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Agenda



- 1 Context
- 2 Distribution
- 3 Transmission

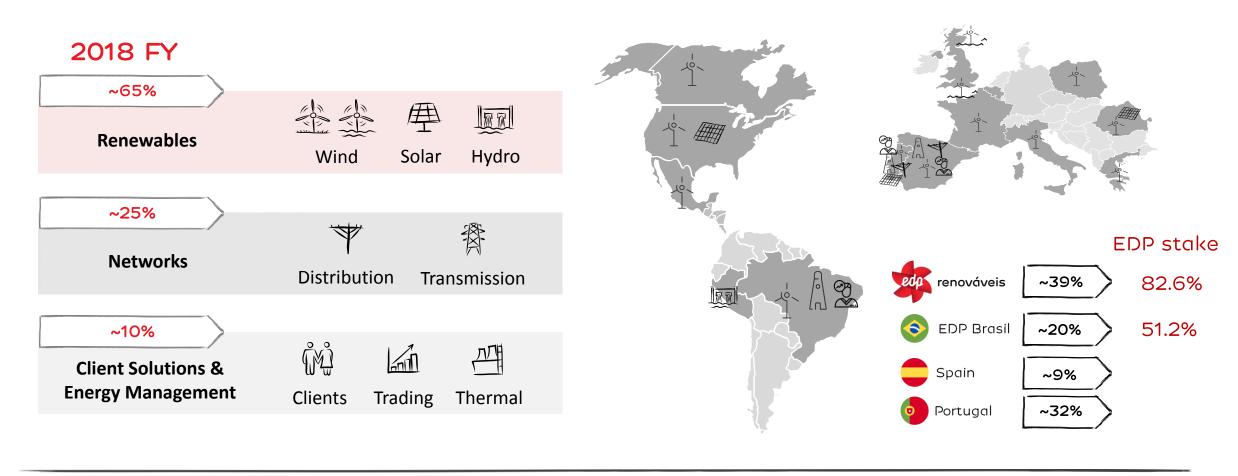
Agenda



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EDP is a leading integrated energy utility, with networks representing 25% of EBITDA





1 All figures reported as of YE2018

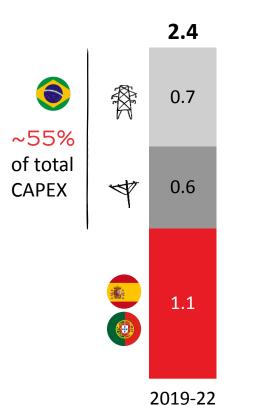
EDP networks: Brazil will be the engine of growth, representing 40% of EBITDA by 2022



+XX Growth, 2019-22

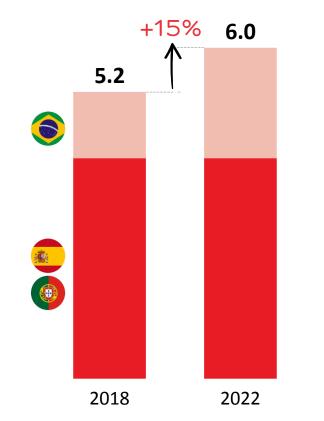


CAPEX, € Bn



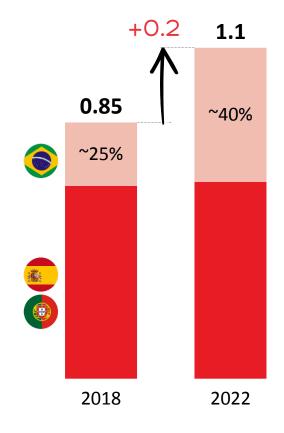
Regulated Asset Base to increase 15%

RAB¹, € Bn



EBITDA to grow driven by investments in Brazil

EBITDA, € Bn²



Note: figures as of Mar-18 (at Strategic Update presentation)

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Distribution Portfolio



EDP Espírito Santo (100%)	Espírito Santo	1.5 Mn clients 9 9.8 TWh	Concession Concession term: July 2025 Revision: every 3 years Net RAB: R\$2,581 million	State qualitative data 11th highest nominal household income per capita in Brazil R\$ 1,295 2018* 7th highest HDI in Brazil 0.740 2010*
	São Paulo	1.8 Mn clients 5 15.2 TWh	Concession Concession term: October 2028 Revision: every 4 years Net RAB: R\$2,423 million	State qualitative data 2 nd largest nominal household income per capita in Brazil R\$ 1,898 2018* 2 nd highest HDI in Brazil 0.783 2010*
EDP São Paulo (100%) CELESC (23.6%)	Santa Catarina	3.0 Mn clients 24.4 TWh	Concession Concession term: July 2045 Revision: every 5 years Net RAB: R\$3,007 million	State qualitative data 5 th largest nominal household income per capita in Brazil R\$ 1,660 2018* 3 rd highest HDI in Brazil 0.774 2010*

* All data from IBGE website

Regulatory model of distribution



Economic Revenue of distribution activities

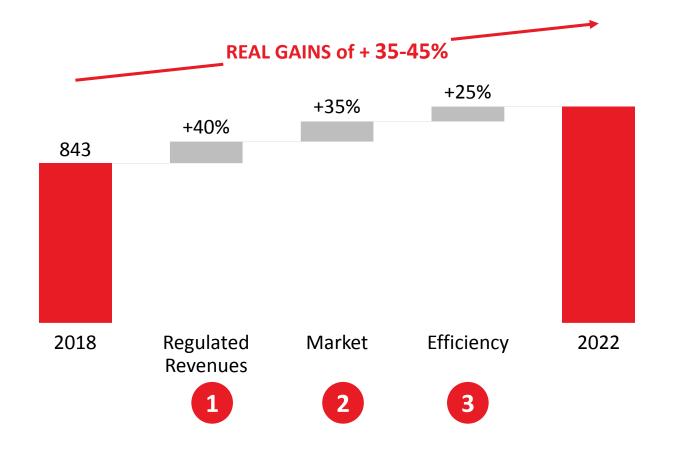
	Energy acquisition	NA/:the limits of under and acceptanting as well as no nelties		
Component A "Pass-through"	Transmission	With limits of under and overcontracting, as well as penalties		
	Sector levies	Pass-through of regulated levies		
+				
	RAB remuneration	Regulatory WACC x RAB		
Component B "Regulated revenues"	Reintegration	Annual depreciation rate x RAB		
	Operational costs	Benchmark among distribution companies, using econometric models		

Strong EBITDA growth in distribution, supported by efficient investments and operational drivers



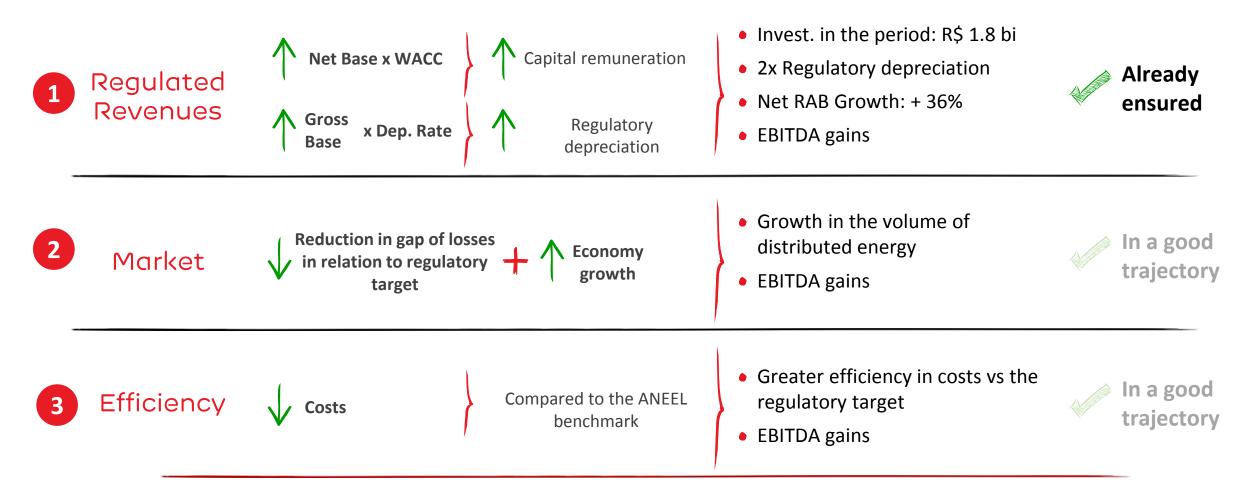


R\$ Mn



Value added in the tariff cycle: Improvement in all levers of value creation



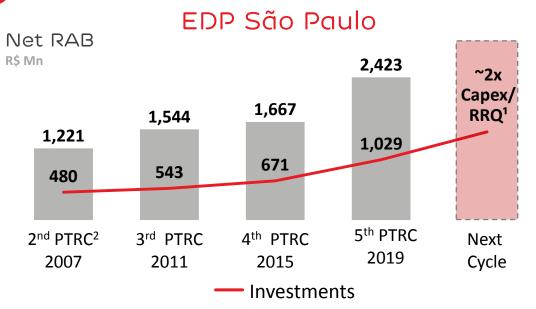


30.7% growth in Regulated EBITDA (2015-2019)

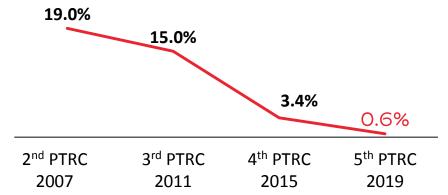
RAB growth supported by recognition of value-added investment

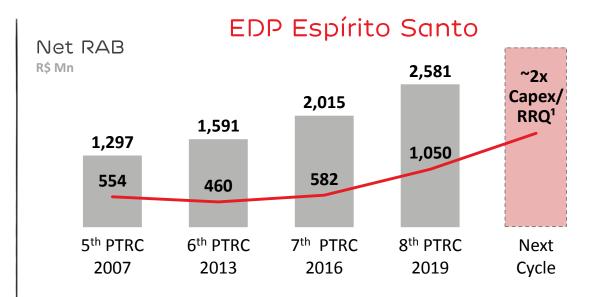


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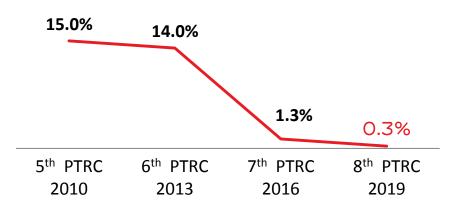


Regulatory haircut over investments





Regulatory haircut over investments



EBITDA in 9M19 grew 10% excluding VNR, due to market expansion and OPEX savings



1

EBITDA of EDP distribution activities in Brazil in 9M19



VNR

- EDP SP and EDP ES have a credit to be received at the end of the concession related to investment in fixed assets that were not recovered
- These financial assets are valued based on Asset Replacement Value (VNR), which is revised every 3/4 years based on RAB
 - In this quarter, we had the revision for both of our concessions
- In this method, each asset is valued at current prices, for all needed expenses to replace it for a similar one

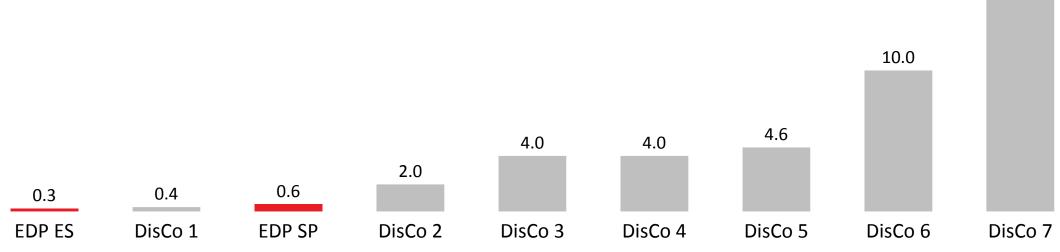
High efficiency regarding regulatory acceptance of investments



15.0

1





Main initiatives

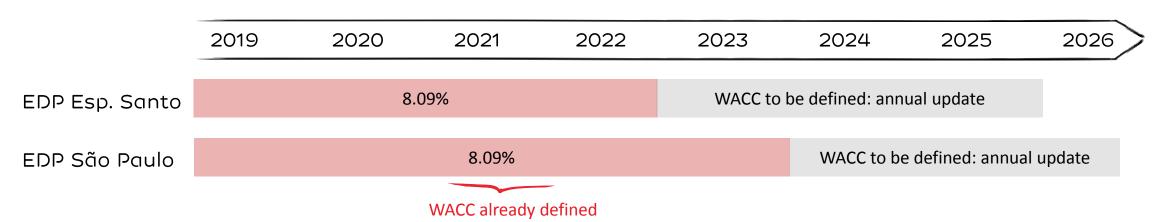
- Careful evaluation of investments concluded
- Consistency of technical, regulatory and accounting basis
- Previous inspection of Fixed Assets in Service
- Training of business teams
- Harnessing of electrical assets

Visibility on WACC up to 2022/23



1

Regulatory WACC

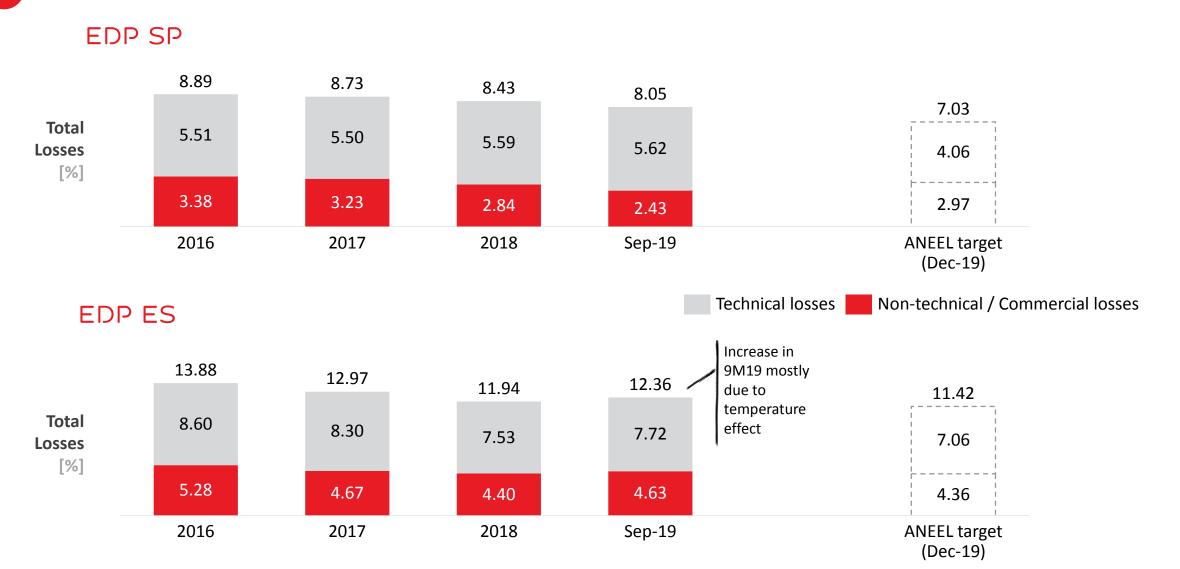


WACC revision

- ANEEL is currently revising the Regulatory WACC: the public hearing is still opened and companies can send contributions until December 2nd.
- The agency plans to update the WACC annually, and use this reloaded rate for all tariff reviews happening in a given year
- Tariff revisions in 2020: proposed WACC at **7.17% real post-tax**
- EDP tariff revisions: EDP ES in 2022 and EDP SP in 2023

Steady decline of total losses



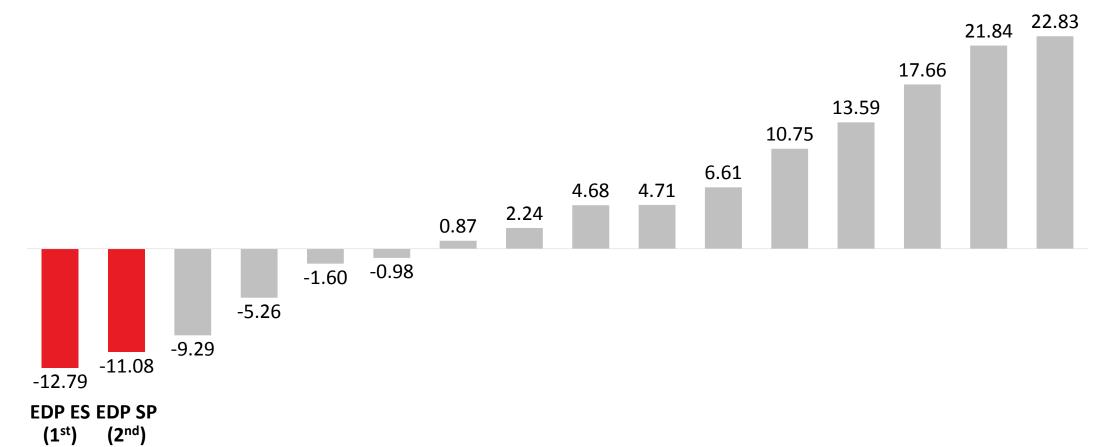


Total losses evolution benchmark



2

2018 vs. 2014 change (%)



Several initiatives in place to reduce grid losses







Actions to reduce grid losses



Inspection, with insourcing of inspection activities



Telemetering for clients with high levels of demand



Meter Replacement for more advanced ones



Project "Boa Energia", reinforcing engagement with communities



Centralized Metering system



Public Lighting Recount to prevent unbilled energy



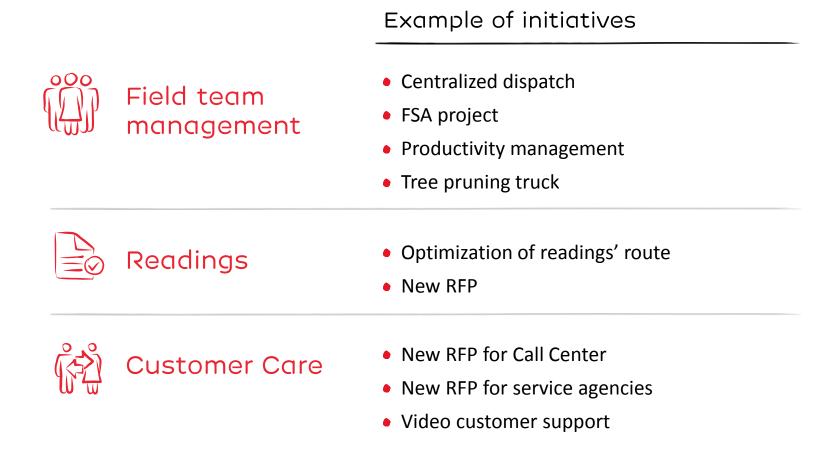
Efficient management of Clients' bad debt



2

R\$ Mn

	2018	9M19
(+) Revenue (fine/interest + fee to reconect)	125	114
(+) Tariff recognition	62	51
(-) Opex collection	-28	-20
(-) PECLD¹	-85	-91
Result	+74	+54



Technological Development Plan: focus areas for Innovation



3

Strategic Map of Distribution (EDP Brasil)

inov**grid**smart energy grid Brasil

P&D edp

Programa de
Pesquisa e Desenvolvimento
da Distribuição Brasil

EDP Innovation Focus Areas

"Distribution must be prepared for the technological challenge and the need to increase both efficiency and quality of service that the market will require"

Safety & Culture

Juiture

Customer

People

Losses & unpaid bills

Operational Efficiency

Digital

Interoperable Telecom Advanced Automation Intelligent Metering IoT Sensing Cvber Security Fraud Digital Shielding New Model

Big Data **Analytics** Robotization Distributed Generation Drones **Energy Storage** Losses Mitigation Electric Mobility New Operation

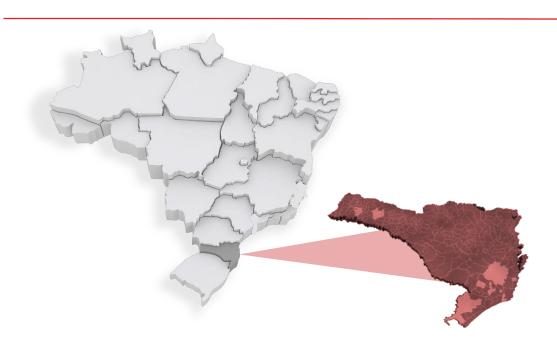
Smart Grids
Focused
Solutions

Cleaner
Energy
Energy
Storage

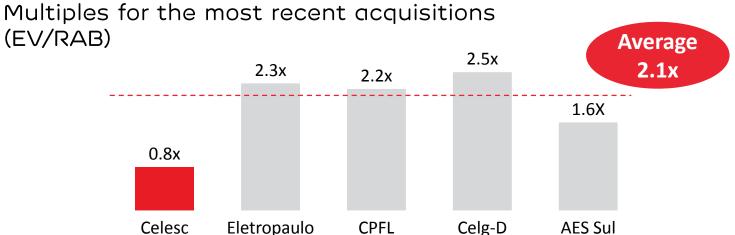
Operational
Efficiency

Growth option: 23.6% stake in Celesc





- Acquisition of a stake in Celesc in 2018
- Not only a financial position: 3 seats in the board (out of 11) and 1 seat in executive position
- Strategic partnerships in Santa Catarina

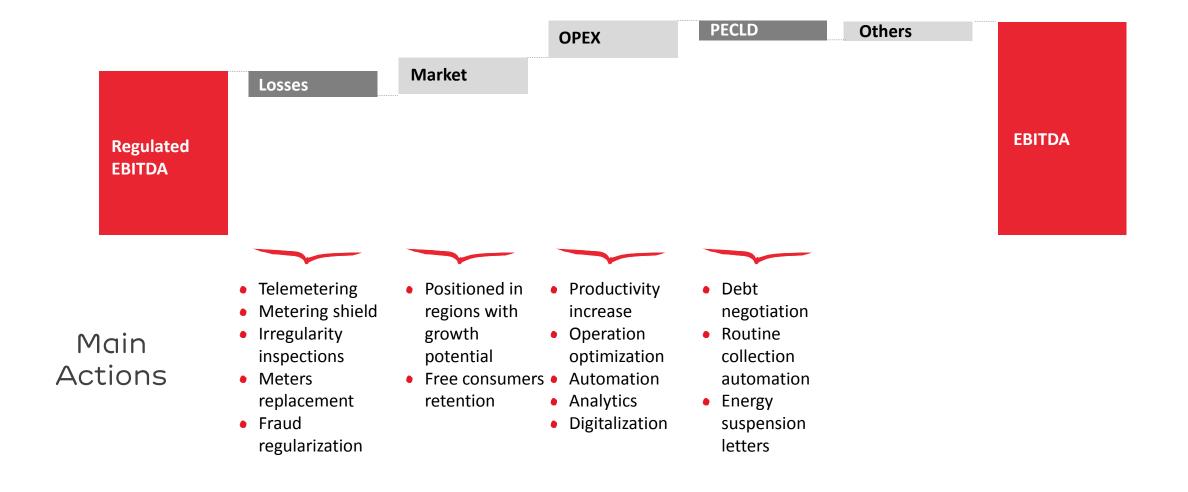


Timing and the transaction structuring process allowed for relevant stake (largest shareholder) with below average multiples

¹ Note: qualitative data extracted from the IBGE website

Distribution: Strong focus on value creation drivers





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Transmission Portfolio







Funding Optimization

LocationExtensionStart of Operation

Lot 24	© Espírito Santo 113 Km and 1 substation Operational start-up: Dec/18
Lot 7	Maranhão 123 Km and 1 substation Under construction
Lot 11	Maranhão203 Km and 1 substationUnder construction
Lot 18	São Paulo - Minas Gerais 375 Km Under construction
Lot 21	Santa Catarina* 484.5 Km and 1 substation Under construction
Lot Q	Santa Catarina/Rio Grande do Sul 142 Km and 2 substations

Under licensing process

Regulatory model of transmission



- Regulated by the Federal Government, with stable track record
 Concession attributed through auctions

Revenues

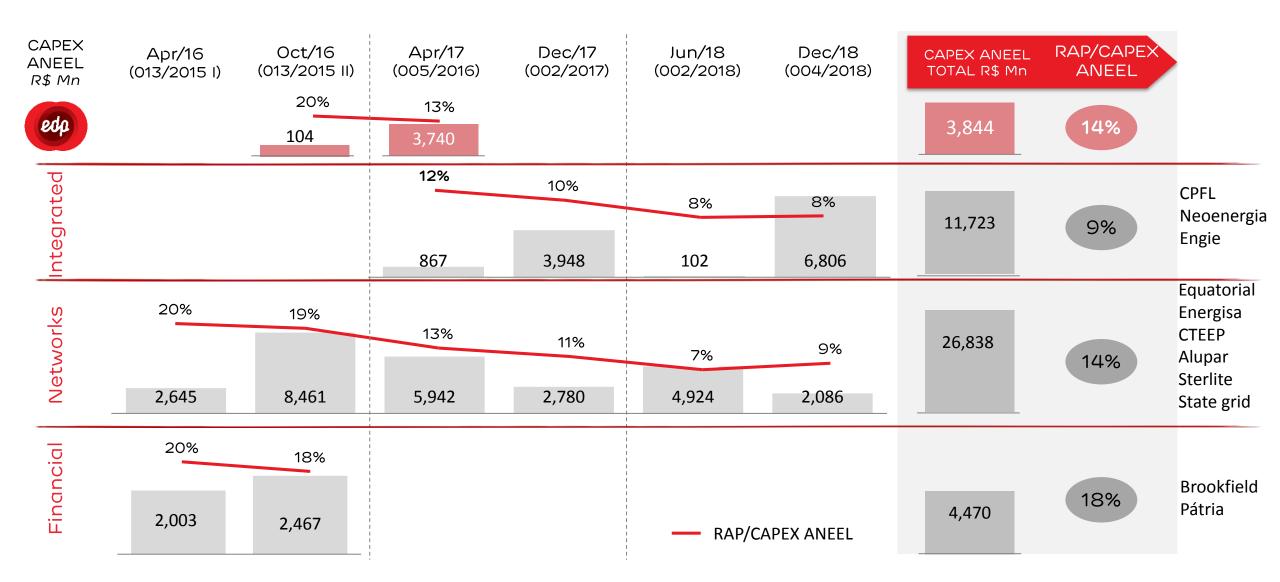
- 30-year contracts, with Allowed Revenue (RAP) adjusted by inflation
- Payment based on availability, regardless of the transported energy volume

Risks

- Low counterparty risk, as Allowed Revenue (RAP) is paid by generators, distributors and consumers in the free-market, with solid warranty mechanism
- Low level of environmental and construction risks

Profitable contracted growth: Entrance timing ensuring superior returns



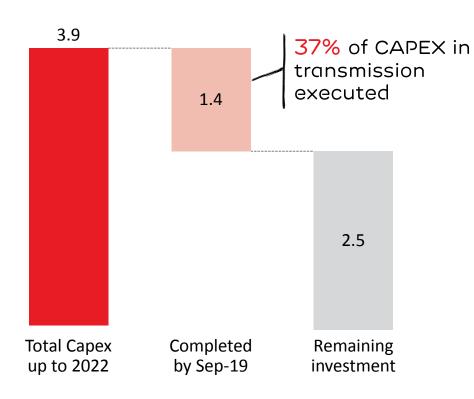


CAPEX execution on transmission, while antecipating COD

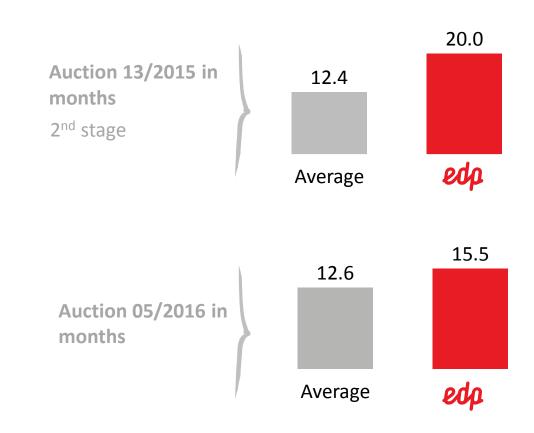


CAPEX in Transmission

R\$ Bn in nominal terms

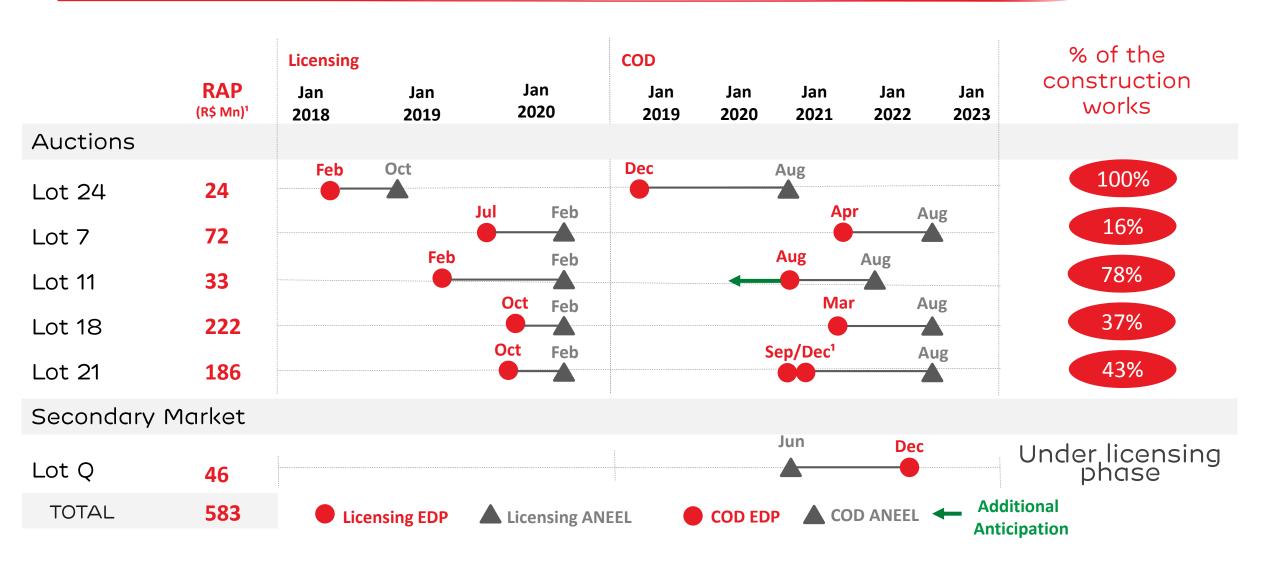


Anticipation of expected CODs1



Execution benchmark: construction work antecipation

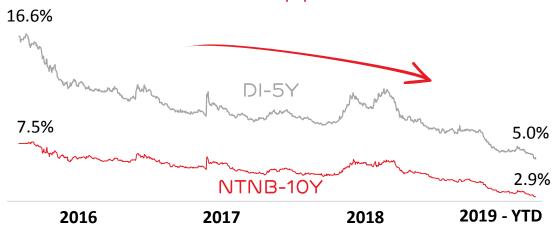




Low interest rate environment as a positive driver of investments in transmission...

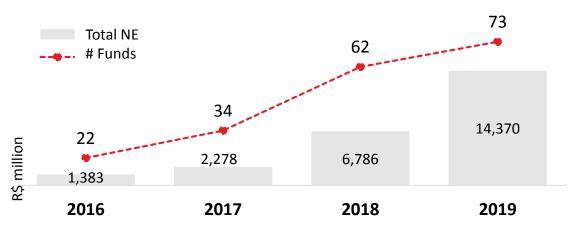




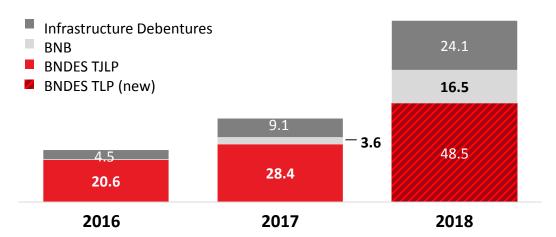


- In 2017, BNB and the capital markets became attractive sources for infrastructure funding
- Post-2017, there was major growth in the infra debentures market (+ 6x Net Equity of the Funds)

+ 6x Net Equity for the Infra Funds



+ 6x of Infrastructure Debentures Volume



30

... While maximizing value through diversification of financing sources



Performed operations

Infra Deb.

R\$ 115 Mn

NTNB + 170%

15 years

Lot 11 005/2016 BNB R\$ 124.5 Mn

Lot 07

005/2016

IPCA + 2.18%¹
20 years

BNB

R\$ 252 Mn

 $IPCA + 2.16\%^{1}$

24 years

Lot 21

Lot 24

013/2015

Infra Deb. R\$ 1.2 Bn

> NTNB + 0.85% 15 years

Lot 18 005/2016

Infra Deb. R\$ 800 Mn NTNB + 0.85%

20 years

Lot Q 013/2015

> Bridge R\$ 250 Mn CDI + 0.44% 12 months

+ R\$ 525 Mn

Long term
Additional Lot 18

R\$ 405 Mn

CAPEX in Lot Q

Structure Long Term Debt

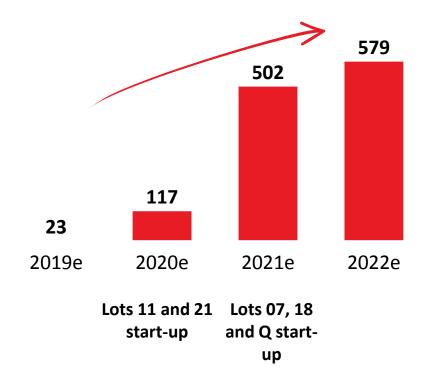
Additional R\$ 500 million in NPV

¹Considering default bônus.

Transmission EBITDA accounting methodology

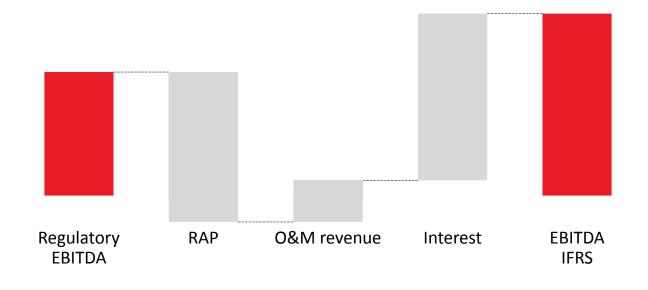


Annual Allowed Revenues (RAP)¹ R\$ M



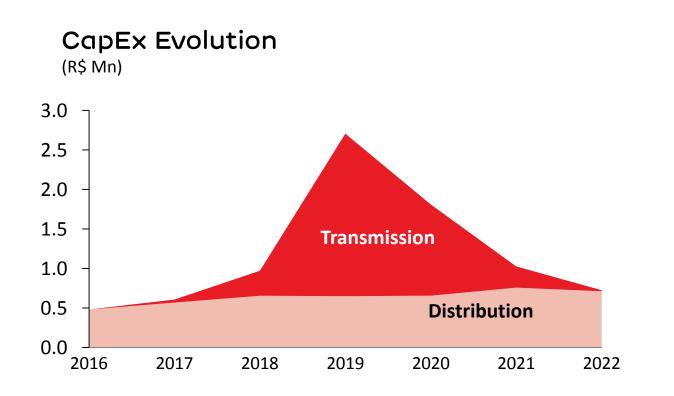
Transmission EBITDA

Conceptual – Operational lots²



Capital allocation in Networks with distinctive returns







- NPV > R\$ 1 billion
- Construction ahead of schedule
- Funding optimization

♥ Distribution:

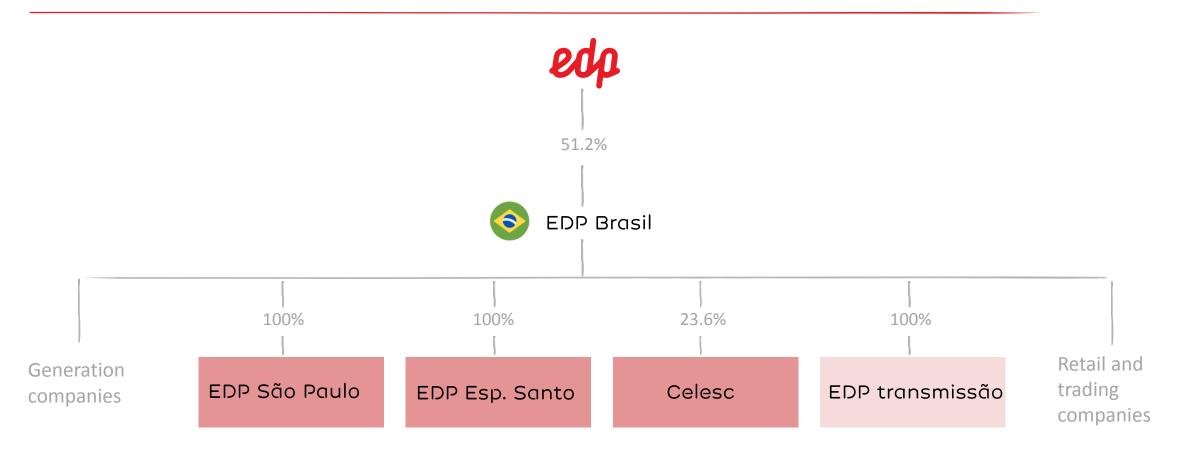
Investment ~2x Regulatory depreciation

Growth strategy with value creation



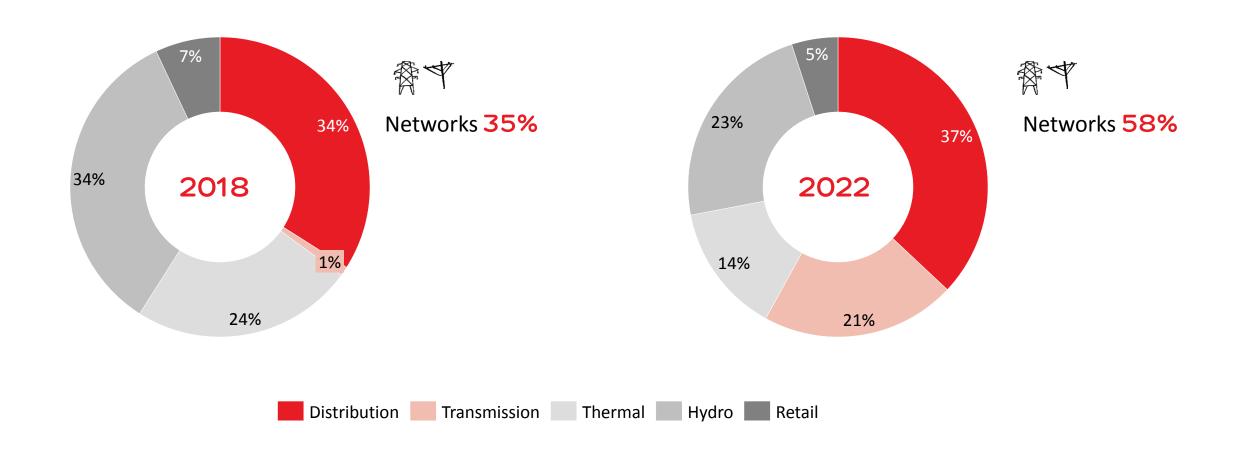
Structure of networks activities in EDP Brazil





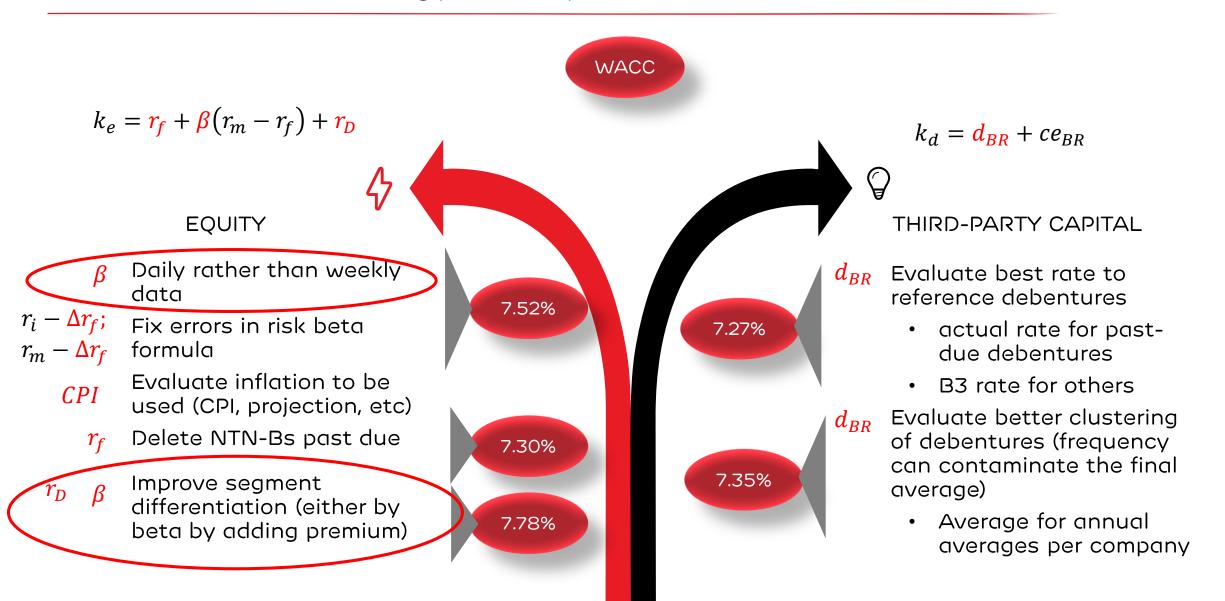
EDP Brasil EBITDA breakdown





There are several possibilities of a revision in the distribution WACC based on the methodology used by ANEEL





Regulatory model of distribution (I/II)



Tariff reset: For the tariff reset we have 2 components: Component A and Component B.

$$RR = VPA + VPB$$

RR = Requested Revenue VPA = total amount of the component A VPB = total amount of the component B

Component A: The component A is a "pass through". It includes the expenses with energy purchase (energy supply), transportation and charges.

Component B: The Component B is readjusted based on the inflation variation in the period (IGP-M index) deducted from the X factor.

In the calculation of the X factor, three components are considered: productivity (Pd), trajectory (T) and quality (Q). The Pd and T components are defined in the tariff revision process and remain the same until the next revision cycle. The Q component is updated in every tariff adjustment process.

$$\times$$
 Factor = $Pd + Q + T$

where:

Pd: productivity gain;

Q: technical and commercial quality of the services provided; and

T: operational costs trajectory

Regulatory model of distribution (II/II)



The market usually does not model the Component A, as it should be net = zero. It commonly models the component B considering:

CAOM: Administration, Operation and Maintenance Costs

= Operational costs adjusted by inflation+

Non-recoverable expenses: historical % for projected losses x Estimated revenue



CAA: Annual cost of Assets

Capital remuneration: Regulatory WACC x RAB (Regulatory asset base - which can be taken from Sparta file from last revision cycle)



CAIMI: Annual Cost of the Real Estate Facilities

= Annual depreciation rate x RAB (each distribution company has to invest at least 1x regulatory depreciation – QRR - but some companies invest more than that. EDP for instance, has invested around $1.9 \times QRR$).

Change in accounting measurement IFRS 15 – IFRS9



Revenue

(+) Financial

(+) O&M Regulatory

(+) Construction

Model until 2017

IRR (1)

Regulatory: without margin

CapEx without Margin (2)

Actual Model - IFRS 15

WACC*

Regulatory with Margin

CapEx with Margin (Difference)

Note:

- (1) Return Rate "Goal Seek"
- (2) Without margin apropriate in the construction (all returns alocated as funding).

Total Revenue = Financial + O&M + Construction

Until 2017 Calculation

(+) Financial Returns - Project IRR

(Construction and O&M with zero margin)

IFRS 15 Calculation

- (+) Financial Returns WACC post construction
- (+) Construction + O&M with margin

Contractual Asset: The financing rate occurs in the beginning of the contract, with no update afterwards