by Engie Brasil Energia to carry out an independent assurance of the company's 2023 Sustainability Report. The scope of the verification covered the GRI standards and principles for Sustainability Reports, covering the period from January 1, 2023 to December 31, 2023. The assurance involved a variety of activities, including interviews with those responsible for the material topics and the content of the Report, remote verification of corporate and operational processes, analysis of documentary evidence provided by Engie, analysis of stakeholder engagement activities and evaluation of the system used to determine the material aspects included in the Report. The verification level adopted was Limited, in accordance with the requirements of the ISAE 3000 standard, incorporated into Bureau Veritas' internal verification protocols. In its opinion, Bureau Veritas concluded that Engie's Sustainability Report presents the impacts of the company's activities in a balanced way and that an appropriate method of data collection and compilation was used in relation to the GRI Reliability Principle.

(13.1.1.5) Attach verification/assurance evidence/report (optional)

ENGIE_RS2023-EN.pdf

Row 4

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

☑ Climate change

☑ Water

(13.1.1.2) Disclosure module and data verified and/or assured

Business strategy

☑ Sustainable finance taxonomy aligned spending/revenue

(13.1.1.3) Verification/assurance standard

General standards

☑ ISAE 3000

(13.1.1.4) Further details of the third-party verification/assurance process

Deloitte and Ernst & Young conducted a verification process of the Engie Group's Integrated Report, evaluating the information presented based on the established Reporting Criteria. This process involved two types of assurance: reasonable assurance and limited assurance. With regard to the information subject to reasonable assurance, it was concluded that the Integrated Report was prepared, in all material respects, in accordance with the Reporting Criteria. For the information subject to limited assurance, based on the procedures performed and the evidence obtained, the audit did not identify any material misstatements that might compromise the conformity of the information, in all material respects, with the Reporting Criteria. The work was carried out in accordance with standard ISAE 3000 (revised), which governs assurance engagements that do not involve auditing or reviewing historical financial information, as published by the International Auditing and Assurance Standards Board (IAASB). In summary, the audit concluded that the Engie Group's Integrated Reporting complies with the Reporting Criteria, in both material and significant respects, with an appropriate level of confidence.

(13.1.1.5) Attach verification/assurance evidence/report (optional)

Integrated Report_Engie Group 2023.pdf

Row 5

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

☑ Water

(13.1.1.2) Disclosure module and data verified and/or assured

Environmental performance – Water security

☑ All data points in module 9

(13.1.1.3) Verification/assurance standard

General standards

☑ Other general verification standard, please specify **:** ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

(13.1.1.4) Further details of the third-party verification/assurance process

Bureau Veritas conducted the Maintenance Audit under the ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 standards. The audit assessed various aspects of Engie's hydroelectric plants, ranging from management to operations, including issues related to compliance with water quality parameters, risk identification, and adherence to environmental regulations and laws. The results indicated no non-conformities in any of the operations.

(13.1.1.5) Attach verification/assurance evidence/report (optional)

Audit report_Engie_BV 2023 (PT).pdf
[Add row]

(13.2) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

(13.2.1) Additional information

In 2023, Engie Brasil Energia deepened its Journey for the Climate, a program structured to guide actions and targets aimed at mitigating and adapting to climate change. This program is divided into three pillars: Management, Mitigation and Adaptation, and was developed based on a comprehensive diagnosis that considers all of the company's direct and indirect emissions, as well as a detailed analysis of its Scope 3, with a view to fully covering emissions in its value chain. Based on this diagnosis and the projected scenarios, Engie began to evaluate initiatives to reduce, eliminate and offset emissions, in line with the parameters established by the Science Based Targets initiative (SBTi). In addition, the company has made efforts to identify the stage of maturity of its suppliers in relation to ESG practices. To this end, the company launched the Supplier Decarbonization Program, aimed at reducing greenhouse gas emissions. This program aims to engage 100% of the company's main suppliers, which account for 80% of Scope 3 emissions, in a plan that continues until 2030. During 2023, Engie also began drawing up adaptation plans for each asset, taking into account the risks, causes, consequences and financial impacts of the effects of climate change, among other aspects. These plans are essential for senior management to be able to direct the necessary resources towards mitigating and adapting to climate change, ensuring that the company is prepared to face future climate challenges. In 2024, the company intends to further deepen its engagement with suppliers, collecting data and structuring actions in a

joint effort to decarbonize the chain. New risks and opportunities will be assessed, including the monetary impact of those considered critical for the company. This process will allow the company to continue to align its actions with best practices and environmental commitments, reinforcing its commitment to sustainability. Engie's Journey for the Climate, whose highlights are in the company's Sustainability Report, not only reaffirms the company's commitment to mitigating and adapting to climate change, but also strengthens water management and biodiversity preservation practices, ensuring an integrated and sustainable approach to tackling environmental challenges.

(13.2.2) Attachment (optional)

ENGIE_RS2023.pdf
[Fixed row]

(13.3) Provide the following information for the person that has signed off (approved) your CDP response.

(13.3.1) Job title

Chief Executive Officer (CEO)

(13.3.2) Corresponding job category

Select from:
☑ Chief Executive Officer (CEO)
[Fixed row]

(13.4) Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.

Select from:
☑ No