ENGIE Brasil Energia S.A.
Results Presentation 3Q19

November 5, 2019

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HIGHLIGHTS



MAIN FINANCIAL AND OPERATIONAL INDEXES

(in R$ million)	3Q19	3Q18	Chg.	9M19	9M18	Chg.
Net Operating Revenue (NOR)	2,494.1	2,488.6	0.2%	7,009.4	6,492.5	8.0%
Results from Operations (EBIT)	1,355.5	849.1	59.6%	3,220.6	2,764.0	16.5%
Ebitda [1]	1,581.3	1,019.8	55.1%	3,846.0	3,283.3	17.1%
Ebitda / NOR - (%) [1]	63.4	41.0	22.4 p.p.	54.9	50.6	4.3 p.p.
Net Income	742.7	475.4	56.2%	1,693.6	1,553.8	9.0%
Return On Equity (ROE) [2]	32.4	34.1	-1.7 p.p.	32.4	34.1	-1.7 p.p.
Return On Invested Capital (ROIC) [3]	19.6	25.4	-5.8 p.p.	19.6	25.4	-5.8 p.p.
Net Debt [4]	11,229.4	6,567.1	71.0%	11,229.4	6,567.1	71.0%
Power Production (avg. MW) [5]	5,210	4,421	17.8%	4,977	4,159	19.7%
Energy Sold (avg. MW) [6]	4,551	4,127	10.3%	4,256	4,112	3.5%
Average Net Sales Price (R$/MWh) [7]	189.24	181.89	4.0%	189.06	180.16	4.9%
Number of Employees – Total	1,433	1,264	13.4%	1,433	1,264	13.4%
EBE Employees [8]	1,403	1,216	15.4%	1,403	1,216	15.4%
Employees on Under Construction Plants	30	48	-37.5%	30	48	-37.5%

Notes:
[1] Ebitda represents: net income + income tax and social contribution + financial result + depreciation and amortization.
[2] ROE: net income for the past 4 quarters/shareholders' equity.
[3] ROIC: effective tax rate x EBIT / invested capital (invested capital: debt – cash and cash equivalents – deposits earmarked for debt servicing + SE).
[4] Adjusted amount, net of gains from hedge operations.
[5] Total gross electricity output from the plants operated by ENGIE Brasil Energia.
[6] Disregarding sales for quotas regime (Jaguara and Miranda HPPs).
[7] Net of taxes, exports and trading operations.
[8] With the full acquisition of ENGIE Geração Solar Distribuída, as from 4Q18, EBE absorbed the company's total payroll.

HIGHLIGHTS



In 3Q19, the amount of **R$ 321 million** was booked, arising from indemnities for delayed completion of the **construction of the Pampa Sul Thermoelectric Power Plant.**



Concluded the **9th Debentures Issue for a total amount of R$ 1.6 billion**. The resources were used to support investments in the Assú V, Umburanas, Jaguara and Miranda projects.



A **license for installation of the Ponta Grossa substation** has been received allowing a start to be made on construction work in September. At the end of October, an **installation license** was issued allowing the **beginning of the construction on the line of the Gralha Azul Transmission System**.

HIGHLIGHTS



An agreement was signed with the **BNDES for a R$ 1.26 billion** line of financing for implementing the **Umburanas Wind Complex (BA)** with an installed capacity of 360MW, the plant having already been in commercial operations since April 2019. The financing is EBE's largest project finance deal for a wind power operation.



For the 10th time, EBE was awarded the **Transparency Trophy** sponsored by Anefac, Fipecafi and Serasa Experian.

EBE was elected as **Company of the Year** by **Época Negócios 360°** magazine.

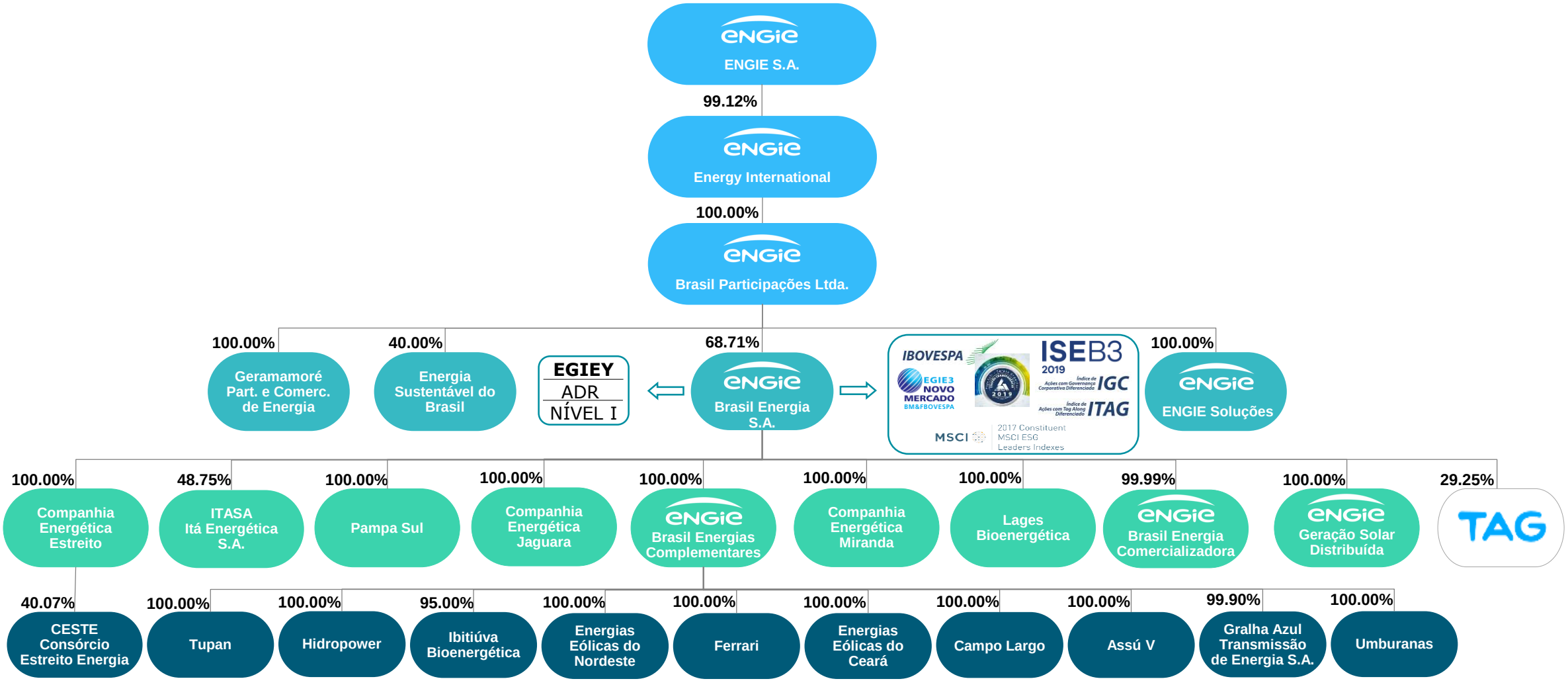


Approved the **distribution of R$ 893.4 million** (R$ 1.0949/share and 100% of the distributable net income of 1H19) **as intermediate dividends and R$ 354.0 million** (R$ 0.4338/share) **as interest on equity capital**. Shares will become ex-dividends and ex-interest as from December 3, 2019. The payment dates will be latter decide.



SHAREHOLDING STRUCTURE AND BUSINESS SEGMENTS

SHAREHOLDING STRUCTURE[1]



Note:
[1] Simplified chart for illustrative purpose only.

CONSISTENT EXPANSION

IN A DIVERSIFIED PORTFOLIO OF ASSETS

GENERATION

60 power plants operated
with own installed capacity of
8,710.5 MW (as from 9/30/2019)

TRANSMISSION

~1,000 Km of
transmission lines
under construction

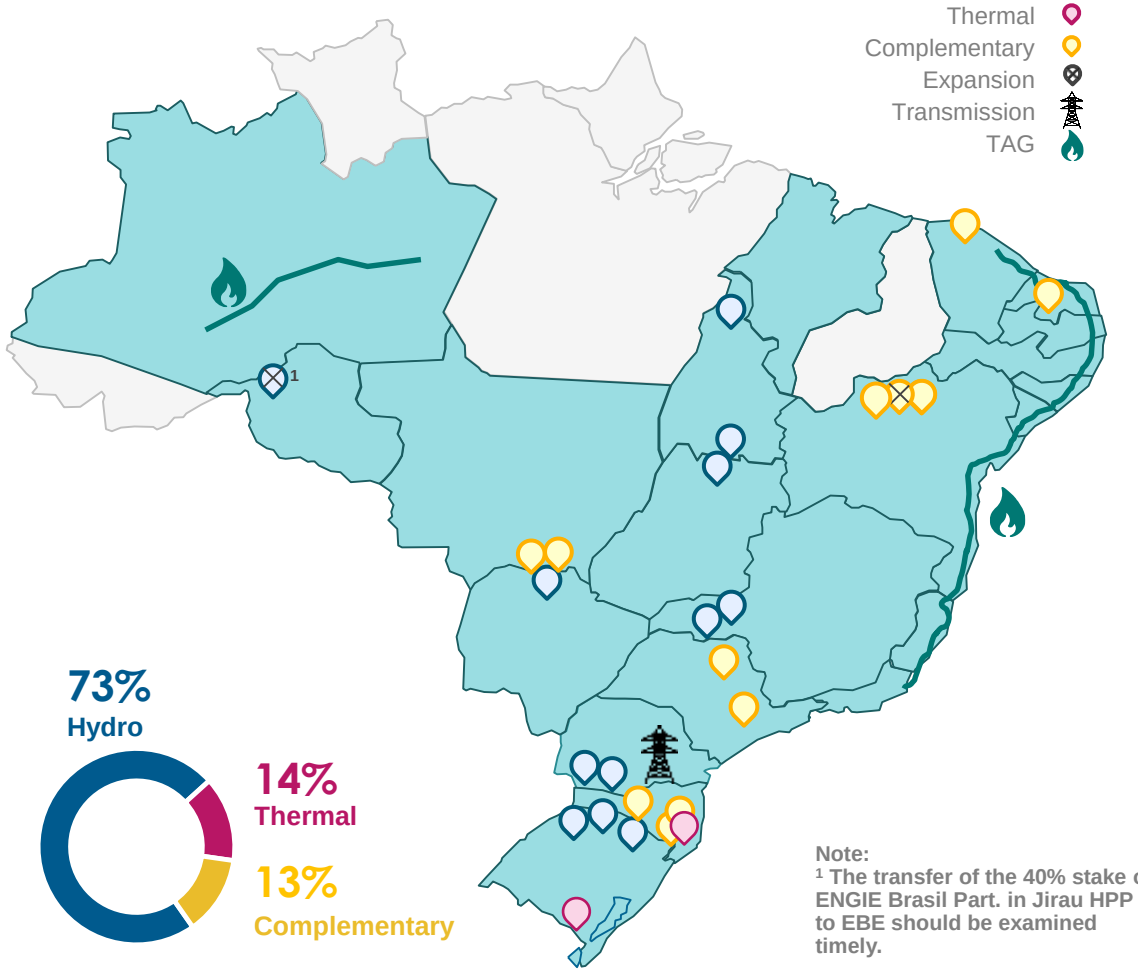
DISTRIBUTED SOLAR GENERATION

Total of **2,315 installed systems,** with **31,333 kWp** of capacity

NATURAL GAS (TAG)

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

- EBE's stake of **29.25%**



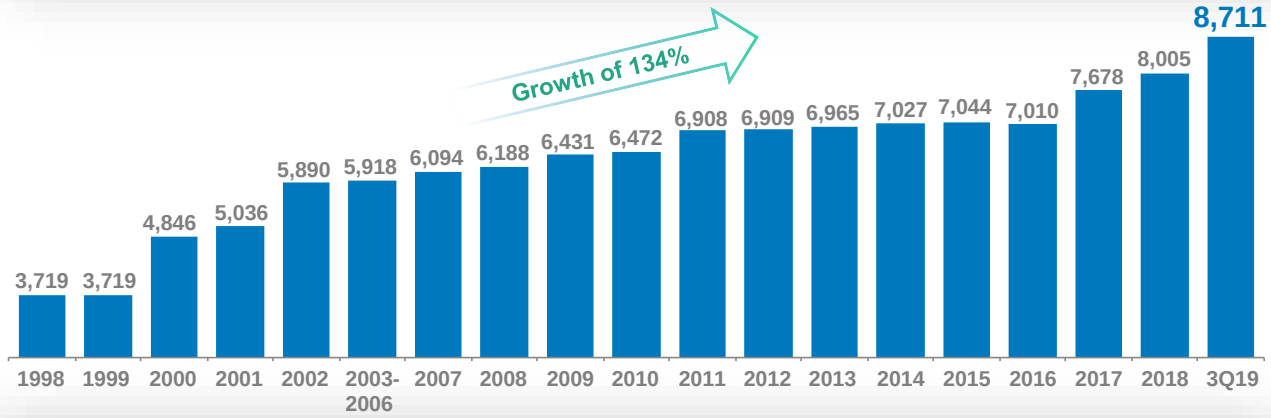
Note:
[1] The transfer of the 40% stake of ENGIE Brasil Part. in Jirau HPP to EBE should be examined timely.

ENERGY GENERATION

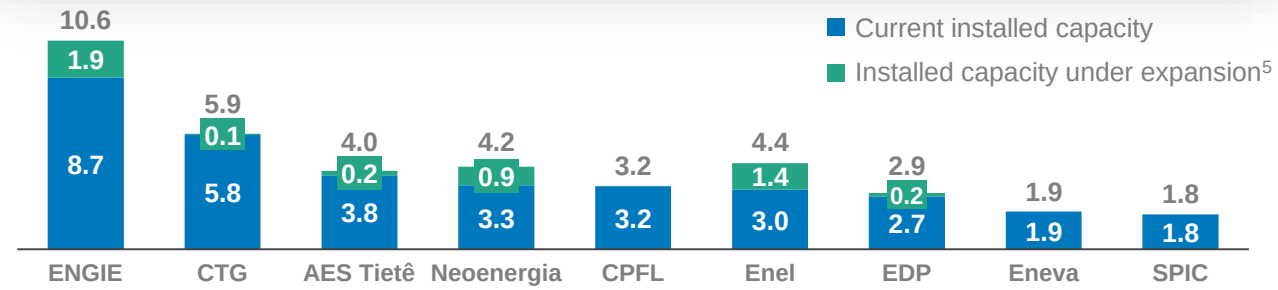
RELEVANCE AMONG POWER PRODUCERS

EBE is part of the largest independent power producer group in the country and is positioned to capture business opportunities.

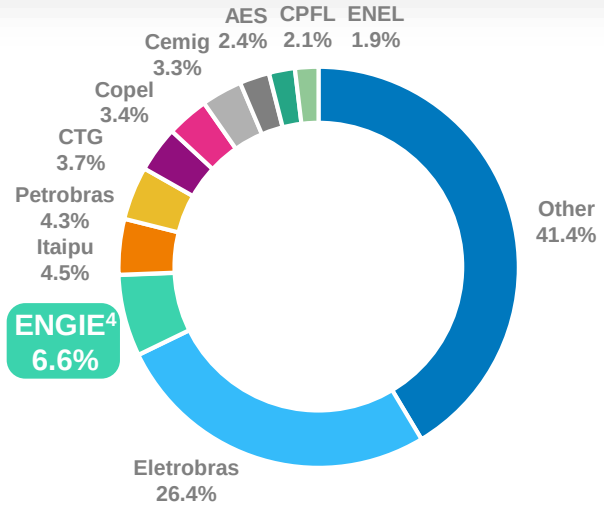
Energy Generation | Proprietary Operating Installed Capacity (MW)



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 of addends.
2 Amount corresponding to National Interlinked System (SIN), considering the Operation Monthly Program (PMO) as of January 2019.
3 Includes only the Brazilian part of Itaipu.
4 Considering the consolidated installed capacity of the group in Brazil, including HPP Jirau.
5 Based on information from Aneel, ONS and internal study.

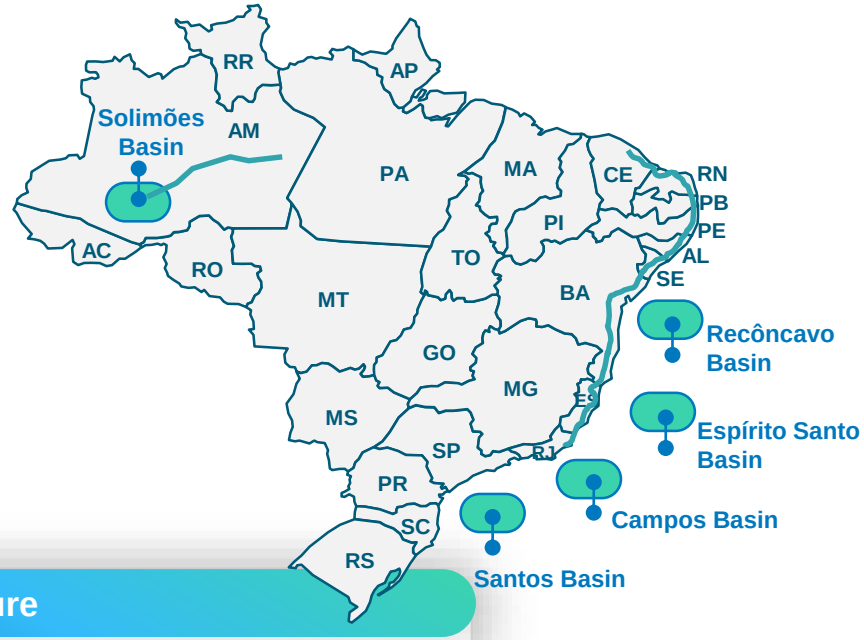
NATURAL GAS

TRANSPORTADORA ASSOCIADA DE GÁS (TAG)

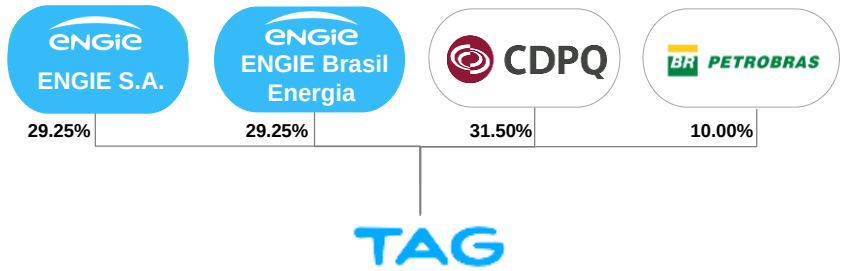
Entry into the natural gas segment materializing the strategy of becoming a key player in the Brazilian infrastructure energy sector.

Technical Characteristics

- ~4,500 km of high-pressure gas pipelines:
  3,700 km on the coast
  800 km in the Amazon region
- Contracted firm capacity for transporting more than 70 million m^3/day.
- 11 compression stations.
- Network with various interconnection points:
  - 10 gas distributors
  - 90 delivery points
  - refineries, fertilizer and power production plants supplied
  - 13 active gas entry points (including 2 LNG terminals)



Shareholding Structure



NATURAL GAS

TRANSPORTADORA ASSOCIADA DE GÁS (TAG)

High level of medium and long term contracted volume in the regulated market.

Contracts breakdown

Gas Pipelines	Size (km)	Agreement Maturity	Termination of Authorization	Contracted Volumes (MM m³/day)	% of the Net Operating Revenue[1]
Gasene	1,401	Nov-2033	Mar-2039	30.3	36.9%
Malha NE	2,002	Dec-2025	Mar-2039	21.6	24.0%
Pilar-Ipojuca	189	Nov-2031	Nov-2041	15.0	6.6%
Urucu-Coari-Manaus	802	Nov-2030	Nov-2040	6.3	32.5%
Lagoa Parda Vitoria	81	Under negotiation	Mar-2039	0.7	-
Total	**4,475**			**73.9**	**100.0%**

- No construction and volume risk (ship or pay contracts).
- Following the expiry of the current agreements, a five-year tariff revision cycle will be triggered under the responsibility of ANP[2], which will decide the revised maximum permitted revenue flow:
  - calculation of the regulated WACC
  - validation of the regulated asset base
  - check of Opex and depreciation

Notes:
[1] Variations in revenue representativeness between GTAs may occur.
[2] Agência Nacional do Petróleo/National Petroleum Agency.

TRANSMISSION

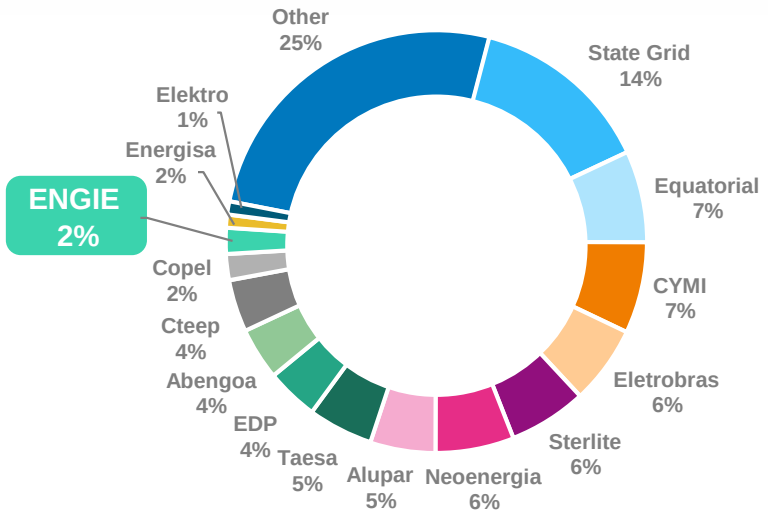
EXPANDING ITS PARTICIPATION IN THE ELECTRIC POWER INDUSTRY

Presence in the energy transmission segment materializing the strategy of diversification in energy infraestructure.

Transmission Segment – Main numbers

- Basic network extension (> 230 kV): 141,388 km[1].
- Total Maximum Annual Allowed Revenue (RAP) of transmission companies: R$ 23.8 billion[2].
- Eletrobras Group accounts for approximately 50% of the transmission market.
- Since 2013, there was a significant increase in the participation of private agents.
- Considering all auctions from 2013 to 2018, over than 45 thousand km of lines (R$ 10.5 billion RAP) were auctioned.

Brazil Auctions 2013-2018 – Market Share (%RAP)[3]



Notes:

[1] Data 2017 – Relevant Operation Data / 2023 - PAR.

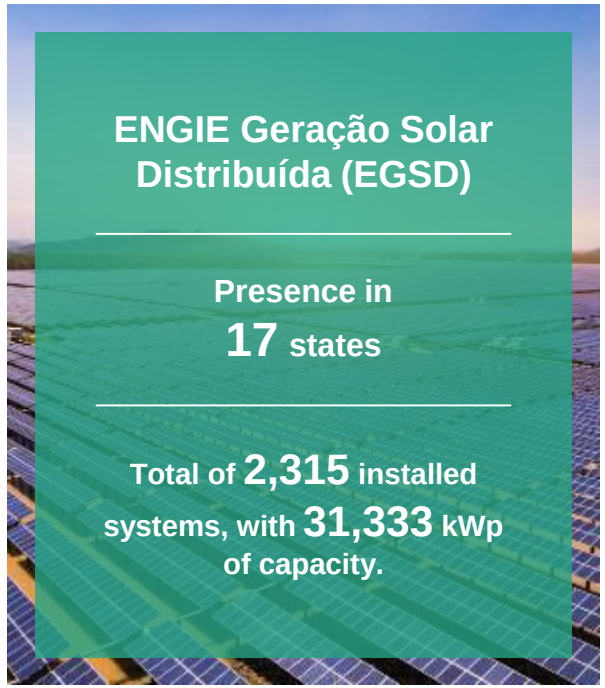
[2] Total RAP of transmission companies in the 2017-2018 cycle was approved in REH 2,258/2017.

[3] Considering the winners in the auctions, without taking into account eventual change in control that have occurred since then.

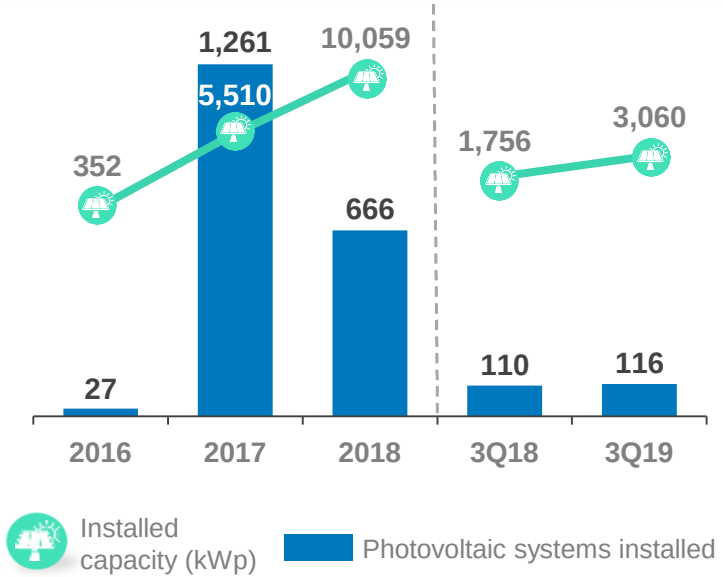
DISTRIBUTED SOLAR GENERATION

GREATER PROMIXITY TO THE FINAL CONSUMER

The B2B segment accounted for 93.7% of commercialized capacity up to the end of 3Q19.



Number of units and installed capacity





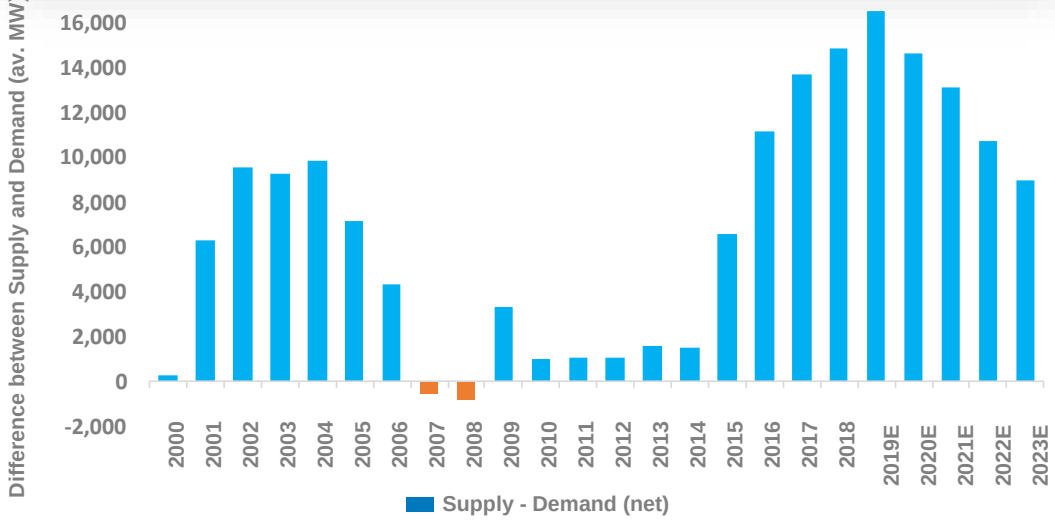
ENERGY MARKET IN BRAZIL

ENERGY MARKET

- **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 and water shortages recurrence
- **Demand:** the recovery in consumption will accelerate the over-supply reduction.

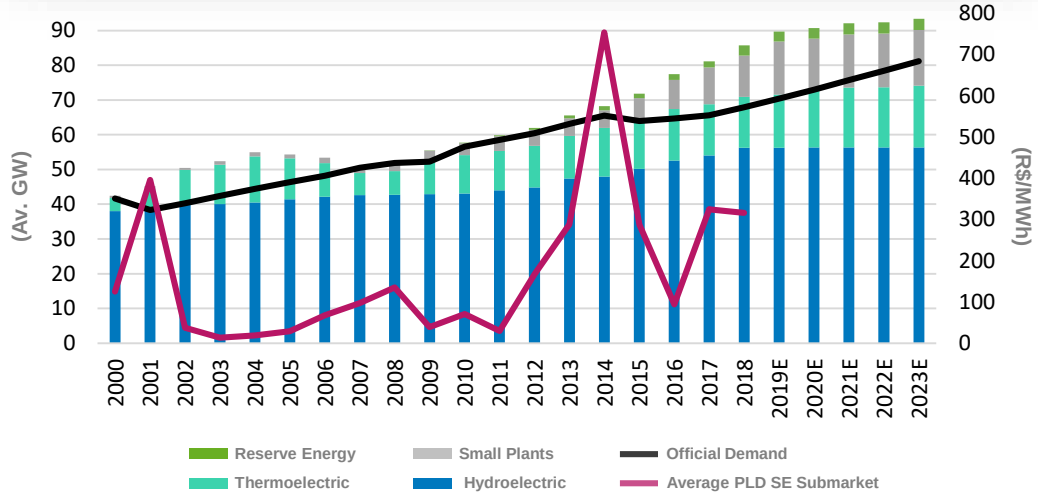
- **Surplus of capacity in the short-medium term, with a scarcity of energy and storage**
- **Greater volatility of spot prices at a high level**

Theoretical Supply x Demand (ignores GSF impact)



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.

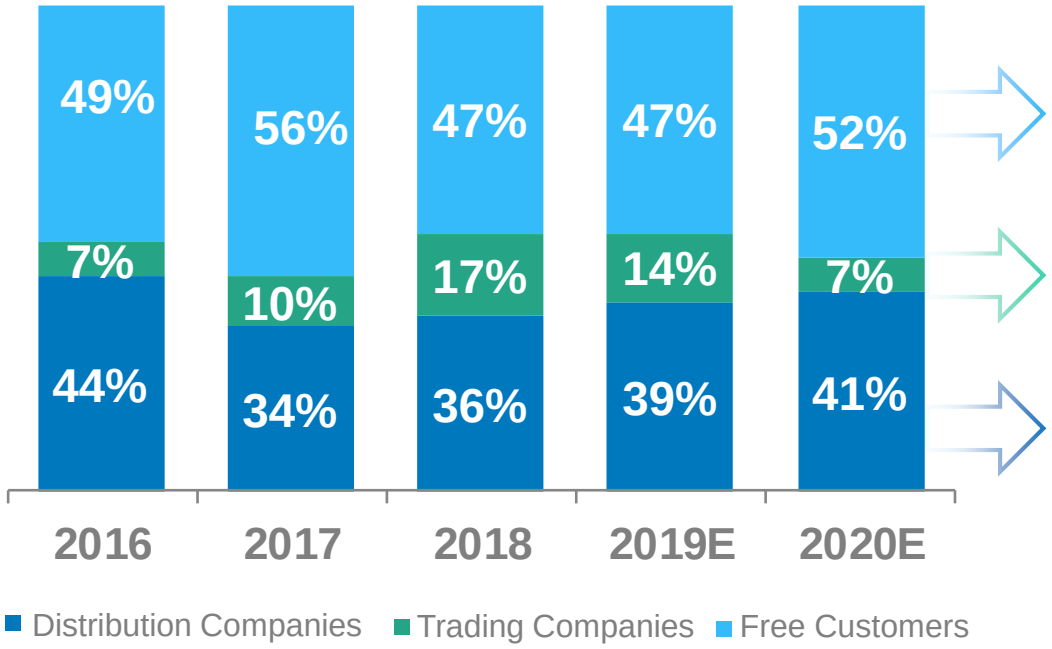
SALES AND ENERGY TRADING STRATEGY



DIVERSIFIED PORTFOLIO

AMONG DISTRIBUTION, FREE CUSTOMERS AND TRADING COMPANIES

Client Breakdown (based on contracted energy)



First to consistently serve the free market…

- Flexibility (prices, terms and conditions) → Maximizes portfolio's efficiency
- Opportunistic contracts (purchase/sale) → Product assembly
- Largest consumer market
- Regulated and unregulated contracts (signed until 2004) → Long-term cash flow predictability

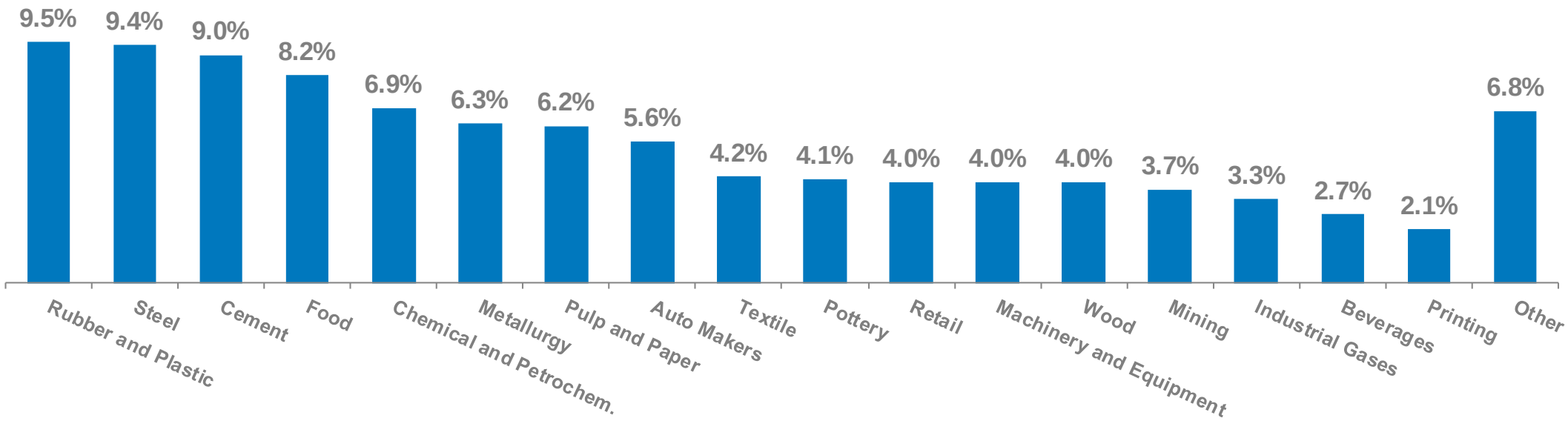
…to minimize risks and to maximize portfolio's efficiency.

The portfolio of free customers rose from 480 in 3Q18 to 573 in 3Q19, an increase of 19%.

DIVERSIFICATION ALSO WITHIN THE FREE CUSTOMERS PORTFOLIO

Free customer industry diversification and a strict credit assessment policy allow for a zero-default reality in the Free Contracting Environment (ACL).

Free customers total sales volume for 2019: 2,544 average MW



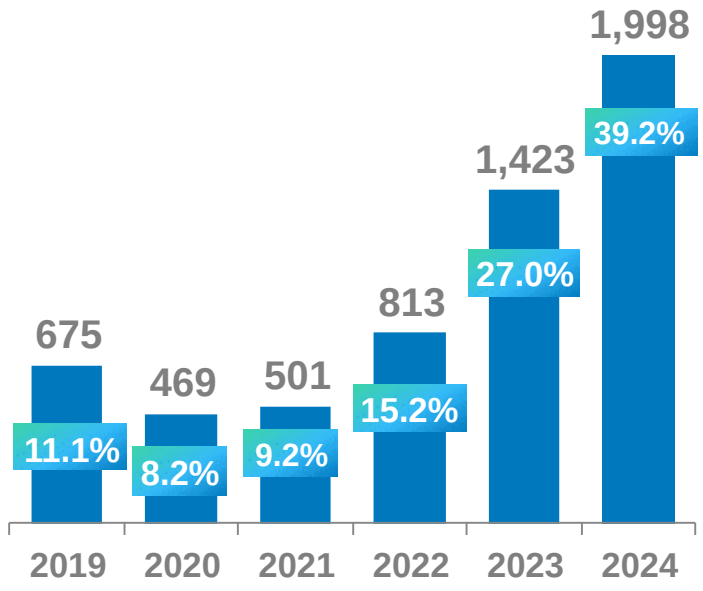
Source: Internal study based on IBGE's classification.

COMMERCIAL STRATEGY

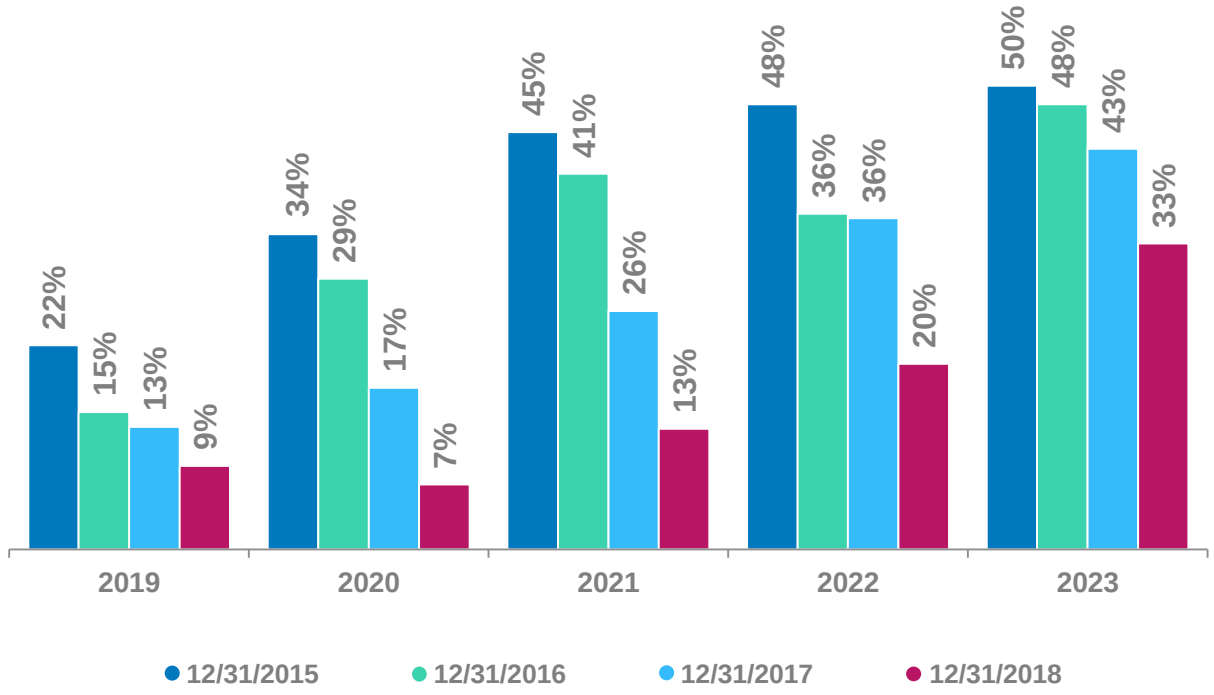
CONSIDERS THE GRADUAL SALE OF FUTURE ENERGY AVAILABILITY

Uncontracted energy[1] (average MW)

as of September 30, 2019



Uncontracted energy compared to the availability of a given year



Note:
[1] Percentage of total resources.

ENERGY BALANCE AS OF SEPTEMBER 30, 2019

	(in average MW)	2019	2020	2021	2022	2023	2024	Auction **Gross** Price (R$/MWh)	Reference Date	**Gross** Price Adjusted (R$/MWh)	**Net** Price of PIS/COFINS/P&D (R$/MWh)
	Own Resources	4,536	4,707	4,857	4,914	4,910	4,911				
+	Purchases for Resale	1,551	1,042	591	443	368	184				
=	**Total Resources (A)**	**6,087**	**5,749**	**5,448**	**5,357**	**5,278**	**5,095**				
	Government Auction Sales[1]	1,962	2,011	2,011	2,011	2,011	2,006				
	2005-EN-2010-30	200	200	200	200	200	200	115.1	Dez-05	235.4	211.5
	2006-EN-2009-30	493	493	493	493	493	493	128.4	Jun-06	258.5	232.3
	2006-EN-2011-30	148	148	148	148	148	148	135.0	Nov-06	269.6	242.2
	2007-EN-2012-30	256	256	256	256	256	256	126.6	Out-07	242.6	218.0
	2014-EE-2014-06	90	-	-	-	-	-	270.7	Mai-14	359.2	322.7
	Proinfa	19	19	19	19	19	19	147.8	Jun-04	286.6	276.2
	1st Reserve Energy Auction	14	12	12	12	12	12	158.1	Ago-08	284.7	274.3
	Auction Mix (New Energy / Reserve / GD)	17	14	14	14	14	9	-	-	266.1	256.4
	2014-EN-2019-25	151	295	295	295	295	295	183.5	Mar-14	248.3	223.1
	2014-EN-2019-25	10	10	10	10	10	10	206.2	Nov-14	261.0	251.5
	2014-EN-2019-20	83	83	83	83	83	83	139.3	Nov-14	176.4	160.1
	2015-EN-2018-20	46	46	46	46	46	46	188.5	Ago-15	223.5	202.8
	8th Reserve Energy Auction	9	9	9	9	9	9	303.0	Nov-15	347.5	315.3
	2014-EN-2019-20	48	48	48	48	48	48	136.4	Nov-14	176.7	160.4
	Government Auction – Quotas regime										
	2018 - Quotas (UHJA) - 2018-30	239	239	239	239	239	239	-	Jul-17	148.8	142.0
	2018 - Quotas (UHMI) - 2018-30	139	139	139	139	139	139	-	Jul-17	167.8	160.1
+	Bilateral Sales	3,450	3,269	2,936	2,533	1,844	1,091				
=	**Total Sales (B)**	**5,412**	**5,280**	**4,947**	**4,544**	**3,855**	**3,097**				
	Balance (A - B)	**675**	**469**	**501**	**813**	**1,423**	**1,998**				
	Sales Average Price (R$/MWh) **(Net)**[2,3]:	188.9	188.9	188.0							
	Purchases Average Price (R$/MWh) **(Net)**[4]:	180.2	173.1	176.4							

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

[2] Sales price, including trading operations, net of ICMS and taxes over revenue (PIS/Cofins, R&D), i.e. future inflation is not being considered.
[3] Disregarding sales for quotas regime (Jaguara and Miranda HPPs).
[4] 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.


EXPANSION

EXPANSION:

JIRAU HPP | UPDATE



CAPEX: approximately R$ 20 billion

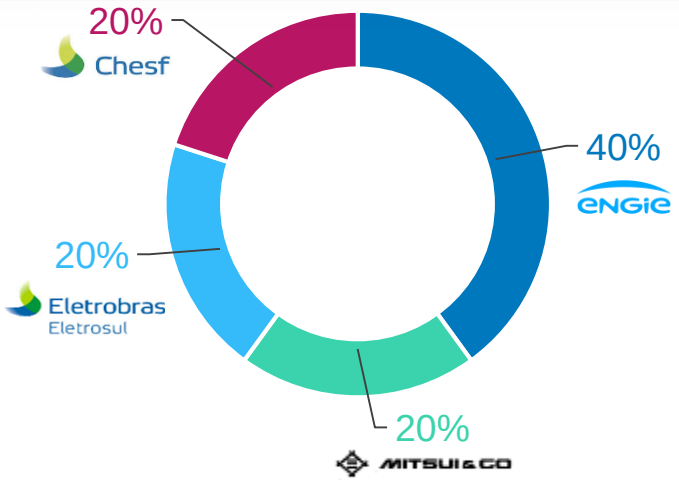
Financing conditions:

- R$ 9.5 bilhões (initial R$ 7.2 billion + R$ 2.3 billion) with amortization in 20 years: 100% financed by BNDES
- interested rate: TJLP + spread from 2.25% to 2.65%

Majeure lawsuit - recognition of 535 days in First Instance. Analysis processing in the Second Instance.

The transfer of the stake of ENGIE Brasil Part. in Jirau HPP to EBE has put on hold, awaiting more favorable conditions for the discussions to resume.

Energia Sustentável do Brasil (ESBR) Shareholding Structure



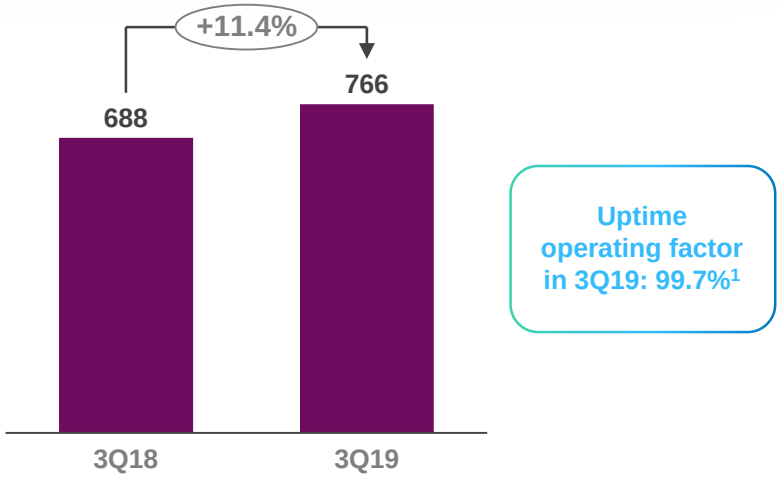
EXPANSION:

JIRAU HPP | UPDATE

Options to create additional value

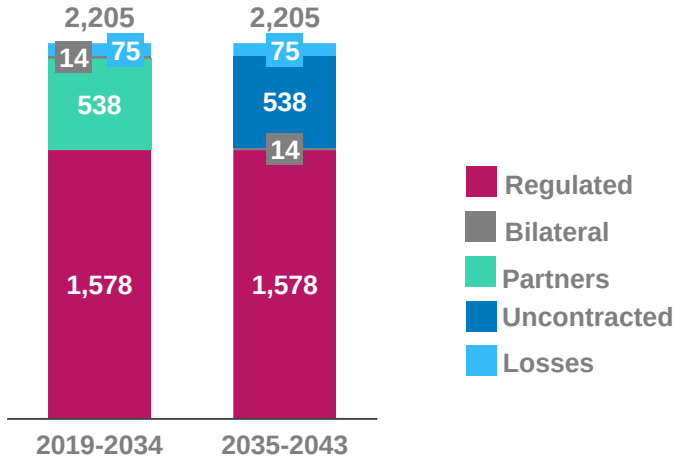
- Constant reservoir level
- Recalculation of transmission tariff
- Sale of carbon credits
- Additional long-term tax breaks
- Recalculation of GFOM/Renegotiation of GSF
- Rebalancing of the agreement

Production (MW average)[1]



Uptime operating factor in 3Q19: 99.7%[1]

ESBR PPA's portfolio (MW average)



Note:
[1] Subject to final CCEE booking.

WIND PROJECT UNDER CONSTRUCTION:

CAMPO LARGO WIND COMPLEX (PHASE II)

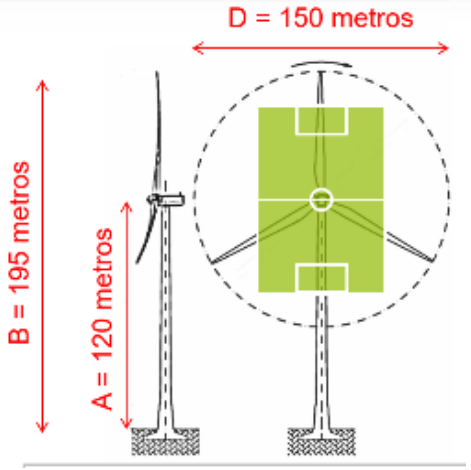
Sales contracted in the free market have made the installation of the project a viable proposition

The development will capture synergies with the Company's other wind power complexes in the region.

In 3Q19, work began on new accesses to areas where wind generators are to be installed as well as on brush clearance for the interconnection networks and civil engineering work for expanding the collector substation.

Campo Largo Wind Complex (Phase II)







CE Campo Largo
Sento Sé and Umburanas (BA) (Phase II)

Total Installed Capacity:
361.2 MW

Commercial Capacity:
202.6 aMW

Investment (R$mm)[1]: ~R$ 1,600

Start of construction: 2019	Start of operation: 2021

Nº of wind turbines: 86 (~ 4.2 MW each)

Note:
[1] Value as of January 2019.

TRANSMISSION LINE UNDER CONSTRUCTION:

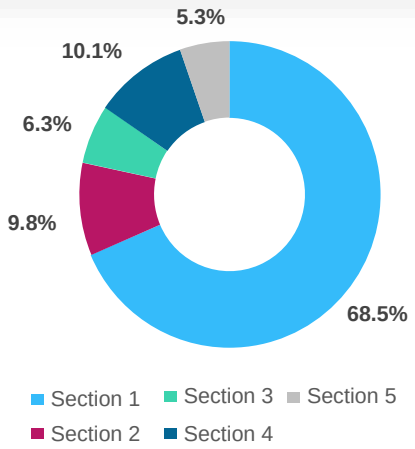
GRALHA AZUL TRANSMISSION SYSTEM

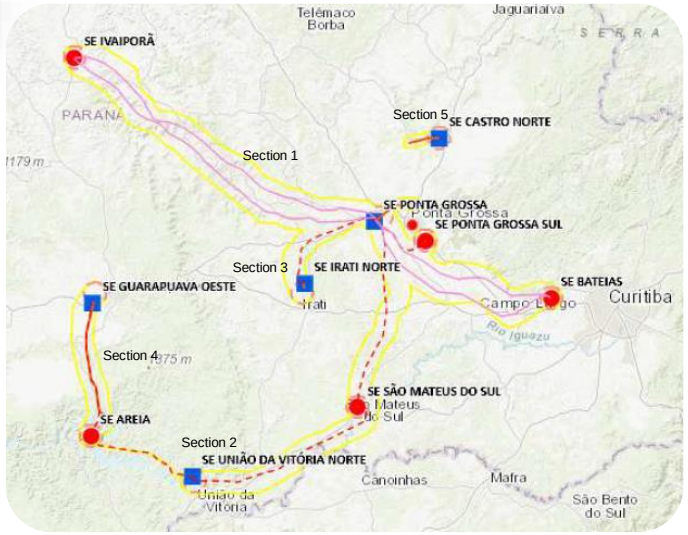
Investment below Aneel projections and expected anticipation of COD

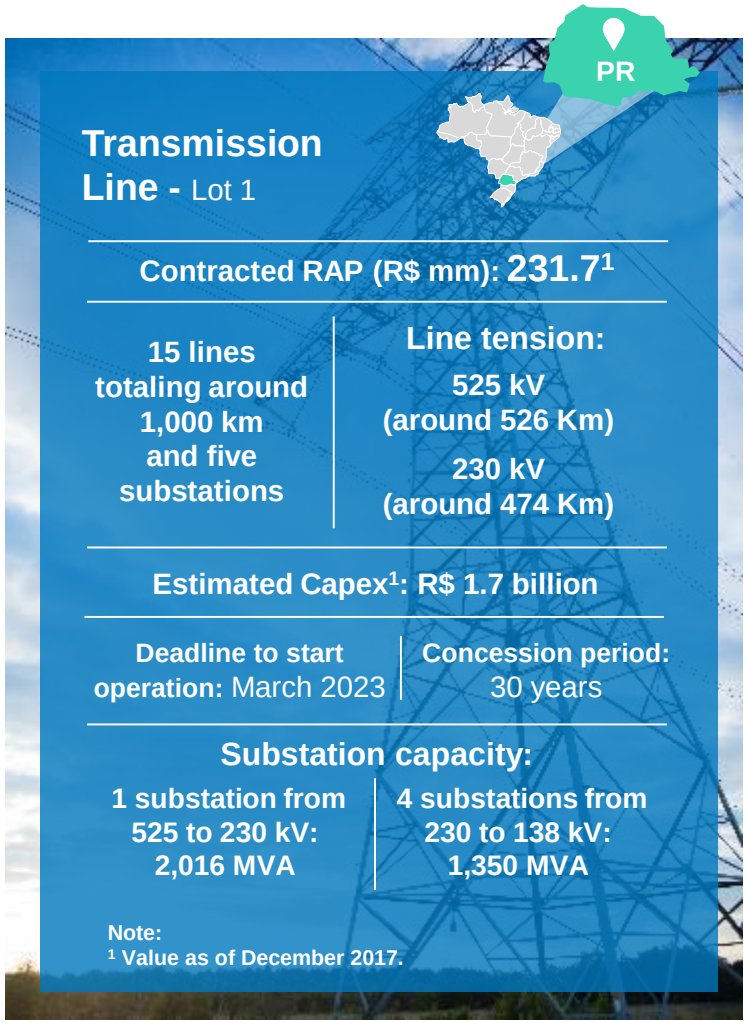
- Access to finance at competitive rates
- Location offers synergies with Salto Santiago and Salto Osório HPPs

In 3Q19, construction activities began with the mobilization of work teams and a start on earth movement in preparation for the Ponta Grossa Substation.

RAP by section (%)

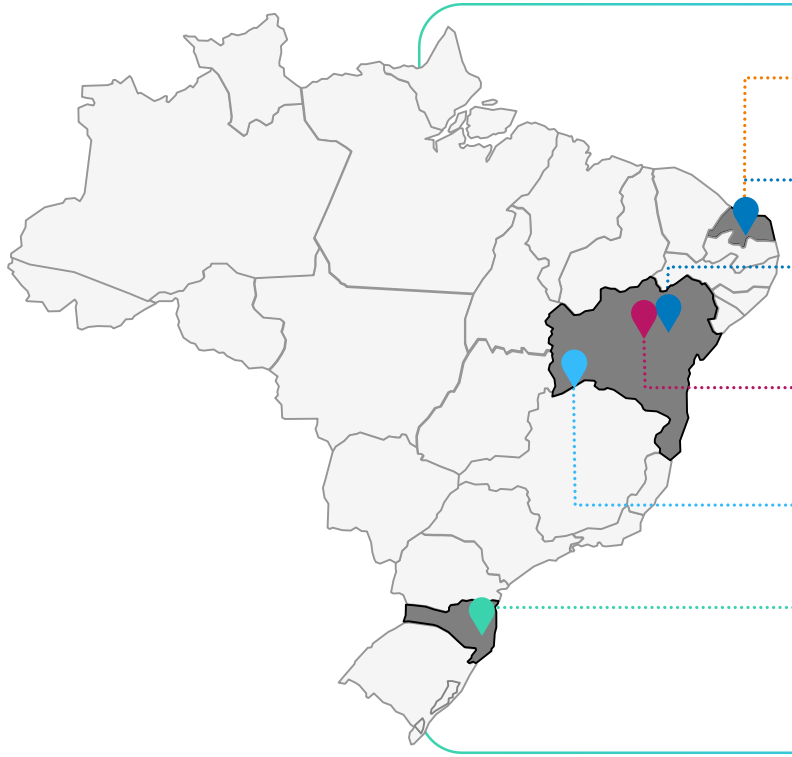






PROJECTS UNDER DEVELOPMENT

ENGIE Brasil Energia has also a portfolio of assets under development. Some of them are presented below.



Assú I, II, III and IV Photovoltaic Centrals - RN
Installed Capacity: 120 MW

Sto. Agostinho WC - RN
Installed Capacity: 800 MW

Umburanas WC – BA (Phase II)
Installed Capacity: 300 MW

Campo Largo WC – BA (Phase III)
Installed Capacity: 250 MW

Alvorada Photovoltaic Complex - BA
Installed Capacity: 90 MW

Norte Catarinense TPP - SC
Installed Capacity: 600 MW
Fuel: natural gas

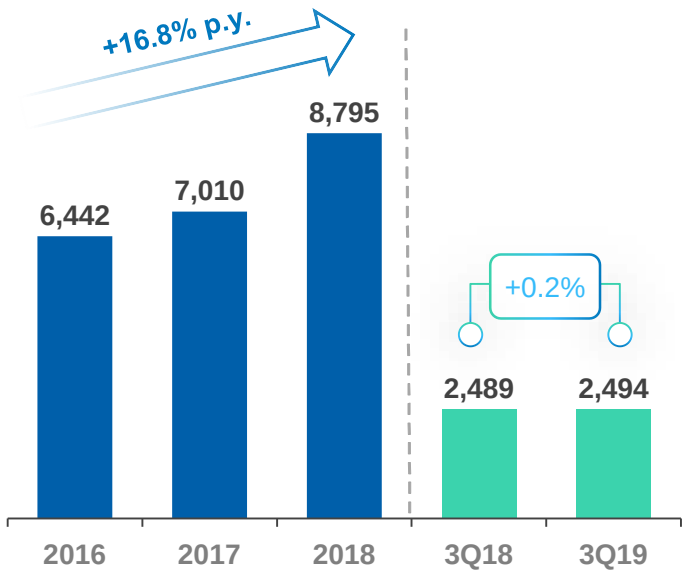


FINANCIAL PERFORMANCE

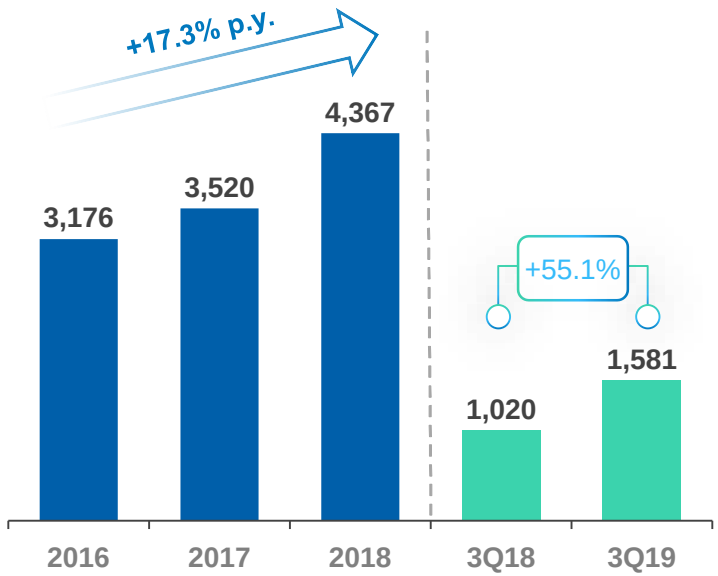
SOLID FINANCIAL PERFORMANCE

Efficiency in the management of the portfolio and the focus on contracting strategies has enabled the Company to report stability in the annual levels of revenue generation, Ebitda and net income despite recent instability that affected the electricity sector and the Brazilian economy as a whole.

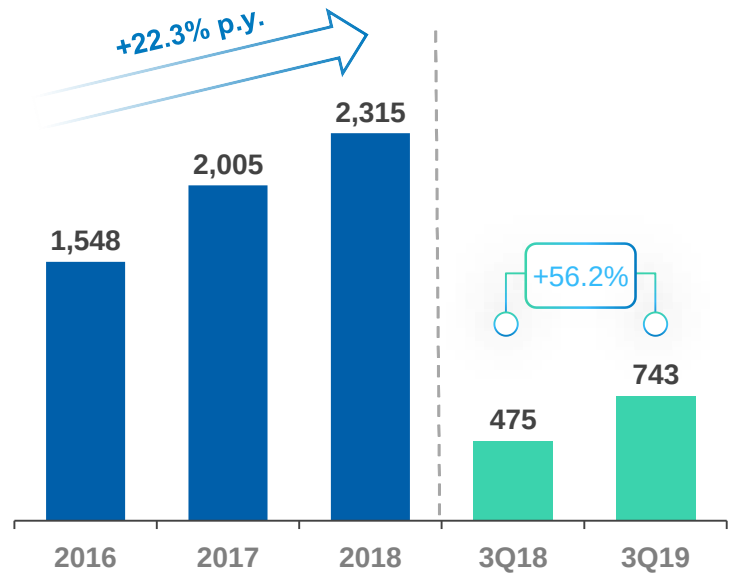
Net Operating Revenue
(R$ million)



Ebitda
(R$ million)

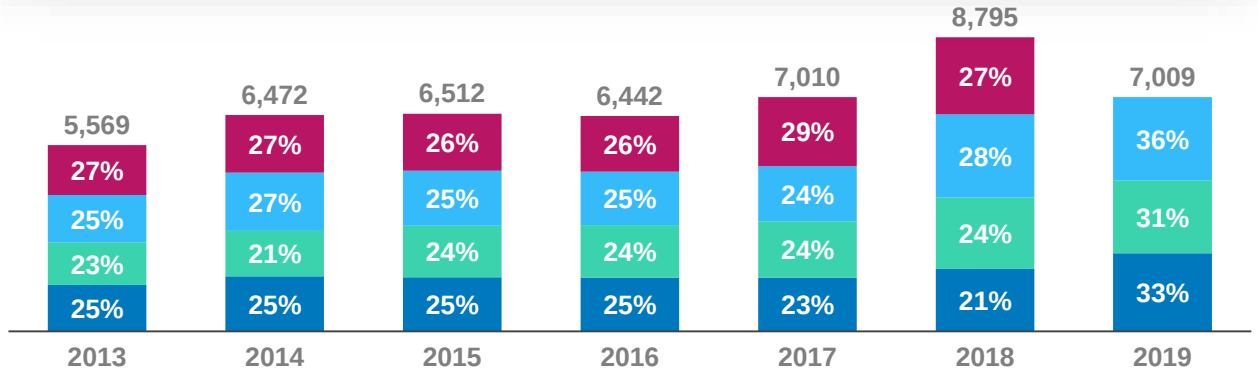


Net Income
(R$ million)



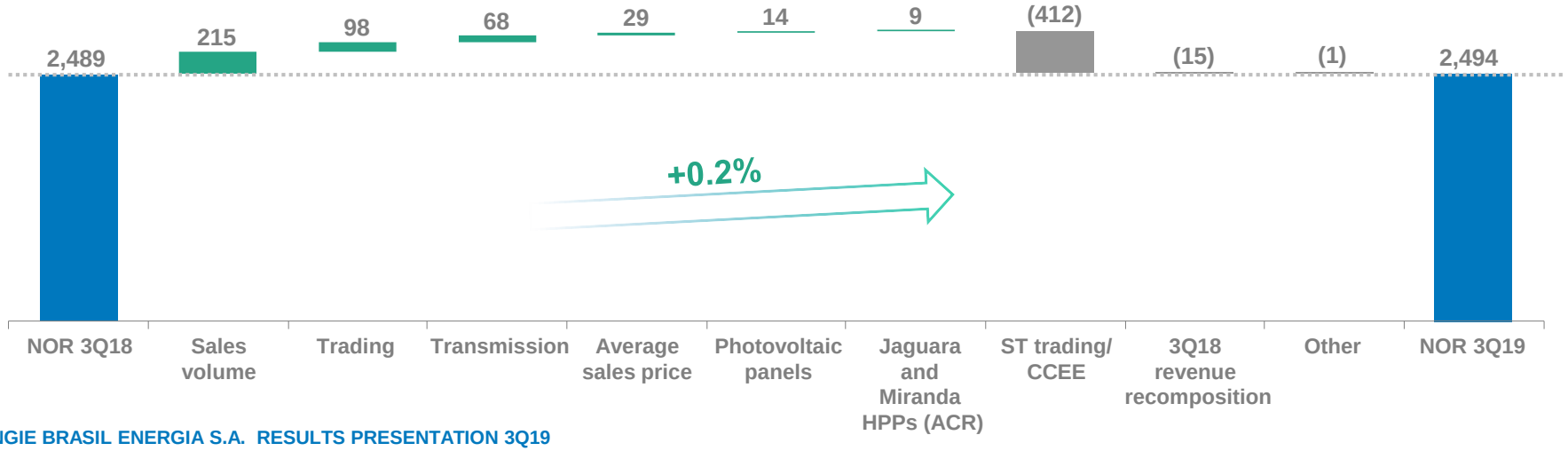
NET OPERATING REVENUE CHANGE

Net operating revenue change (R$ million)



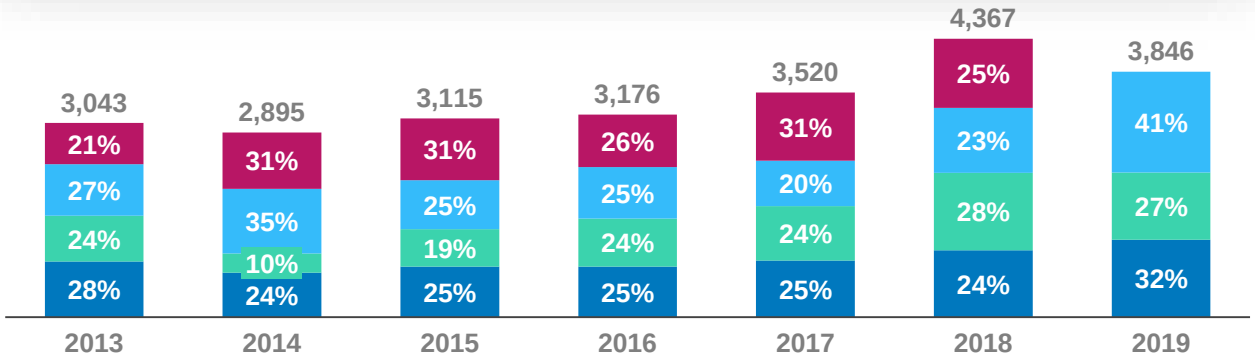
4th Quarter
3rd Quarter
2nd Quarter
1st Quarter

% of the net operating revenue



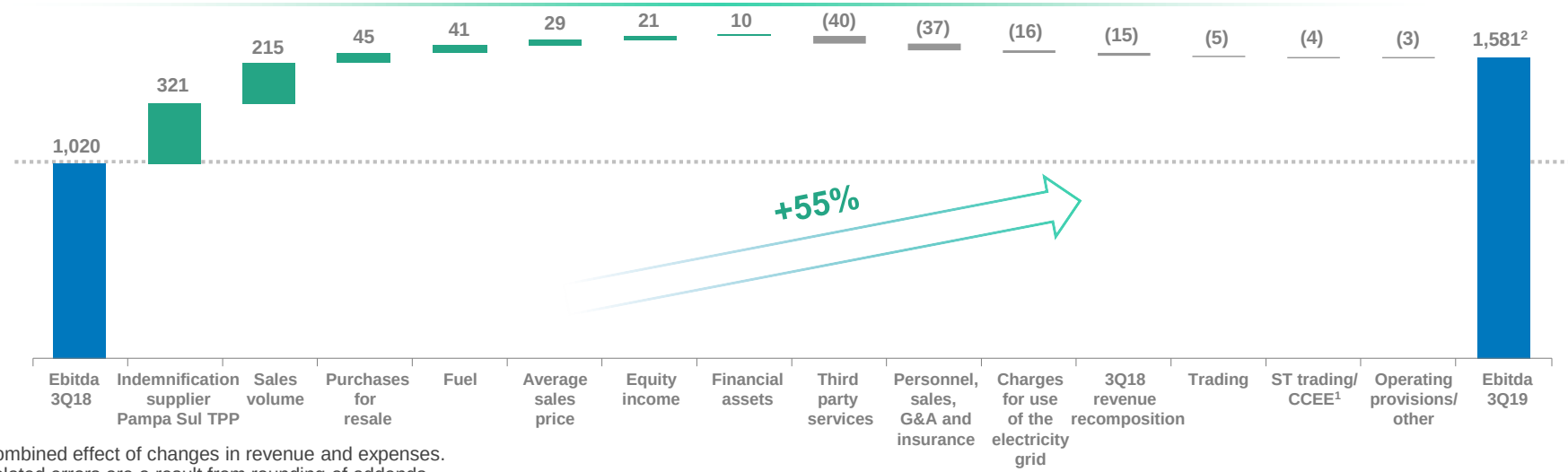
EBITDA CHANGE

Ebitda change (R$ million)



- 4th Quarter
- 3rd Quarter
- 2nd Quarter
- 1st Quarter

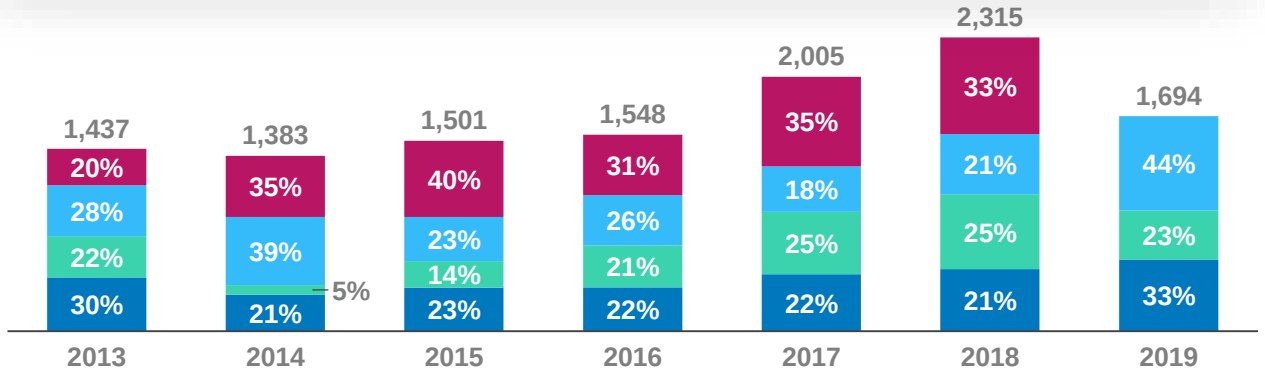
% of the accumulated annual Ebitda

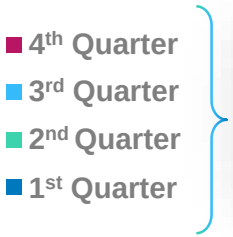


Notes:
[1] Considers the combined effect of changes in revenue and expenses.
[2] Apparent sum-related errors are a result from rounding of addends.

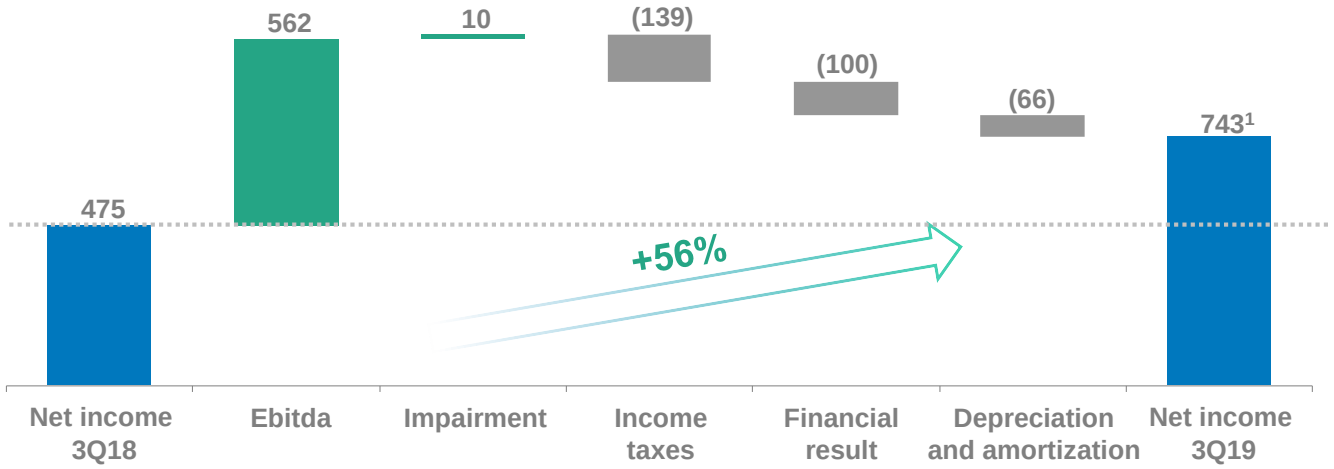
NET INCOME CHANGE

Net income change (R$ million)





% of the accumulated annual net income

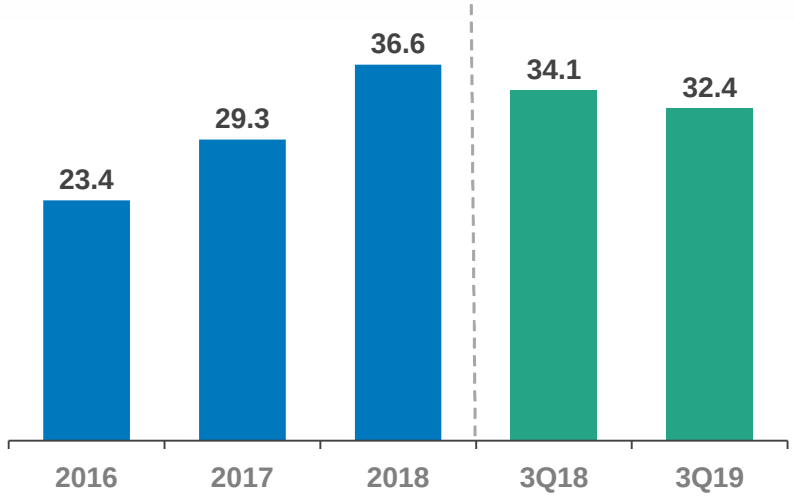


Note:
[1] Apparent sum-related errors are a result from rounding of addends.

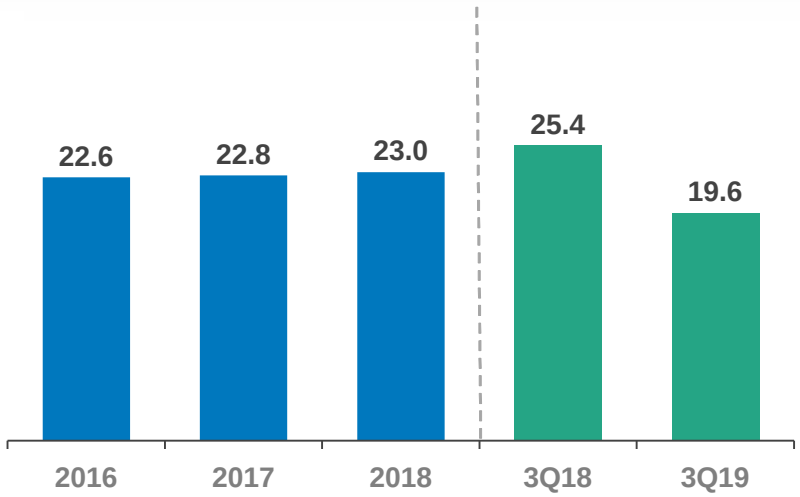
CONSISTENT FINANCIAL INDICATORS

Creation of shareholder value: high levels of ROE and ROIC.

ROE[1] - Return on Equity (%)



ROIC[2] - Return Over Invested Capital (%)



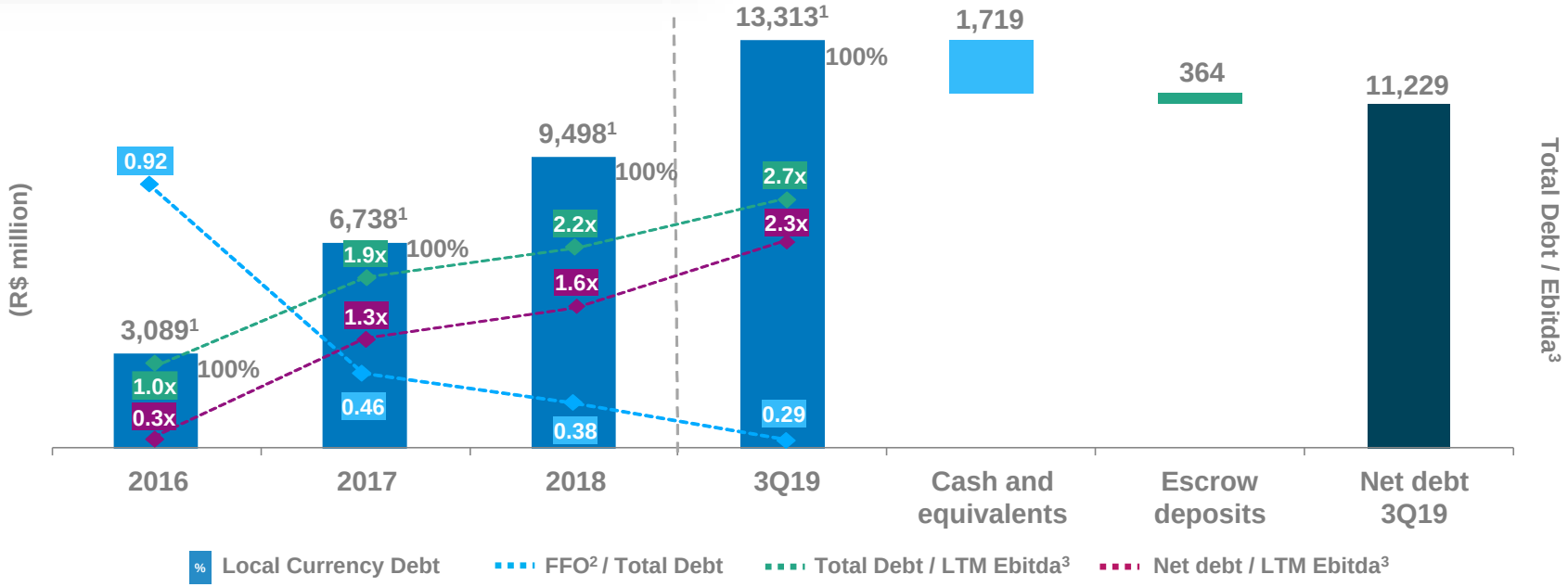
Source: ENGIE Brasil Energia internal study based on the Company's Financial Statements.
Notes:
[1] ROE: net income for the past 4 quarters / shareholders' equity.
[2] ROIC: effective tax rate x EBIT / invested capital (invested capital: debt – cash and cash equivalents – deposits earmarked for debt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

BALANCED DEBT

WITH NO CURRENCY EXPOSURE

Adjustment in leverage, with competitive cost, facilitates growth opportunities.

Debt Overview (R$ million)

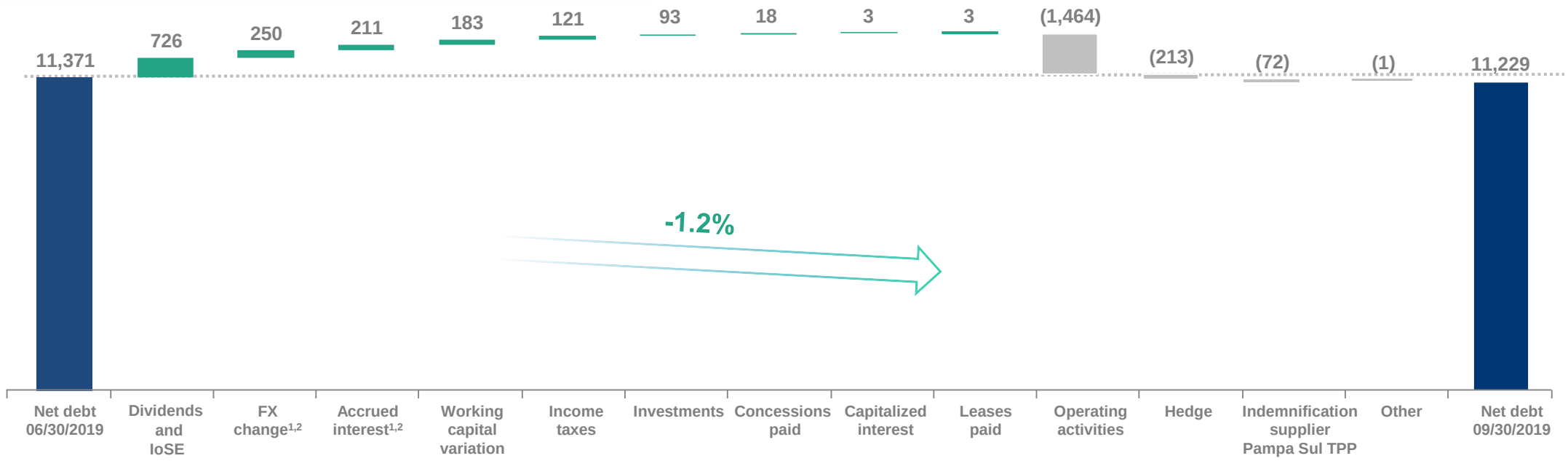


Notes:

[1] Debt net of hedge operations.
[2] Funds from Operations.
[3] Ebitda in the past 12 months.

NET DEBT CHANGE

Net debt change (R$ million)



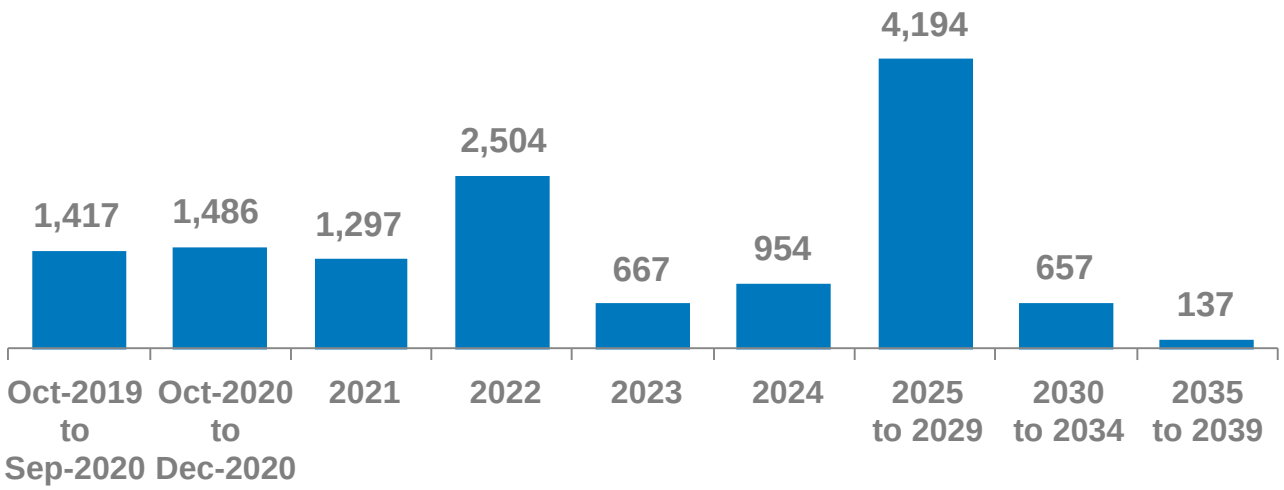
Notes:
[1] Does not impact the Company's cash position.
[2] The interests and FX change refer only to the Company's financial debt (loans, financing and debentures).

DEBT PROFILE AND COMPOSITION

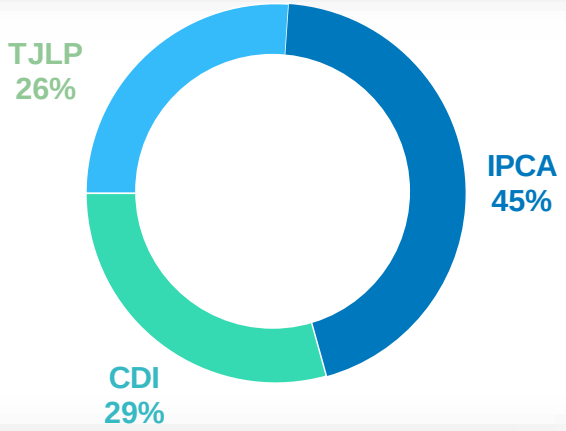
LOW COSTS AND DEFENSIVE INDEXES

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

Maturity debt schedule (R$ million)



Breakdown of debt



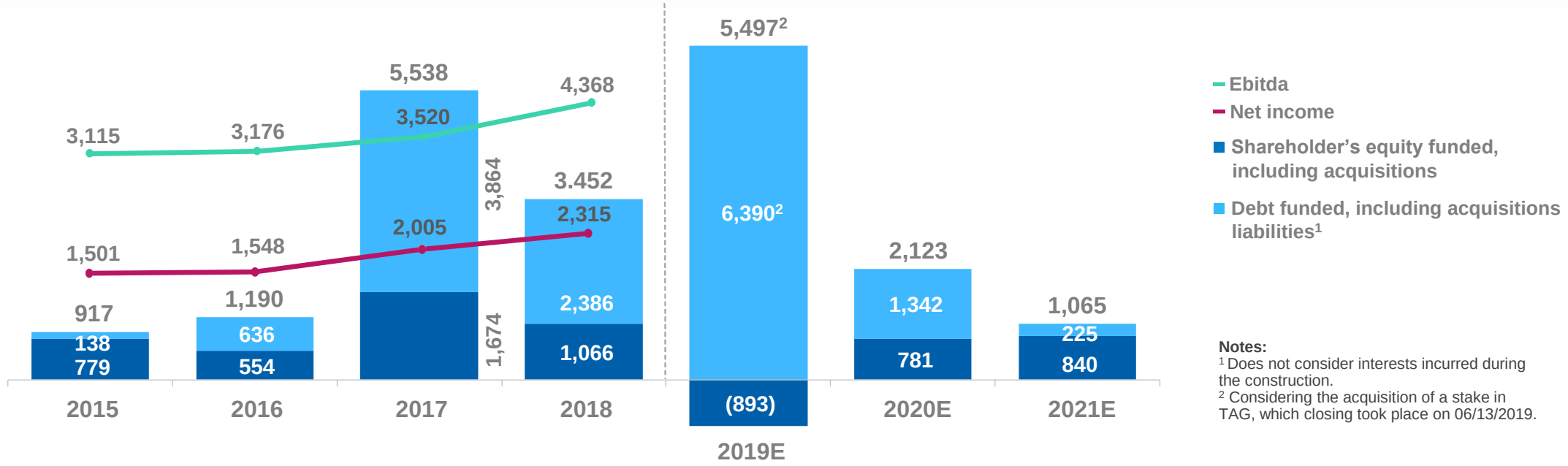
Nominal cost of debt: 7.6% (8.6% in 3Q18)

New expansion cycle represented an opportunity to optimize EBE's capital structure.

CAPEX

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

Accomplished/expected CAPEX and corresponding financing sources (R$ million)

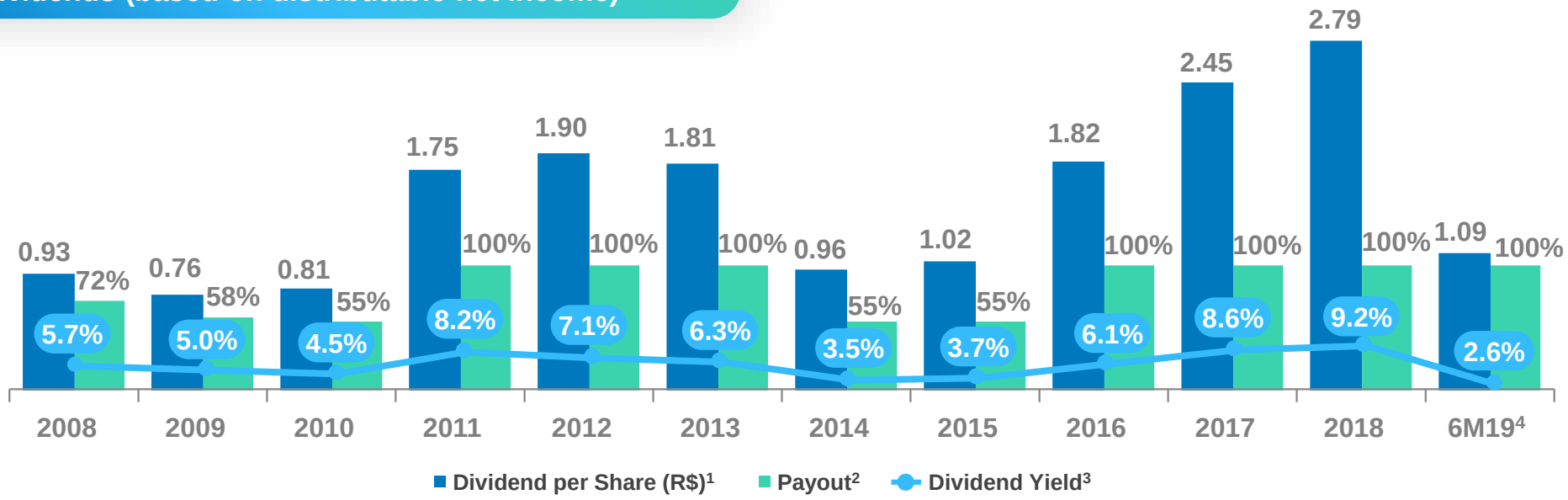


Notes:
[1] Does not consider interests incurred during the construction.
[2] Considering the acquisition of a stake in TAG, which closing took place on 06/13/2019.

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)



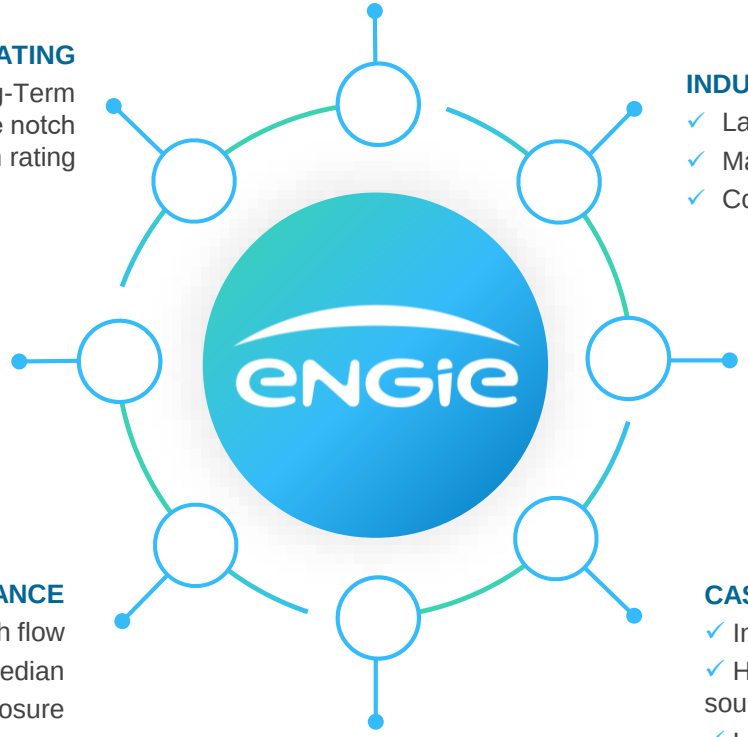
Notes:
[1] For the purposes of comparability between fiscal years, an adjustment in dividend per share was made in the light of the share bonus approved on December 07, 2018.
[2] Considers the annual payable net income.
[3] Based on volume-weighted closing price of ON shares in the period.
[4] Excluding the interests on shareholders' equity for 2019, in the amount of R$ 354.0 million (R$ 0.4338 per share), to be credit in the 4Q19.

COMPETITIVE ADVANTAGES

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

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

INDUSTRY LEADERSHIP
- ✓ Largest independent power producer group in Brazil
- ✓ Market cap: R$ 36.2 billion in 9/30/2019
- ✓ Controlled by ENGIE S.A., world leader in energy



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)

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

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

CASH FLOW PREDICTABILITY
- ✓ Inflation-indexed contracts
- ✓ Hydro based, with diversification on complementary sources and active portfolio management
- ✓ Long-term contracting strategy

HIGH OPERATIONAL PERFORMANCE
- ✓ Benchmark indexes of availability
- ✓ ISO 9001, 14001 and OHSAS 18001 certified plants
- ✓ Use of advanced technology for remote operations and predictive maintenance

SUPPORTING DATA



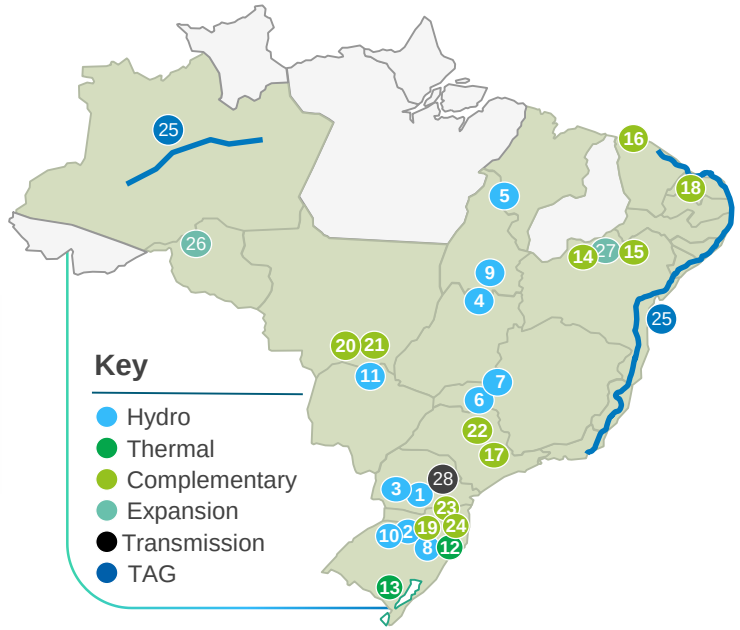
DIVERSIFIED PORTFOLIO OF ASSETS

	Hydro Power Plants	Installed Capacity (MW)	Commercial Capacity (aMW)[7]
1	Salto Santiago	1,420.0	733.3
2	Itá	1,126.9[1]	564.7[1]
3	Salto Osório	1,078.0	502.6
4	Cana Brava	450.0	260.8
5	Estreito	435.6[1]	256.9[1]
6	Jaguara	424.0	341.0
7	Miranda	408.0	198.2
8	Machadinho	403.9[1]	165.3[1]
9	São Salvador	243.2	148.2
10	Passo Fundo	226.0	113.1
11	Ponte de Pedra	176.1	133.6
	Total	6,391.7	3,417.7

	Thermal Power Plants	Installed Capacity (MW)	Commercial Capacity (aMW)
12	Jorge Lacerda Complex[2]	857.0	649.9
13	Pampa Sul	345.0	323.5
	Total	1,202.0	973.4

	Complementary P. Plants	Installed Capacity (MW)	Commercial Capacity (aMW)
14	Umburanas Complex (Wind)[3]	360.0	213.3
15	Campo Largo I Complex (Wind)[4]	326.7	169.6
16	Trairi Complex (Wind)[5]	212.6	102.3
17	Ferrari (Biomass)	80.5	35.6
18	Assú V (Solar)	30.0	9.2
19	Lages (Biomass)	28.0	14.6
20	Rondonópolis (SHP)	26.6	14.0
21	José G. da Rocha (SHP)	24.4	11.9
22	Ibitiúva (Biomass)	22.9[1]	13.9[1]
23	Nova Aurora (Solar)	3.0	n/a
24	Tubarão (Wind)	2.1	n/a
	Total	1,116.8	584.4

Installed capacity of **8,710.5 MW (4,975.5 aMW),** **4,500 Km** of operating pipelines and **~1,000 Km** of transmission lines under construction.



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

Expansion

	Generation	Installed Capacity (MW)	Commercial Capacity (aMW)
26	Jirau (Hydro)[6]	1,500.0	883.2
27	Campo Largo II Complex (Wind)	361.2	202.6
	Total	1,861.2	1,085.8

	Transmission	Size	Substations
28	Lot 1	~ 1,000 Km	5

Notes:
[1] Portion owned by ENGIE Brasil Energia.
[2] Complex comprised by three power plants.
[3] Complex comprised by 18 wind farms.
[4] Complex comprised by 11 wind farms.
[5] Complex comprised by eight wind farms.
[6] The transfer of the 40% stake of ENGIE Brasil Part. in Jirau HPP to EBE should be examined timely.
[7] Considers the physical guarantee revision in effect from January 1, 2018, pursuant to MME Ordinance 178/2017.

RENEGOTIATION OF THE HYDROLOGICAL RISK

On December 31, 2015, Aneel approved the renegotiation of ENGIE Brasil Energia's hydrological risk as shown in the following table:

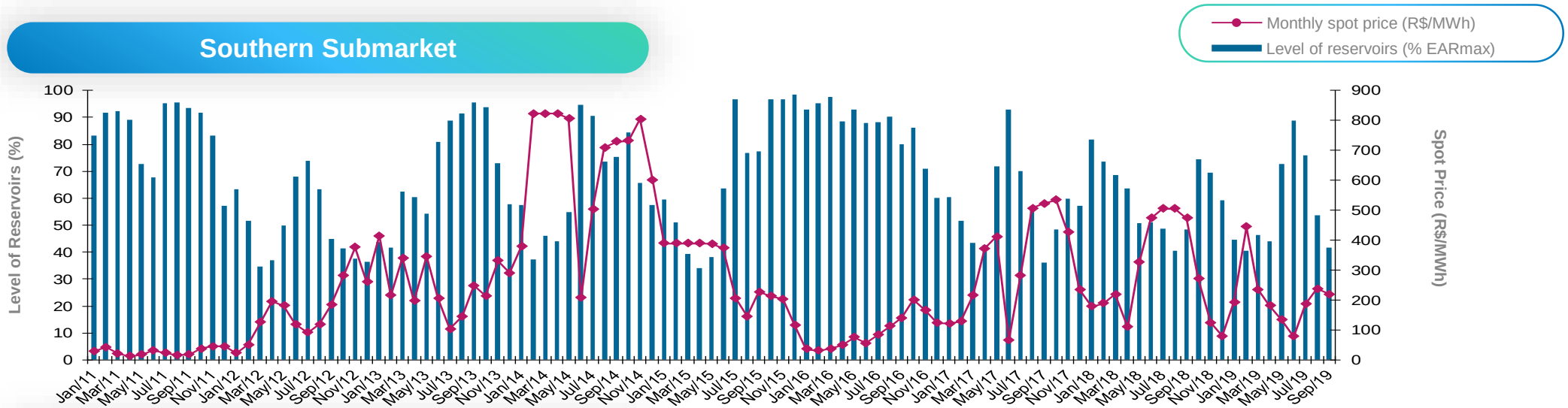
Plant	Product	Amount Renegotiated (aMW)	Amount Renegotiated (MWh)	Net unit reimbursement (R$)	Total reimbursement (R$ million)	Term* (years)
Cana Brava HPP	SP92	261.66	2,292,177	18.26	41.9	13.25
Itá HPP	SP92	336.00	2,943,360	18.26	53.7	13.25
Machadinho HPP	SP92	84.04	736,190	18.26	13.4	13.25
Ponte de Pedra HPP	SP95	123.55	1,082,315	23.80	25.8	7.17
Salto Santiago HPP	P97	150.00	1,314,000	24.36	32.0	2.92
São Salvador HPP	SP91	142.13	1,245,048	16.52	20.6	17.25
Estreito HPP	SP91	247.13	2,164,859	16.52	35.8	17.25
TOTAL		**1,344.51**	**11,777,950**		**223.1**	

* Extension term as from January 1, 2016 for payment of the premium for reimbursement to 2015 results.

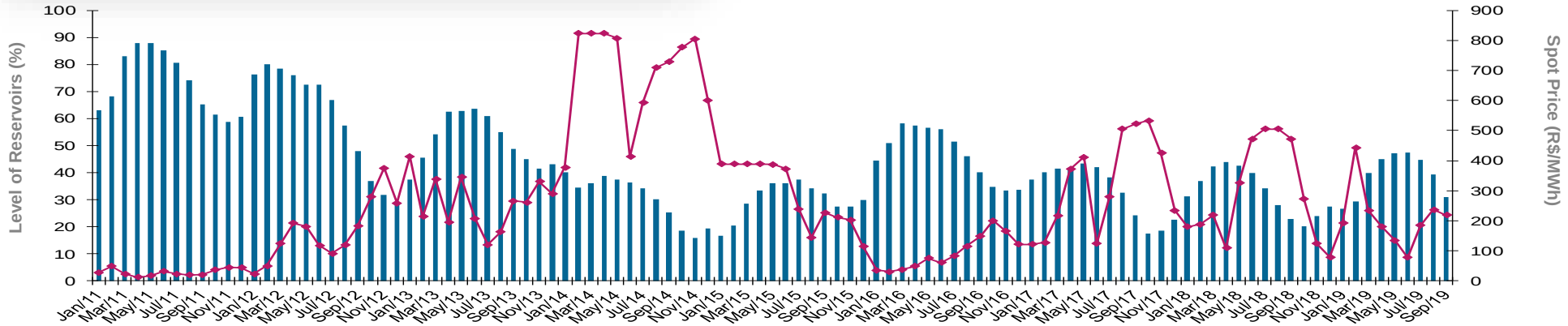
Signing up to the renegotiation is limited to agreements negotiated within the scope of the Regulated Contracting Environment (ACR), with effects as from January 01, 2015.

CORRELATION BETWEEN RESERVOIR LEVELS AND SPOT PRICES

Southern Submarket

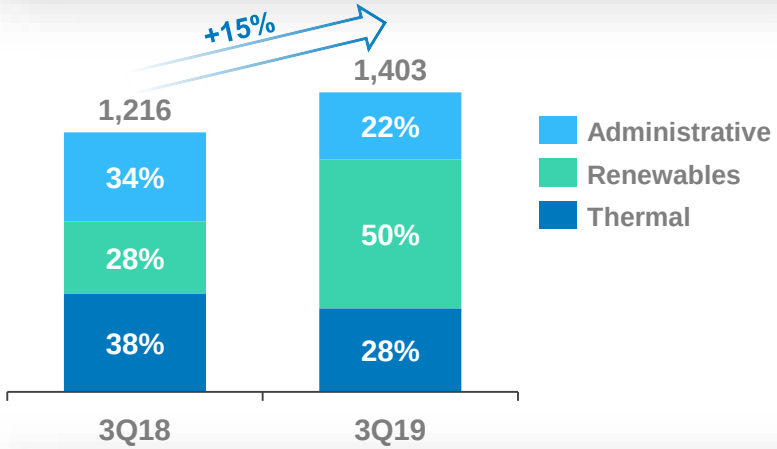


Southeast/Central-Western Submarket

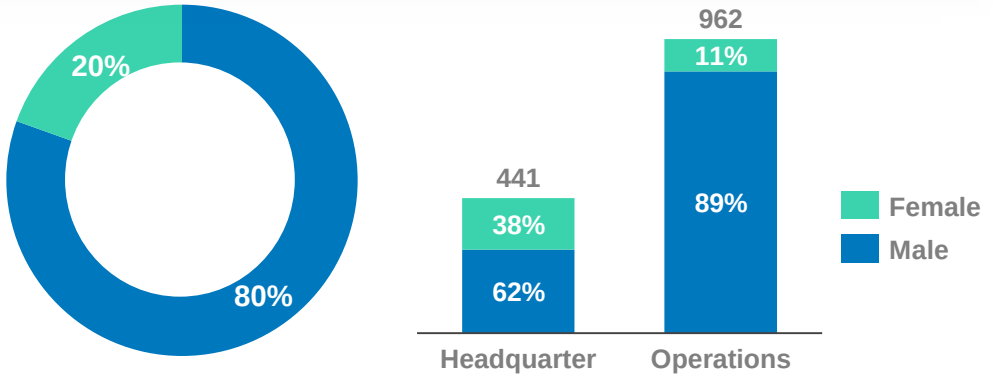


HEADCOUNT[1]

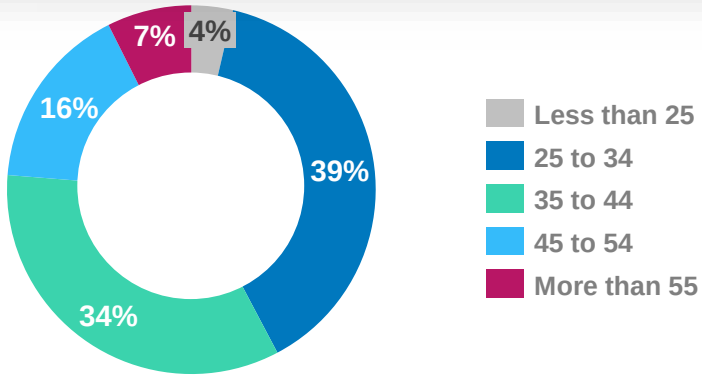
Number of employees



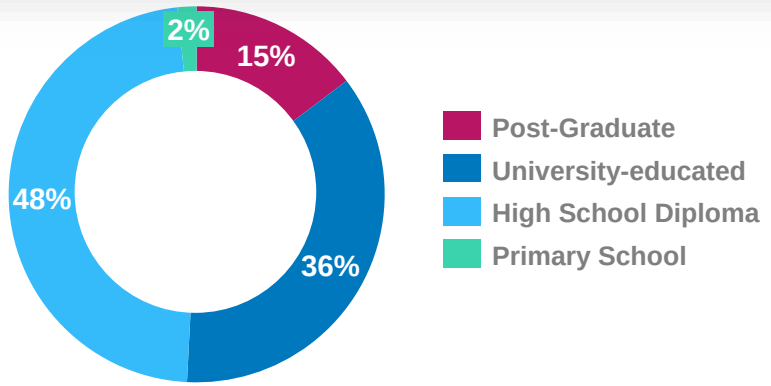
By gender



By age group



By academic qualifications



Note:
[1] Does not consider employees posted to projects under construction and, as from 4Q18, considers ENGIE Geração Solar Distribuída total payroll.

SUSTAINABILITY KPIs[1]

Item	Dimension[2]	Index[3]	Material themes	GRI disclosure[4]	3Q19	3Q18	Change	9M19	9M18	Change
1	Quality	Operating plants	- Energy Transition for a low carbon economy	102-7, EU1	60	35	25	60	35	25
2		Installed capacity		102-7, EU1	10,430	9,547	9.2%	10,430	9,547	9.2%
3		Proprietary capacity		102-7, EU1	8,710	7,826	11.3%	8,710	7,826	11.3%
4		Number of certified plants		102-16, EU6	12	12	0	12	12	0
5		Certified installed capacity (MW)		102-16, EU6	8,127	8,127	0.0%	8,127	8,127	0.0%
6		Certified installed capacity in relation to the total		102-16, EU6	77.9%	85.1%	-7.2 p.p.	77.9%	85.1%	-7.2 p.p.
7		Installed capacity from renewable sources		102-7, EU1	9,228	8,690	6.2%	9,228	8,690	6.2%
8		Installed capacity from renewable sources in relation to the total		102-7, EU1	88.5%	91.0%	-2.5 p.p.	88.5%	91.0%	-2.5 p.p.
9		Energy generation (GWh)		EU2	11,503	9,762	17.8%	32,611	27,253	19.7%
10		Certified energy generation		102-16, EU6	8,692	8,421	3.2%	26,338	24,111	9.2%
11		Certified energy generation in relation to the total		102-16, EU6	75.6%	86.3%	-10.7 p.p.	80.8%	88.5%	-7.7 p.p.
12		Energy generation from renewable sources (GWh)		EU2	9,730	8,340	16.7%	29,073	23,973	21.3%
13		Energy generation from renewable sources in relation to the total		EU2	84.6%	85.4%	-0.8 p.p.	89.2%	88.0%	1.2 p.p.
14		Uptime ratio, excluding scheduled stoppages		EU30	97.0%	96.7%	0.3 p.p.	97.1%	97.3%	-0.1 p.p.
15		Uptime ratio, including scheduled stoppages		EU30	86.9%	88.8%	-1.9 p.p.	89.8%	91.2%	-1.5 p.p.
16	Environment and climate change	Saplings donated and planted (sum-total of planted and donated saplings)	- Energy Transition for a low carbon economy - Engajament with local comunities and stakeholders - Environment management	304-2, 413-1	96,152	96,142	0.0%	296,799	316,029	-6.1%
17		Number of visitors at the plants		413-1	26,921	30,370	-11.4%	65,210	77,863	-16.3%
18		CO2 Emissions (fossil fuel plants) (t/MWh)[5]		D305-1, D305-2, D305-3	0.694	0.928	-25.2%	0.787	0.941	-16.4%
19		CO2 Emissions from Tractebel Energia's generation complex(t/MWh)[5]		D305-1, D305-2, D305-3	0.107	0.135	-20.9%	0.088	0.114	-22.4%
20	Occupational Heath and Safety (OH&S)	Frequency Rate ("Taxa de Frequência" - TF) own employees[6]	- Development, equality and health and safety - Management of impacts in the productive chain	403-2	0.000	0.000	-	0.000	0.000	-
21		Severity Rate ("Taxa de Gravidade" - TG) own employees[7]		403-2	0.000	0.000	-	0.000	0.000	-
22		Frequency Rate ("Taxa de Frequência" - TF) own employees + long term service providers[6]		403-2	3.290	1.830	↑	1.730	0.930	↑
23		Frequency Rate ("Taxa de Frequência" - TF) short term service providers + ongoing constructions[6]		403-2	0.000	0.890	↓	0.810	1.950	↓
24	Social Responsibility[7]	Non-incentivized investments	- Engajament with local comunities and stakeholderss	203-2, 413-1	822.7	1,161.1	-29.1%	2,514.4	2,236.7	12.4%
25		Investments through the Infancy and Adolescence Fund (FIA)		203-2, 413-1	495.0	374.5	32.2%	2,101.4	1,213.7	73.1%
26		Investments through the Culture Incentive Law (Rouanet)		203-2, 413-1	4.5	882.0	-99.5%	5,792.4	7,677.8	-24.6%
27		Investments through the Sport Incentive Law		203-2, 413-1	0.0	100.0	-100.0%	340.0	660.0	-48.5%
28		Investments through National Program of Support to Oncology Care (Pronon)		203-2, 413-1	0.0	0.0	-	0.0	0.0	-
29		Investments through the National Care Support Program for People with Special Needs (Pronas/PCD)		203-2, 413-1	0.0	0.0	-	0.0	0.0	-
30		Investments through the Municipal Fund for the Elderly		203-2, 413-1	100.0	200.0	-50.0%	683.1	300.0	127.7%

Notes:
[1] Additional indices are available at Sustainability Report (www.engie.com.br/en/investors/financial-information).
[2] Reference: ENGIE Sustainable Management Policy.
[3] Value as of 09/30/2019.
[4] GRI: Global Reporting Initiative, *Standards version* and sector supplement version G4.
[5] TF = number of occupational accidents for every million hours of exposure to hazards.
[6] TG = number of days lost due to occupational accidents for every one thousand hours of exposure to hazards.
[7] Amounts in thousand of reais (R$).

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