

ENGIE BRASIL ENERGIA

INSTITUTIONAL PRESENTATION 2Q23

August, 2023

Disclaimer

This publication may include forward-looking statements on events or results pursuant to Brazilian and international securities' regulations. These forward-looking statements are based on certain assumptions and analyzes made by **ENGIE Brasil Energia S.A.** ("ENGIE Brasil Energia" or "Company"), -previously denominated Tractebel Energia S.A. -, in accordance with its experience and the economic scenario, market conditions and expected events, many of which are outside the control of **ENGIE Brasil Energia**. Important factors which can lead to significant differences between effective results and the forward-looking statements with respect to events or results, include the business strategy of **ENGIE Brasil Energia**, economic and international conditions, technology, financial strategy, development of the government services industry, hydrological conditions, conditions in the financial markets, uncertainty surrounding the results of its future operations, plans, objectives, expectations and intentions and other factors. In the light of these factors, the effective results of **ENGIE Brasil Energia** may differ significantly from those indicated or implicit in the forward-looking statements with respect to events or results.

The information and opinions contained herein should not be understood as a recommendation to potential investors and no investment decision should be based on the veracity, topicality or completeness of this information or these opinions. None of the advisors to **ENGIE Brasil Energia** or the parties related thereto, or their representatives shall accept responsibility for any losses, which may occur as a result of the use or the content in this presentation.

This material includes forward-looking statements as to events subject to risks and uncertainties, which based on existing expectations and forecasts on future events and tendencies, may affect the businesses of **ENGIE Brasil Energia**. These forward-looking statements include forecasts of economic growth and energy supply and demand as well as information on competitive position, the regulatory environment, growth potential opportunities and other matters. Innumerous factors can affect adversely the estimates and assumptions on which these statements are based.

Contents

1. Highlights
2. Shareholding Structure and Business Segments
3. Sales and Energy Trading Strategy
4. Expansion
5. Financial Performance
6. Supporting Data
   - Highlights and ESG KPIs
   - Other attachments



São Salvador Hydro Power Plant



Umburanas Wind Complex

1. Highlights

Highlights

The Company was successful at Aneel's 01/2023 **Transmission Auction** by acquiring **Lot 5**, which will be approximately 1,000 km long, to be implemented in the states of Bahia, Minas Gerais and Espírito Santo.

With the completion of the sale of the Pampa Sul Thermoelectric Power Plant on May 31, the last coal-fired power plant in the portfolio, the Company becomes the **largest generator of 100% renewable electricity** in the country.

Recognition of **R$ 243 million**, associated with the right to **extend the Estreito HPP concession**, arising from liability waiver.

Consolidated the acceleration of the **Climate Journey**, setting clear and measurable goals and pledges covering scopes 1, 2 and 3.

Highlights

Contract signing for the **modernization** of the generating units 1 to 4 and common systems of **Jaguara HPP**, in the amount of R$ 515.7 million.

Approved the **distribution of interim dividends** in the amount of **R$ 767.2 million (R$ 0.9403/share)**, equivalent to 55% of the distributable net income of the first half of 2023.

Shares will trade **ex-dividends from August 22, 2023** and the payment date will be decided upon later by the Management Board.

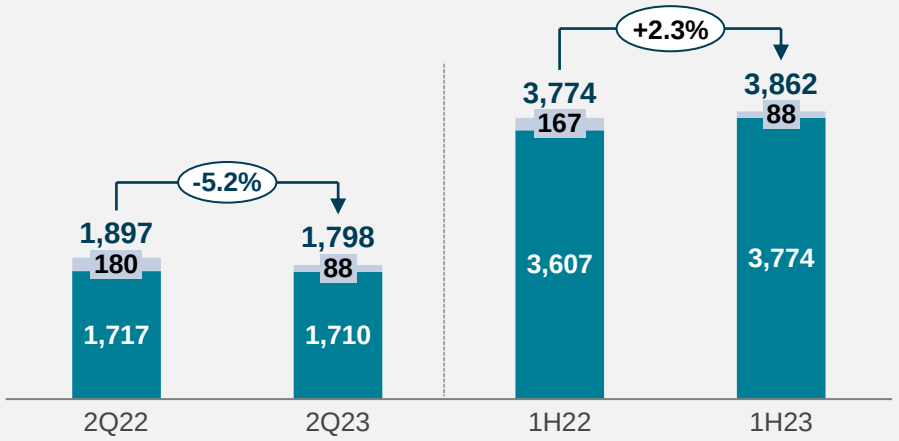
Fitch Ratings raised the Company's **long-term IDR rating** (Issuer Default Rating) **on a global scale in foreign currency** from BB **para BB+**, with a stable outlook as a result of the improvement in the sovereign rating, still one notch above sovereign.



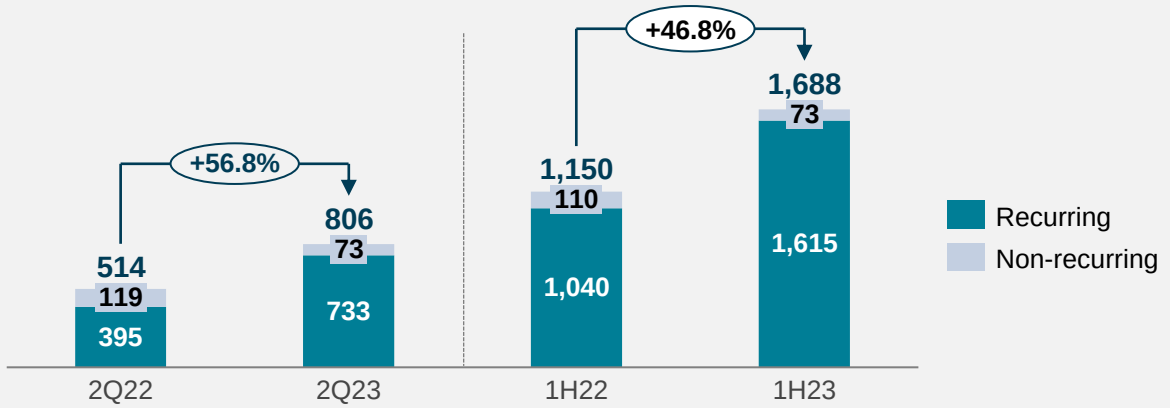
Jaguara Hydro Power Plant

Highlights

Adjusted Ebitda[1] (R$ million)



Adjusted Net Income (R$ million)



Main result drivers vs. 2Q22:

↑	**R$ 239 million**	Extension of Estreito HPP concession
↓	**R$ 214 million**	Financial and contract asset – impact of IPCA decrease
↓	**R$ 64 million**	Periodic transmission tariff review

Net financial result

↑ **R$ 489 million**

Financial income: < R$ 38 million
Financial expenses: < R$ 354 million
Concession payable expenses: < R$ 173 million

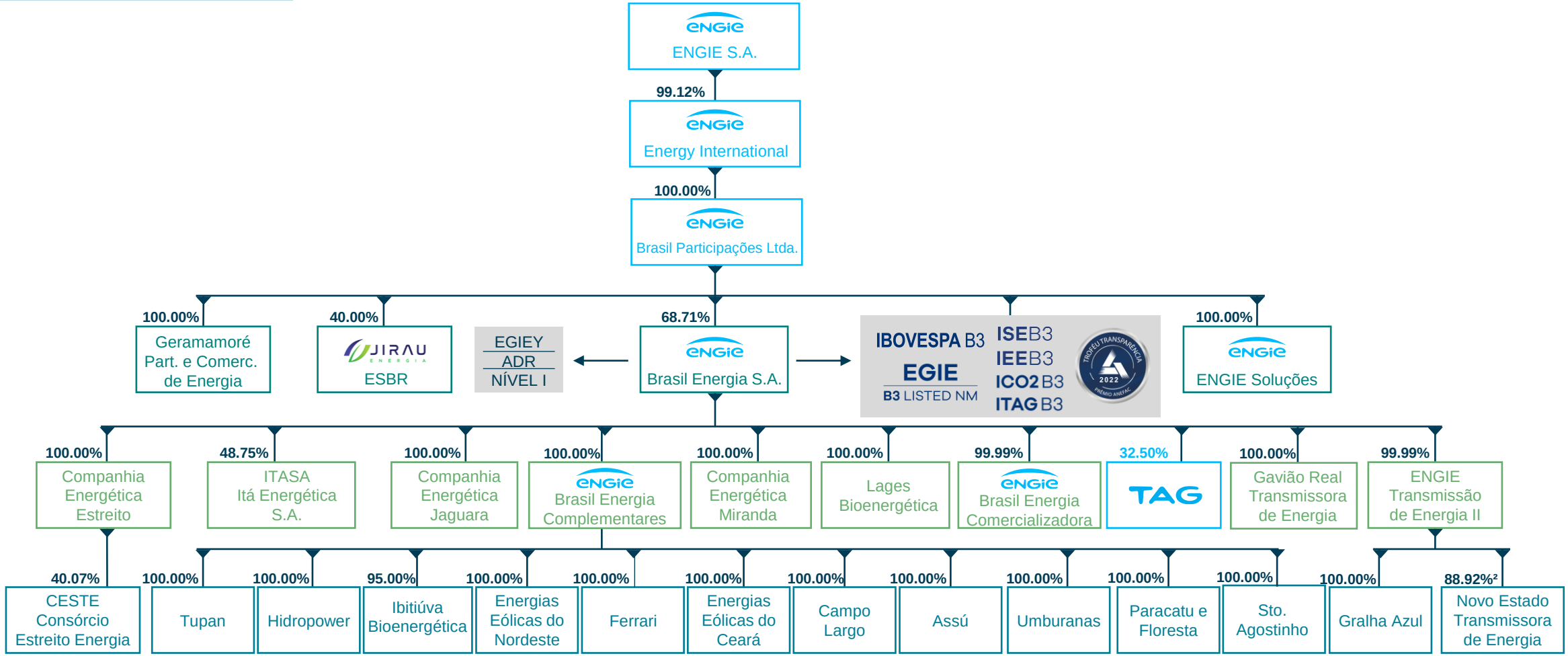
Note:
[1] Adjusted Ebitda: net income + income tax and social contribution + financial result + depreciation and amortization + non-recurring



Headquarters - Florianópolis

2. Shareholding Structure and Business Segments

Shareholding Structure[1]



Notes:
[1] Simplified chart for illustrative purpose only.
[2] Considering the indirect stake of ENGIE Brasil Energia, through Novo Estado Participações S.A.

Balanced Portfolio of Business in Energy Infrastructure



TRANSMISSION

2,709 Km of transmission lines under operation and **6** own substations

- +~1,000 km in early stage of implementation

GENERATION

76 power plants operated with own installed capacity of **8,177** MW (as of June 30, 2023)

TRADING

509 GWh in 2Q23, **5.2%** of the total

NATURAL GAS (TAG)

4,500 Km of pipelines in the Southeast, Northeast and North regions.

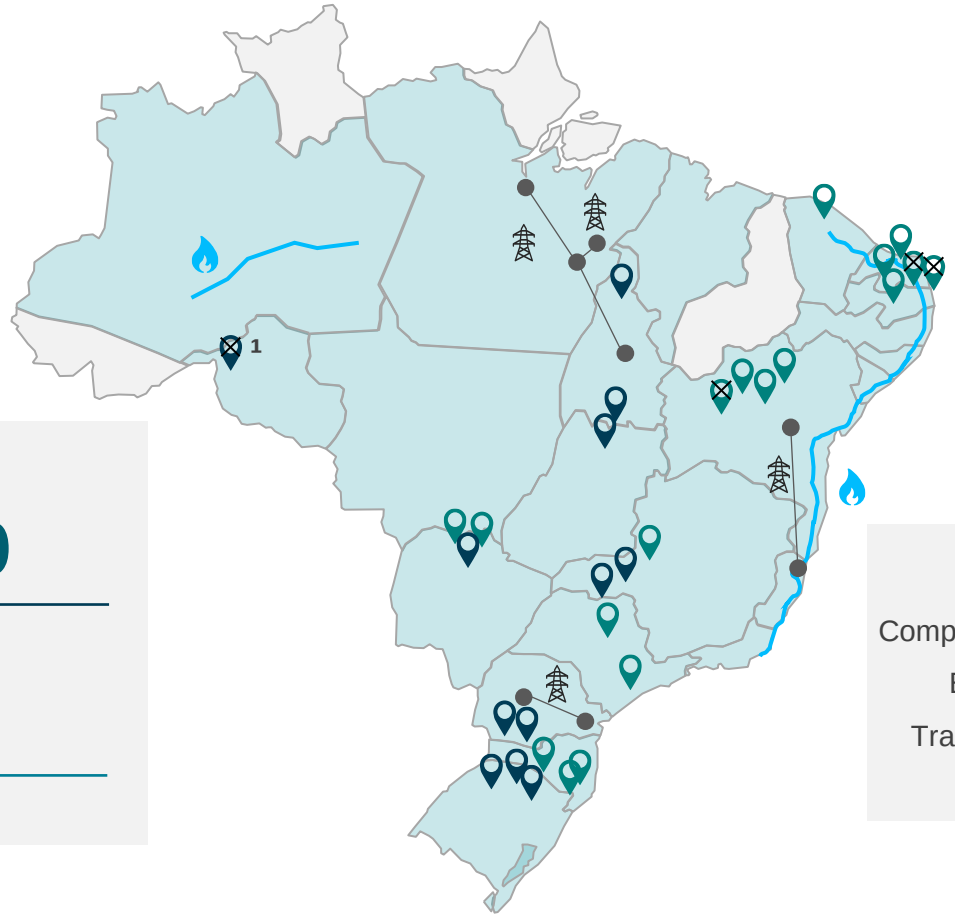
- Stake of 32.5%

78%

Hydro

22%

Complementary



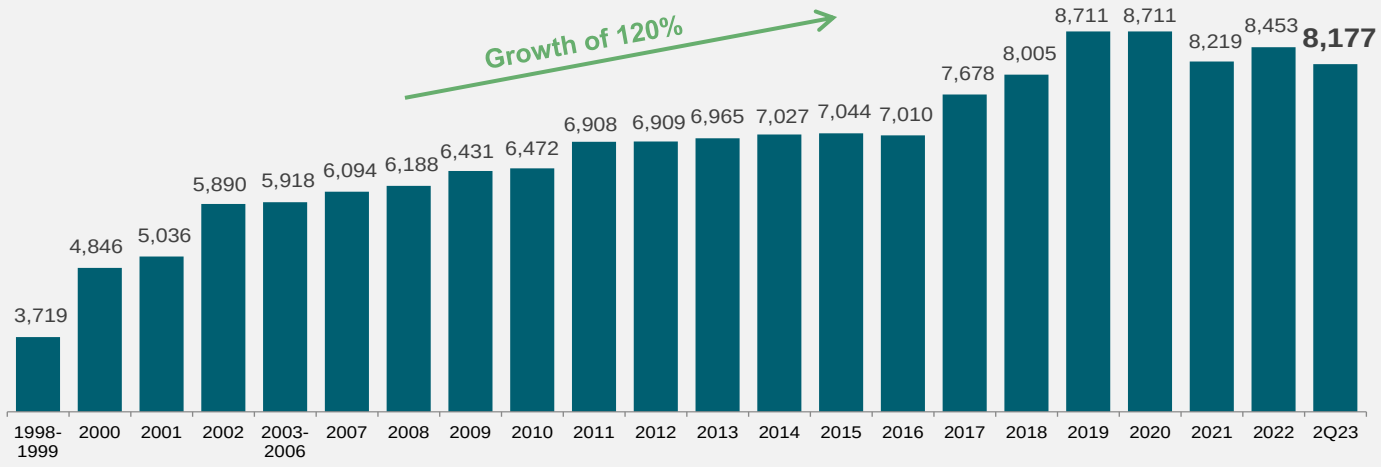
Note:
[1] The transfer of the 40% stake of ENGIE Brasil Part. in Jirau HPP to the Company should be examined timely.

Energy Generation

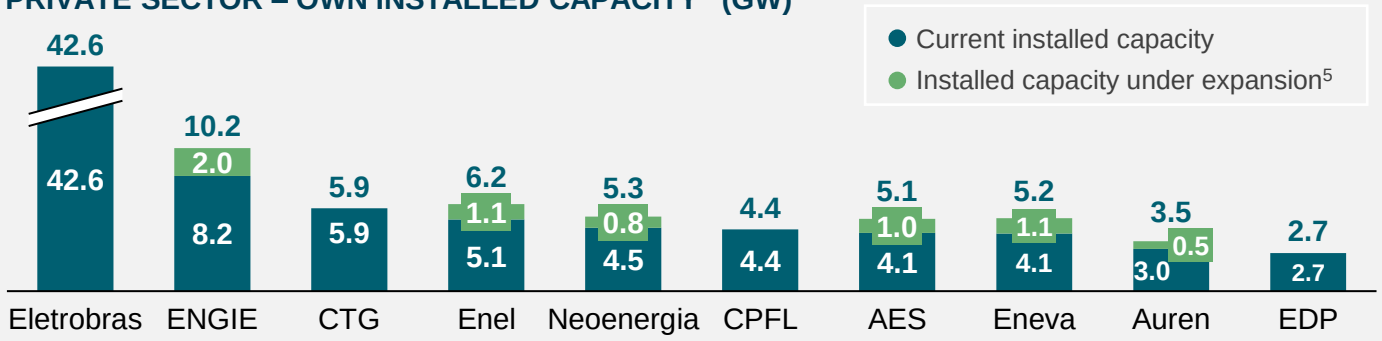
Relevance among power producers

The Company is one of the largest private groups in the segment in Brazil and is positioned to capture business opportunities.

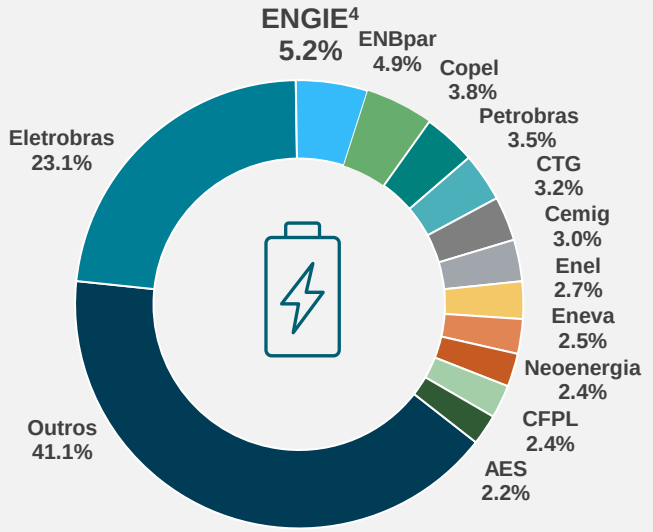
ENERGY GENERATION | PROPRIETARY OPERATING INSTALLED CAPACITY (MW)



PRIVATE SECTOR – OWN INSTALLED CAPACITY[1] (GW)



BRAZIL – EXISTING INSTALLED CAPACITY[2,3]



Source: Aneel, Companies' websites and in-house studies.
Notes:

1 Apparent sum-related errors are a result from rounding.
2 Amount corresponding to National Interlinked System (SIN), considering the Operation Monthly Program (PMO) as of April 2023.
3 Includes only the Brazilian part of Itaipu.
4 Considering the consolidated installed capacity of the group in Brazil, including Jirau HPP.
5 Based on information from Aneel, ONS and internal study.

Energy Transmission

Expanding presence in the segment

Novo Estado Transmissora de Energia

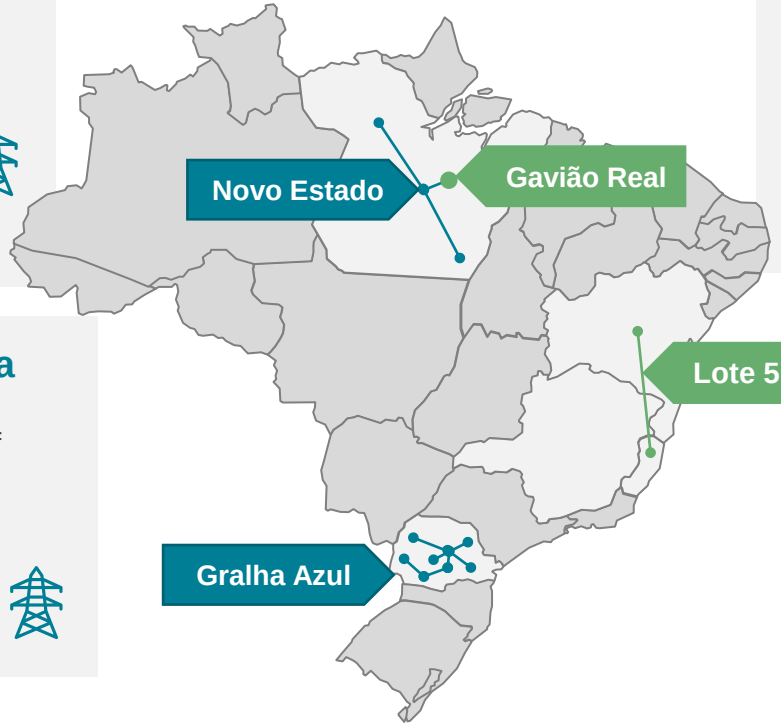
In February 2023, full commercial operation was achieved, with a total contracted RAP of R$ 420.3[1] million.

Main features:
1,800 Km of transmission lines
1 new substation and expansion of other existing 3

Gavião Real Transmissora de Energia

Complementary to Novo Estado Project, expansion in substation with section of transmission line.

Contracted RAP of R$ 7.1[1] million.



Gralha Azul Transmissão de Energia

In February 2023, full commercial operation was achieved, with a total contracted RAP of R$ 311.6[1] million.

Main features:
909 Km of transmission lines
5 substations

Auction 01/2023

Lot 5 – Asa Branca Transmissora

Winning bid at Transmission Auction 01/2023 with contracted RAP of R$ 249.3 million.

Main features:
Around 1,000 km between BA, MG and ES states

Commercial operation

Implementation

Notes:
[1] Value as of July 2023 (cicle 2023-2024).
[2] Medium term Electric energy operations Plan PAR / PEL 2023 – 2027.

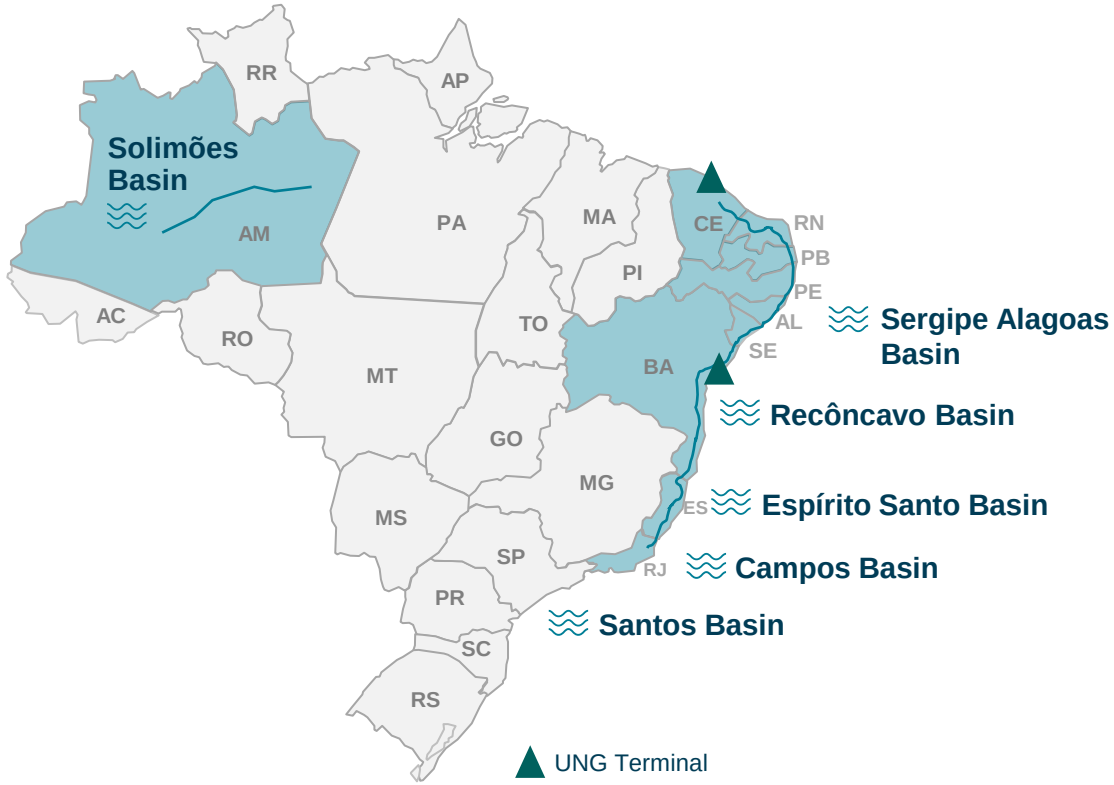
Natural Gas

Transportadora Associada de Gás (TAG)

Stake in TAG strengthens the position as a relevant player in the Brazilian energy infrastructure

Characteristics

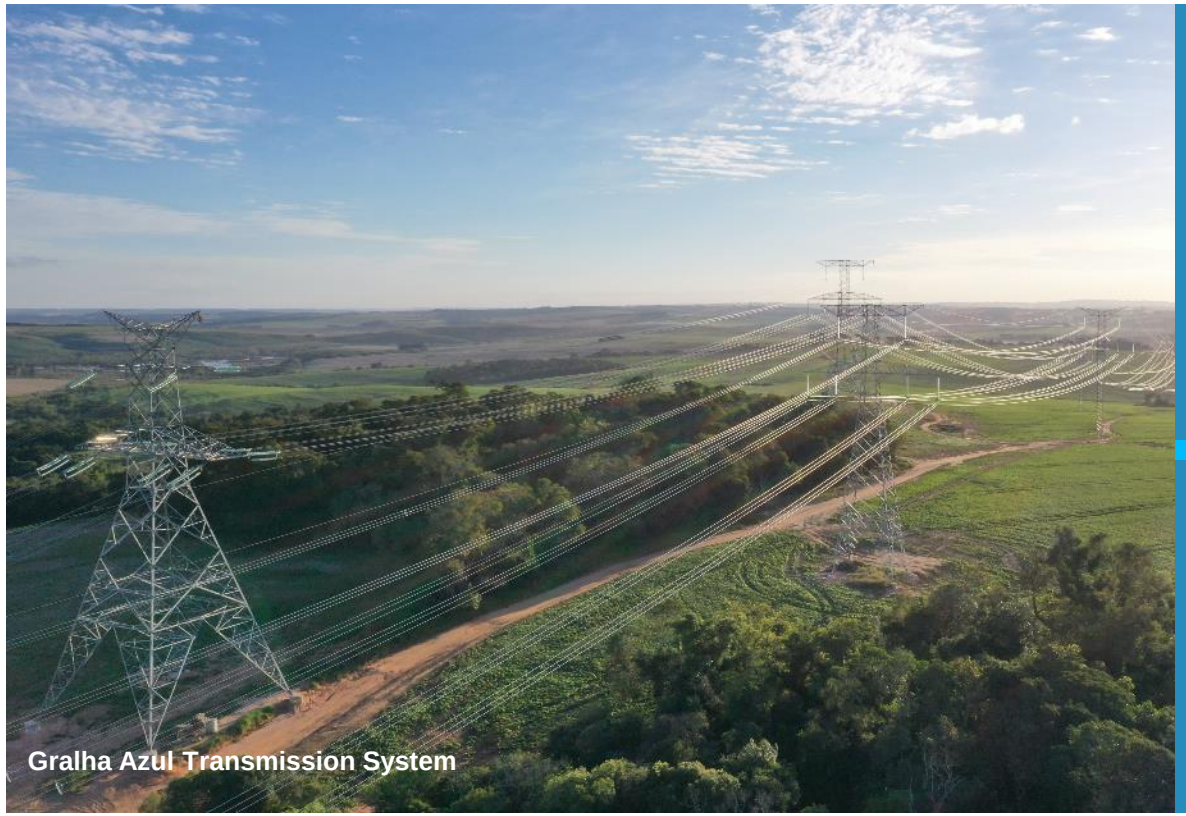
- ~4,500 km of high-pressure gas pipelines:
  3,700 km on the coast
  800 km in the Amazon region
- Presence in 10 Brazilian states and about 200 municipalities
- Contracted firm capacity for transporting of 74 million m^3/day, without construction and volume risk (ship or pay contracts).
- 11 compression stations, being 6 owned and 5* contracted
- Transport agreements with 18 shippers
- Network with several interconnection points:
  - 14 active gas entry points, including 2 LNG terminals (+1 under construction)
  - 90 delivery points (+1 under construction)
  - 10 gas distributors, serving 3 refineries, 2 fertilizer plants and 8 thermal power plants supplied



Shareholding Structure



** Slated for acquisition by August 2023.*

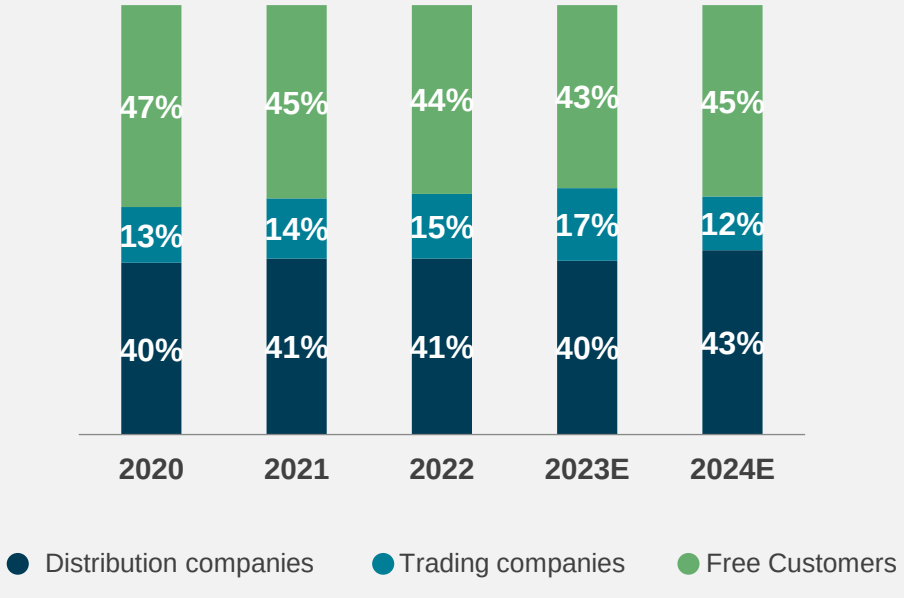

Gralha Azul Transmission System

3. Sales and Energy Trading Strategy

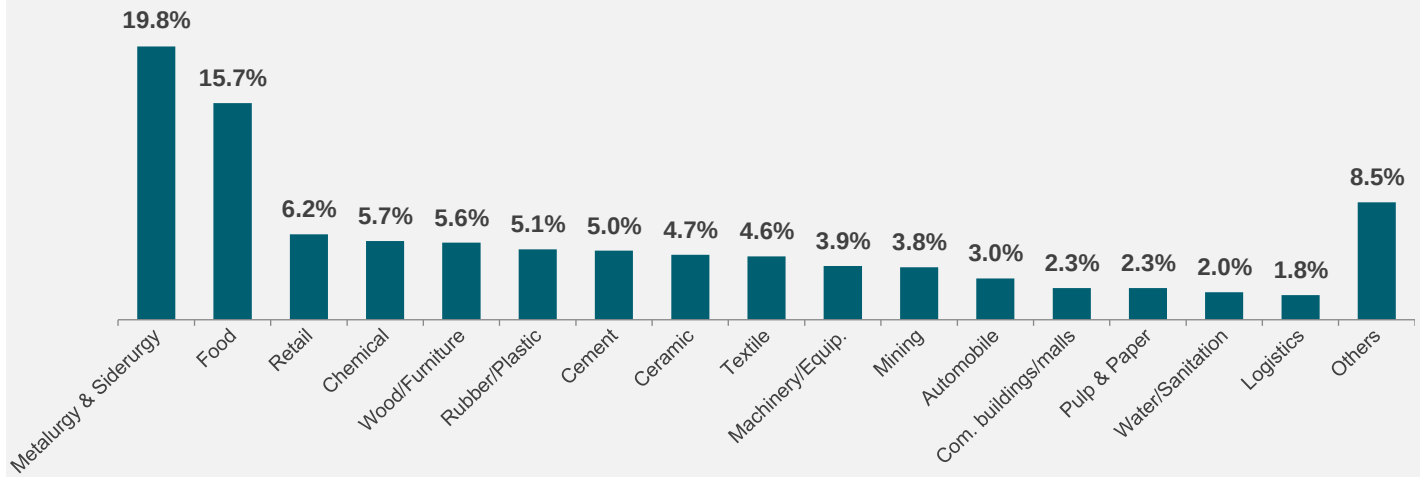
Balanced Portfolio

Portfolio diversification among distribution, free customers and trading companies

Client breakdown (based on contracted energy)



Free customers total sales volume for 2023: 2,154 aMW

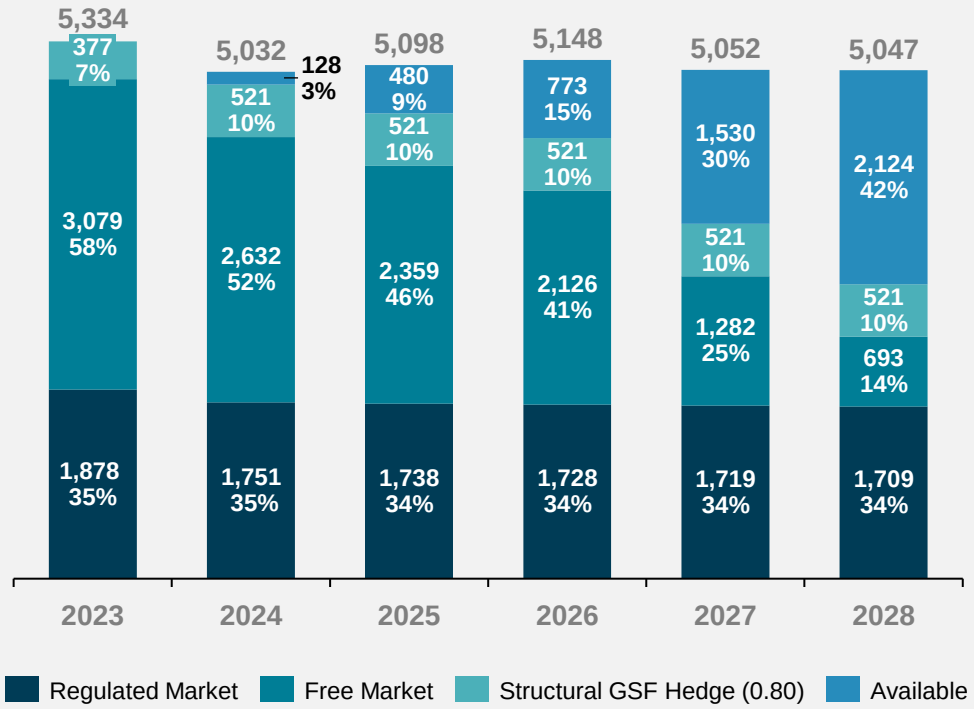


Source: *Internal study based on IBGE´s classification.*

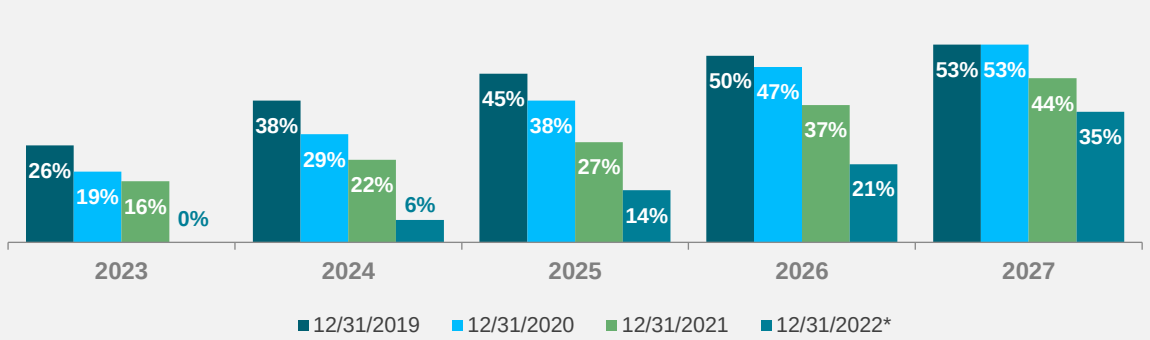
Energy Commercial Strategy

Gradual sale of future availability, with reserve for protection against hydrological risk

Energy Balance (% of total; in aMW) | *as of June 30, 2023*



Uncontracted energy compared to the availability of a given year



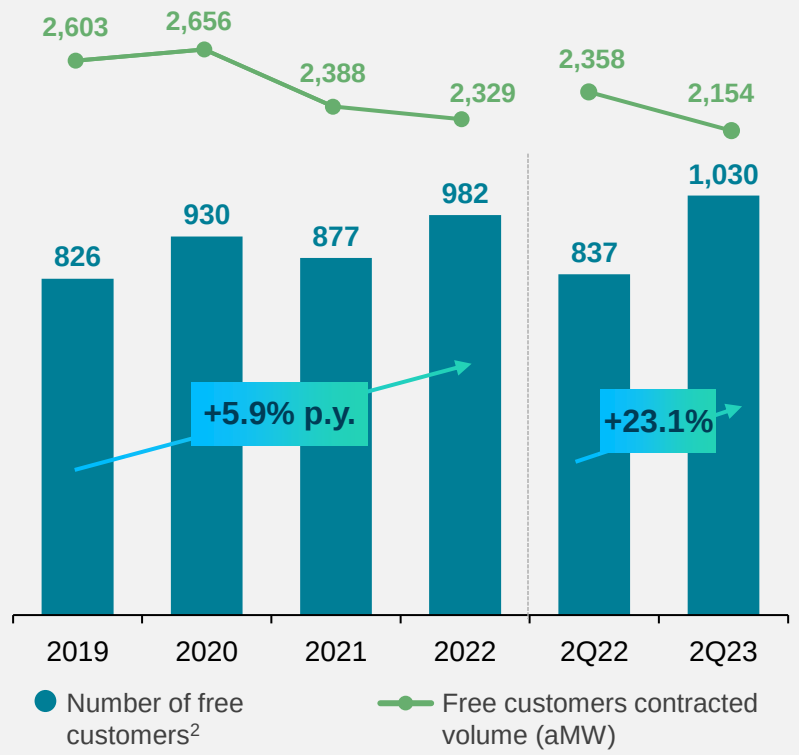
*Note: * As of December 31, 2022, balance available net of structural GSF Hedge.*

2023 | **Contracted energy volume by market**



Energy Commercial Strategy

Evolution of free customers[1]



Notes:
[1] Net of trading operations.
[2] Considers consumers units with exiting agreements.



2,680
(+16.4% compared to 2Q22)
Consumer Units served in 2Q23[2]

42%
Participation of Free Clients out of total physical sales in 2Q23

8.8%
(-0.7 p.p. compared to 2Q22)
Market share ACL in 2Q23 (of total energy in Free Market)

24.9 thousand tCO2
CERs sold in 1H23
(Certified Emission Reduction)

37%
Participation of Free Clients out of the generation segment net operating revenue in 2Q23

2.4 thousand GWh
RECs sold in 1H23
(Renewable Energy Certificates)



Santo Agostinho Wind Complex (Phase I) – Construction works

4. Expansion

Wind Project Under Implementation

Santo Agostinho Wind Complex (Phase I)

Overall physical progress reached 73%.

Wind project made feasible in the Free Contracting Environment (ACL).

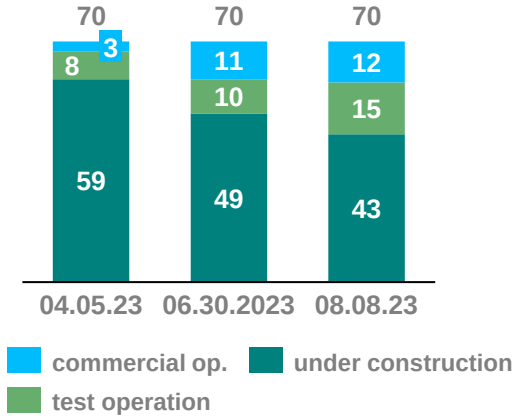

Wind turbines assembly

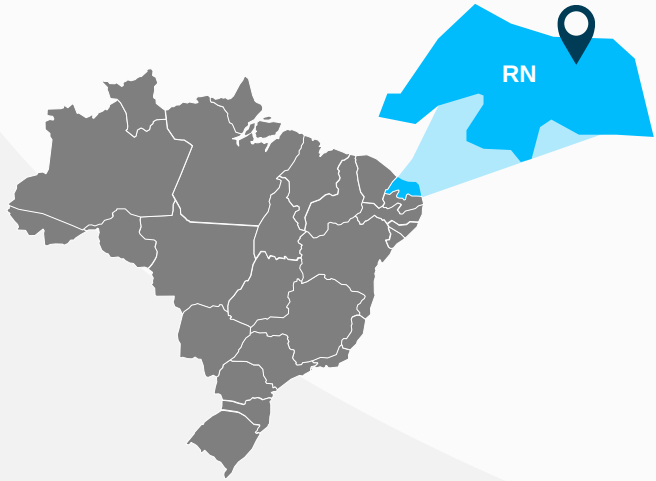
76% of main equipment components for the wind turbines having been received on site.

Damages in blades of 2 wind turbines, without impact until the moment in the implementation schedule.

Commercial operation authorized for **12** wind turbines until now (17.1%).

Wind turbines commissioning evolution





Lajes and Pedro Avelino (RN) - Phase I

- Total Installed Capacity: **434 MW**
- Start of construction: **2021**
- Commercial Capacity: **224.2 aMW**
- Start of operation**:** **1Q23**
- Investment (R$ mm)[1]: **~R$ 2,300**
- Nº of wind turbines: **70 (6.2 MW each)**

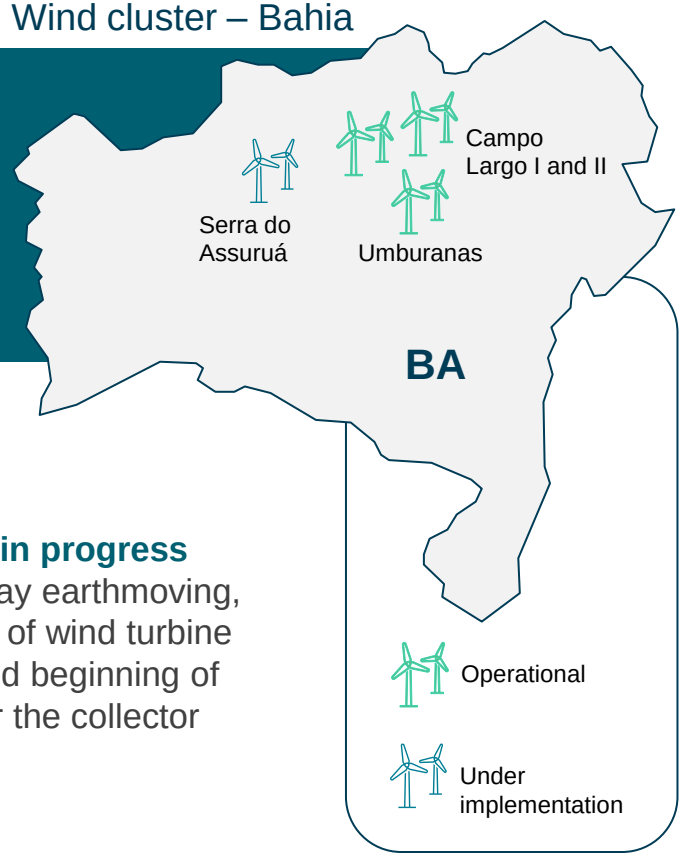
Note:
[1] Value as of December 2020.

Wind Project Under Implementation

Serra do Assuruá Wind Project

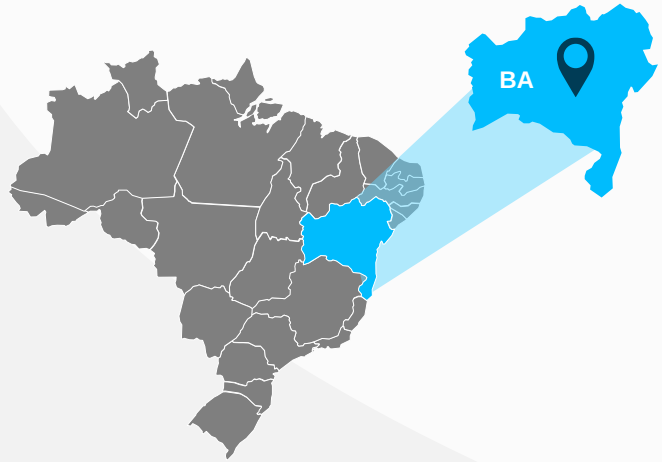
One of the ENGIE Group's largest wind projects to be implemented in a single phase

Wind cluster – Bahia



The **installation environmental license** for the second half of the project and transmission line was issued in June 2023.

Construction in progress with access way earthmoving, the excavation of wind turbine foundations and beginning of foundations for the collector substation.



Gentio do Ouro (BA)

- Total Installed Capacity: **~846 MW**
- Start of construction: **2023**
- Commercial Capacity: **~412 aMW**
- Start of operation**:** **2H24 (gradual)**
- Investment (R$ mm)[1]: **~R$ 6,000**
- Nº of wind turbines: **up to 188 (4.5 MW each)**

24 wind parks in a single phase

Note:
[1] Value as of May 2022.

Photovoltaic Project Under Implementation

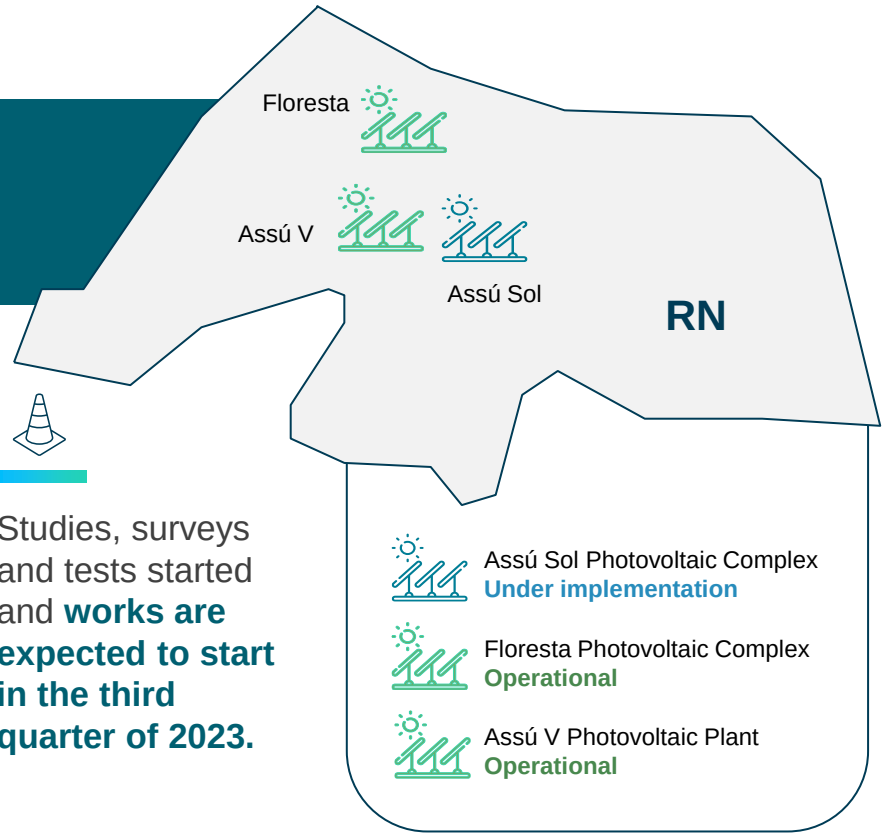
Assú Sol Photovoltaic Complex

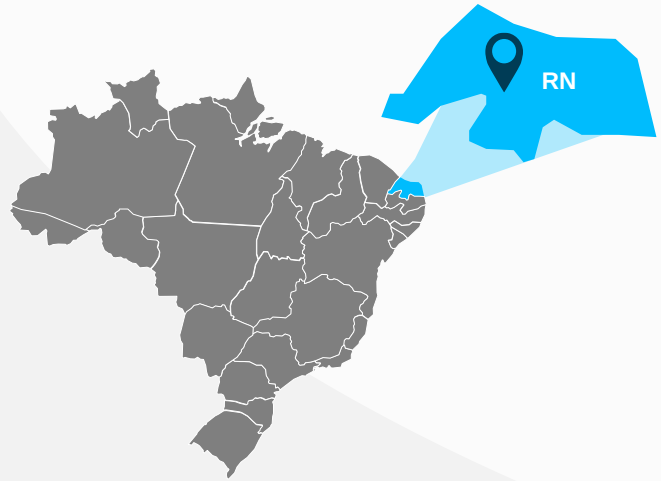
Energy to be entirely delivered to the Free Market.

Installation licenses received for the photovoltaic complex, collector substation and connection bay in April.

Signed the **main supply agreements** for solar panels, inverters, trackers, and connection construction work.

Studies, surveys and tests started and **works are expected to start in the third quarter of 2023.**





Assú (RN)

- Total Installed Capacity: **~752 MW**
- Start of construction: **3Q23**
- Commercial Capacity: **~234 aMW**
- Full commercial operation: **2H25**
- Investment (R$ mm)[1]: **~R$ 3,300**

Note:
[1] Value as of January 2023.

Transmission Project Under Implementation

Gavião Real Transmissora de Energia

Complementary to the Novo Estado Transmission System, capturing synergies.



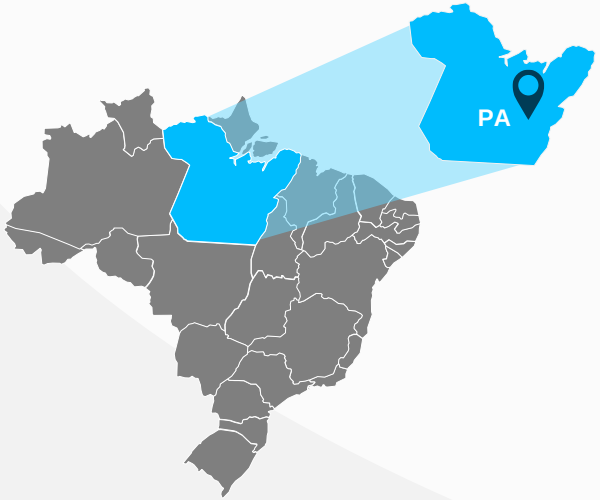
Earthmoving activities

Expected anticipation of at least 24 months in startup of commercial operations in relation to the estimated timeframe from Aneel, subject to updates.

In 2Q23, it was registered progress in the **executive designs**, completion of the construction site and **beginning of earthmoving activities**.



Gavião Real Transmissora de Energia: integrated to Novo Estado Transmission System



Contracted RAP[1]: **R$ 7.1 million**

Concession period: **30 years**

Estimated Capex[1]: **R$ 80.9 million**

Deadline to start operation: **March/2026**

Technical features:

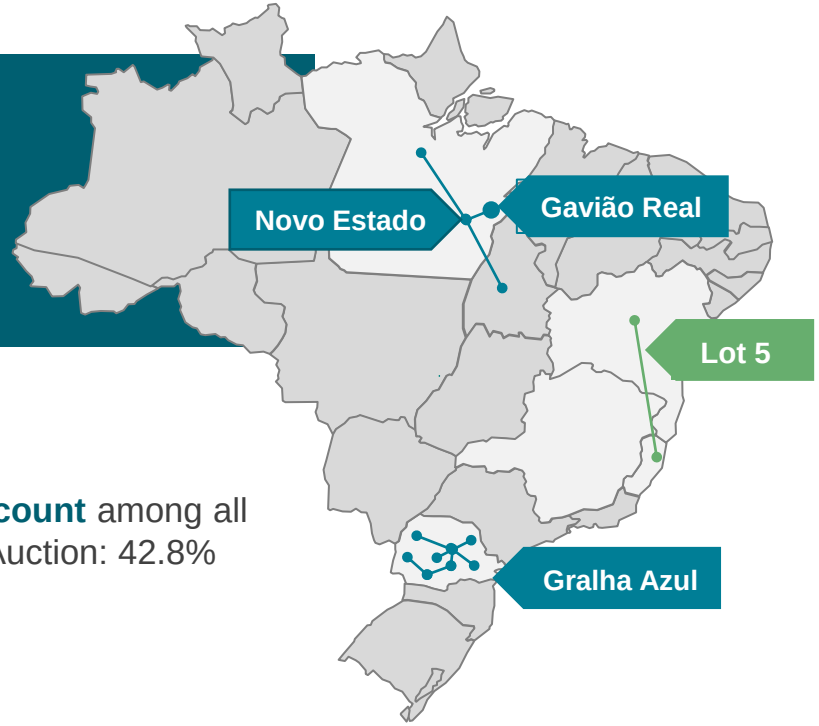
Expansion of Itacaiúnas Substation, with the implementation of two 230/138kV transformers and a new 138 kV switchyard.

Notes:
[1] Value as of June 2023.
[2] Value as of June 2023, considering optimization compared to the reference Capex from Aneel (R$ 110.0 million – as of June/222).

Transmission Project Under Implementation

Asa Branca Transmissora de Energia
(Lot 5 – Transmission Auction 01/2023)

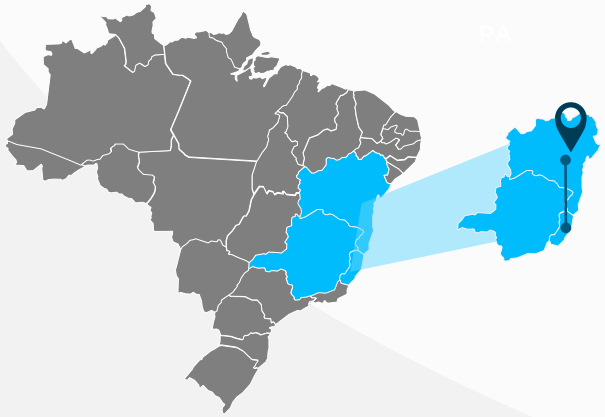
Strategic location for seamless flow of renewable energy from Northeast to the Southeast and Midwest regions.



Lot 5 will be implemented mainly in the state of Bahia, where the Company has a **strong presence in renewable energy generation** through Umburanas, Campo Largo I and II and Serra do Assuruá Wind Power Plants, capturing synergies.

2nd lowest discount among all the lots in the Auction: 42.8%

Signing of concession contract scheduled for September/23.



Contracted RAP[1]: **R$ 249.3 million**

Concession period: **30 years**

Capex Aneel[1]: **R$ 2,667 million**

Deadline to start operation: **March 2029 (66 months)**

Technical features:

Estimated length of 1,000 Km, in four 500 kV single-circuit transmission lines, crossing 60 municipalities in the states of Bahia, Minas Gerais and Espírito Santo.

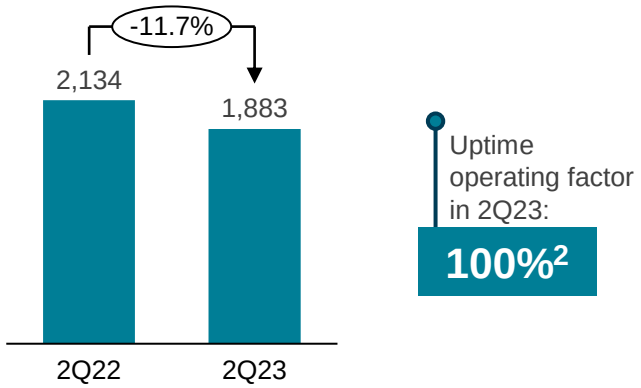
Note:
[1] Value as of Dec/22.

Expansion

Jirau HPP | update

aMW	MW		
2,102 Physical Guarantee[1]	**3,750** Installed Capacity	**50** Generating Units	**75** MW each

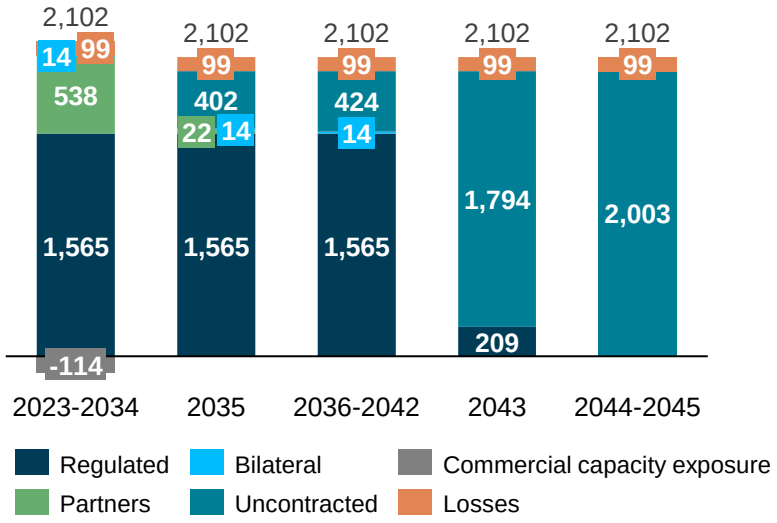
Production (average MW)[2]



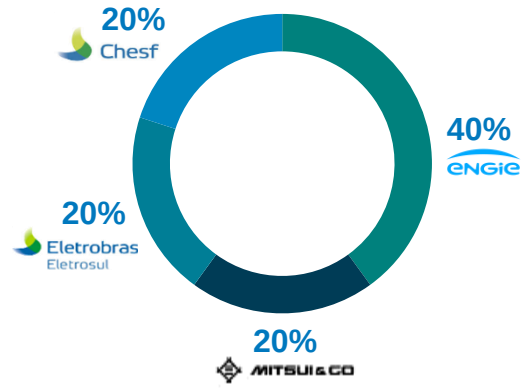
Uptime operating factor in 2Q23:

100%[2]

PPA's Portfolio (average MW)



Shareholding Structure

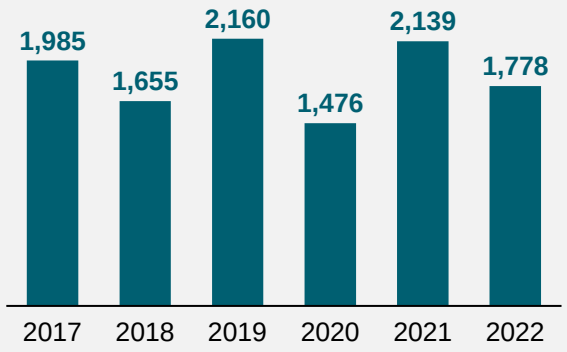


Notes:
[1] Physical Guarantee in effect as from 2023, according to Ordinance 709/GM/MME, from Nov 30, 2022.
[2] Subject to final CCEE booking.

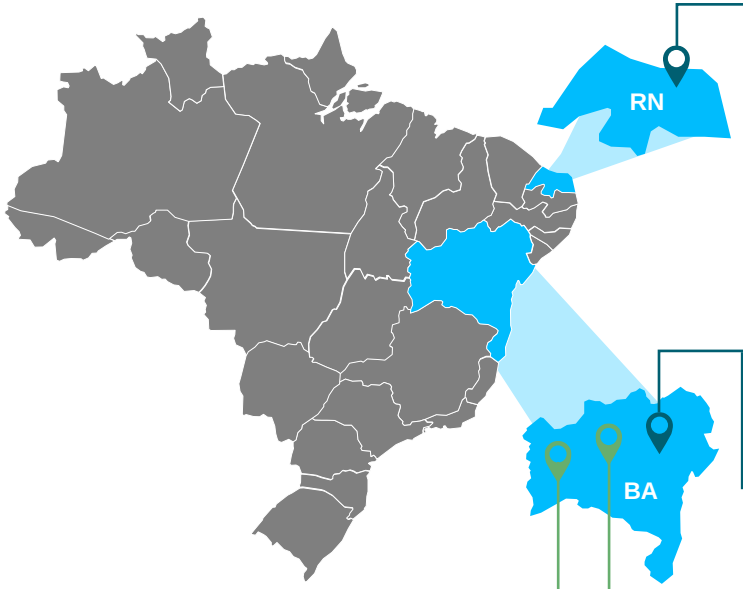
Projects Under Development

ENGIE Brasil Energia has also a portfolio of assets under development.

Evolution of projects under development pipeline[1] (MW)



Note:
[1] Based on December, 31 of every year.



Santo Agostinho Wind Complex (Phase II) – RN	Installed Capacity:	279 MW
Santo Agostinho Photovoltaic Complex – RN	Installed Capacity:	~509 MW
Umburanas Wind Complex (Phase II) – BA	Installed Capacity:	250 MW
Campo Largo Wind Complex (Phase III) – BA	Installed Capacity:	250 MW
Campo Largo Photovoltaic Complex – BA	Installed Capacity:	~400 MW
Alvorada Photovoltaic Complex - BA	Installed Capacity:	~90 MW

~779 MW + ~999 MW = ~1,778 MW

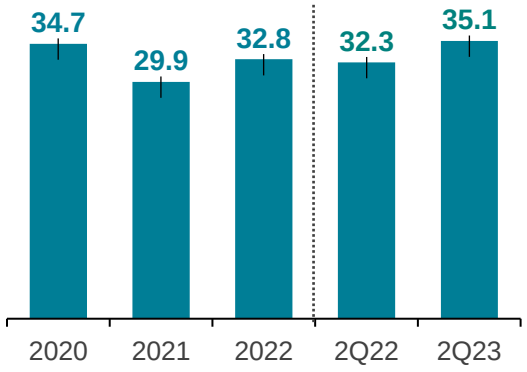

Estreito Hydro Power Plant

5. Financial Performance

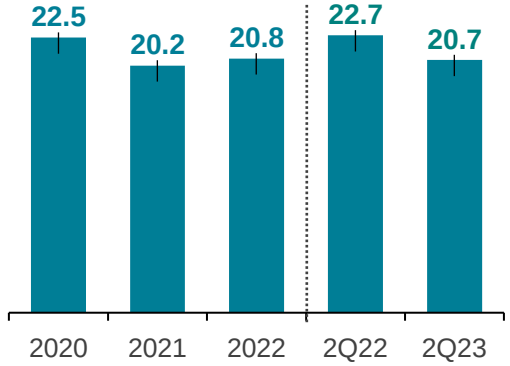
Solid Financial Performance

Good portfolio management and diversification into other regulated segments, such as transmission, natural gas transportation and energy contracts in the ACR, result in stability and predictability of results. These areas combined represent **about 60%** of the Company's Ebitda.

ROE[1] - ADJUSTED RETURN ON EQUITY (%)



ROIC[2] - ADJUSTED RETURN ON INVESTED CAPITAL (%)



Notes: ENGIE Brasil Energia internal study based on the Company's Financial Statements.
[1] ROE: net income of the past 4 quarters / shareholders' equity. Adjusted ROE net of non-recurring.
[2] ROIC: effective tax rate x EBIT / invested capital (invested capital: debt – cash and cash equivalents – deposits earmarked for debt servicing + SE). Adjusted ROIC net of non-recurring.
[3] Nominal amount.
[4] Net of impairment.



From 2016 – 2022[3]:

Investments:

amounted to **R$ 25.7 billion,** with **75% leverage**

Proprietary installed capacity:

Total: **+21%**

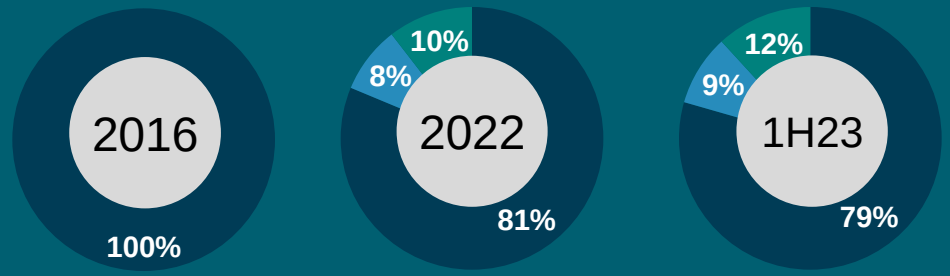
Renewable: **+36%**

Acquisition of **32.5% stake** in TAG

Entry into transmission (until 2Q23):

- **2,709 km** under operation and **6 own substations**

Portfolio diversification (% of Adjusted Ebitda):



Adjusted Ebitda[4]: **+108%**

Net income[4]: **+65%**

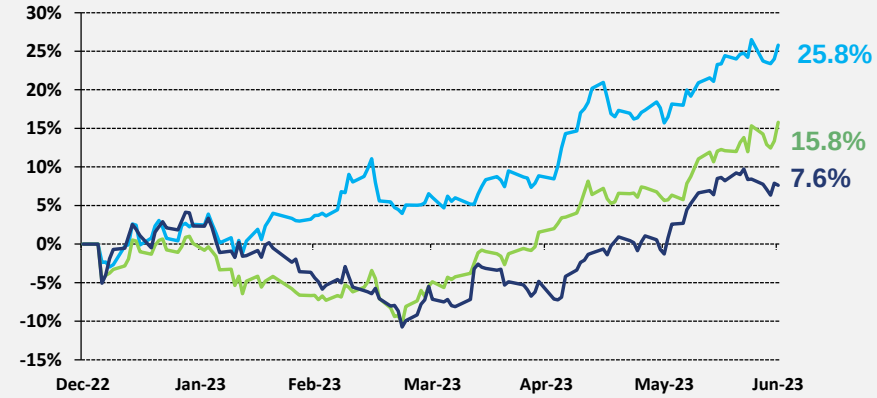
Dividends and IOC: **R$ 13.8 billion**

Total shareholder return (TSR)

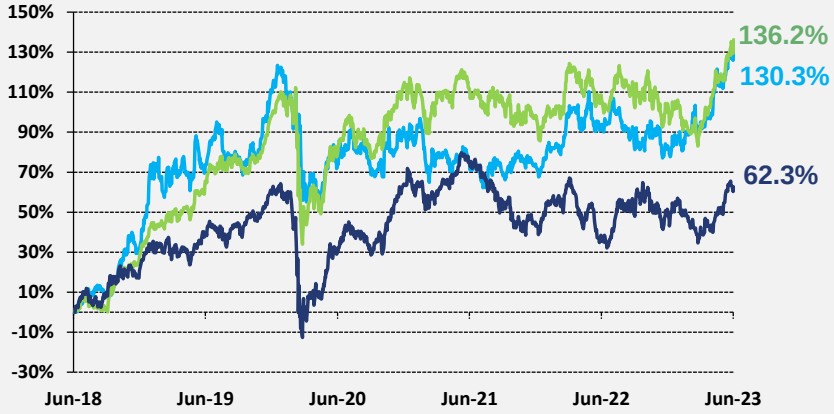
Short, medium and long-term performance

EGIE3 IEEX IBOV

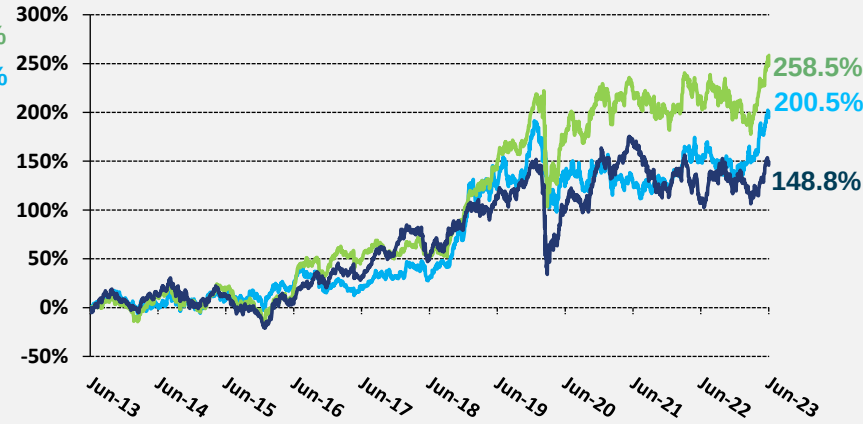
YTD - in R$



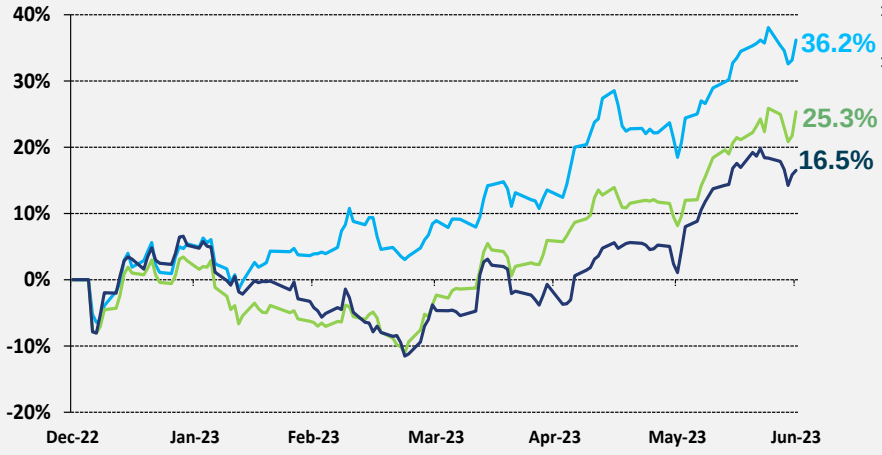
5 years - in R$



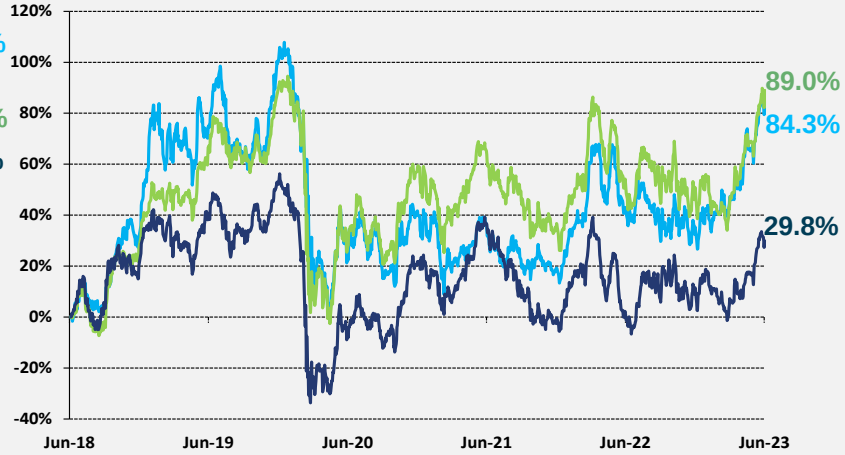
10 years - in R$



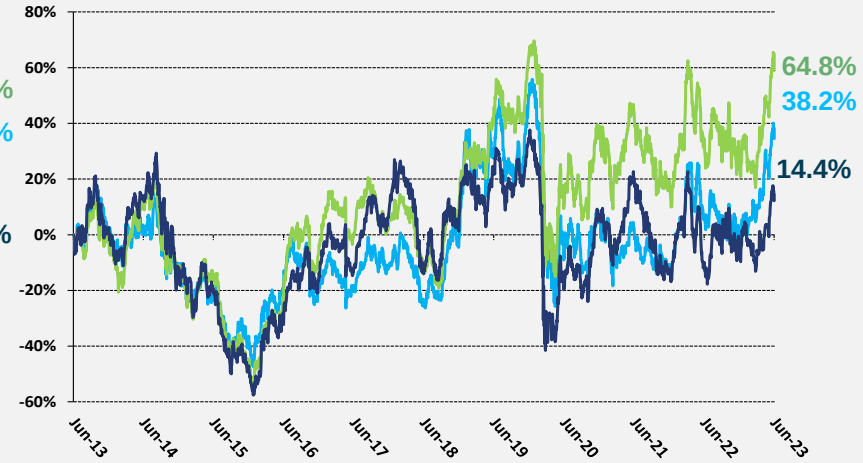
YTD - in US$



5 years - in US$

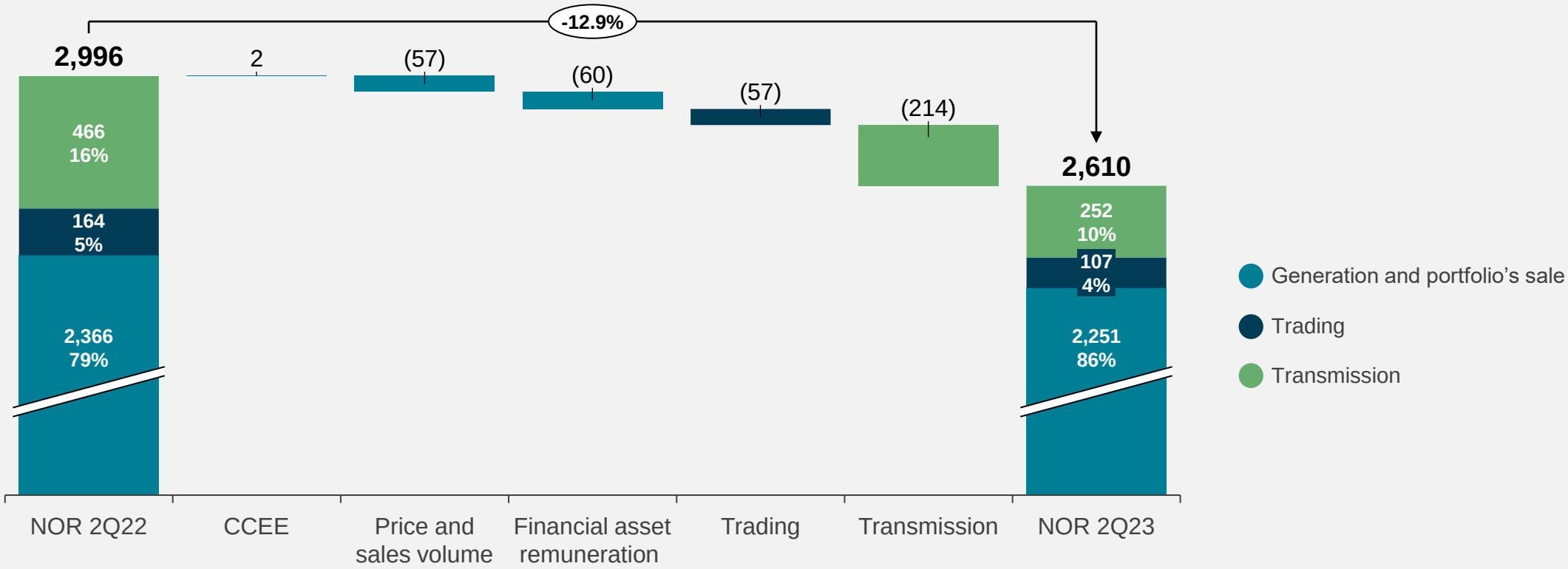


10 years - in US$



Net Operating Revenue Change

NET OPERATING REVENUE (R$ MILLION)

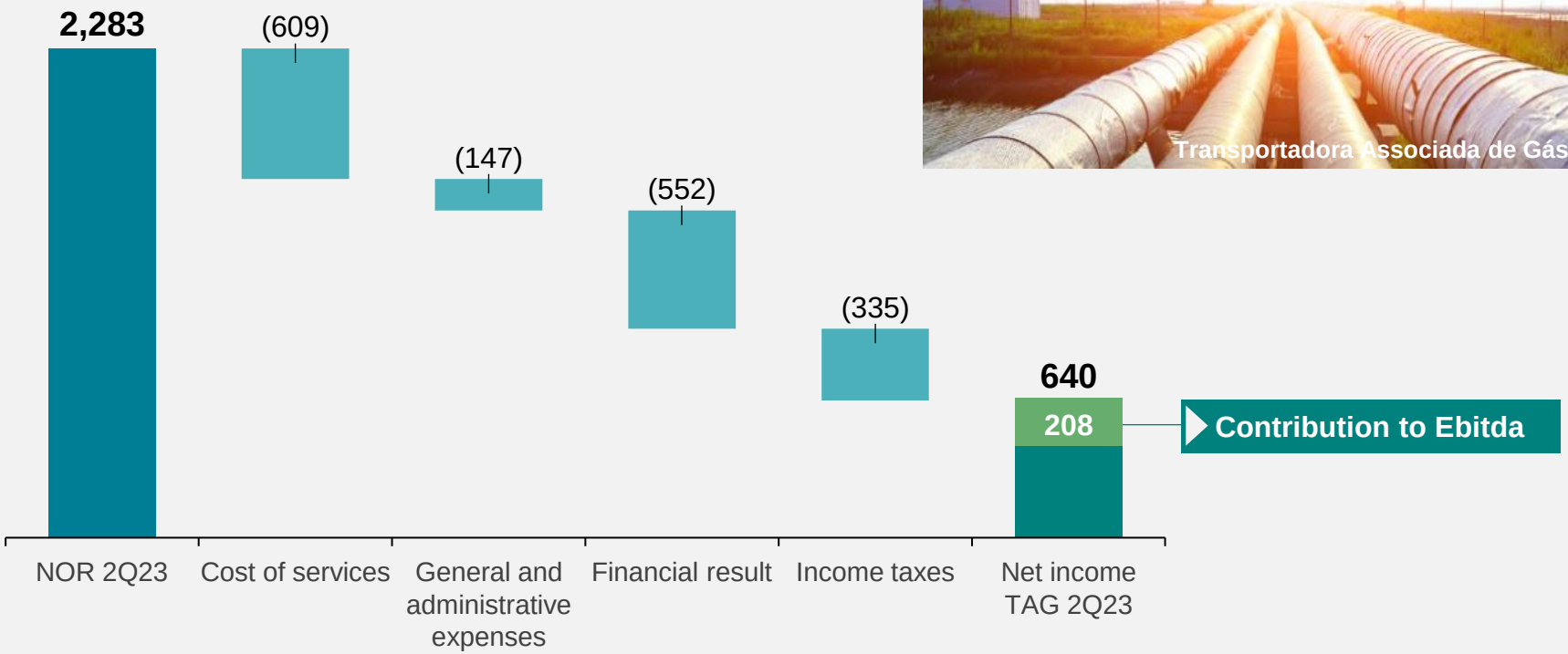


Result of Equity Income

Contribution of the Result from Transportadora Associada de Gás (TAG) to the EBITDA of the Company

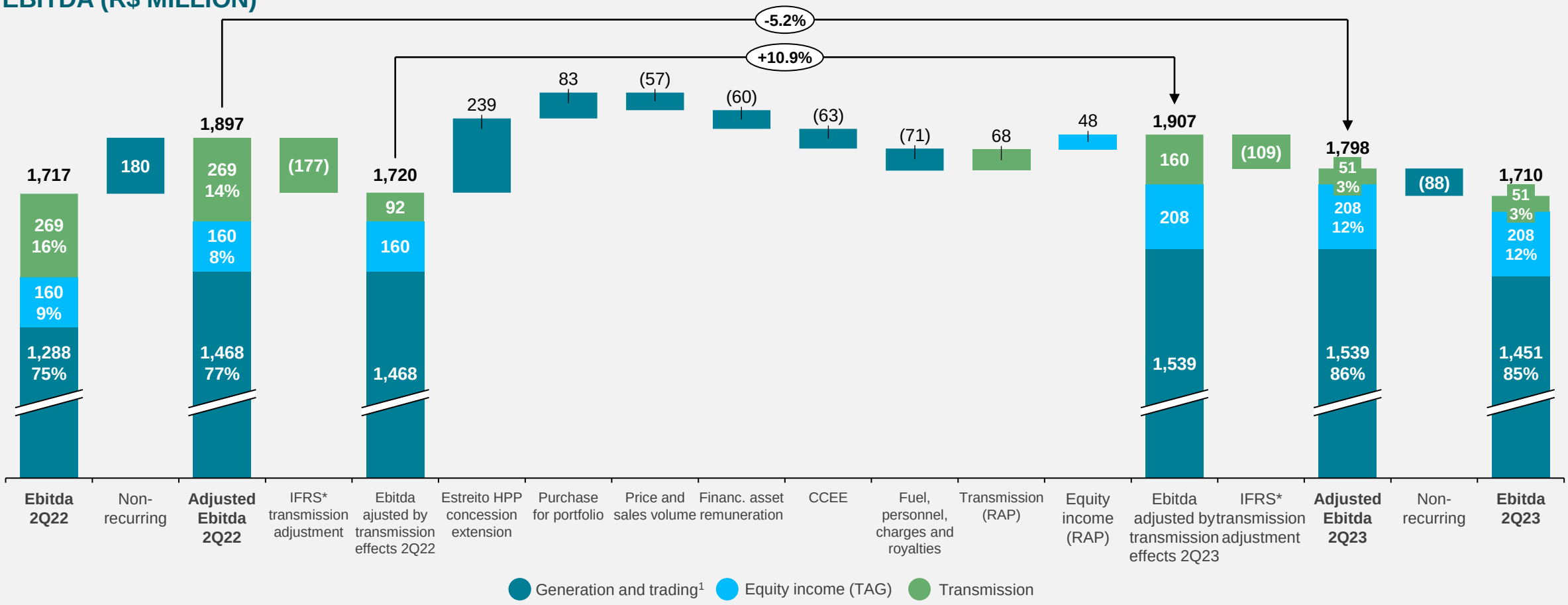
Stake of **32.5%** in TAG contributed with **R$ 208 million** via equity income to the Company's Ebitda in **2Q23**.

TAG INCOME STATMENT (R$ MILLION)



Ebitda Change

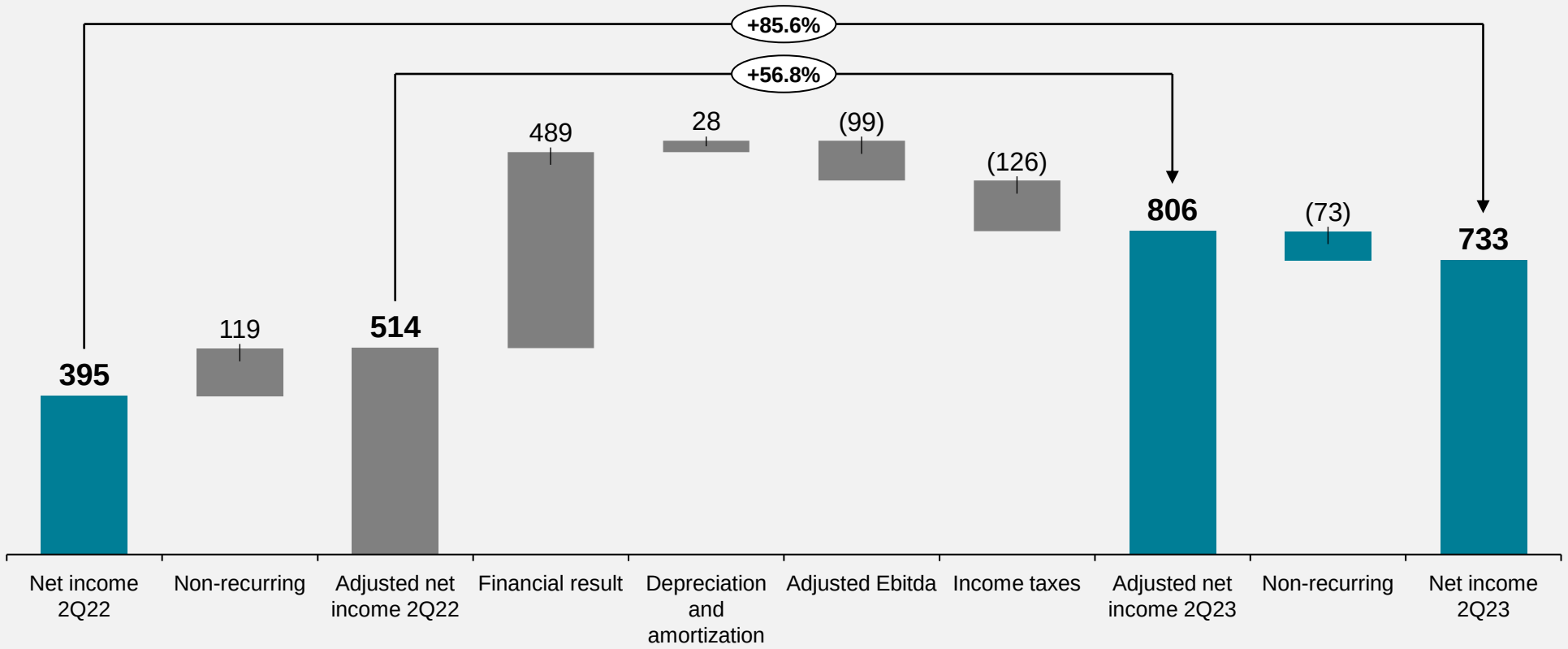
EBITDA (R$ MILLION)



Notes:
[1] Considering the result from generation and trading segments.
Adusted Ebitda: net income + income tax and social contribution + financial result + depreciation and amortization + non-recurring.
*IFRS: International Financial Reporting Standards

Net Income Change

NET INCOME (R$ MILLION)

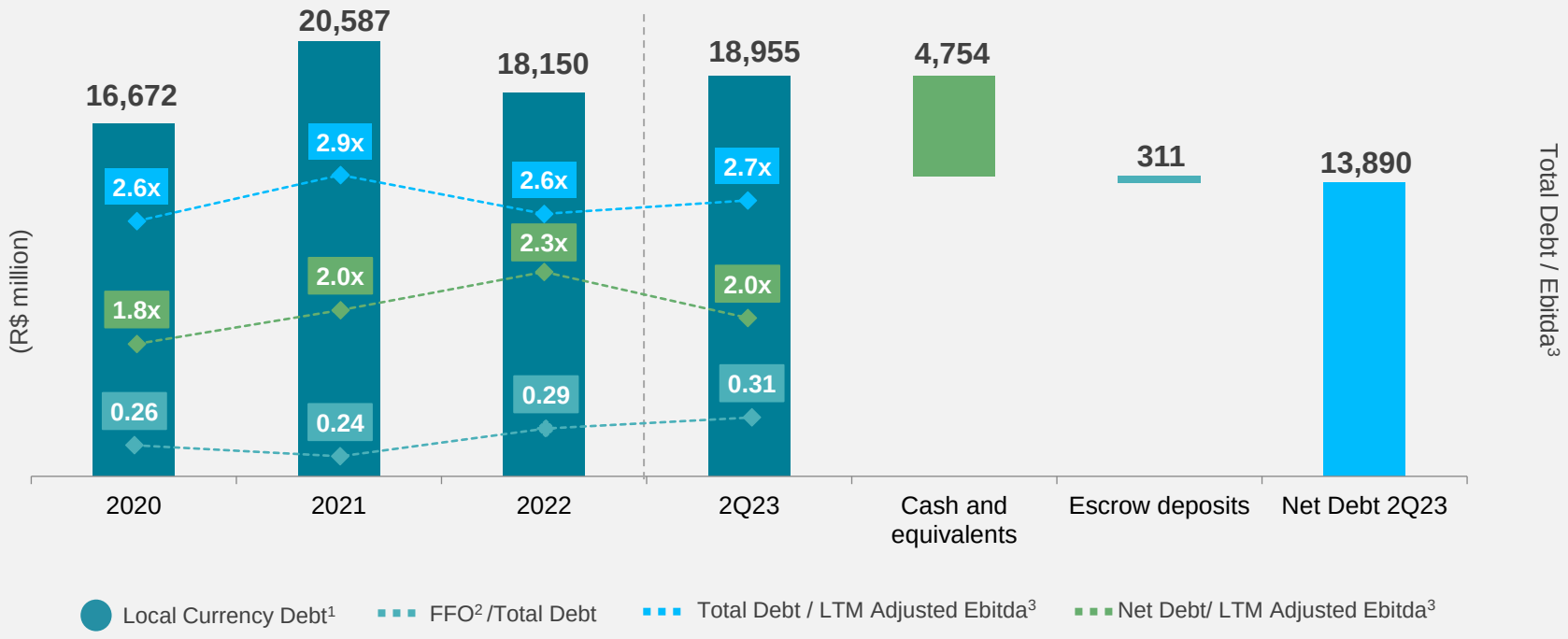


Balanced Debt

With no currency exposure

Debt control, active management of debt costs and successful investment decisions ensure low levels of the Net Debt/Ebitda ratio.

DEBT OVERVIEW (R$ MILLION)



Notes:
[1] Gross debt, net of hedge operations.
[2] Funds from Operations, net from impact of the transmission lines (Contract Assets).
[3] Adjusted Ebitda in the past 12 months.

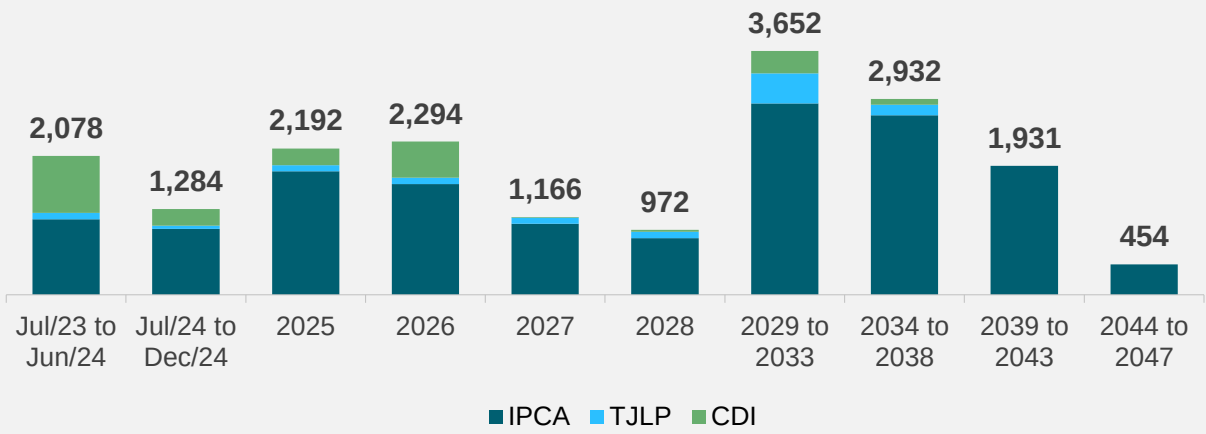
Debt Profile and Composition

Competitive costs and defensive indexes

AAA rating and robust cash generation translate into competitive costs of debt for financing growth.

Average debt term: 7.3 years

MATURITY DEBT SCHEDULE (R$ MILLION)



Indexation of energy sales contracts mitigates exposure of debt to IPCA.

BREAKDOWN OF DEBT

80%
IPCA

11%
CDI

9%
TJLP

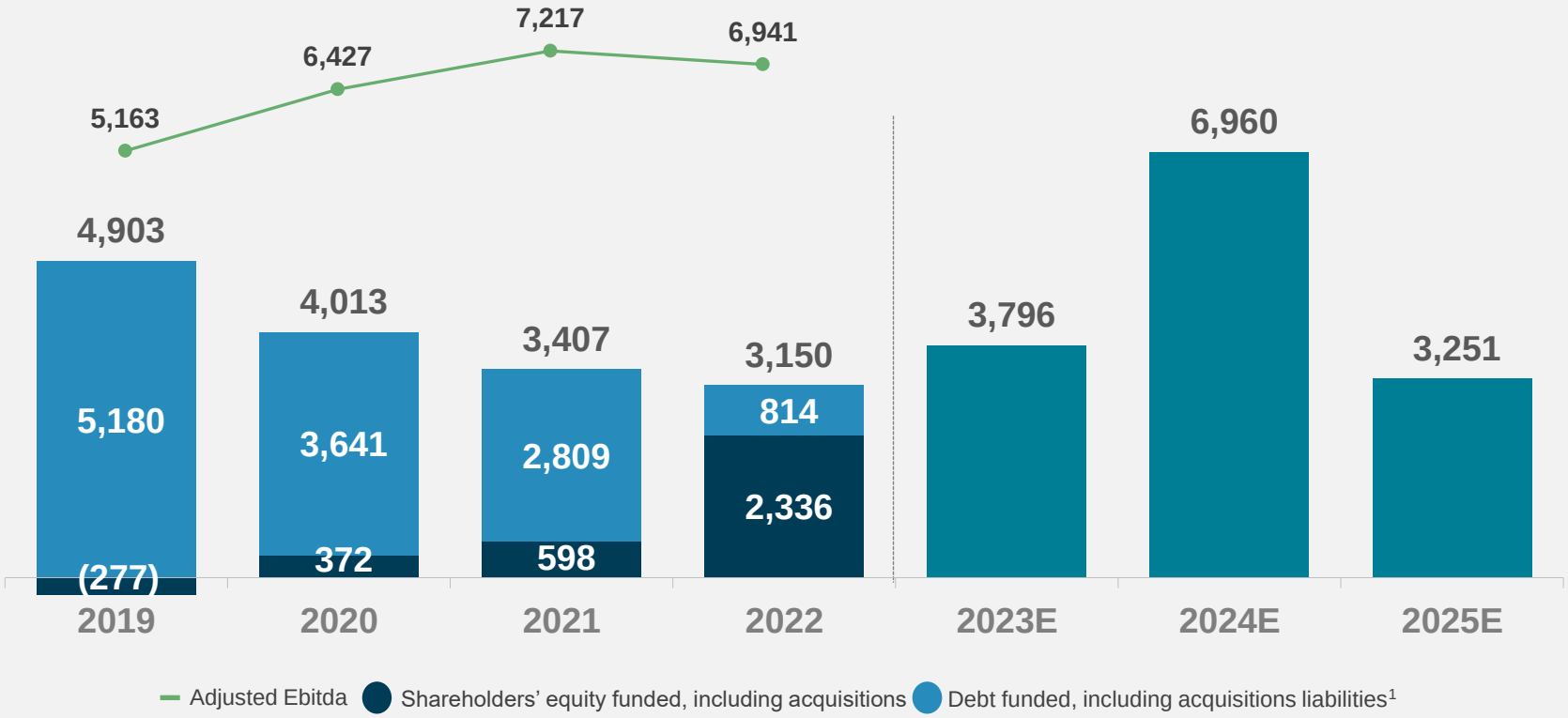
Nominal cost of debt: 9.1% p.y.
(equivalent to IPCA + 5.8%)

(15.8% - equiv. to IPCA + 3.5% in 2Q22)

CAPEX

The expansion plan and maintenance CAPEX are supported by a strong cash flow generation and prudent funding strategy.

ALLOCATED/EXPECTED CAPEX AND CORRESPONDING FINANCING RESOURCES (R$ MILLION)



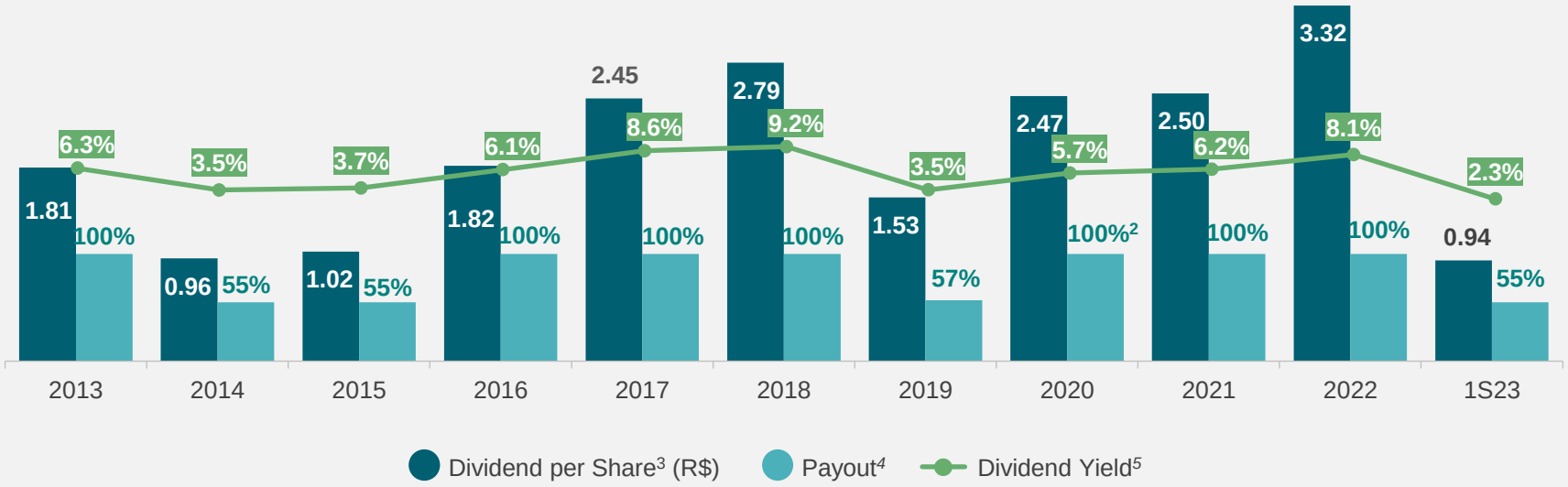
Note:
[1] Does not consider interests incurred during the construction.

Dividend Policy

%

- By-law minimum payout: **30%** of payable net income
- Management Commitment: minimum payout of **55%** of payable net income
- At least **2** dividends per year

DIVIDENDS (BASED ON DISTRIBUTABLE NET INCOME)



Notes:
[1] Figures for 2019 were resubmitted in the light of the AGM's decision on the retention of interim dividends for fiscal year 2019.
[2] Payout equivalent to 100% of the distributable adjusted net income (ex-hydrological risk negotiation).
[3] For the purposes of comparability between fiscal years, an adjustment in dividend per share was made in the light of the share bonus approved on December 07, 2018.
[4] Considers the annual adjusted net income.
[5] Based on volume-weighted closing price of ON shares in the period.

Competitive Advantages

STRATEGIC INDUSTRY
- Defensive profile in times of crisis
- Projects with high bankability
- Diversification among segments in the power sector

PRESENCE IN THE ENERGY SECTOR
- One of the largest private power producers in Brazil
- Market cap: R$ 37.3 billion as of June 30th, 2023
- Controlled by ENGIE S.A., world leader in energy

PREMIUM RATING
- Fitch Ratings rated the Company's Local Long-Term Rating as 'AAA(bra)' and in global scale "BB", one notch above the Brazilian sovereign rating

CLEAR COMMERCIAL STRATEGY
- Heavily contracted in the next years
- Diversified portfolio between free and regulated customers
- Benefits from windows of opportunities



HIGH-CALIBER CORPORATE GOVERNANCE AND SUSTAINABILITY
- Diversified and qualified team
- First class controlling shareholder
- Component of B3's Novo Mercado and ISE (since its inception in 2005)

CASH FLOW PREDICTABILITY
- Inflation-indexed contracts
- Hydro based, with diversification on complementary sources and active portfolio management
- Long-term contracting strategy
- Transmission contracts not susceptible to volume variation

STABLE FINANCIAL PERFORMANCE
- Strong cash flow
- ROE and ROIC above sector median
- No FX exposure

HIGH OPERATIONAL PERFORMANCE
- Benchmark indexes of availability
- ISO 9001, 14001 and 45001 certified plants
- Use of advanced technology for remote operations and predictive maintenance


Assú V Photovoltaic Complex

6. Supporting Data

Highlights and ESG KPIs
Other attachments

ESG Highlights

ENGIE Purpose

To take action to accelerate the transition towards a **carbon neutral society**, through **reduced consumption** of energy and solutions **which are more sustainable.**

E ENVIRONMENT

- **+ R$ 20 billion** destined to the energy transition (assets rotation 2016-2022)
- **100%** in renewable capacity
- **Climate Journey**
- **Biodiversity Matrix Program**
- **37** Conservation Units
- **+ 6 million** seedlings planted/donated
- **+ 2,300** headwater springs restored
- **+ 1,600 km²** of reservoirs area

S SOCIAL

- **Corporate diversity, equity and inclusion** programs
- **Zero** fatal or serious work **accident**
- **100% of registered suppliers** analyzed according to socio-environmental and ethical criteria
- **8 Culture and Sustainability Centers** (3 under construction)
- **+ R$ 300 million** invested since 2008
- **+ 3.5 million** people impacted
- Coverage in **+200 municipalities**

G GOVERNANCE

- **Member of the Novo Mercado.**
- Governance based on **integrated management, risk management, ethics and integrity.**
- **Integrity Program and Ethics Committee,** monitored by the Board of Directors.
- **12 risk groups mapped and mitigated,** including information security and climate risk.
- Board of Directors with **4 independent directors**.

Non-financial objectives

ENGIE Group

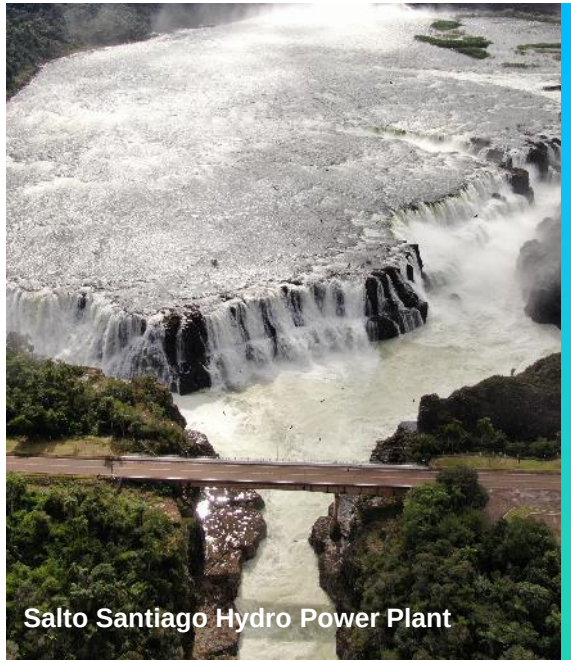
Aspect	Result 2020	Objective 2030
Greenhouse Gas Emissions (GHC)	60 $MtCO_2e$	Reduce to at least **43 $MtCO_2e$** the total greenhouse gas emissions from the generation of the Group's electric energy - in 2017, this total was **106 $MtCO_2e$** (goal certified by the Science Based Target – SBTi initiative).
Diversity	30%	Expand the participation of women in the Group's Management to **50%** — in 2019 this percentage was **24%** of all leadership positions.
Renewable energy	38%	Increase to **58%** the participation of renewable sources in the energy production capacity mix worldwide — against **28%** reported in 2019.
Supply chain	38%	By 2030, reach 100% of the responsible purchasing index (excluding energy purchases); and by 2030, reach 100%, from top **250 preferred suppliers,** certified by Science Based Targets (SBTi) commitments.
Water	0.301 m^3/MWh	Reduction of **70%** in the intensity rate (consumption/energy produced) of water consumption for industrial activities **by 2030** — from 0.331m³/MWh in 2019 to 0,100m³/MWh in 2030..

Climate Change

JORNADA PELO CLIMA

Working to accelerate the energy transition to a low-carbon system for more than a decade, in 2022 ENGIE Brasil Energia began designing its **Climate Journey**, whose main objectives are:

- incorporate the **management of climate risks and opportunities** into the business;
- develop **decarbonization strategies** in line with the ENGIE Group's NetZero goal.


Salto Santiago Hydro Power Plant

Main strategic drivers Climate Journey

- **Decarbonization** of assets portfolio;
- **Expansion** in renewable energy;
- Constant search for **carbon footprint reduction;**
- **Value chain** engagement (Scope 3 - customers and suppliers);
- Actions for **Environmental Conservation and Biodiversity**;
- **Compensation** of residual emissions.


Salto Santiago Hydro Power Plant

Repositioning

- It doesn't happen overnight
- Requires investment and planning
- Needs stakeholders' trust
- Ensures responsible and fair transition
- It´s a path of no return

100%
2Q23

of energy installed capacity comes from renewable sources

Climate Change

Signing contract for the sale of the **last coal-fired thermoelectric plant** in Brazil: Pampa Sul (RS)

Since 2012, ENGIE Brasil Energia has been investing in **reducing its greenhouse gases** (GHG) and adapting practices and processes to **the energy transition** scenario**.**

- Carbon dioxide emissions are among the biggest drivers of **climate change**.
- **Transition to a low carbon economy** is considered the main business challenge of this decade.
- Aligning businesses with the path of limiting global warming demands an objective view of **risks and opportunities**.

2006

Registration of the first CDM/UNFCCC **Carbon Credit Project** (Lages Project)

2010

First **Inventory of Greenhouse Gases**

2012

First decarbonization **targets** of ENGIE Group

2014

Decommissioning of Alegrete Thermoelectric Plant (RS)

2015

Coal exit **strategy**

2016

Decommissioning of the Charqueada Thermoelectric Power Plant (RS)

3D Strategy (Decarbonization, Digitization and Decentralization)

2017

Entry into the energy transmission segment: Gralha Azul concession

2019

Sale of the Willian Arjona Thermoelectric Plant (MS)

Acquisition of TAG

Acquisition of the concession for the Novo Estado transmission line

2020

EBE registers the **10th carbon credits project** in the Clean Development Mechanism (CDM)

The Campo Largo Wind Complex (Phase II) Carbon Credit Project contributes to the **annual reduction of approximately 790 thousand tons of CO2.**

2021

More than 1.2 GW of **installed wind power capacity**

Sale of the Jorge Lacerda Thermoelectric Plant (SC)

2022

Acceleration of the **Climate Journey**

First **direct report to CDP** – score **B**

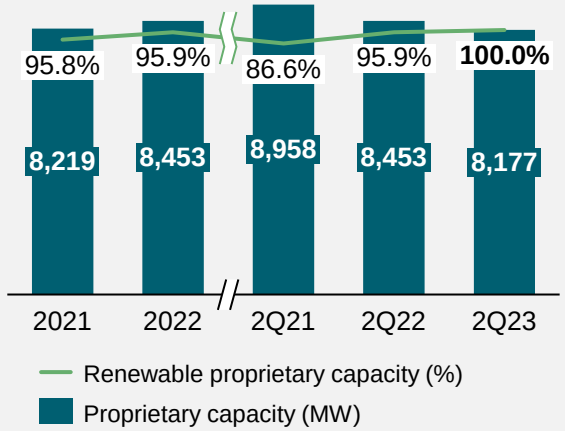
2023

Sale of the **last coal-fired thermoelectric plant** in Brazil: Pampa Sul TPP (RS)

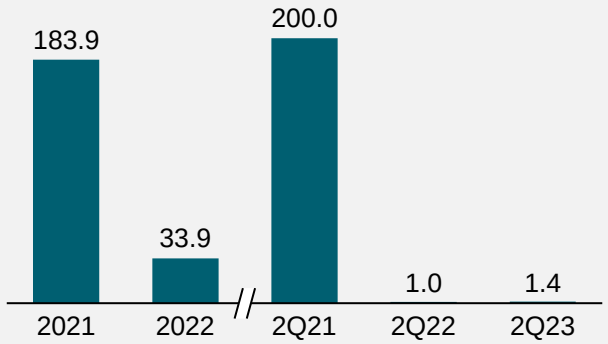
100% renewable

ESG KPIs

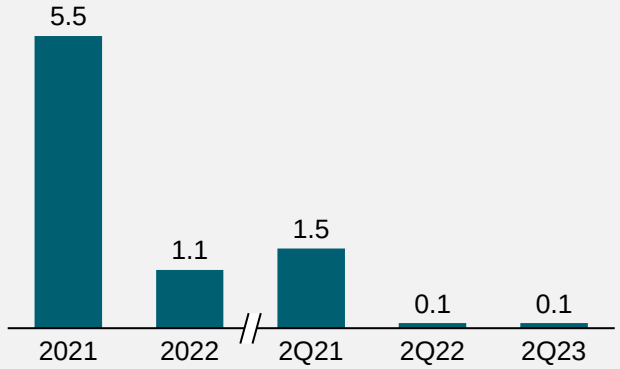
INSTALLED CAPACITY AND % OF RENEWABLES



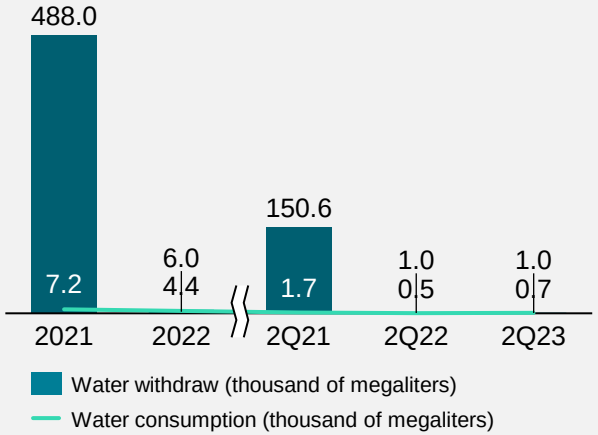
EMISSION INTENSITY ($KgCO_{2e}$/MWh)



TOTAL EMISSIONS (million of tCO_2e)



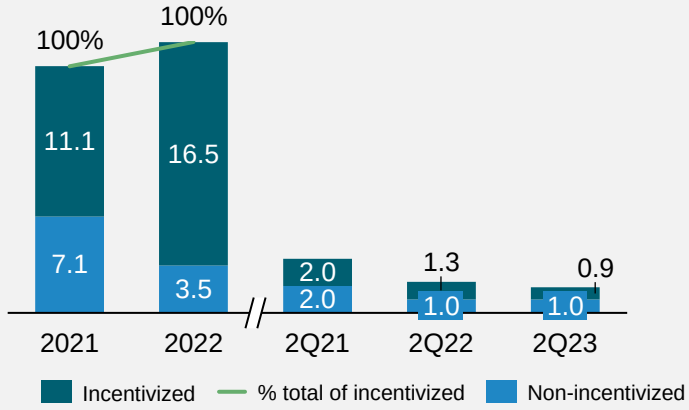
WATER INPUT AND CONSUMPTION



% WOMEN IN THE WORKFORCE

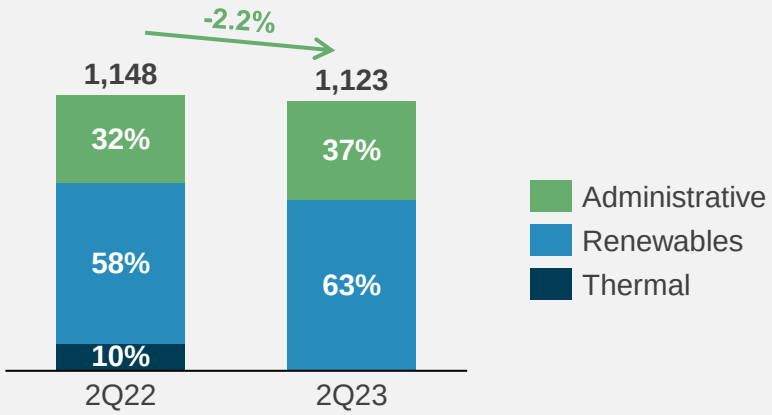


SOCIAL RESPONSIBILITY INVESTMENTS (R$ MILLION) AND % OF THE INCENTIVIZED RESOURCE LIMIT

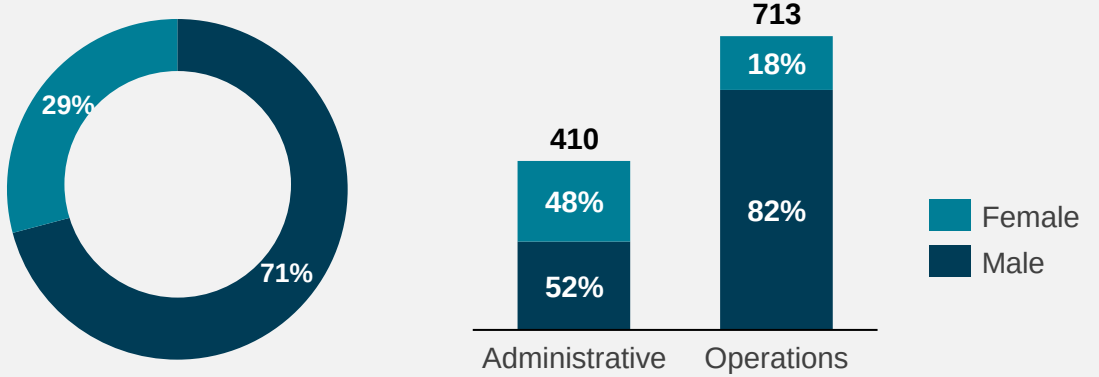


Headcount[1]

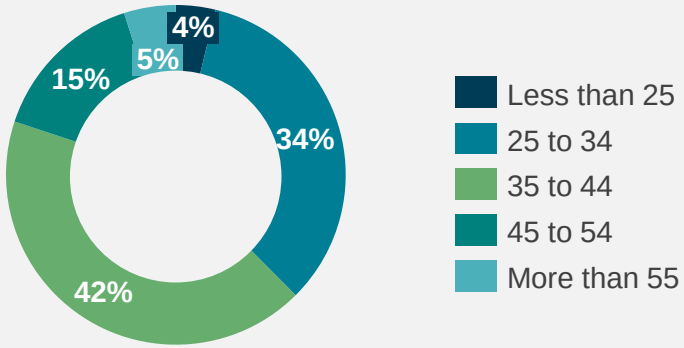
Number of Employees



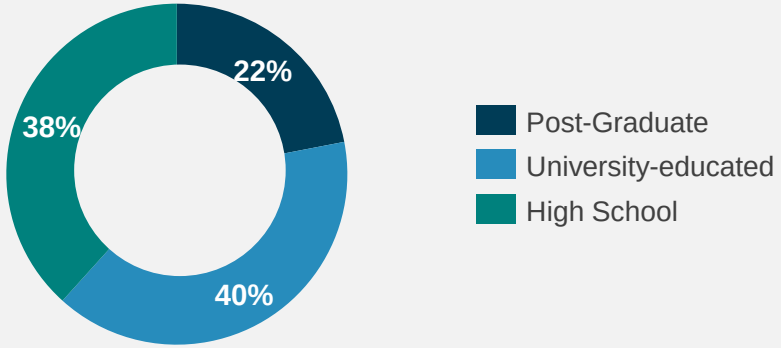
By gender



By age group



By academic qualifications



Note: [1]Does not consider employees posted to projects under construction.

Sustainability KPIs[1]

Item	Dimension[2]	Index	Material themes	GRI disclosure[3]	2Q23	2Q22	Change	6M23	6M22	Change
1	Quality	Operating plants	- Economic and operational performance - Energy and Greenhouse Gas Emissions	EU1	76	76	0	76	76	0
2		Installed operated capacity		EU1	9,898	10,174	-2.7%	9,898	10,174	-2.7%
3		Installed proprietary capacity		EU1	8,177	8,453	-3.3%	8,177	8,453	-3.3%
4		Number of certified plants		EU6	11	11	0	11	11	0
5		Certified operated capacity (MW)		EU6	8,115	8,115	0.0%	8,115	8,115	0.0%
6		Certified operated capacity in relation to the total		EU6	82.0%	79.8%	2.2 p.p.	82.0%	79.8%	2.2 p.p.
7		Operated capacity from renewable sources		EU1	9,898	9,829	0.7%	9,898	9,829	0.7%
8		Operated capacity from renewable sources in relation to the total		EU1	100.0%	96.6%	3.4 p.p.	100.0%	96.6%	3.4 p.p.
9		Energy generation (GWh)		EU2	7,418	10,303	-28.0%	16,733	17,416	-3.9%
10		Certified energy generation		EU6	5,832	8,696	-32.9%	13,584	14,290	-4.9%
11		Certified energy generation in relation to the total		EU6	78.6%	84.4%	-5.8 p.p.	81.2%	82.0%	-0.9 p.p.
12		Energy generation from renewable sources (GWh)		EU2	7,413	10,303	-28.1%	16,522	16,990	-2.8%
13		Energy generation from renewable sources in relation to the total		EU2	99.9%	100.0%	-0.1 p.p.	1	97.6%	1.2 p.p.
14		Global uptime ratio of generating park		EU30	92.4%	89.4%	3.0 p.p.	93.4%	91.3%	2.1 p.p.
15		Uptime - transmission lines		EU30	99.97%	-	-	99.97%	-	-
16	Environment and climate change	Saplings donated and planted (sum-total of planted and donated	- Energy and Greenhouse Gas Emissions - Support to sustainable community developments - Water and effluents - Biodiversity	304-1, 413-1	57,811	52,709	9.7%	103,452	112,895	-8.4%
17		Number of visitors at the plants and environmental education		413-1	34,369	52,112	-34.0%	48,419	72,078	-32.8%
18		Water imput (megaliters)		303-3	919	1,238	-25.7%	1,418	2,276	-37.7%
19		Water consumption (megaliters)		303-5	427	731	-41.6%	889	1,723	-48.4%
20		Total emissions tCO_2e		D305-1, D305-2, D305-3	9,762	6,967	40.1%	209,695	424,144	-50.6%
21		CO_2 emissions intensity (fossil fuel plants) (kg/MWh)		D305-1, D305-2, D305-3	0.00	0.00	0.0%	513.1	1070.4	-52.1%
22		CO_2 emissions intensity (Generation complex) (kg/MWh)		D305-1, D305-2, D305-3	1.37	1.00	36.6%	8.27	32.00	-74.1%
23	People	Total employees	- Employee health, safety and development - Fostering value-chain sustainability	2-7	1,090	1,170	-6.8%	1,090	1,170	-6.8%
24		Women in the workforce		2-7	28.2%	24.4%	3.8 p.p.	28.2%	24.4%	3.8 p.p.
25		Frequency Rate (FR) operation and maintenance[4]		403-2	0.775	0.000	▲	1.143	1.544	▼
26		Severity Rate (SR) own employees[5]		403-2	0.006	N.D.	-	0.006	N.D.	-
27		Frequency Rate (FR) construction		403-2	1.858	1.813	▲	1.614	0.955	▲
28		Managerial Safety Visits - VGS		403-2	341	137	148.9%	594	250	137.6%
29		Registry of Risky and Near Accident Situation		403-2	694	779	-10.9%	1003	1,496	-33.0%
30	Social Responsibility[6]	Non-incentivized investments	- Support to sustainable community development	201-1, 413-1	957.4	978.4	-2.1%	1,831.9	1,802.1	1.7%
31		Investments through the Infancy and Adolescence Fund (FIA)		201-1, 413-1	0.0	64.0	-100.0%	210.5	200.0	5.3%
32		Investments through the Culture Incentive Law (Rouanet)		201-1, 413-1	700.0	571.0	22.6%	1,139.0	2,122.2	-46.3%
33		Investments through the Sport Incentive Law		201-1, 413-1	200.0	636.0	-68.6%	350.0	730.0	-52.1%
34		Investments through the Municipal Fund for the Elderly		201-1, 413-1	0.0	0.0	-	226.9	38.5	489.4%

Notes:

[1] Additional information regarding the Sustainability at the Company are available at the Sustainability Report (www.engie.com.br/en/investors/sustainability-reports/).

[2] Reference: ENGIE Sustainable Management Policy.

[3] GRI: Global Reporting Initiative, Standards version and sector supplement version G4.

[4] FR = number of occupational accidents for every million hours of exposure to hazards.

[5] SR = number of days lost due to occupational accidents for every one thousand hours of exposure to hazards. SR started to consider service providers from 2023, which is why there is no comparative data for 2022.

[6] Amounts in Thousand of reais.

Key Performance Indicators

Consolidated (in R$ million)	2Q23	2Q22	Chg.	6M23	6M22	Chg.
Net Operating Revenue (NOR)	2,610	2,996	**-12.9%**	5,523	6,059	**-8.8%**
Results from Operations (EBIT)	1,478	1,456	**1.5%**	3,315	3,098	**7.0%**
Ebitda [1]	1,710	1,717	**-0.4%**	3,774	3,607	**4.6%**
Adjusted Ebitda [2]	1,798	1,897	**-5.2%**	3,862	3,774	**2.3%**
Non-recurrent effects adjusted Ebitda [3]	1,907	1,720	**10.9%**	3,799	3,380	**12.4%**
Ebitda / NOR - (%) [1]	65.5	57.3	**8.2 p.p.**	68.3	59.5	**8.8 p.p.**
Adjusted Ebitda / NOR - (%) [2]	68.9	63.3	**5.6 p.p.**	69.9	62.3	**7.6 p.p.**
Net Income	733	395	**85.6%**	1,615	1,040	**55.3%**
Adjusted Net Income	806	514	**56.8%**	1,688	1,150	**46.8%**
Adjusted Return on Equity (ROE) [4]	35.1	32.3	**2.7 p.p.**	35.1	32.3	**2.7 p.p.**
Adjusted Return on Invested Capital (ROIC) [5]	20.7	22.7	**-2.0 p.p.**	20.7	22.7	**-2.0 p.p.**
Net Debt [6]	13,890	16,342	**-15.0%**	13,890	16,342	**-15.0%**
Gross Power Production (avg MW) [7]	3,396	4,718	**-28.0%**	3,852	4,010	**-3.9%**
Energy Sold (avg MW) [8]	4,253	4,435	**-4.1%**	4,268	4,326	**-1.3%**
Average Net Sales Price (R$/MWh) [9]	219.80	216.60	**1.5%**	226.19	221.59	**2.1%**
Number of Employees - Total	1,133	1,218	**-7.0%**	1,133	1,218	**-7.0%**
EBE Employees	1,123	1,148	**-2.2%**	1,123	1,148	**-2.2%**
Employees on Under Construction Plants	10	70	**-85.7%**	10	70	**-85.7%**

Notes:

[1] Ebitda represents: net income + income tax and social contribution + financial result + depreciation and amortization.

[2] Adjusted EBITDA represents: net income + income tax and social contribution + financial results + depreciation and amortization + impairment + non-recurrents.

[3] Adjusted Ebitda, less the effects of IFRS in the transmission segment.

[4] ROE: adjusted net income of the past 4 quarters/shareholders' equity.

[5] ROIC: effective tax rate x adjusted EBIT / invested capital (invested capital: debt – cash and cash equivalents – deposits earmarked for debt servicing + SE).

[6] Adjusted amount, net of gains from hedge operations.

[7] Total electricity output from the plants operated by ENGIE Brasil Energia.

[8] Disregarding sales for quotas regime (Jaguara and Miranda HPPs).

[9] Net of taxes, exports and trading operations.

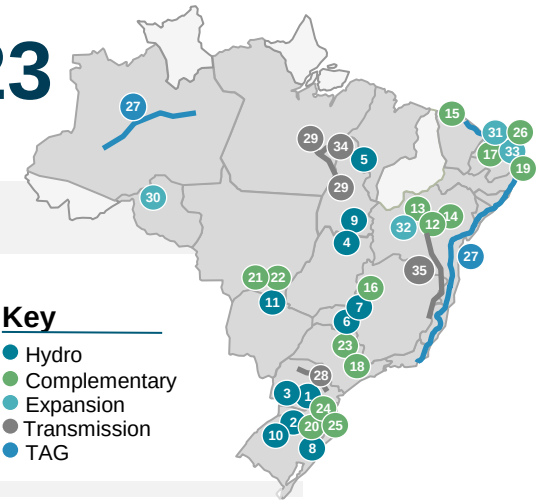
Diversified Portfolio of Assets as of June 30, 2023

	Hydro Power Plants	Installed Capacity (MW)	Commercial Capacity (aMW)
1	Salto Santiago	1,420.0	702.2
2	Itá	1,126.9[1]	528.7[1]
3	Salto Osório	1,090.8	477.5
4	Cana Brava	450.0	247.8
5	Estreito	435.6[1]	244.1[1]
6	Jaguara	424.0	324.0
7	Miranda	408.0	188.3
8	Machadinho	403.9[1]	138.0[1]
9	São Salvador	243.2	140.8
10	Passo Fundo	226.0	107.5
11	Ponte de Pedra	176.1	127.6
	Total	**6,404.5**	**3,226.5**

	Usinas Complementares	Installed Capacity (MW)	Commercial Capacity (aMW)
12	Campo Largo II Complex (Wind)	361.2	192.5
13	Umburanas Complex (Wind)	360.0	213.3
14	Campo Largo I Complex (Wind)	326.7	159.6
15	Trairi Complex (Wind)	212.6	88.3
16	Paracatu (Solar)	132.0	34.0
17	Floresta (Solar)	86.0	25.1
18	Ferrari (Biomass)	80.5	25.6
19	Assú V (Solar)	34.0	9.2
20	Lages (Biomass)	28.0	12.7
21	Rondonópolis (SHP)	26.6	14.0
22	José G. da Rocha (SHP)	24.4	11.9
23	Ibitiúva (Biomass)	22.9[1]	7.1[1]
24	Nova Aurora (Solar)	3.0	0.25
25	Tubarão (Wind)	6.3	0.3
26	Santo Agostinho Complex (Wind)	68.2	35.5
	Total	**1,772.4**	**829.4**

Installed capacity of **8,176.9 MW (4,055.9 aMW)**, **+1,964 MW** of wind and solar energy under implementation.

2,709 Km of transmission lines and **4,500 Km** of operating pipelines.



	Gas Pipelines	Size	Compression Stations
27	Transportadora Associada de Gás (TAG)	4,500 Km	11

	Transmission	Size	Substations
28	Gralha Azul – operational	909 km	5
29	Novo Estado – operational	1,800 km	1 new and expansion of 3 existing
	Total	**2,709 km**	

Expansion

	Generation	Installed Capacity (MW)	Commercial Capacity (aMW)
30	Jirau (Hydro)[2]	1,500.0	840.6
31	Santo Agostinho I Complex (Wind)	365.8	188.7
32	Serra do Assuruá Complex (Wind)	846.0	412.0
33	Assú Sol Photovoltaic Complex (Solar)	752.0	234.0
	Total	**3,463.8**	**1,675.3**

	Transmission	Size	Substations
34	Gavião Real (Pará) – under implementation	~1 km	Expansion of 1 existing
35	Asa Branca (BA, MG and ES) – under implementation	~ 1,000 km	-
	Total	**~1,001 km**	

Notes:
[1] Portion owned by ENGIE Brasil Energia.
[2] The transfer of the 40% stake of ENGIE Brasil Part. in Jirau HPP to the Company should be examined timely.

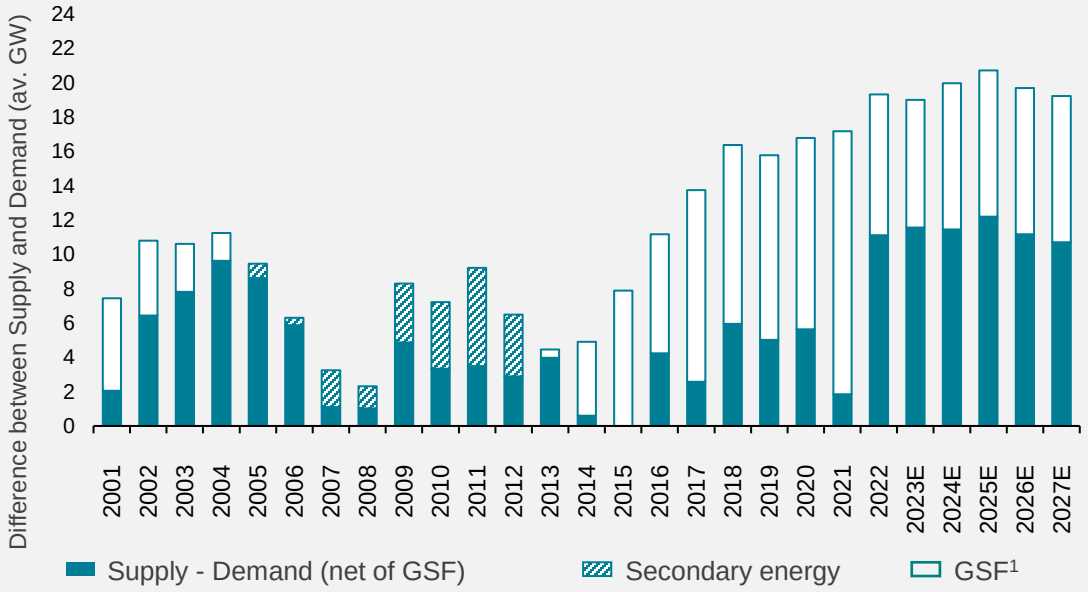
Energy Market in Brazil

Supply: in the past, supplied by hydroelectric plants with reservoirs. Currently, a greater presence of thermoelectric and hydroelectric run-of-river plants. Continuous expansion of supply from intermittent sources, reducing the participation of other sources in the matrix.

Demand: The consumption in 2Q23 was around 1.0% higher than the same period of 2022. This variation is mainly due to the month of May, which presented an increase of 2.9%, when compared to 2022.

Despite the reduction in rainfall, when compared with the MLT, the PLD remained at low values. The average for 2Q23 was R$69.04/MWh, equivalent to the regulatory floor.

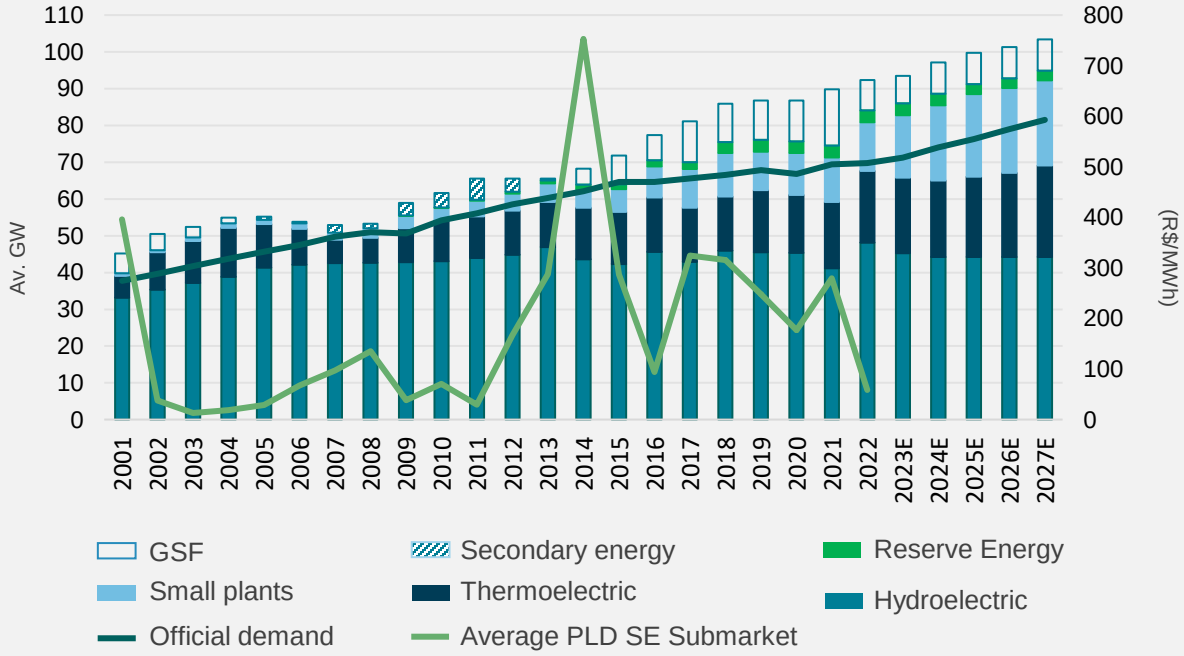
Theoretical Supply x Demand



1: For 2023, the GSF expectation was considered according to CCEE. For the years 2024+ the average GSF for the period 2017-2022 was used

Source: ENGIE Brasil Energia internal study based on official sector documents.

Distribution of supply by source



Source: Internal study based on Aneel and ONS data.

Energy Balance as of June 30, 2023

Diversified contracting with duration of about 15 years in ACR and 3 years in ACL[1]

(in average MW)	2023	2024	2025	2026	2027	2028	Auction Gross Price (R$/MWh)	Reference Date	Gross Price Adjusted (R$/MWh)	Net Price of PIS/COFINS/P&D (R$/MWh)
Own Resources	4,064	4,146	4,598	4,718	4,718	4,718				
+ Purchases for Resale	1,270	886	500	430	334	329				
= Total Resources (A)	**5,334**	**5,032**	**5,098**	**5,148**	**5,052**	**5,047**				
Government Auction Sales[2]	1,878	1,751	1,738	1,728	1,719	1,709				
2005-NE-2010-30	200	200	200	200	200	200	115.1	Dec-05	295.4	265.4
2006-NE-2009-30	493	493	493	493	493	493	128.4	Jun-06	324.1	291.2
2006-NE-2011-30	148	148	148	148	148	148	135.0	Nov-06	338.5	304.1
2007-NE-2012-30	256	256	256	256	256	256	126.6	Oct-07	304.8	273.9
Proinfa	19	19	19	19	10	-	147.8	Jun-04	442.5	426.4
1st Reserve Energy Auction	14	14	2	-	-	-	158.1	Aug-08	363.6	350.3
Auction Mix (New Energy / Reserve)	14	9	8	-	-	-	-	-	358.6	345.5
2014-NE-2019-25	122	-	-	-	-	-	183.5	Mar-14	294.9	264.9
2014-NE-2019-25	10	10	10	10	10	10	206.2	Nov-14	342.4	329.9
2014-NE-2019-20	82	82	82	82	82	82	139.3	Nov-14	223.9	203.2
2015-NE-2018-20	46	46	46	46	46	46	188.5	Aug-15	280.7	254.7
8th Reserve Energy Auction (Assú V/Floresta/Paracatu)	68	68	68	68	68	68	296.7	Nov-15	427.3	387.7
2017-EN-2019-20	48	48	48	48	48	48	136.4	Nov-14	224.3	203.6
Government Auction - Quotas regime										
2018 - Quotas (UHJA) - 2018-30	226	226	226	226	226	226	-	Jul-17	181.7	173.3
2018 - Quotas (UHMI) - 2018-30	132	132	132	132	132	132	-	Jul-17	209.5	199.8
+ Bilateral Sales	3,079	2,632	2,359	2,126	1,282	693				
= Total Sales (B)	**4,957**	**4,383**	**4,097**	**3,854**	**3,001**	**2,402**				
- Structural GSF Hedge (0.80)	**377**	**521**	**521**	**521**	**521**	**521**				
Balance (A - B)	**-**	**128**	**480**	**773**	**1,530**	**2,124**				
Sales Average Price (R$/MWh) **(net)**[3,4]:	217.2	222.4	213.5							
Purchases Average Price (R$/MWh) **(net)**[5]:	176.0	163.6	136.8							

[2] XXXX-YY-WWWW-ZZ, where:
XXXX -> year of auction
YY -> EN = existing energy or NE = new energy
WWWW -> year of delivery start
ZZ -> supply contract duration (in years)

[1] Average term weighted by the amount of energy sold, including trading operations.
[3] Sales price, including trading operations, net of ICMS and taxes over revenue (PIS/Cofins, R&D), i.e. future inflation is not being considered.
[4] Disregarding sales for quotas regime (Jaguara and Miranda HPPs).
[5] Purchase net price, considering trading operations and benefits from PIS/Cofins credits, i.e. future inflation is not being considered.

Notes:
- The balance refers to the settlement point (net of losses and internal consumption of the plants).
- The average prices are considered simply estimates and are based on financial planning revisions, not capturing volume changes, which are updated quarterly.
- Includes the revision of the Physical Guarantees, according to the Ordinance 709 of the Ministry of Mines and Energy, of 11/30/2022.

Transportadora Associada de Gás – TAG

Contracts breakdown and indebtedness

Fully contracted in the regulated market for a weighted average term of approximately 7 years. Financing structure with competitive cost and protected from exchange variation - Rating AAA and International BB and Ba1 by Fitch Ratings and Moody's, respectively.

BREAKDOWN OF LEGACY CONTRACTS WITH PETROBRAS

Gas Pipelines	Size (km)	Agreement Maturity[1]	Contracted Volumes (MM m³/day)	% of Net Operating Revenue[2]	Readjustment index
Gasene	1,400	Nov-2033	30.3	40.0%	46% Basket IGP[4]; 54% US PPI
Malha NE	2,000	Dec-2025	21.6	23.8%	IGP-M
Pilar-Ipojuca	200	Nov-2031	15.0	6.5%	IGP-M
Urucu-Coari-Manaus	800	Nov-2030	6.7	29.4%	50% IGP-M; 50% IPCA
Lagoa Parda Vitória[3]	100	Dec-2023	0.7	0.3%	IGP-M
Total	**~4,500**		**74.3**	**100.0%**	

Notes:
[1] Following the expiry of the agreements, an estimated five-year tariff revision cycle will be triggered, which will decide the revised maximum permitted revenue flow (RAP).
[2] Variations in revenue representativeness between GTAs may occur.
[3] Billing beginning on Jan 01, 2022.
[4] 1/3 IGP-M; 1/3 IPA-DI; 1/3 IGP-DI.

DEBT PROFILE – TAG[1] (as of June 30, 2023)

8.4 billion
Domestic market



9.1 billion
Foreign Market

Domestic market: ~CDI + 1.80% p.y., with semi-annual amortizations and maturing in June 2026.

Foreign market[2]: SOFR[3] + initial spread between 2.3% and 3.6% with semi-annual amortizations and maturing June 2027.

TAG	2022	2Q23
Net Debt/Ebitda (x)	2.3x	2.1x

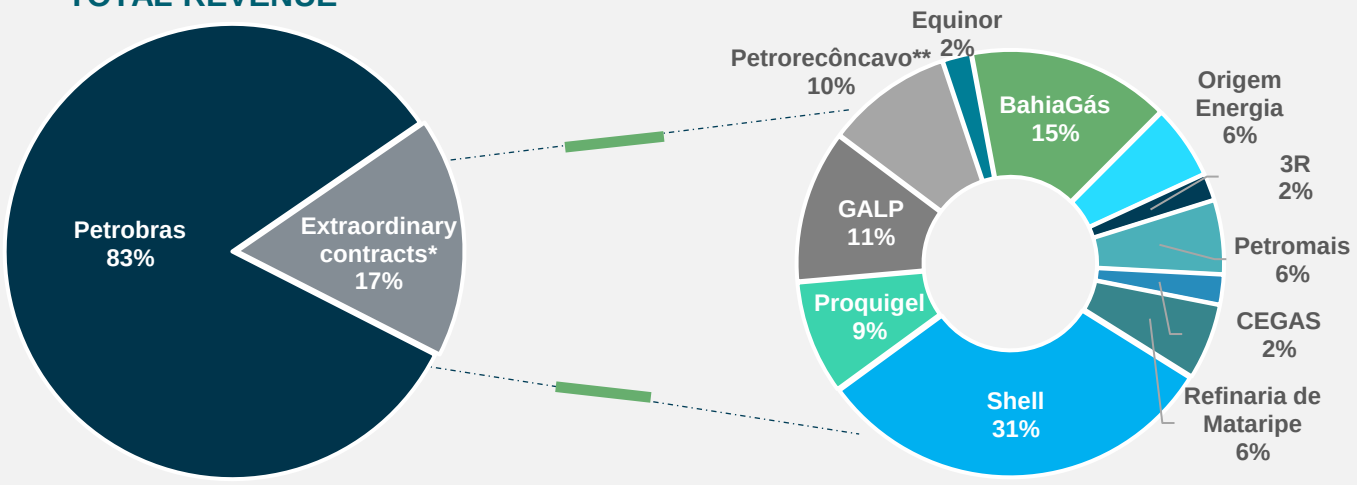
Notes:
[1] The presented values do not consider the debt swaps.
[2] The portion of the debt denominated in foreign currency was converter by Ptax of R$ 4.8192 as of June 30, 2023 and is linked to US Dollar sales under part of the Gasene agreement, thus being a symmetry between revenue and debt servicing.
[3] 90% of the interest flow indexed to SOFR is locked through swap operations (SOFR x flat rate).

Transportadora Associada de Gás – TAG

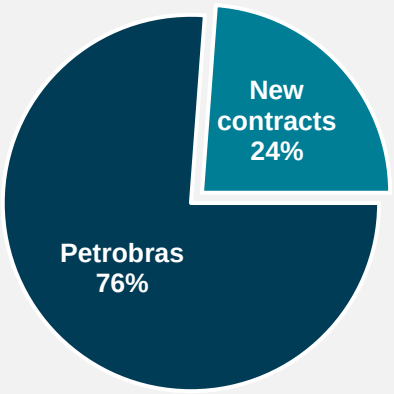
Protagonism for the liberalization of the gas market: access of important players to the transport network

- Use of **POC – Capacity Offer Platform**, in partnership with TBG and NTS – for the negotiation of online transportation capacity;
- **50** extraordinary **agreements** signed during 2023, lasting until December.
- **13.8 million m³/day** of transport capacity contracted (approx. 24% of the integrated network revenue);
- **18** clients (including Petrobras) from 11 different economic groups;
- **Flexibility of new transport capacity offers,** with weekly entry windows and varied deadlines;
- Creation of an **online trading platform**, signature of molecule purchase and sale contracts for **transport system balance** and acquisition of **packaging gas and system use gas**, generating greater dynamism to the market.

TOTAL REVENUE*



INTEGRATED NETWORK REVENUE
(Ex. URUCU-COARI-MANAUS GTA)



* Revenues from extraordinary contracts are deducted from the invoicing of legacy contracts with Petrobras.
** Petrorecôncavo = Petrorecôncavo + SPE Miranga + Potiguar

Transportadora Associada de Gás – TAG

Investment plan for maintenance, integrity and market opening totaling BRL 3.3 billion over the next 5 years.

Itajuípe Compressor Station

Network Optimization | Construction of a new compression station at GASCAC, located at the northern section of GASENE

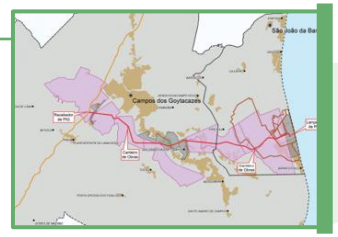
- Installed Capacity: 20 MMm³/day
- Network additional volume: 3 MMm³/day
- Estimated CAPEX: BRL 680m



Connection of Porto do Açú

Access connection | Connection at Porto do Açu to the Cabiúnas-Vitória Gas Pipeline

- Extension: 45km
- Max. carrying capacity: 18MM m³/day
- Signed the commitment agreement for studies between TAG and GNA





GASFOR II (Ceará)

Network Optimization | Pipeline for loop in existing section

- Extension: 84km
- Estimated CAPEX: BRL 300m
- Start of operation: 4Q2023



Sergipe Terminal Connection (SE)

Access connection | Interconnection in the state of Sergipe through a new pipeline

- Extension: 25km and max. carrying capacity: 14MM m³/day
- Estimated CAPEX: BRL 340m
- Signed access connection agreement
- Start of operation: 2Q2024



Itagibá Delivery Point (BA)

Access connection | New entry point to serve the local Distribution company, located along the Northern stretch of Gasene

- Max. delivery capacity: 0.7MM m³/day
- Estimated CAPEX: BRL 23m
- Start of operation: 3Q2023

Projects under development

Projects under construction

More than BRL 20 billion in projects under study, representing significant growth potential.

Contacts

Eduardo SATTAMINI
Chief Executive and Investor Relations Officer

Eduardo TAKAMORI
Chief Financial Officer

Investor Relations Team:

www.engie.com.br/investidores

ri.brenergia@engie.com

Rafael Bósio
Investor Relations Manager
rafael.bosio@engie.com
(48) 9 9911-0106

Adriana Wagner
Investor Relations Analyst
adriana.wagner@engie.com

Caio Miralles
Sustainability Analyst
caio.miralles@engie.com

Ivani Angeli
Investor Relations Analyst
ivani.angeli@engie.com

Tatiana Wittmann
Investor Relations Analyst
tatiana.wittmann@engie.com



www.engie.com.br