

COPEL DAY

11.22.2022



**2030
VISION**



CPLE
B3 LISTED N2

ISE B3
IBOVESPA B3

IGPTWB3
ICO2B3



DISCLAIMER



Any statements made during this event involving Copel's business outlook or financial and operating forecasts and targets constitute the beliefs and assumptions of the Company's Management, and the information currently available.

Forward-looking statements are not guarantees of performance and involve risks, uncertainties and assumptions, given that they refer to future events, and thus are dependent on circumstances that may or may not occur.

The general economic conditions, industry conditions and other operating factors could come to affect the future performance of Copel and lead to results that are materially different from those expressed in said forward-looking statements.



WELCOME TO 2030



2030 VISION
DANIEL SLAVIERO
PRESIDENT OF COPEL
NOVEMBER 2022



VISION 2030

To be one of the largest integrated electric power groups in Brazil

- Relevant in the 4 business (Generation, Transmission, Distribution and Commercialization)
- People as a competitive differentiator
- Focus on customer experience

PILLARS 2030

STRATEGIC JOURNEY

1

ESG: Decarbonization of the current portfolio - focus on renewables

2

Integration with scale across businesses

3

Discipline in capital allocation

STRATEGIC OBJECTIVES



100% renewable generation portfolio: > 2GW additional



Transmission with +2,000 Km, exploring synergy with Generation and Distribution



Among the largest national DISCO, RRB growth in Paraná + Opportunities in new concession areas



Distributed Generation as a defense and consolidation strategy in the sector



Remain among the largest in the Free Market, with a focus on increasing profitability



Recognized by customers for its innovative and digital service offering



2030 Vision

COPEL + ENERGY

Among the **largest integrated electric power companies** in Brazil by market value

- **Integrated** and relevant in the 4 business (G, T, D and C)
- **People** as a competitive differentiator
- Value: Focus on **customer experience**

Fundamentals and pillars

DECARBONIZATION (ESG)

Decarbonize the current portfolio and accelerate positioning in renewables and energy transition avenues

INTEGRATION WITH SCALE

Seek greater integration between the businesses, pragmatically managing regulatory limits and boundaries and competitive advantages to scale projects and technologies

CAPITAL DISCIPLINE

Search for returns compatible with the risks of the Company's projects, portfolios, investments and strategic options

2030 Strategic goals

100% renewable generation portfolio: > 2GW additional

Transmission growth, exploring synergy with Generation and Distribution

Among the largest national DISCO, RRB growth + opportunities to add new concession areas

Distributed Generation as an opportunity to consolidate the sector

Mercado Livre among the largest and focused on profitability and value creation

Recognized by customers for its innovative and digital service offering

STRATEGIC JOURNEY

COPEL DAY

11.22.2022

CASSIO SANTANA DA SILVA
DIRECTOR OF BUSINESS DEVELOPMENT
NOVEMBER 2022



2030 VISION



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AGENDA

- DECARBONIZATION / DINVESTMENT
- CAPITAL ALLOCATION
- INNOVATION

DECARBONIZATION / DINVESTMENT

UEGA – 484.15 MW

In addition to the DECARBONIZATION guideline:

- Gas-fired thermoelectric plant operating in the “Merchant” modality
- Concession expires in 2029, with the possibility of renewal
- Major inspection held in 2022
- Petrobras is divesting its minority stake
- Players with access to natural gas have a strategic interest in the asset, with value creation, part of which can be captured by Copel



**TPP Araucária
(81.2% Copel)**

DECARBONIZATION / DINVESTMENT

Compagas

In addition to the DECARBONIZATION guideline:

- Focus on the electricity core business
- Renewal process for another 30 years (until 2054)
- The renewal of the concession is in progress in the governance of Compagas and Copel
- Main indicators of the Feb/22 Public Hearing:
 - Price Cap Model
 - Grant of BRL 508 Million
 - Internalization in the 10 mesoregions of the State
 - WACC of 9.12%



COMPAGAS

(51% Copel)

DINVESTMENT

HPP Foz do Areia – 1,676 MW

To obtain the RENEWAL OF THE CONCESSION:

- Draft of new concession agreement approved, for an additional 30 years
- The Grant Bonus was defined at BRL 1.83 billion, WACC 8.27% and Future Energy Price of BRL 177.56
- Auction for divestment of shareholding control (50.1%) scheduled for the last quarter of 2023
- Great attractiveness for strategic, financial and self-producing players, engaged advisors.



CAPITAL ALLOCATION Investment Policy

- Objective criteria (source / location / size / corporate structure)
- Capture of Synergies (Vilas and Aventura/SRMN Projects)
- Discipline in Execution (Jandaíra and Bela Vista Projects)
- Partnerships: Complementary Investment Thesis

Asset	Font	Font	Font	Type	Energy	Location	Size
Transmission	Hydroelectric	Photovoltaic	Wind Power Plants	Brownfield	Projects with PPA	Rio Grande do Norte	< than 150 MW
							> than 150 MW
						Other states	< than 150 MW
							> than 150 MW
				Greenfield	Projects with PPA	Rio Grande do Norte	< than 150MW
							> than 150 MW
						Other states	< than 150 MW
							> than 150 MW
					Projects without PPA	Rio Grande do Norte	< than 150 MW - conditioned to PPA
							> than 150 MW - conditioned to PPA
						Other states	< than 150 MW conditioned to PPA
							> than 150 MW conditioned to PPA

CAPITAL ALLOCATION EXPANSION AVENUES



ASSETS



SERVICES



INNOVATION

CAPITAL ALLOCATION ASSETS



- G** - Add 2GW to the portfolio and have the portfolio 100% renewable
- T** - Add 2,000 km of Transmission Lines
- D** - Grow through new concession areas and Consolidate base in Paraná

CAPITAL ALLOCATION SERVICES



- **Aggregate EBITDA from B2C Services**
- **Self-production - Leasing and equivalence modalities**
- **Implement a performance model in Energy Efficiency / Energy Management**
- **Distributed Generation - 2030 Vision between 350 to 500 MW - Aware of consolidation movements**



Own project development track in Paraná (100% Copel) and project acquisitions (100% Copel)



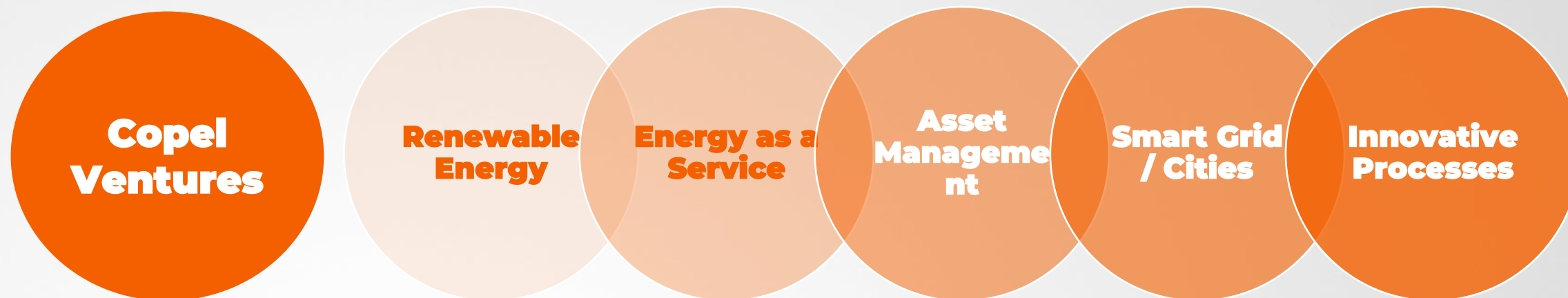
Operations outside Paraná with partners (49% minority interest with 100% payment option)

INNOVATION INNOVATION TEST

We invest in innovation to materialize our vision in an Energytechs Platform, focusing on digital solutions, sustainably impacting our customers, reinforcing our leading role within the energy sector.



INNOVATION INNOVATION TEST



Early Stage

Monocotist

**Strategic and
Financial**

BRL 150 Million

**BRL 2 to 10 Million
per round**

**OUR BUSINESS:
OPERATIONAL EXCELLENCE**

COPEL DAY
11.22.2022



**2030
VISION**



MOACIR BERTOL

COPEL GERAÇÃO E TRANSMISSÃO – GENERAL DIRECTOR
NOVEMBER 2022



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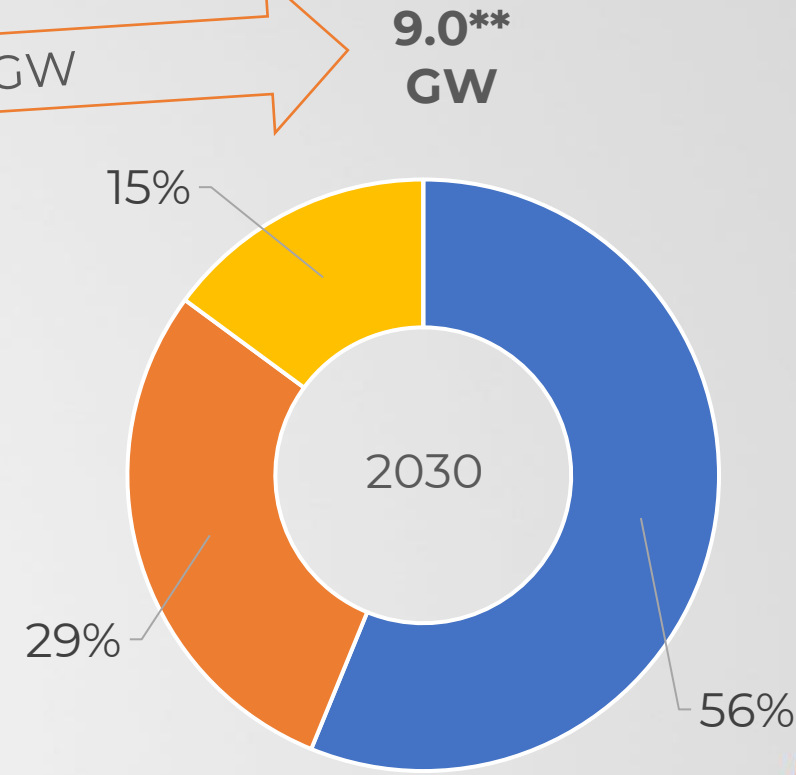
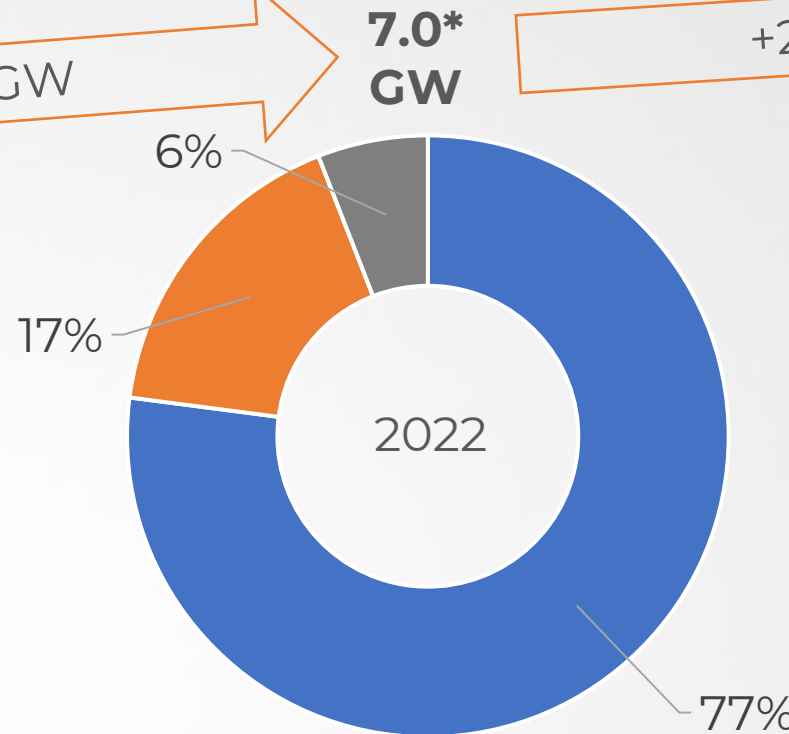
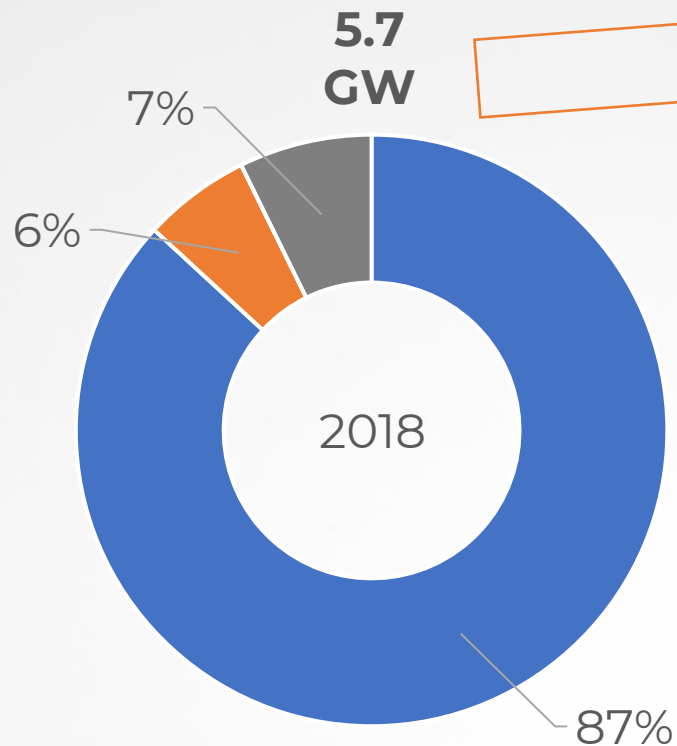


VLATIBEX
XCOP

AGENDA

- **100% RENEWABLE GENERATION**
- **ENERGY TRANSMISSION**
- **EFFICIENCY IN GENERATION AND TRANSMISSION**
- **EFFICIENCY KPI'S**
- **PORTFOLIO STRATEGY**
- **ANALYSIS OF THE SECTOR ENVIRONMENT**
- **NEW GET OPERATIONS CENTER**

100% RENEWABLE GENERATION



- 2GW in renewables by 2030
- New cluster in the solar power

- Optimization of existing structure to sustain growth

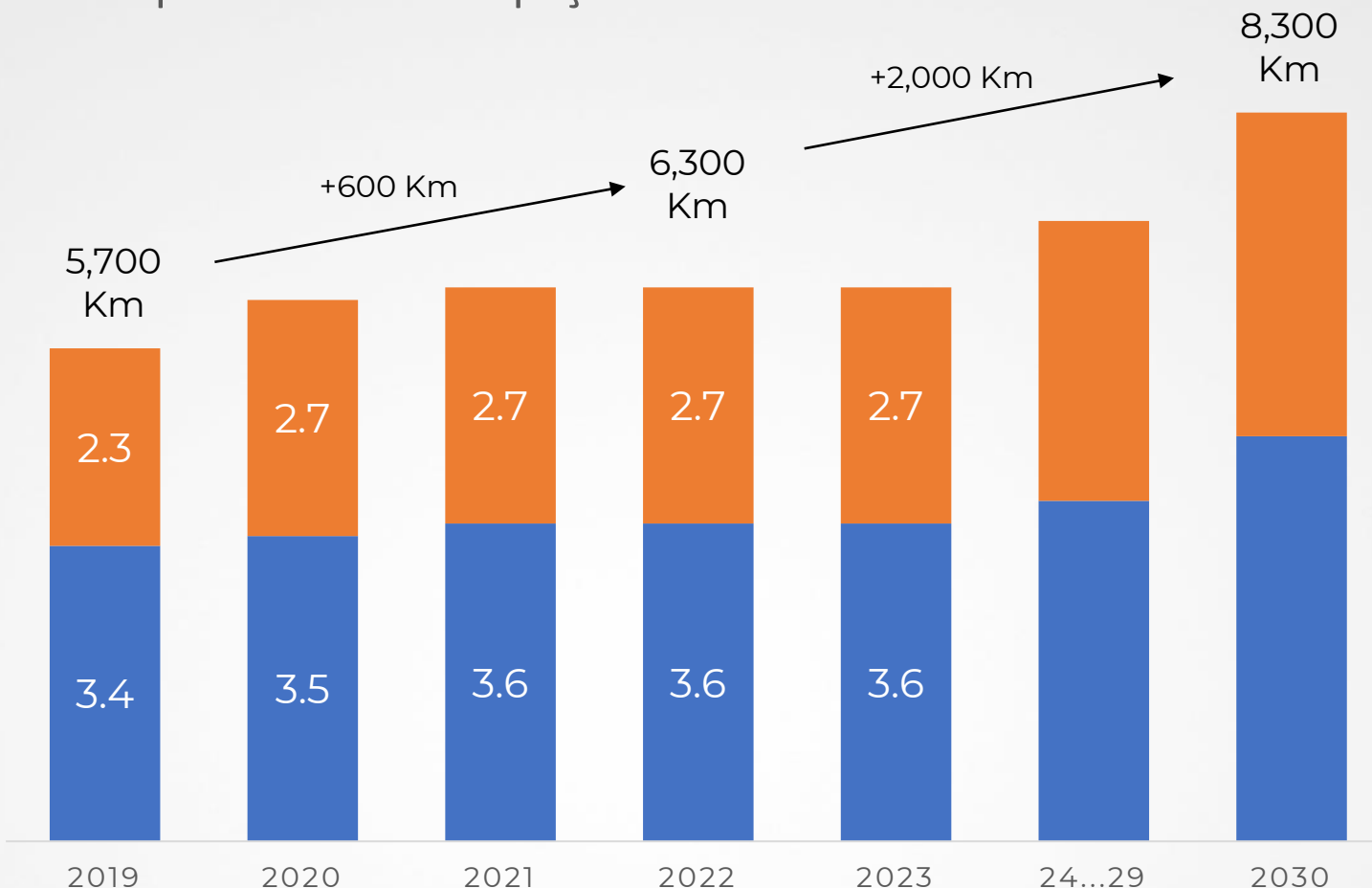
- 100% Renewable Portfolio

* Considers the Acquisition of Adventure and SRMN Wind Complexes

* Considers the Disposal of 50.1% of FDA and 100% of UEGA.

ENERGY TRANSMISSION

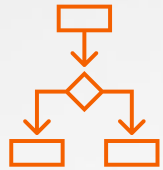
■ Copel GeT ■ Participações



- Grow +2,000 km in new transmission lines by 2030.
- Opportunities in Reinforcements and Improvements.
- Strategic partnerships and alliances.
- Intensify the digitization of our O&M processes.
- Commitment to efficiency!

Km of lines proportional to Copel GeT's equity interest in the project.

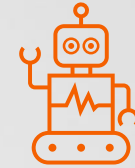
EFFICIENCY IN GENERATION AND TRANSMISSION - Actions



Optimization:
Portfolio Strategy,
O&M, Partnership



Reduction of
164
employees
2018-2022



Robotization of
processes:
contracts and
sector charges

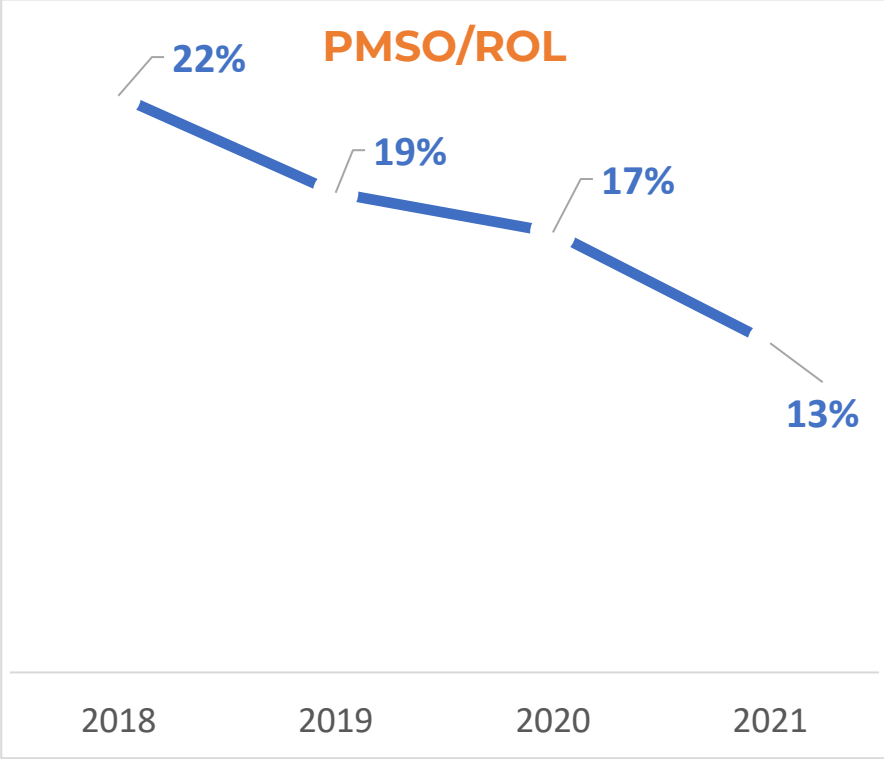
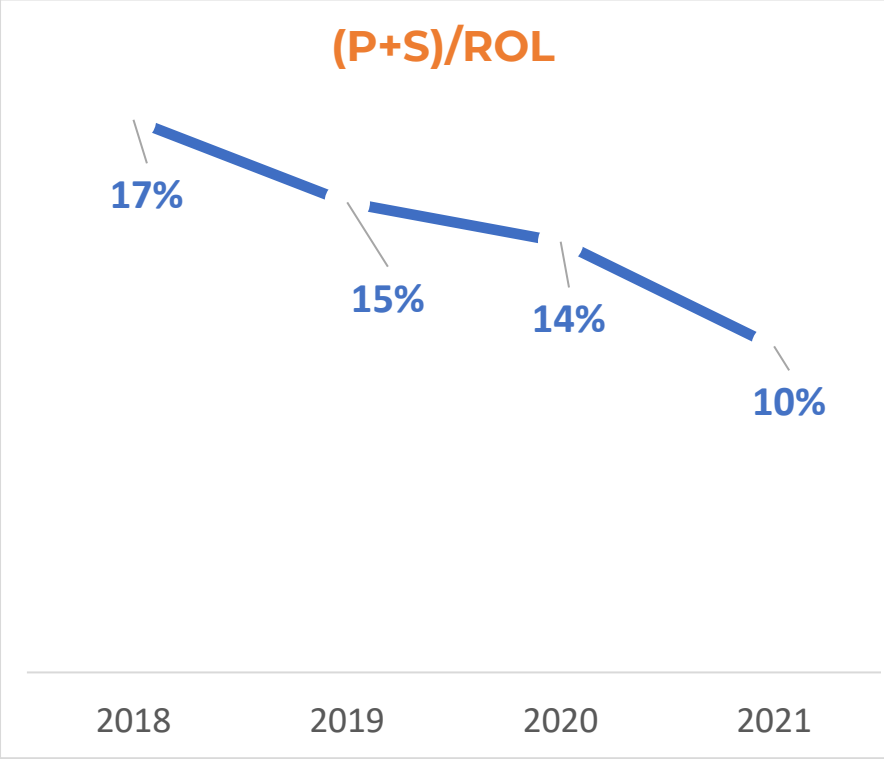


Modernization
and Retrofit
of critical equipment
of HPP's



Structuring the
team for
emergency
resettlement

EFFICIENCY KPI'S



GET
Consolidated

P – Personal and management, pension and assistance plan
M – Material
S – Third-party services
O – Other operational costs and expenses (without GPS effects)

ROL – Does not consider construction revenue

PROJECT IMPLEMENTATION : Jandaíra Wind Complex



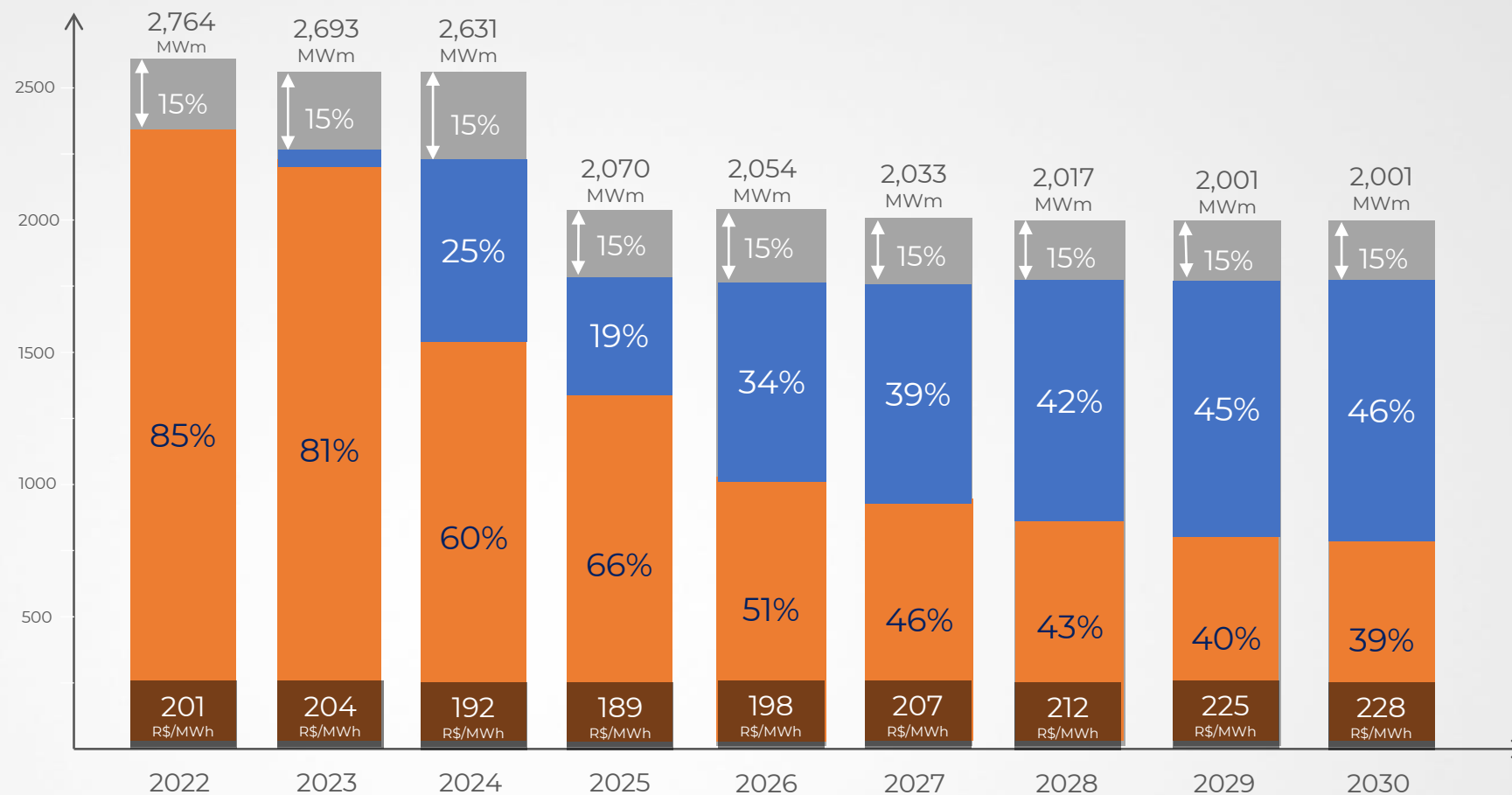
- 90.1 MW of installed capacity.
- 26 Wind turbines
3.46MW Nordex/Acciona
- + 2 years earlier than the start of supply in the ACR.
- Application of the PMI Method in the GeT project office

→ Among the 10 finalists for the PMO of the Year award*

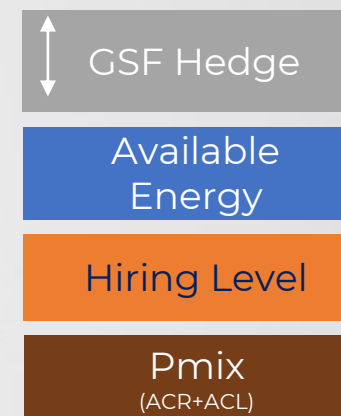
* Source: <https://projectdesignmanagement.com.br/produto/premio-projetopmo-2022/>

PORTFOLIO STRATEGY

Assured Energy



Legend:



Ref: Oct 2022

Analysis of the SECTOR ENVIRONMENT

Public Hearing on the
2022 Ordinary Review of
the Assured Energy of
Hydroelectric Power Plants

PH indicated na average
reduction of -4.5% in the
assured energy of GBM, GNB,
GJR, GPS and Mauá plants

On the other hand, we
estimate an offset of the
GSF effects on the MRE
of 1.9%

Approved the methodology
for enhancing the locational
signal at TUST and TUSDg

Uncertainty in the
definition of the locational
sign with approval of PL
365/2022

Estimated cost
reduction of -14%
by 2030 in the
consolidated result

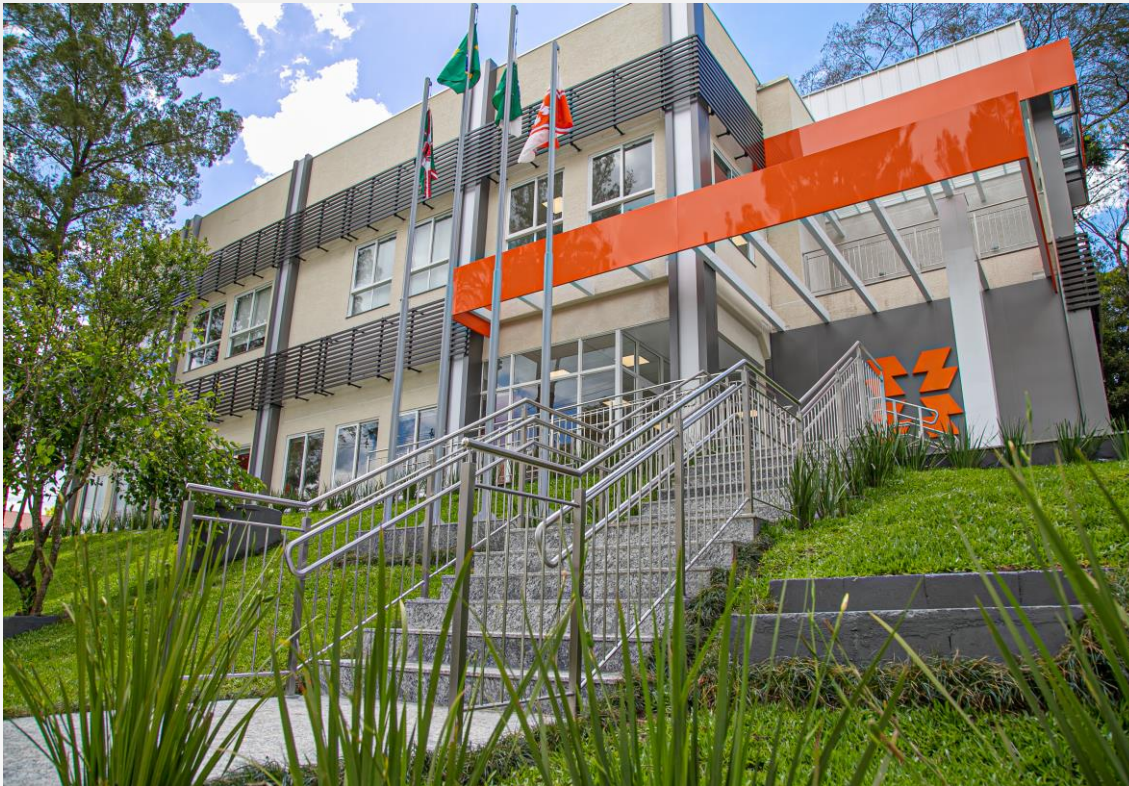
Review of the
methodology for payment
of RBSE financial
installments

Under evaluation by ANEEL:

- So far, there has been no
judgment on the merits of
Abiapé's request

- So far, there has been no
judgment by the TCU to adjust
the PRT 120

NEW GENERATION AND TRANSMISSION OPERATIONS CENTER - COGT



With the modern facilities and implementation of the new digital system, it will be possible to integrate the Generation and Transmission teams and optimize the operation in all the states where we operate

**OUR BUSINESS:
OPERATIONAL EXCELLENCE**

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11.22.2022

MAXIMILIANO ORFALI
COPEL DISTRIBUIÇÃO - GENERAL DIRECTOR
NOVEMBER 2022



**2030
VISION**



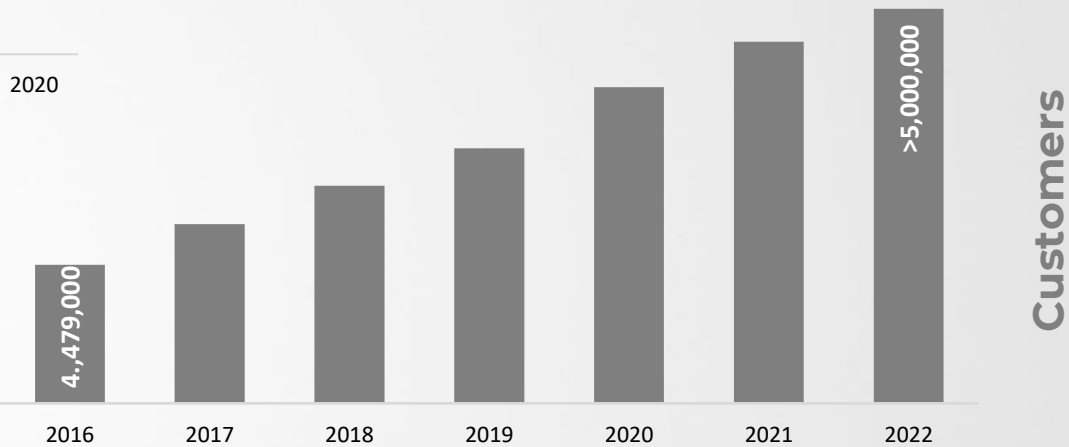
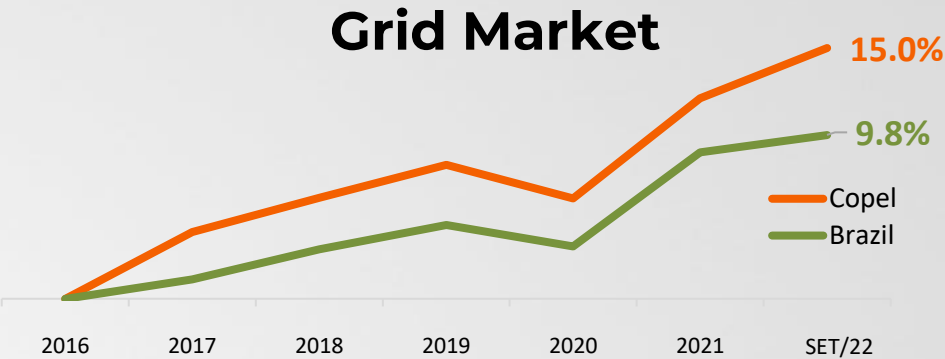
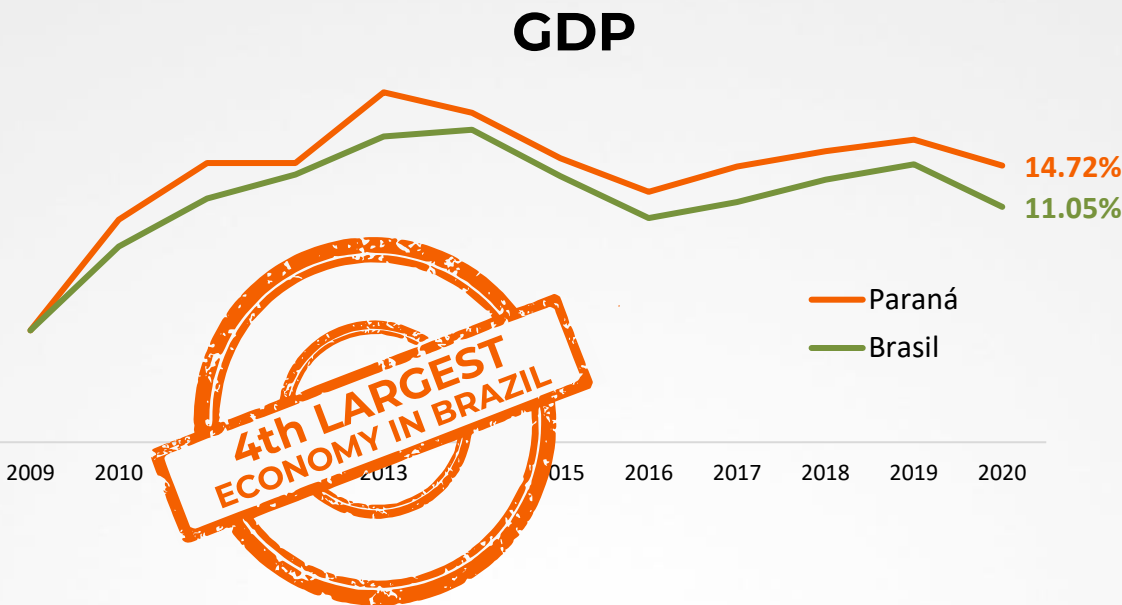
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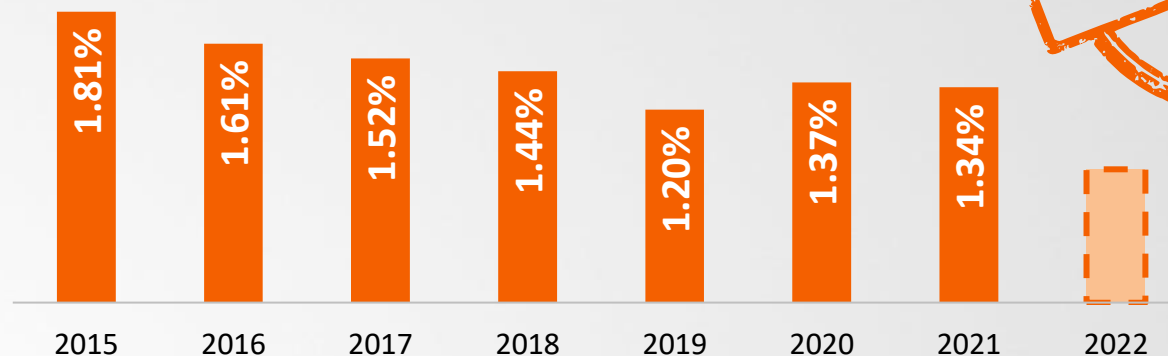
Why Invest in Paraná?



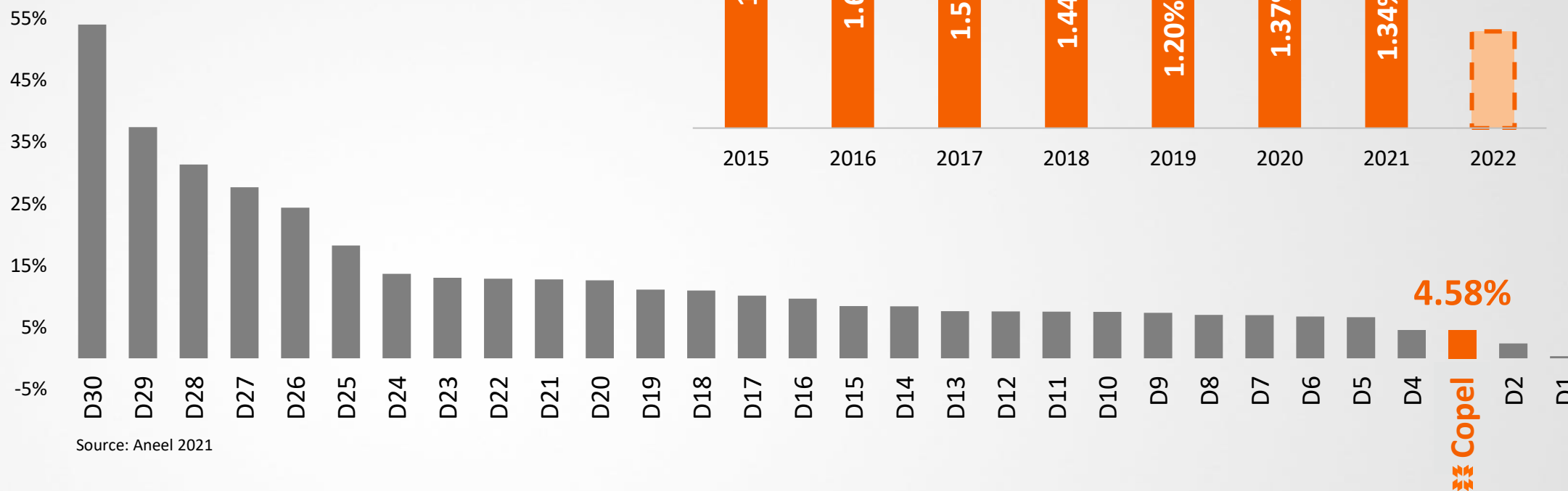
Why Invest in Paraná?



Corporate Default



Non-Technical Losses

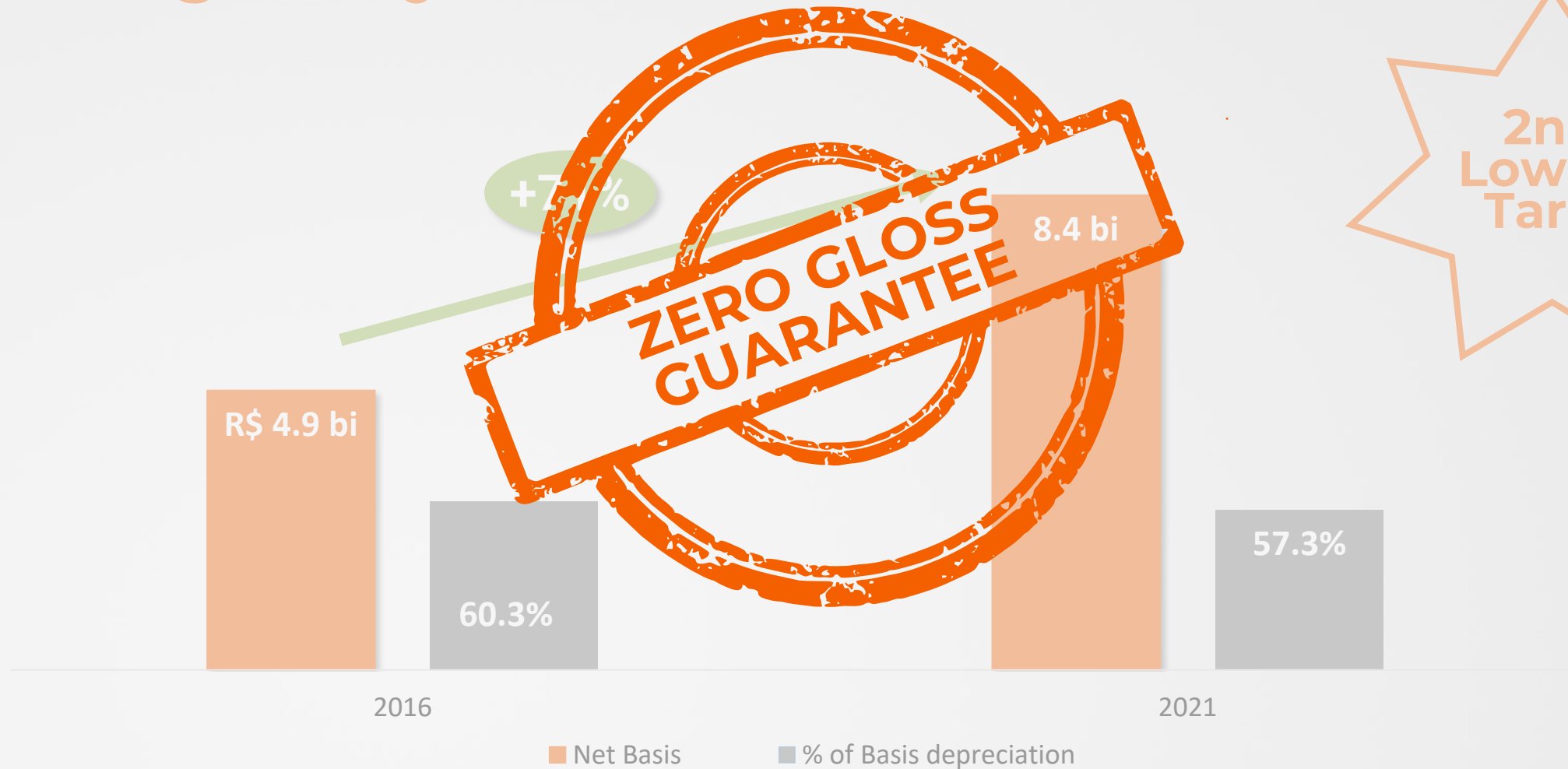


Source: Aneel 2021

Note: Future considerations are not performance guarantees, they involve risks, uncertainties and assumptions, as they refer to future events and, therefore, depend on circumstances that may or may not occur. General economic conditions, industry conditions and other operating factors may affect Copel's future performance and may lead to results that differ materially from those expressed in such forward-looking statements.

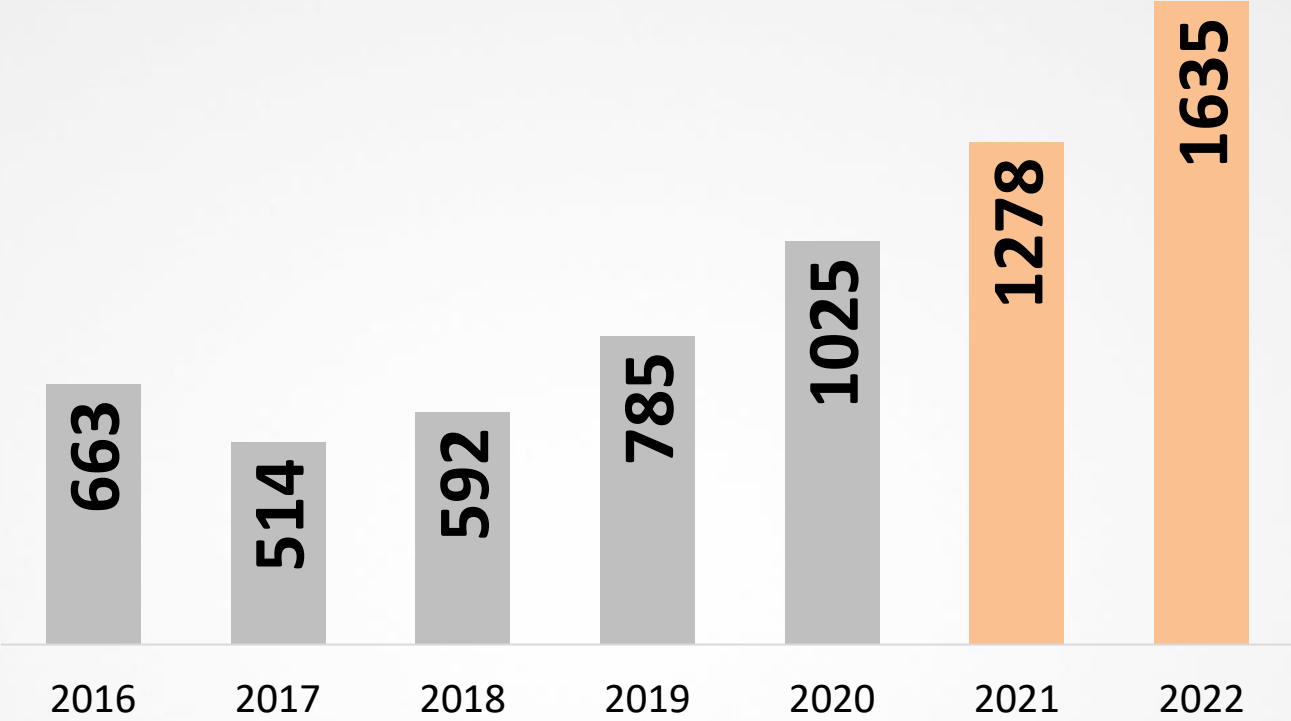
Net Regulatory Remuneration Basis

2nd
Lowest
Tariff



Investiment

R\$ million



Programa transformação



AÇÃO



PARANÁ TRIFÁSICO

BRL **2.8**
billion

25,000 km

2025

20,000 km

2024

15,000 km

2023

10,000 km

2022

6,515 km

2021

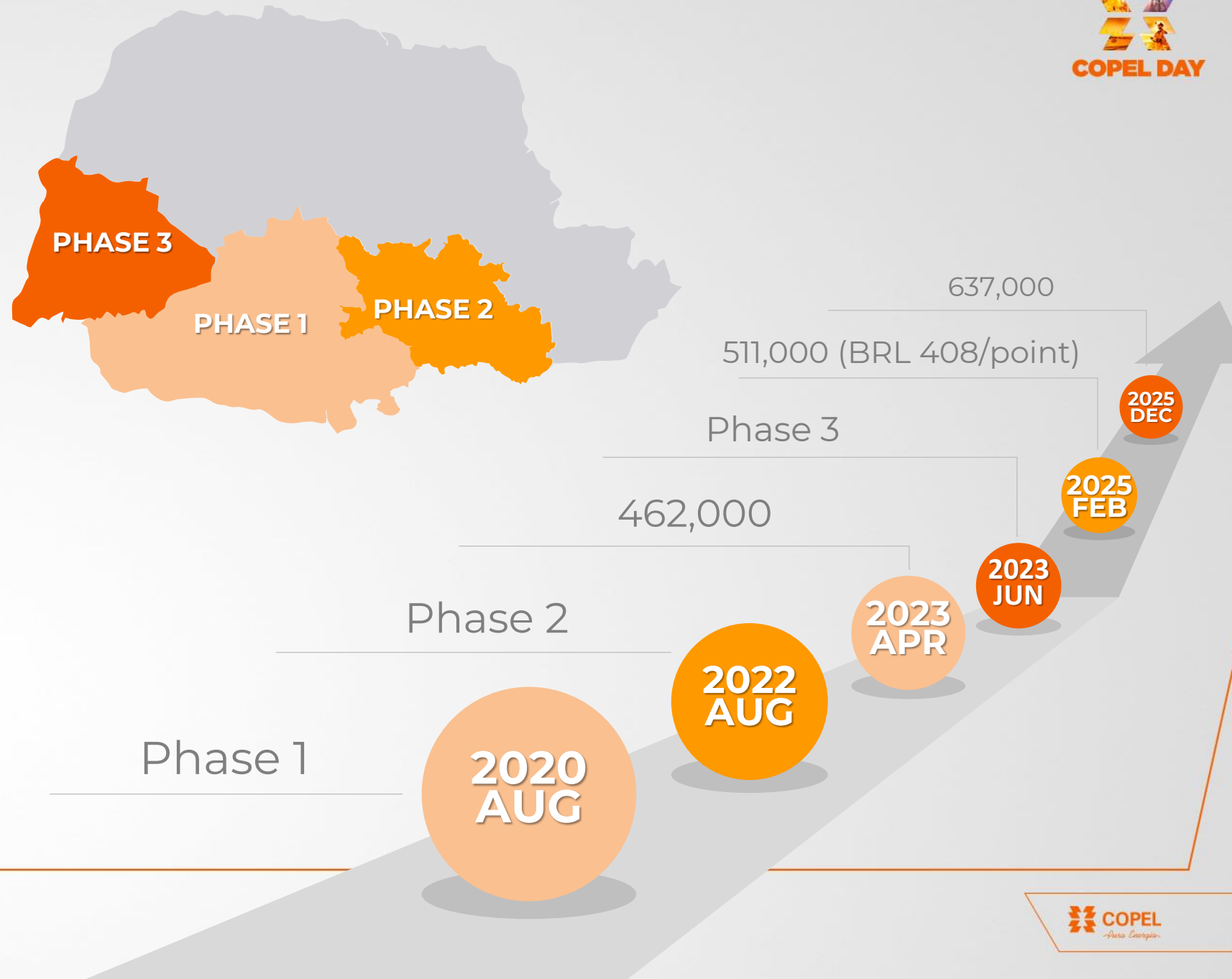
2,807 km

2020

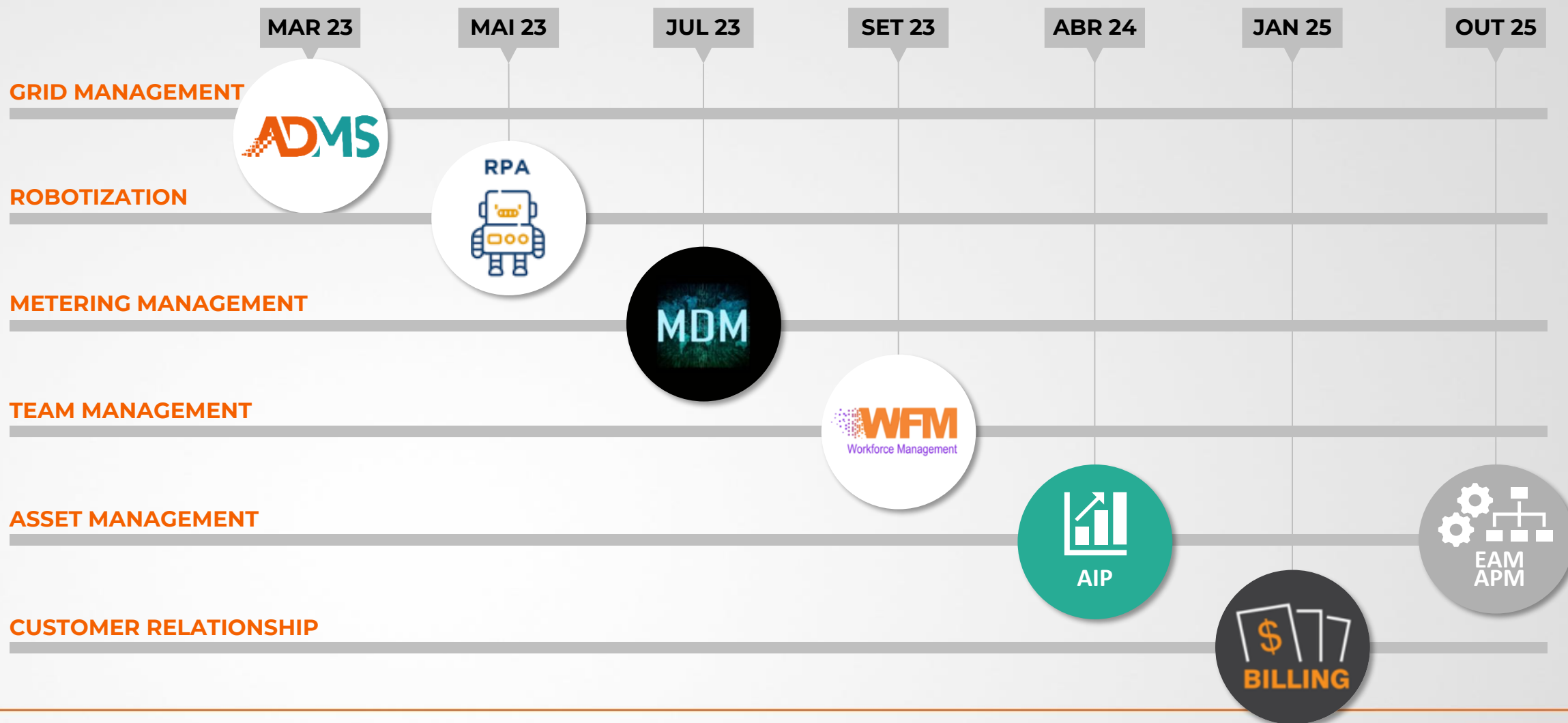
- Renovation of Depreciated Grid
- Protected Cables
- New Path
- + Power Quality
- O&M reduction

REDE ELÉTRICA INTELIGENTE

- ✓ Largest Project in Brazil
- ✓ 1,610,000 customers
- ✓ BRL 820 millions
- ✓ O&M reduction



Digitalization



Drone

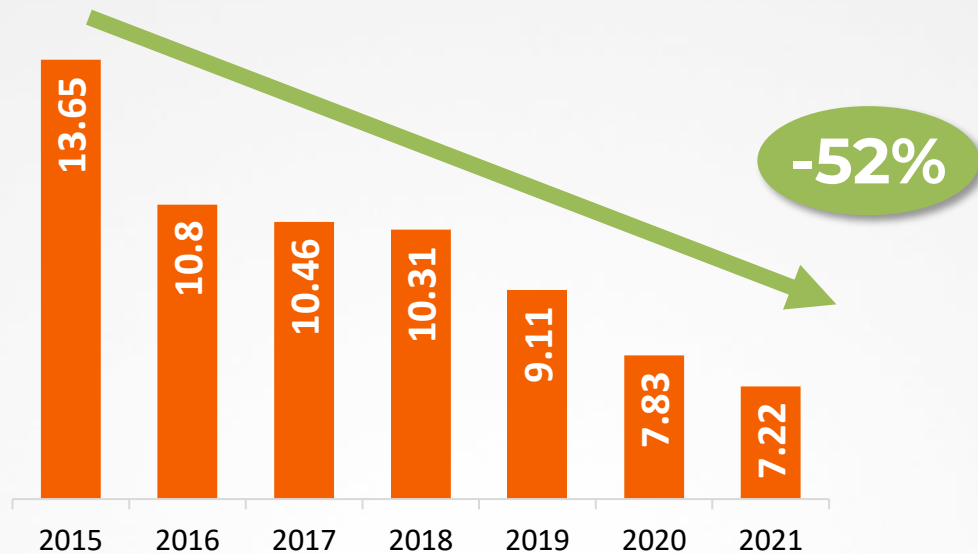
2ª largest fleet of Brazil - 119

- Inspection
- Oversight
- Inventory
- Field survey
- Cable Laying

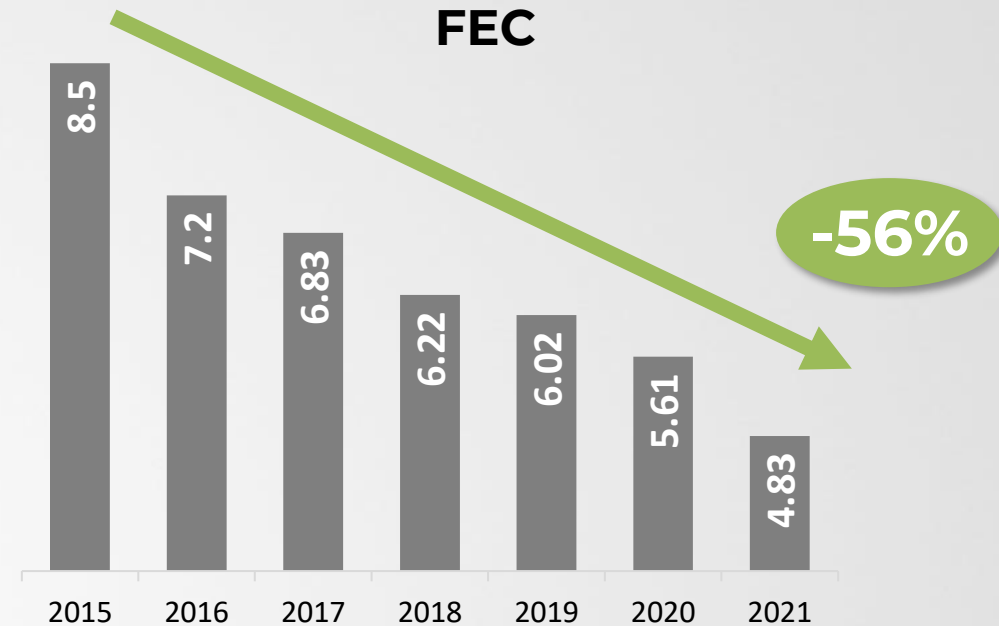


DEC & FEC Evolution

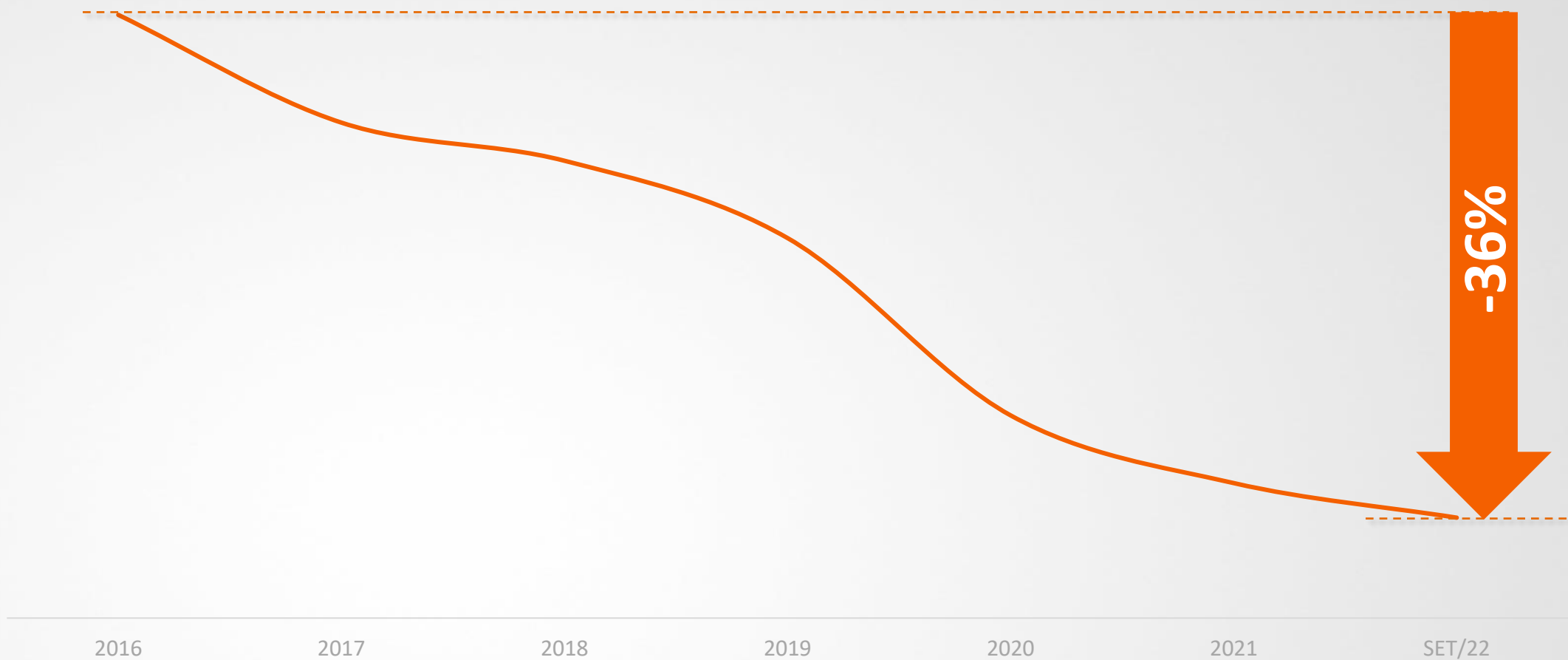
DEC



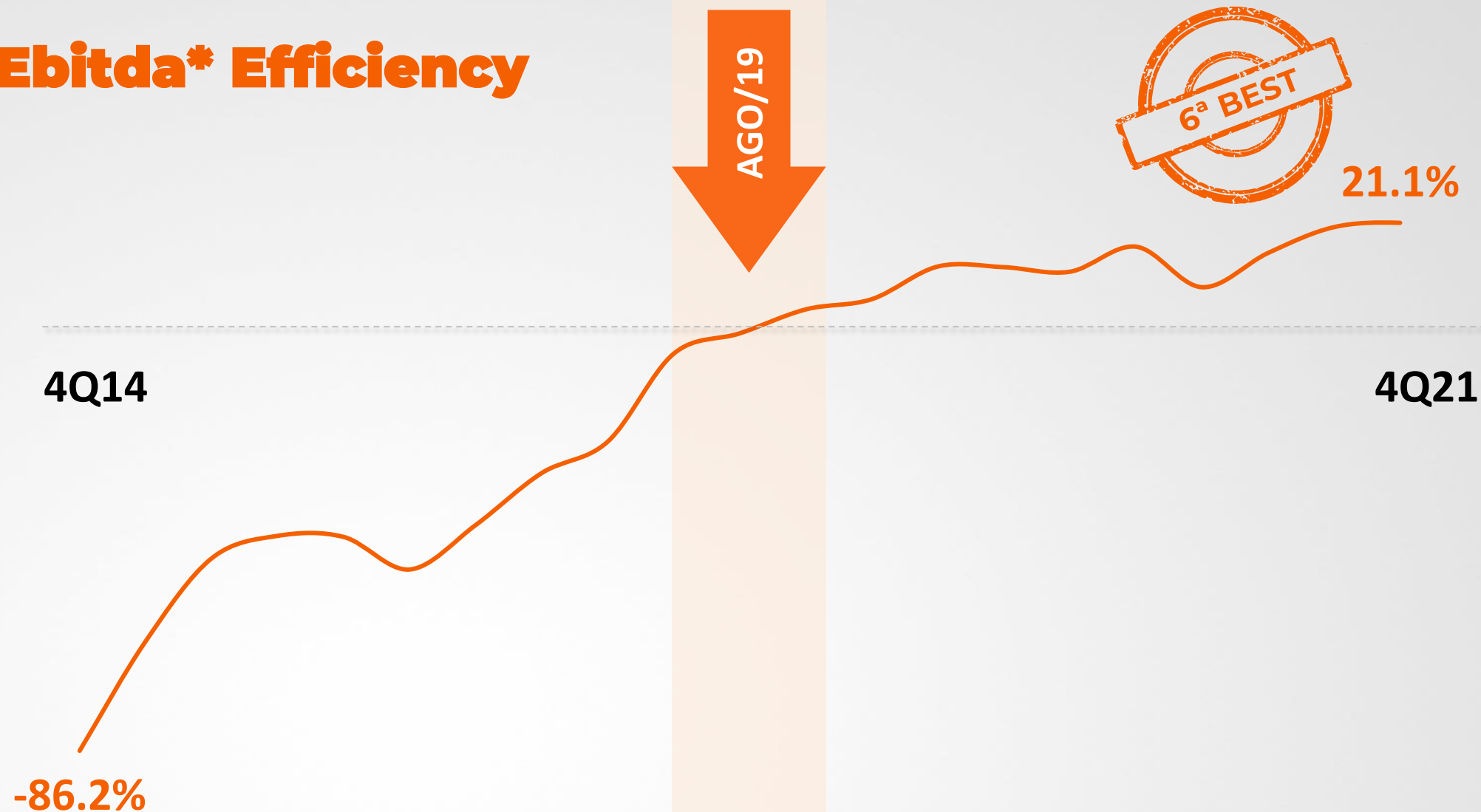
FEC



PMSO/Customer

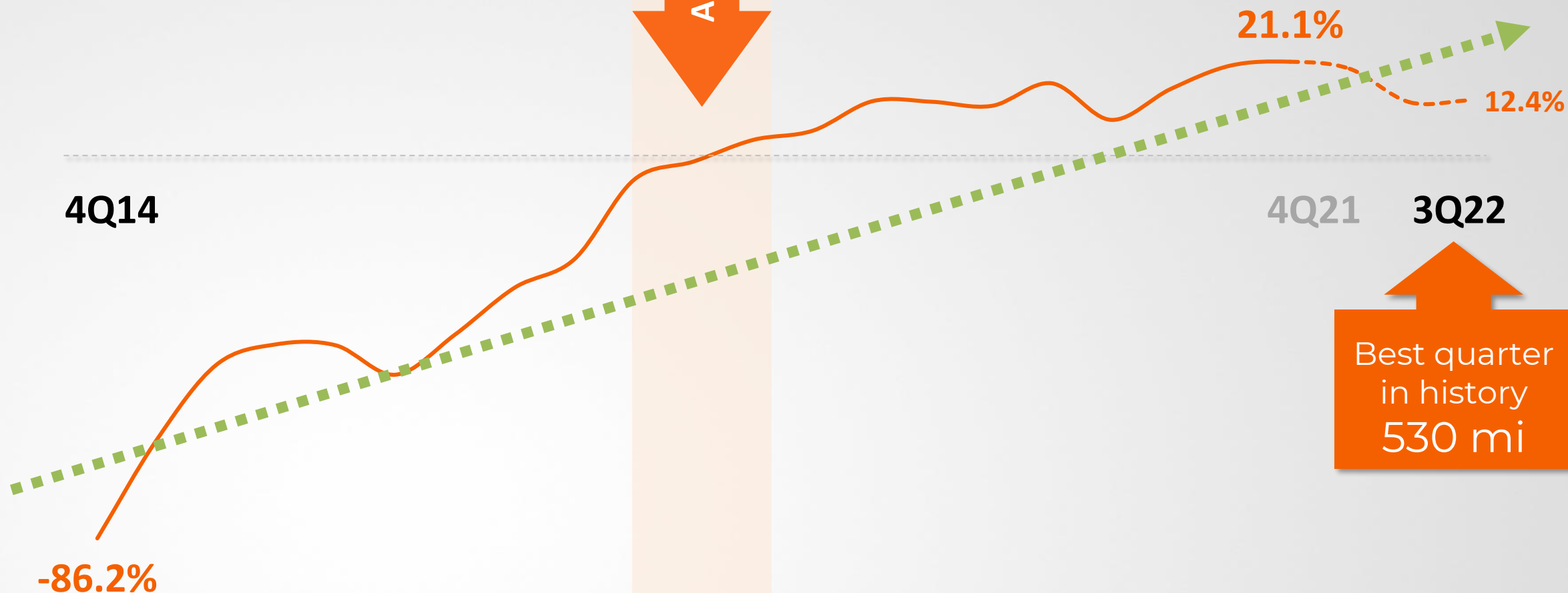


Ebitda* Efficiency



Ebitda* Efficiency

AGO/19



Acknowledgments



Ombudsman

1º (2019 and 2020)
2º (2021 and 2022)



Best Distributor in Brazil 2021



Management Quality

1º (2022)
2º (2018, 2019 and 2021)



Customer Satisfaction

8 times in 10 years



Iberoamericano

Management Quality 2020



A **MELHOR** E MAIS **MODERNA**
DISTRIBUIDORA DO BRASIL



CUSTOMER EXPERIENCE AND SYNERGIES

COPEL DAY

11.22.2022

FILLIPE SOARES

COPEL MERCADO LIVRE - GENERAL DIRECTOR
NOVEMBER 2022



2030 VISION



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MARKET OPENING

1995

Creation of the Free Market

1999

1st free market contract with Copel's energy

2022

Customers with demand above 1000 kW

30 thousand customers in the free market

38% of national consumption

2024

Group A customers (high voltage)

106 mil units able to migrate

48% is the estimate of the potential free market

2026

Infralegal proposal for the opening of the low voltage market

SOURCES:

106 thousand new customers units should migrate to the free market.

Source: <https://www.gov.br/mme/pt-br/assuntos/noticias/portaria-do-mme-permite-que-consumidores-tenham-liberdade-de-escolha-e-melhores-precos>

Too many numbers: source: ABRACEEL by <https://diariodocomercio.com.br/economia/governo-amplia-acesso-ao-mercado-livre-para-mais-100-mil-consumidores/>

DRAFT LAW 414/2021

|

1. Market opening

|

2. Ballast/energy separation

|

3. Pricing by offer

|

4. Rates and charges

SINGLE ENTRY DOOR FOCUS ON THE CUSTOMER EXPERIENCE



ESG AND PEOPLE

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**2030
VISION**



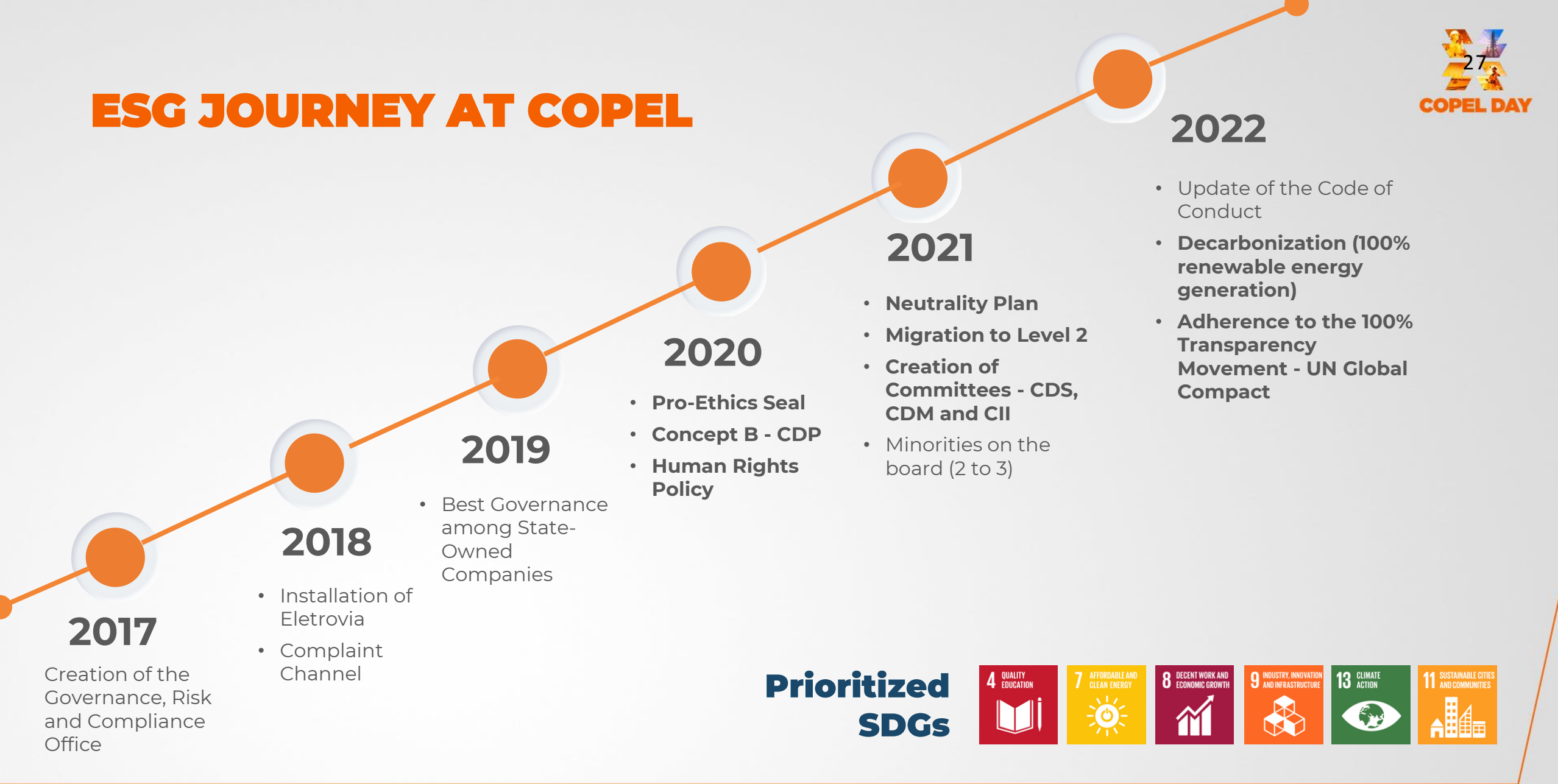
VICENTE LOIÁCONO NETO

DIRECTOR OF GOVERNANCE, RISK AND COMPLIANCE

ANA LETICIA FELLER

DIRECTOR OF BUSINESS MANAGEMENT

ESG JOURNEY AT COPEL



ESG at Copel

The ESG theme is one of the pillars of Copel's culture, being decisive in our strategic reference

Goal to neutralize direct emissions by 2030

Established the Carbon Neutrality Plan based on
4 Pillars



Setting goals



Decarbonization



**Alternatives to
Compensation +
Opportunities (I-REC)**



**Neutrality
embedded in the
strategy**

COPEL 2030 100% RENEWABLE



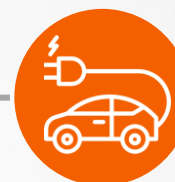
COMMITMENTS



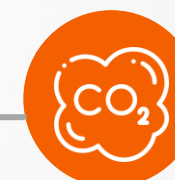
THERMAL ELECTRIC DIVESTMENT: UEGA



**LEVERAGE GROWTH:
+ SOLAR / WIND POWER**



**SUSTAINABLE OPERATION:
ELECTRICATION OF THE
VEHICLE FLEET**



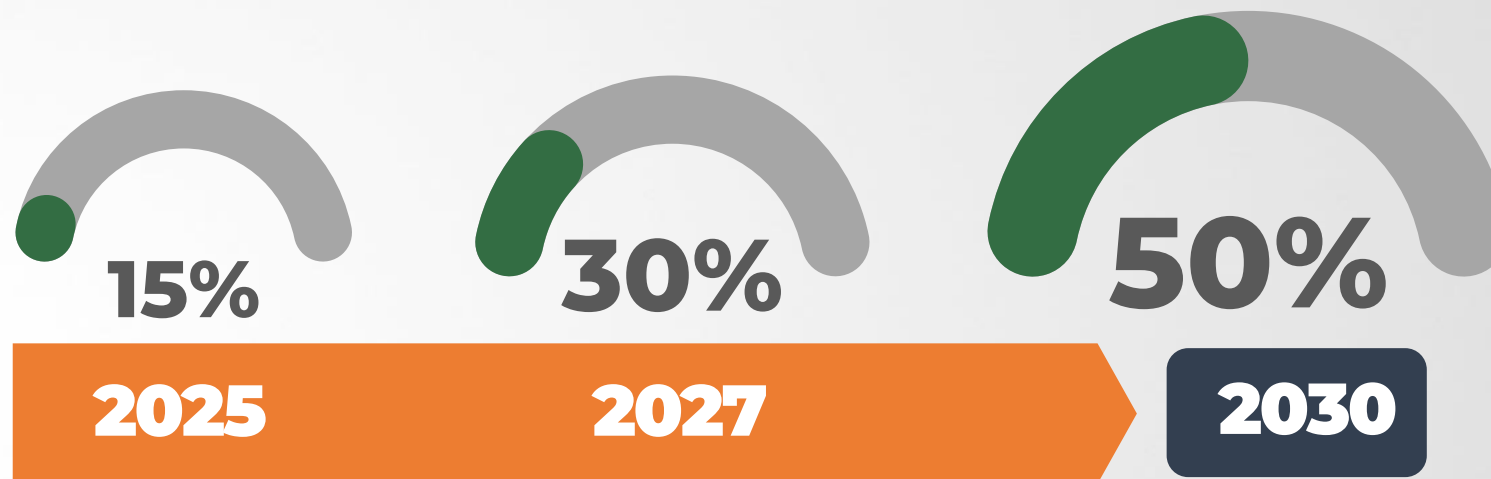
**ZERO EMISSIONS IN 2030:
RESIDUAL OFFSET**



ELETRICAL FLEET

Innovation and Mobility

Light electric vehicles gradually introduced into the fleet



SUSTAINABLE FACILITIES

Zero and offset emissions



**Headquarters and 6
administrative centers
with WELL Certification by
2030**



**WELL Certification is based on monitoring the
impacts of buildings on the health and well-
being of employees**



Air



Water



Food



Light



Health



**Well-
being**



Mind

Aligned with the low carbon economy

Energy consumed in branches, administrative
buildings and operational units (SE, plants)
generated and offset by Copel - solar energy by 2030

Copel Distribuição's solar power generation
farm

Solar panels in the reservoirs of hydroelectric
plants

30% OF THE BONUS LINKED TO ESG GOALS

10%

Neutrality plan + sustainability performance (CSA/DJ Assessment)



10%

Internal Controls Indicator



10%

Occupational Health and Safety Indicator



ZERO fatal accidents with own workforce and third parties

PRIORITIZATION OF SDGs AT COPEL

2000

Pioneer in the electricity sector as a signatory of the Global Compact

2018

Prioritization of the Electricity Sector SDGs



PRIORITIZATION OF SDGs AT COPEL

Ensuring inclusive and equitable education

Support Projects | University education

- Technological Update of Laboratories
- Scholarships for quota holders - federal state
- Internship vacancies at Copel

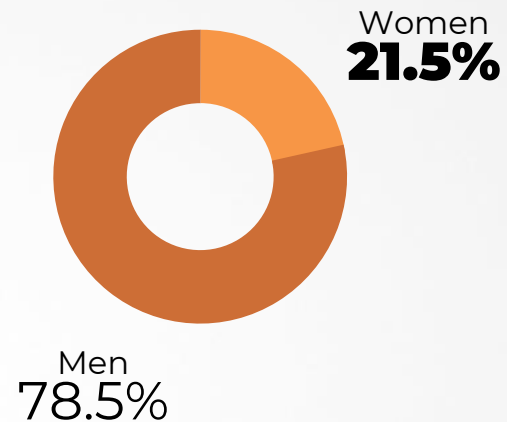
Study Projects

- Climate change
- Biodiversity
- Diversity, etc.

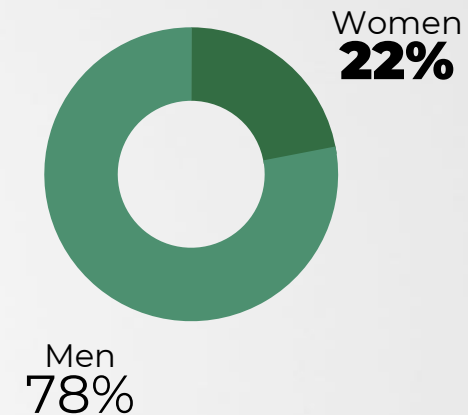


40% INCREASE IN THE NUMBER OF WOMEN IN HIGH LEADERSHIP BY 2025

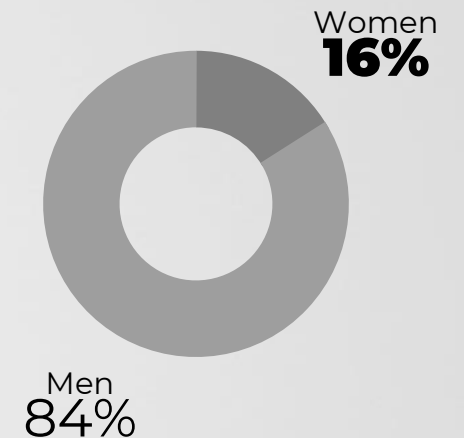
General staff



Management staff



Leadership staff



Women's Leadership Development Programs



WOMEN'S LEADERSHIP DEVELOPMENT



1. Leadership profile

Balance between affectivity and effectiveness



2. Self-Awareness

Awakening Leadership Potential



3. Experience

Opportunities for the exercise of leadership



4. Incentive

Acceleration of diversity in leadership



5. Support

Support network and tools

- **Development**
- **Training**
- **Mentoring**
- **Counseling**

SKILLS DEVELOPMENT

Principles

- Strategic alignment
- Readiness
- Protagonism
- Enhancement of culture

Skills

- **Hard skills:** solutions, customers and performance management
- **Soft skills:** collaborative work, effectiveness and affectivity



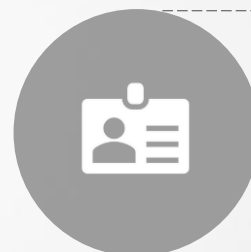
Global Leadership

- Improvements
- New skills
- Inspiring Leadership



Female Leadership

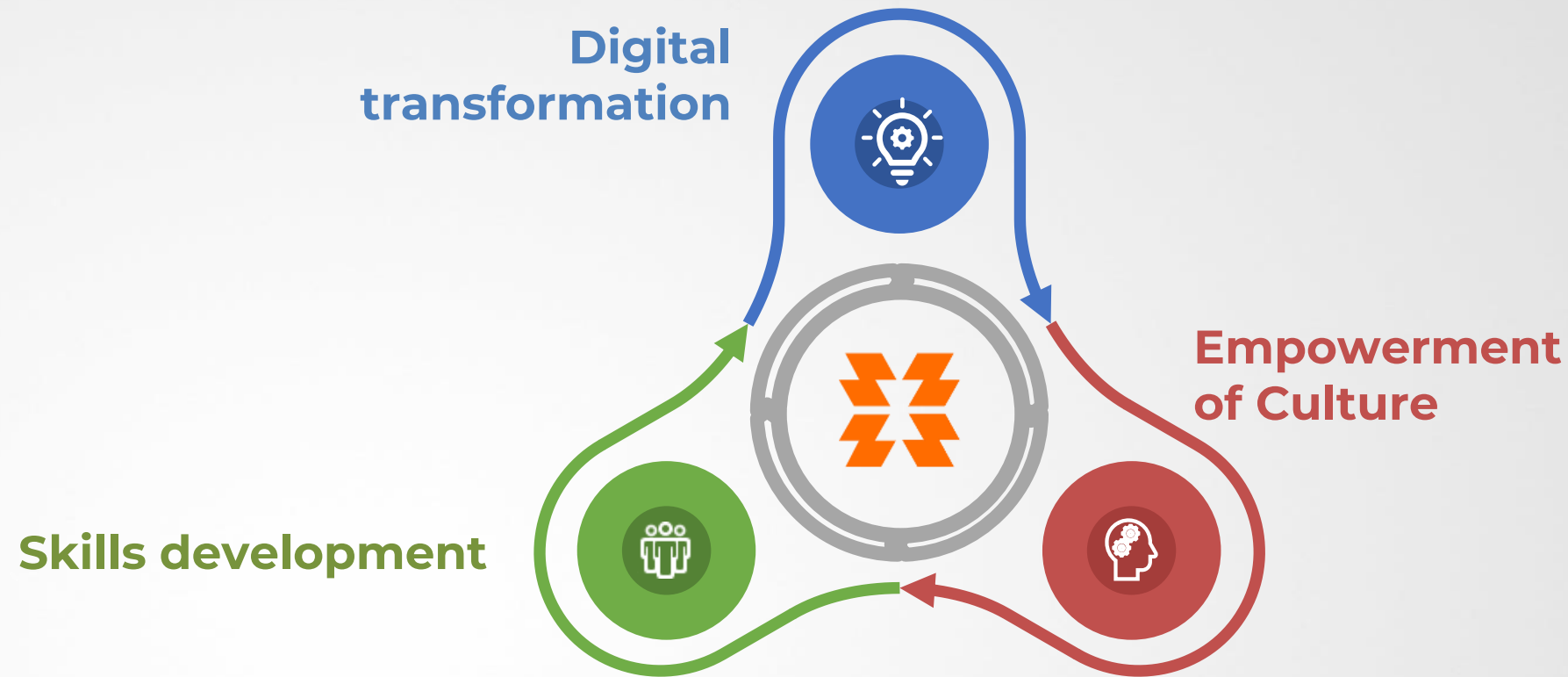
- Empowerment
- Development
- Mentorship
- Counseling



Collaborators

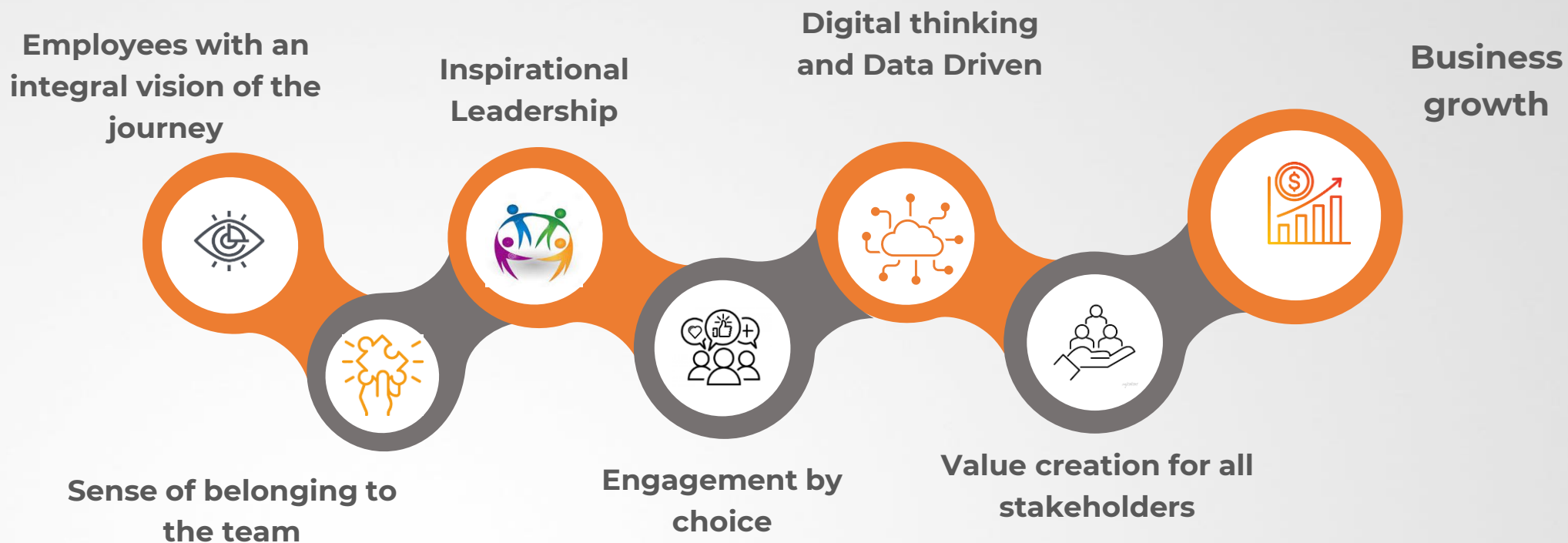
- Technical development
- Performance management
- Engagement

Moving into new frontiers and supporting strategic growth...



EMPOWERMENT OF CULTURE

ASPECTS OF CULTURE TO BE ENCOURAGED



Ambiente colaborativo



Ambiente inovativo

DIGITAL TRANSFORMATION



**Operacional
Efficiency**

Growth

**Customer
Experience**

Application of cutting-edge technologies

**Digital
Channels**

Robotization

Automation

**Artificial
intelligence**

Lean Vision

Agility

**Data
Driven**

**Big
Data**

Cyber Security

COPEL DAY

11.22.2022

ADRIANO RUDEK DE MOURA

CFO & IRO

NOVEMBER 2022



**2030
VISION**



CPLE
B3 LISTED N2

ISEB3
IBOVESPA B3

IGPTWB3
ICO2B3



Financial Sustainability

1

Cash focus

- Non-core divestments
- Operational efficiency
- Cost Reduction
- Scale Gain



2

Efficient Capital Allocation

- Investment Policy
- > Governance
- Risk Diversification
- RRB (CAPEX DIS)
- M&A (IRR >2 dígitos)



3

Balanced Capital Structure

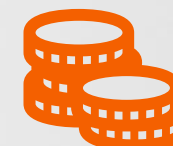
- Investments & Dividends
- Leverage Target
- Debt Funding & Management Plan
- Fitch AAA (target)



4

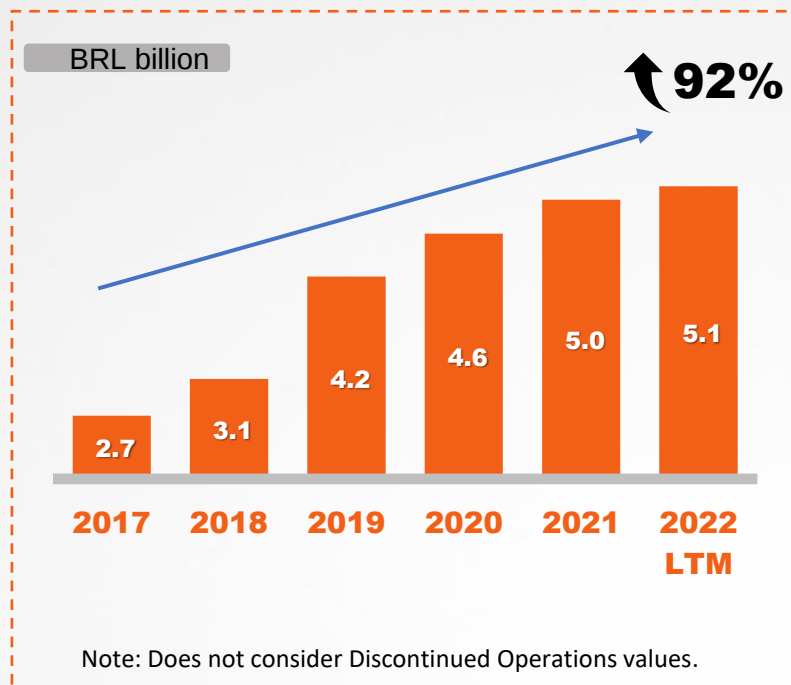
Remuneration of Invested Capital and Value Creation

- Dividend Policy
- *Compatible Dividend Yield*
- **> EV (1º quartile)**



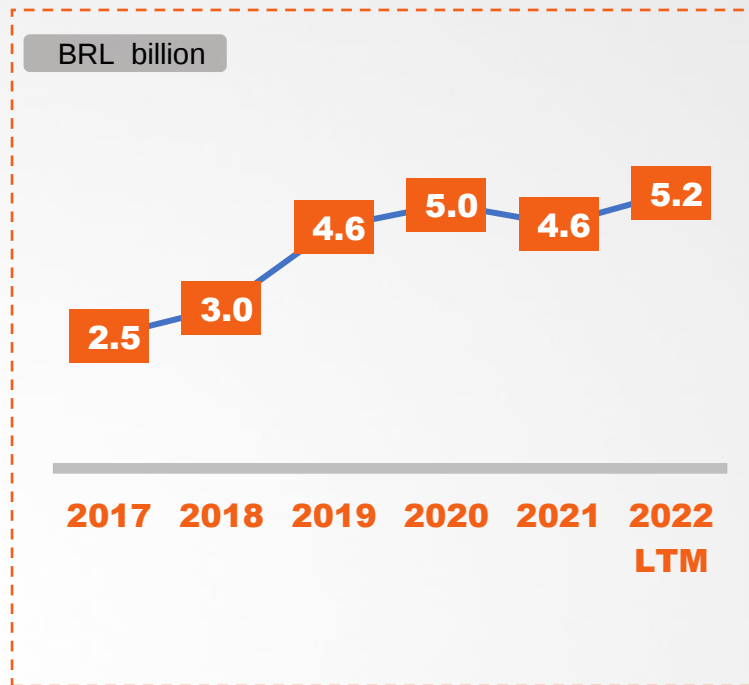
Consistent results even in challenging periods...

ADJUSTED EBITDA



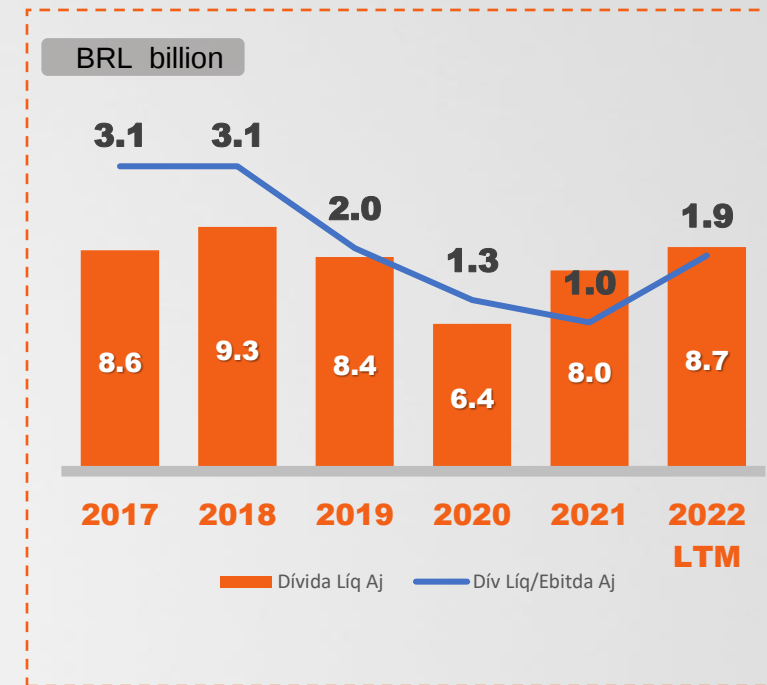
- > Diversified portfolio
- > Efficient execution of the strategy

OPERATING CASH GENERATION



- > Manageable cost reduction
- > Prudent investments

LEVERAGE (ADJUSTED NET DEBT/ADJUSTED EBITDA*)

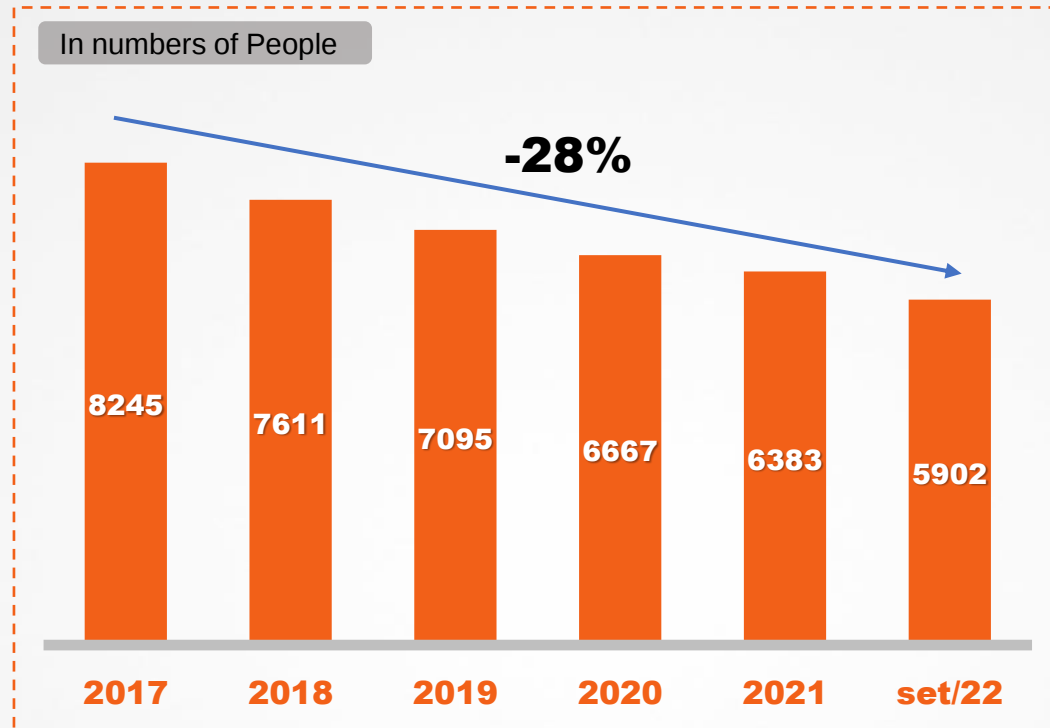


- > Discipline in financial management

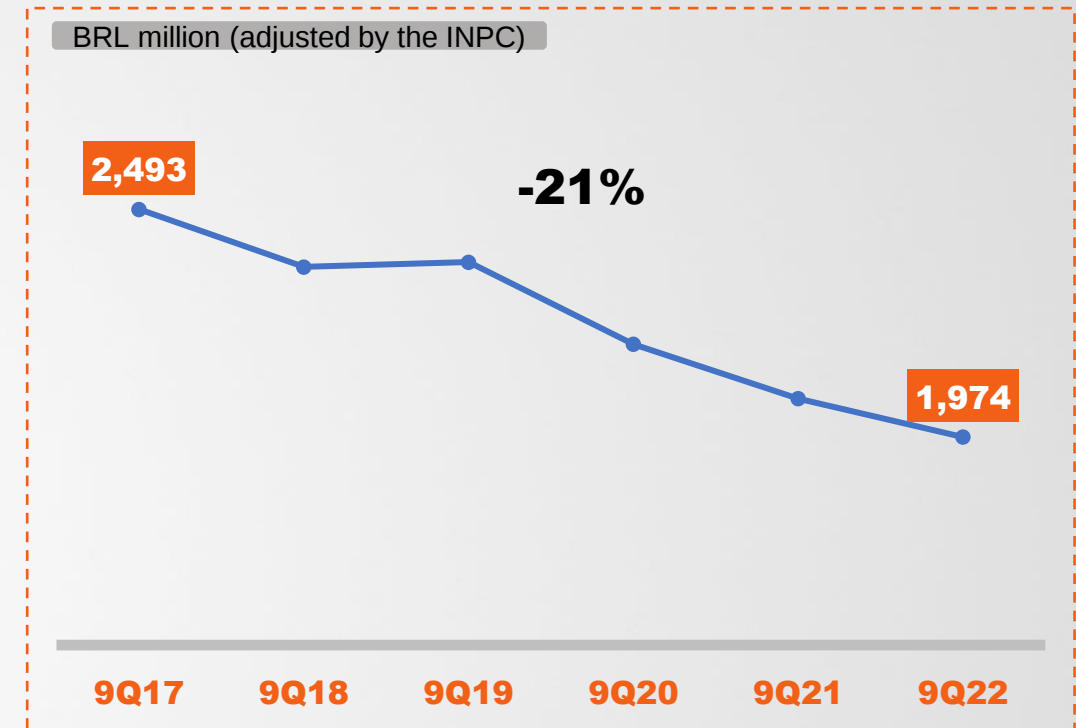
Operational Efficiency and Cost Reduction

Decrease of 2,343 employees - reduction of ~BRL 500 mm in PMSO costs

EVOLUTION OF THE STAFF



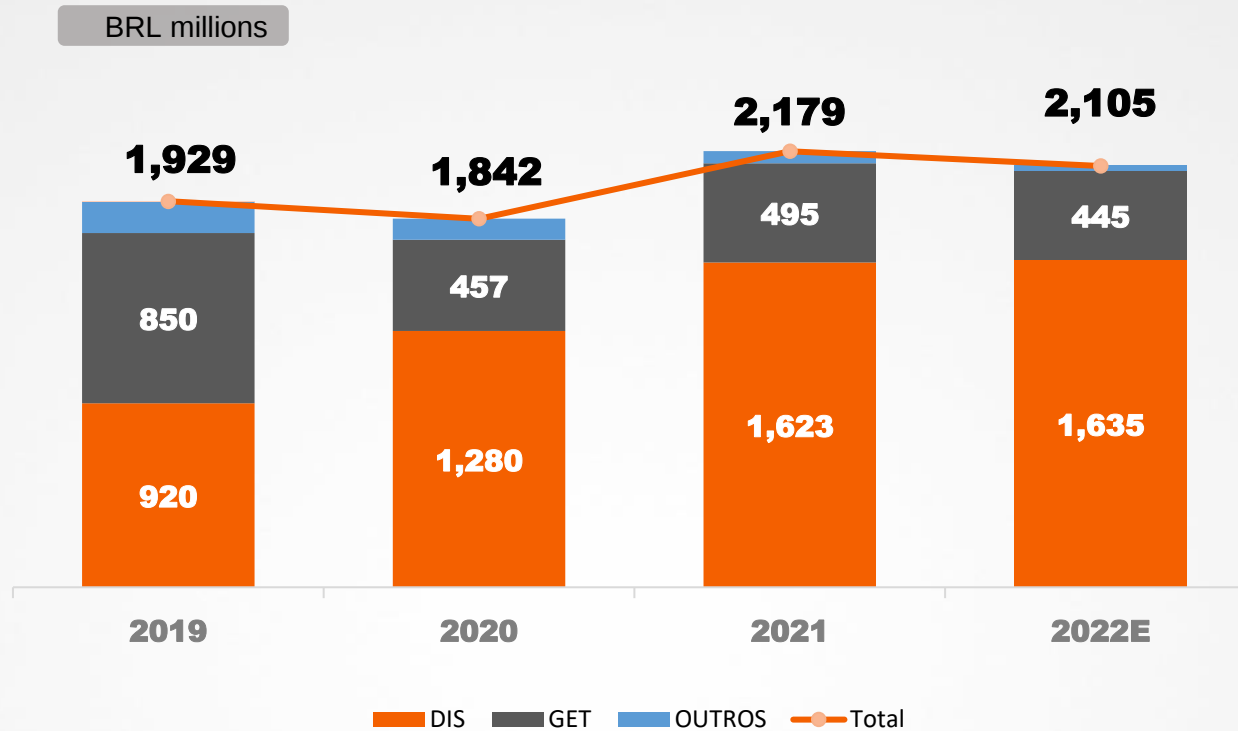
MANAGEABLE COSTS PMSO *



* Does not include provisions and reversals

Investment Program

CAPEX focused on efficiency and value creation



Note: Investment program does not include acquisitions of Vilas, Aventura and SRMN wind farm complexes.

Discipline in capital allocation

- ✓ BRR (CAPEX DIS) +76% +3.5 bi
- ✓ SHP Bela Vista
- ✓ Vilas Wind Farm Complex
- ✓ Jandaira Wind Farm Complex
- ✓ Aventura and SRMN Wind Farm Complexes (next years)

IRR > 2 digits

Capital Structure Optimization



Adequate leverage reduces the cost of capital of the business



Maintenance of 'AAA' Bra Rating by Fitch



Average cost of debt: 9.89%

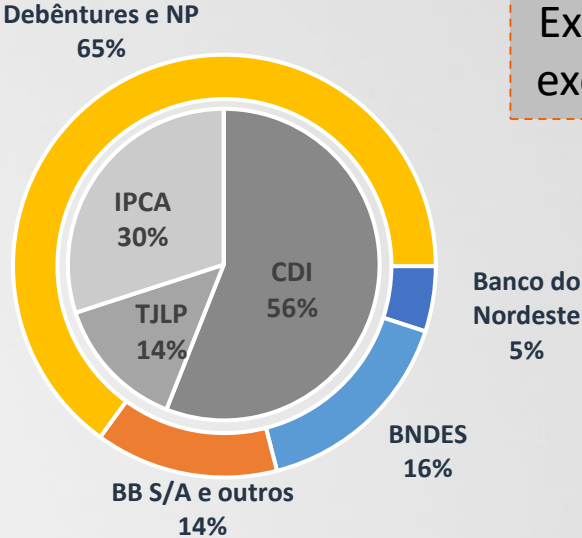


Duration: 2.8 years
Average term: 3.9 years

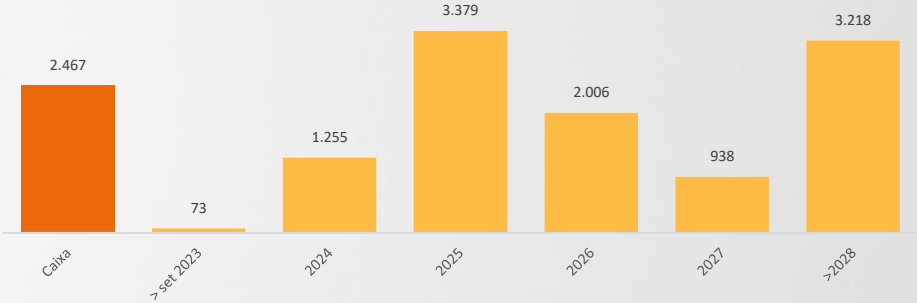


Increased Competitiveness in New Projects and Greater Return to Shareholders

debt indexes



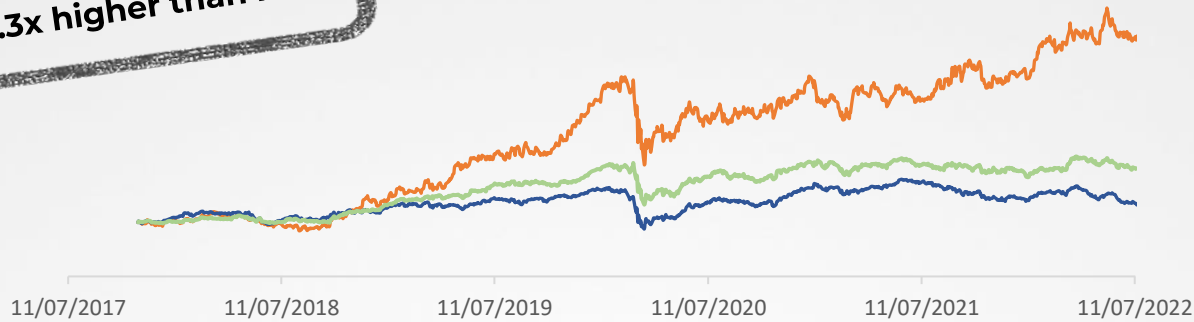
Amortization



Opportunities for Value Generation

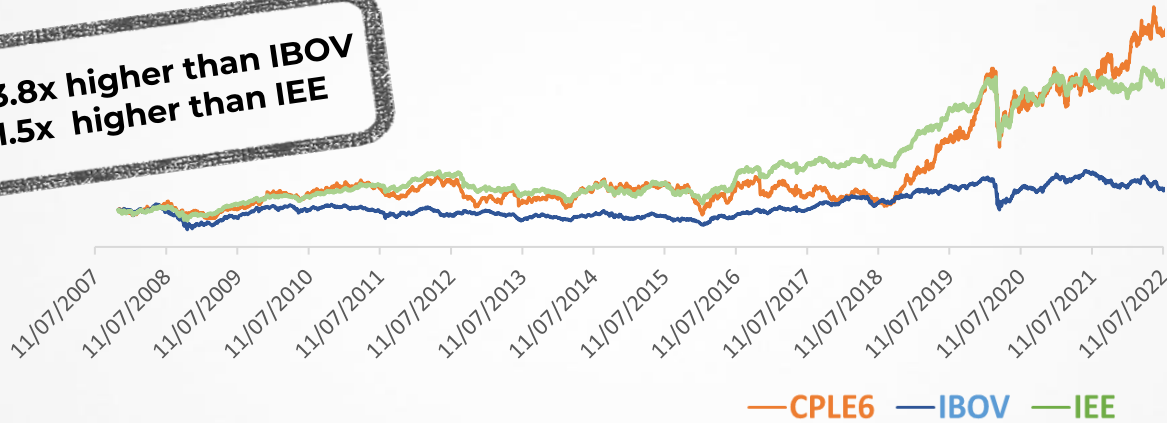
3.2x higher than IBOV
2.3x higher than IEE

CPEL6 x IBOV x IEE - 5A
(Base 100: 07/11/2017)

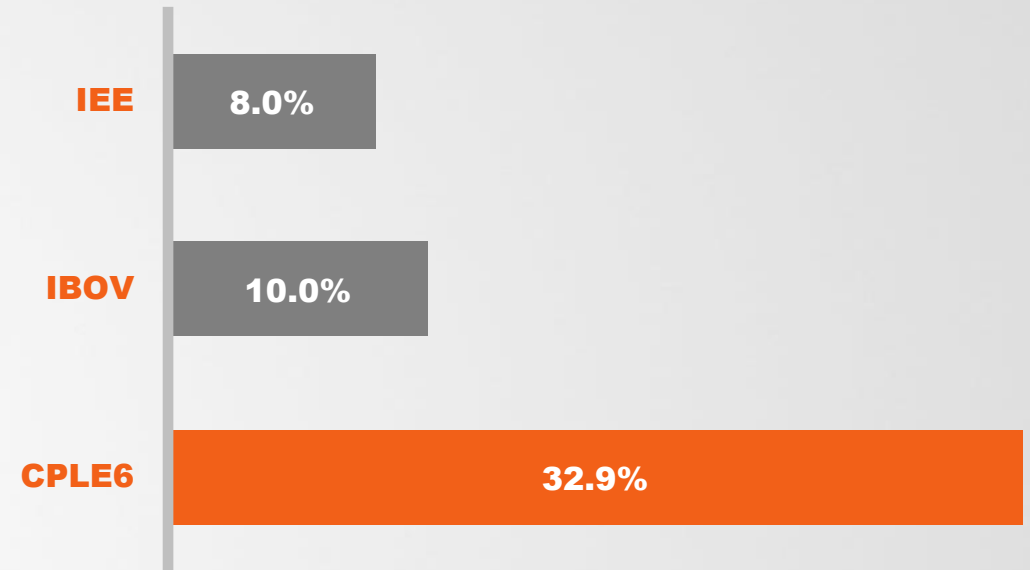


3.8x higher than IBOV
1.5x higher than IEE

CPEL6 x IBOV x IEE - 10A
(Base 100: 11/07/2007)



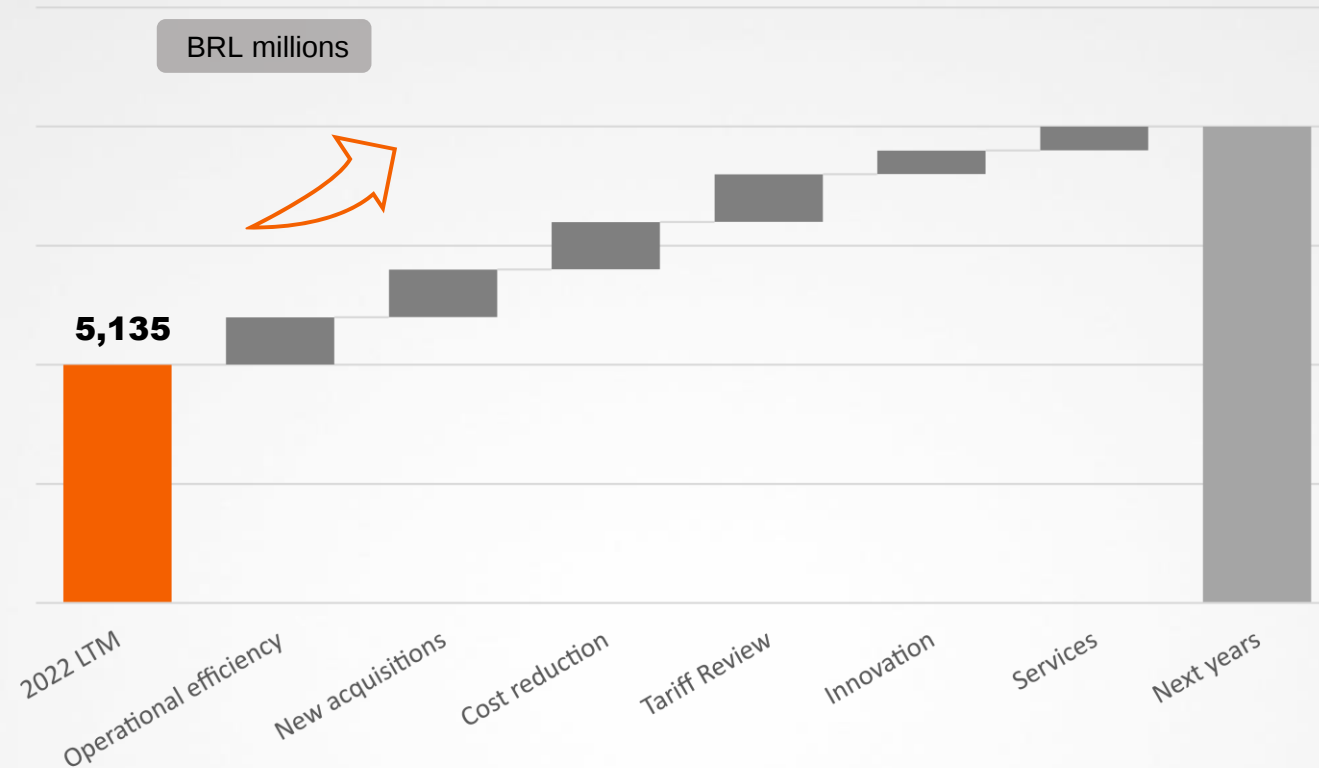
Stock performance in 2022*
above major indices



* Basis: 11/07/2022

Opportunities for Value Generation

EBITDA growth



Avenues of growth



Distribution



Renewable Generation



Transmission



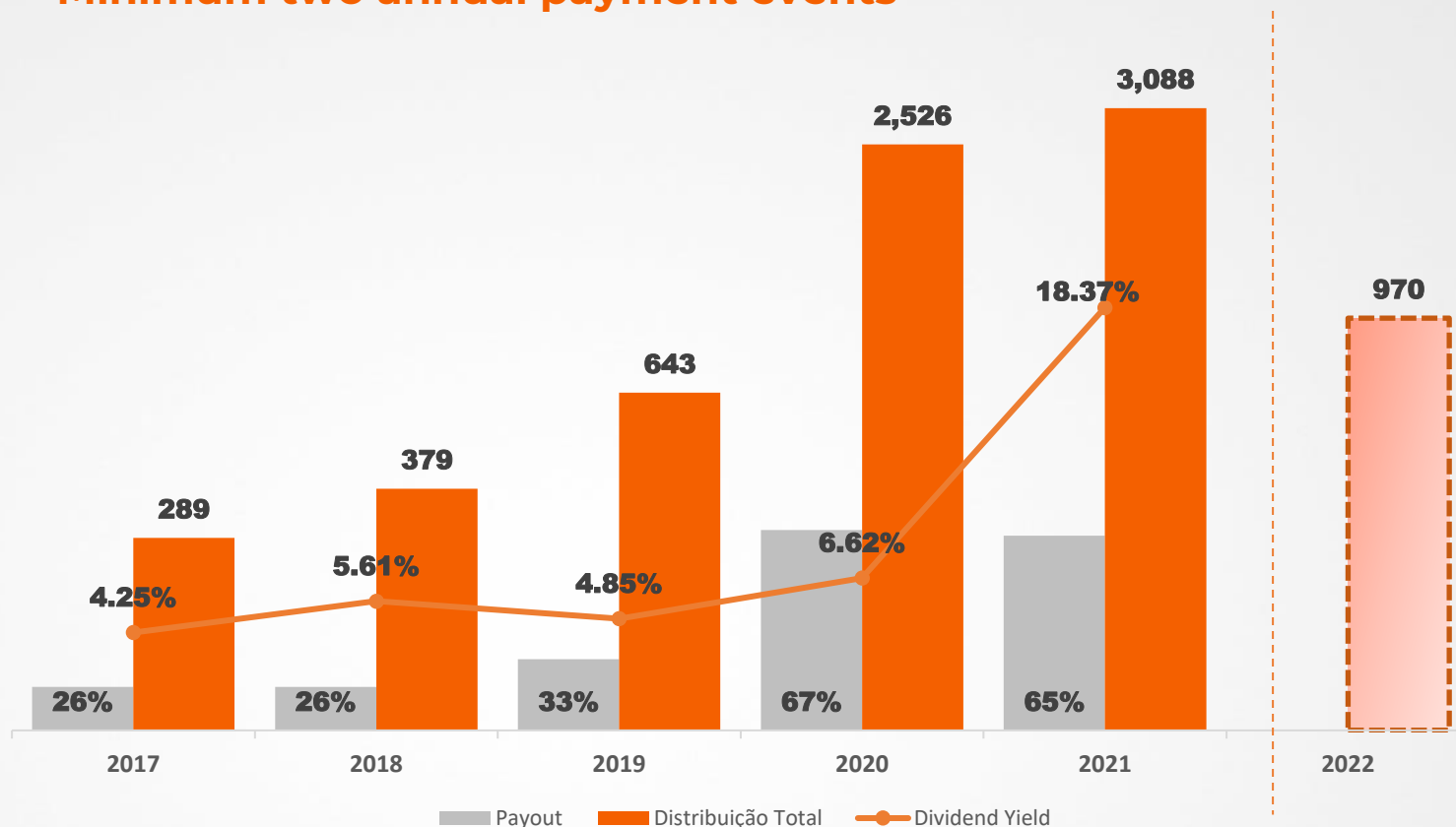
Services and Innovation

+ allocation
of capital

- allocation
of capital

Dividend Policy

- **Financial Leverage Ratio (Net Debt/EBITDA)**
- **Available Cash Flow**(Cash generated by Operating activities, less net cash used by investing activities)
- **Minimum two annual payment events**



“EX” Date: 11.22.2022

Interest on equity declaration

- R\$ 600 million on 11.30.2022
- R\$ 370 million until June/2023