

## COMPANHIA PARANAENSE DE ENERGIA



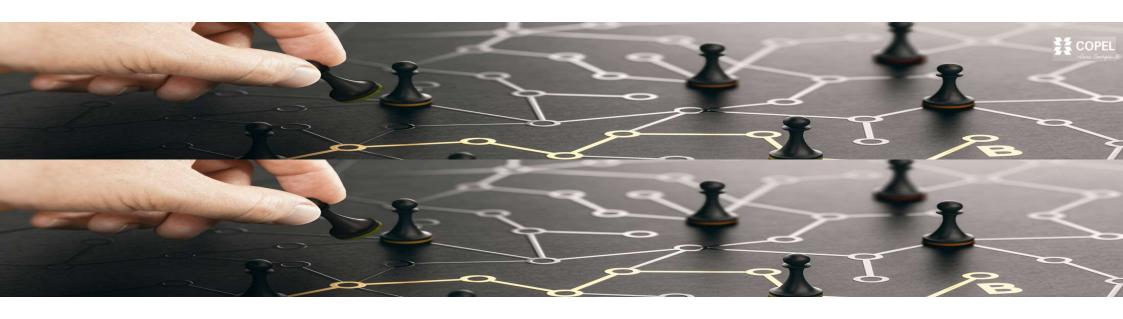
# **DISCLAIMER**

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.





## State owned company with a private mindset

## Transformation into Corporation



Controlling shareholder informs the intention to transform Copel into a company with dispersed capital and without a controlling shareholder (Corporation)



Copel announces a study for the Full Renewal of the HPPs Concessions and eventual Primary Public Offering of Shares aiming at the payment of Grant



Controlling shareholder requests a single hiring of advisors and consultants, aiming at efficiency and optimization of costs



Copel signs
"ACT" and
announces hiring
of specialized
advisory services
to structure the
offer and change
the corporate
structure



Valuation and due diligence work in progress by Copel and specialized advisory services; Definition of the Concession Bonuses of the other plants by the MME



Completion of the valuation and submission to the controller and the TCE for analysis

Nov/22

Dec/22

Dec/22

Jan/23

Mar-Apr/23

• • •



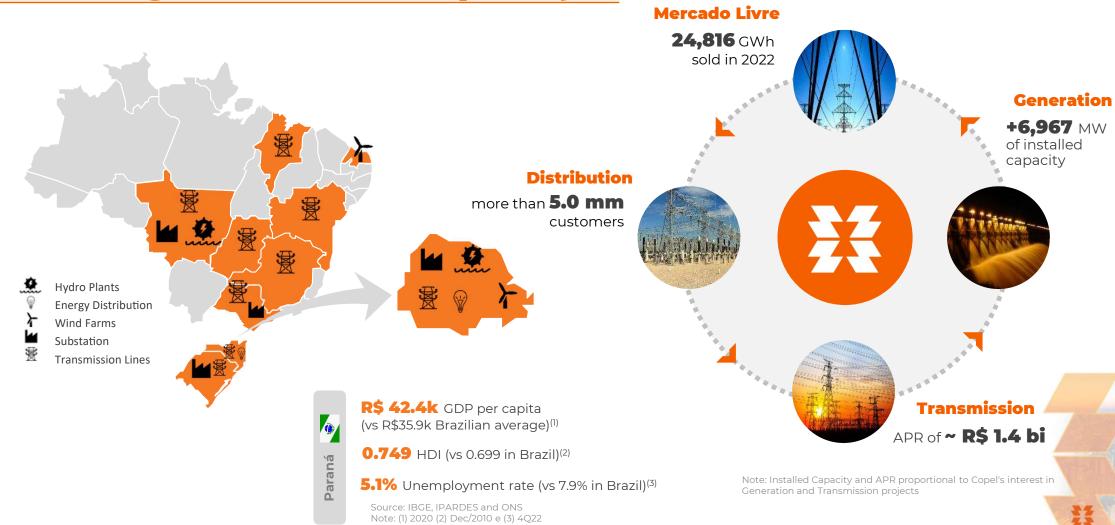
## **Consistent Trajectory**

- 1 Integrated and relevant company in the 4 business (G, T, D and C)
- 2 Financial Sustainability and Dividend Policy
- 3 Advances in ESG and Innovation Programs
- 4 Core Business Focus and Investment Policy
- 5 Operational Efficiency
- Recognition Valor 1000 Award and AAA rating on the Fitch scale

## **Consistent Trajectory**

- 1 Integrated and relevant company in the 4 business (G, T, D and C)
- 2 Financial Sustainability and Dividend Policy
- 3 Advances in ESG and Innovation Programs
- 4 Core Business Focus and Investment Policy
- 5 Operational Efficiency
- 6 Recognition Valor 1000 Award and AAA rating on the Fitch scale

## Integrated Company



## Copel 2030

Vision 2030

#### **COPEL + ENERGY**

Among the largest integrated energy 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 the customer experience

Fundamentals and Pillars

#### **DECARBONIZATION (ESG)**

Decarbonize 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**

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

Strategic objectives 2030

Generation plants 100% renewable with + 2GW

Transmission:
growth
exploring
synergy with
Distribution
and
Generation

Among the largest national DISCO growth of the RRB and 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 offer of innovative and digital services



## **Consistent Trajectory**

- 1 Integrated and relevant company in the 4 business (G, T, D and C)
- 2 Financial Sustainability and Dividend Policy
- 3 Advances in ESG and Innovation Programs
- 4 Core Business Focus and Investment Policy
- 5 Operational Efficiency
- Recognition Valor 1000 Award and AAA rating on the Fitch scale

## Financial Sustainability



#### Focus on cash flow

- Non core divestments
- Operational Efficiency
- Cost Reduction
- Gain of Scale





### Efficient Capital Allocation

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





### Balanced Capital Structure

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





#### Return on Invested Capital and Value Creation

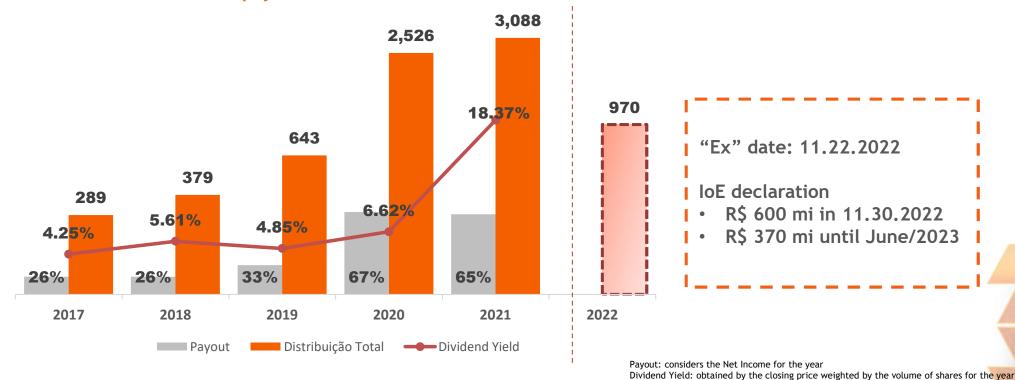
- Dividend Policy
- Compatible Dividend Yield
- > EV (1° quartile)





## **Dividend Policy**

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



Partial amount referring to 2022: Proceeds approved at the AGE held on 11.21.22

## **Consistent Trajectory**

- 1 Integrated and relevant company in the 4 business (G, T, D and C)
- 2 Financial Sustainability and Dividend Policy
- 3 Advances in ESG and Innovation Programs
- 4 Core Business Focus and Investment Policy
- 5 Operational Efficiency
- Recognition Valor 1000 Award and AAA rating on the Fitch scale

## **ESG** Journey

2020

2019

Governance Owned Companies

2021

Pro-Ethics Seal

Human Rights

**Policy** 

Concept B - CDP

- Neutrality Plan
- Migration to Level 2
- Creation of Committees - CDS, CDM and CII
- Minorities in CAD (2 to 3)

2022

- Update Code of Conduct
- Decarbonization (generation of 100% renewable energy)
- Accession 100% **Transparency Movement - UN Global** Compact

2018

- Eletrovia installation
- Reporting Channel

2017

Creation of the

Board

Governance, Risk and Compliance

 Better among State-

> **Priority SDGs**











## ESG - Innovation and Sustainability

#### Copel Volt Program



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

#### **ESG Commitments**



Divestment in thermoelectric plants



Leverage growth:

+ solar / wind power plants



Sustainable operation: fleet electrification



Zero emissions by 2030: compensation for the residual



## **Consistent Trajectory**

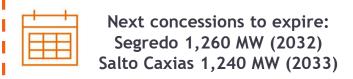
- Integrated and relevant company in the 4 business (G, T, D and C)
- Financial Sustainability and Dividend Policy
- Advances in ESG and Innovation Programs
- Core Business Focus and Investment Policy
- Operational Efficiency
- Recognition Valor 1000 Award and AAA rating on the Fitch scale

## Focus on Core Business

#### Renewal of Concession

#### Governador Bento Munhoz da Rocha Netto Power Plant (FDA)

- Perspective of concession renewal for another 30 years
- GSF reconciliation: concession expires on Dec/24
- Deadline for disposal of control: 12 months before the end of the concession
- Definition of Granting Bonus: BRL 1.8 billion
- Wacc: 8.27% and Energy Price: BRL 177.56



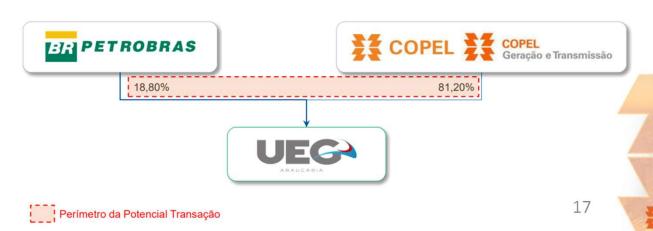


## Focus on Core Business

#### Divestment in UEGA

- UEGA is an Independent Power Producer ("IPP"), with a gas-fired generation plant (combined cycle), fully operational since 2002
- Strategically located in Araucaria (PR), close to the Bolivia-Brazil gas pipeline (GASBOL)
- Total installed capacity of 484 MW, with 2 gas turbines and 1 steam turbine
- Joint Sale Agreement with Petrobras (transaction includes 100% of the Company's shares)



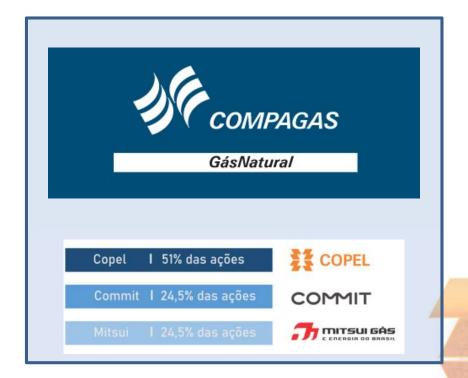


## Focus on Core Business

#### Compagas

#### **Concession Renewal**

- The 30-year concession renewal agreement was signed in Dec/2022
- Adoption of the price-cap regulatory model
- WACC of 9.125% p.y.
- Initial Net Regulatory Remuneration Base (RRB) of BRL 647.8 million
- Granting Bonus of BRL 508.0 million\*
- Total estimated Capex of R\$ 2.5 billion to be carried out over 30 (thirty) years;
- Tariff adjustment based on the IPCA;
- Concession expires in 2054.
  - \* Payed in 4Q22.



## **Investment Policy**

#### **STRATEGY**

#### **HIGHLIGHTS**



**Distribuition** 

Increase Investments in Copel Distribuição's Grid 5th Tariff cycle ABR growth (from R\$4.9bn to R\$8.4bn)





Renewable

Investments in brownfield wind and solar power plants

Туре	Energy	Location	Size
Brownfield		Rio Grande do Norte	< than 150 MW
	Projects with PPA	RIO GIAIIGE GO NOITE	> than 150 MW
		Others States	< than 150 MW
		Others States	> than 150 MW



**Transmission** 

Upcoming Auction Opportunities

- Prospecting brownfield projects that bring operational synergies
- Own greenfield projects or with partners for execution

## **Consistent Trajectory**

- Integrated and relevant company in the 4 business (G, T, D and C)
- Financial Sustainability and Dividend Policy
- Advances in ESG and Innovation Programs
- Core Business Focus and Investment Policy
- **Operational Efficiency**
- Recognition Valor 1000 Award and AAA rating on the Fitch scale

## **Process Control**



#### SHP Bela Vista

- Completion in 2021: 2 years earlier
- Installed Capacity of 29 MW
- Investiments of R\$ 224 million
- Generating enough energy for 100,000 people





#### Jandaíra Wind Complex

- Entry into commercial operation in 2022, with significant anticipation
- Energy traded at the 30th LEN, with supply starting in Jan/25
- Installed Capacity of 90.1 MW
- Assured Energy of 46.7 MWm
- Capex of BRL 411 million (Amount foreseen in the business plan)

## "Transformação" Program





Reduction of overtime and kilometers driven

Reduction of Non-Technical Losses and PECLD

Reduction of DEC/FEC Reinbursements

**Quality Improvement** 

416 thousand smart meters installed until Sep/22

#### ~R\$ 49 Million/year

Level 1

#### Level 2







## **Consistent Trajectory**

- 1 Integrated and relevant company in the 4 business (G, T, D and C)
- 2 Financial Sustainability and Dividend Policy
- 3 Advances in ESG and Innovation Programs
- 4 Core Business Focus and Investment Policy
- 5 Operational Efficiency
- Recognition Valor 1000 Award and AAA rating on the Fitch scale

## Recognition

#### Valor 1000 Award

Recognition for performance in its business activities and for its actions to protect the environment, social activities and company management

#### **Evaluated Criteria:**

- Net Revenue
- EBITDA Margin
- Equity Return
- Average Revenue Growth
- Financial Leverage
- Interest Coverage







A melhor empresa de energia do Brasil em 2022

#### Reaffirmation of AAA rating by Fitch

Preservation of the rating of Copel and its Subsidiaries



#### Highlights:

- ✓ Strong Business Profile
- ✓ Robust Cash Generation
- ✓ Efficiency Gains in Distribution
- ✓ Manageable Hydrological Risk
- ✓ Conservative Financial Leverage



## Financial Highlights

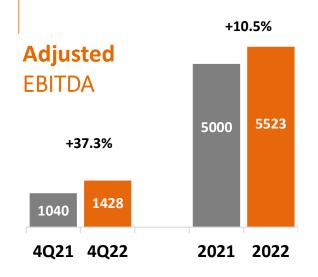
4Q22 RESULTS



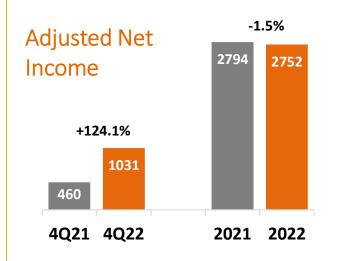


## **FINANCIAL KPIs**

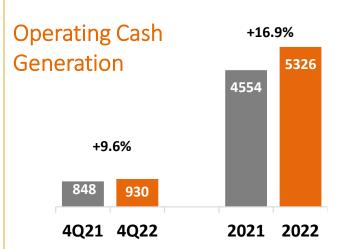
Solid results reflect a decrease in energy purchase and manageable costs



Improvement of the hydro system < power purchase and PMSO reduction

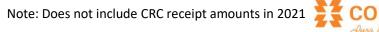


Improved EBITDA and JCP ownership x increase in financial expenses and depreciation



Cash generation in the quarter impacted by reduced energy consumption at DIS

Note: Does not include Copel Telecom results



## ADJUSTED EBITDA non-recurring effects

#### Main non-recurring effects:

- Impairment UEGA: BRL 144 million
- Arbitration litigation reclassification: BRL 453 million
- Reversal of PIS/COFINS Credits (Law 14,385/22)

					R\$	million
Adjusted EBITDA	4Q22	4Q21	Δ%	2022	2021	Δ%
EBITDA	902.1	942.9	(4.3)	4,217.2	6,528.6	(35.4)
(-)/+ Provision/Reversal of PDI indemnities	-	125.7	-	(8.9)	139.2	-
(-)/+ Fair value in the purchase and sale of energy	(36.9)	37.1	-	(32.7)	35.8	-
(-)/+ Provision for litigation	452.7	30.0	-	452.7	30.0	-
(-)/+ Impairment of generation assets and gas	109.7	(24.3)	-	151.9	(132.3)	-
(-)/+ Energy Overcontracting	-	(71.8)	-	-	(71.8)	-
(-)/+ GSF Reconciliation	-	-	-	-	(1,501.2)	-
(-)/+ Provision for allocation of PIS/Cofins credits and effects	-	-	-	752.4	-	-
(-)/+ Tariff flag account on MMGD and Adhesion to the REFIS/PR	-	-	-	(10.1)	-	-
'(-)/+ Sale of the Headquarters Building	-	-	-	-	(27.9)	-
Adjusted EBITDA	1,427.6	1,039.6	37.3	5,522.5	5,000.4	10.4
(-) / + Equity in earnings of subsidiaries	(148.5)	(126.2)	17.7	(478.6)	(366.3)	30.6
Adjusted EBITDA without earnings of subsidiaries	1,279.2	913.4	40.0	5,043.9	4,634.1	8.8

Note: Refers to Impairment of generation assets (NE 31.4) and includes Write-off of Parts (NE 31.6) and Services (NE 31.3) incurred in the maintenance of TPP Araucária turbines (Major Inspection).





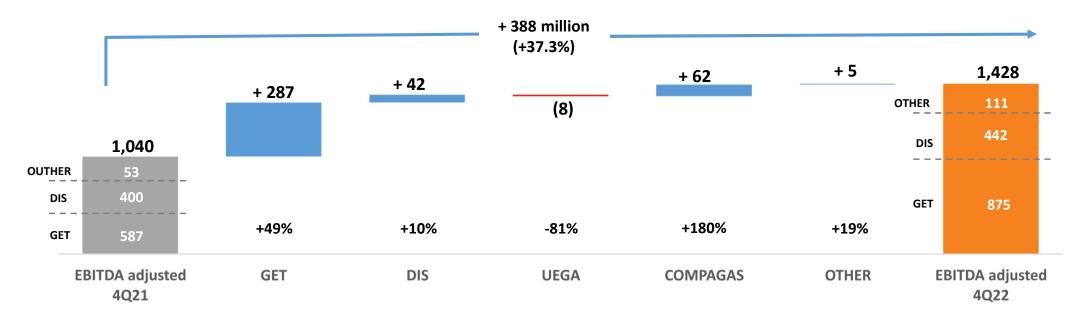
## ADJUSTED EBITDA BY COMPANY

GeT Consolidated (+49.0% 4Q22 vs 4Q21)

- → Improvement in the GSF and PLD +355 mi
- → Earnings in Transmission subsidiaries +60 mi
- Contract asset remuneration -65 mi

DIS (10.4% 4Q22 vs 4Q21)

- → Provisions PLR/PPD +100 mi
- → Reduction in PMSO +36 mi
- ≥ Parcel B value (market) -103 mi

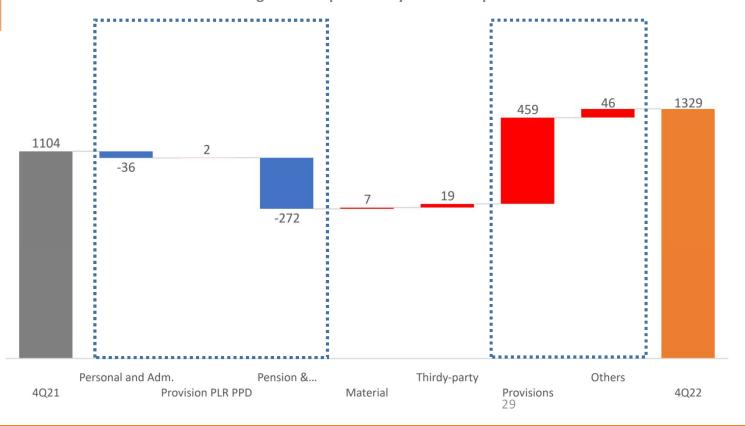




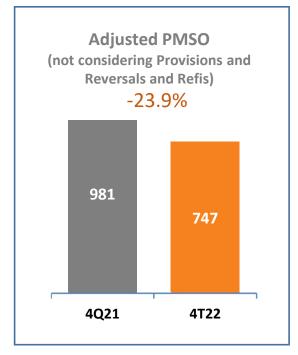


## PMSO-MANAGEABLE COSTS

- ≥ Reduction of 508 employees (PDI in Dec/21) and lower provision for PLR, PPD and PDI
- → Higher Material Expenses (electrical system and security)
- → Higher Expenses with Third-Party Services (>Maintenance of the electrical system)
- → Provision for litigation (Reclassification of arbitration litigation: R\$ 453 million)
- **↗** Others: >CFURH for the greater dispatch of hydroelectric plants and >write-off of deactivated assets





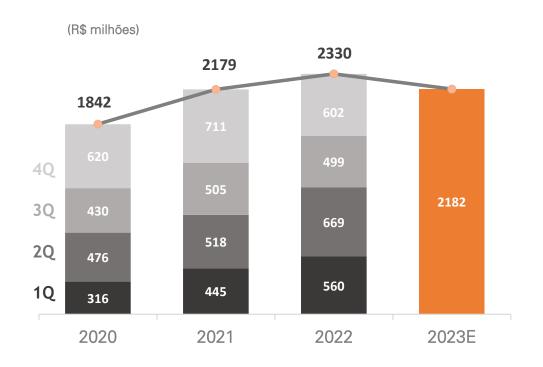


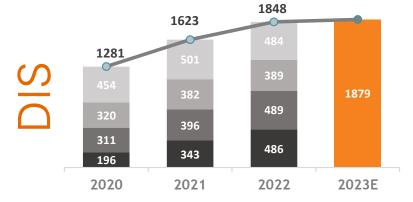


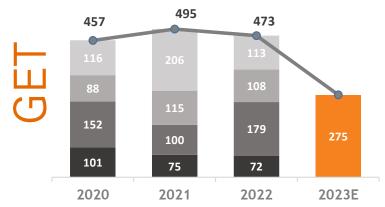


## **CAPEX**

Focus on DISCO's prudent investment plan (Paraná Trifásico, Smart Grid, etc.)

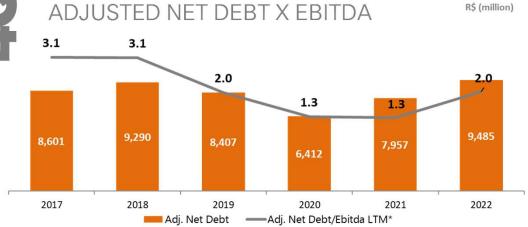








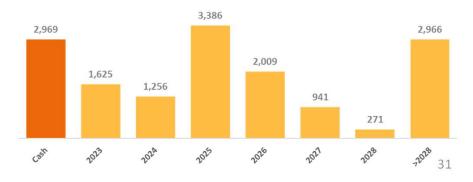
## LEVERAGE AND DEBT

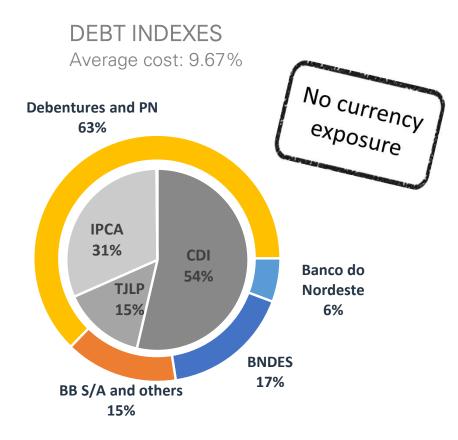


\* does no consider equity in earnings, considers discontinued operations and excludes impairmente effects, GSF renegotiation and effect of PIS/Cofins

#### **AMORTIZATION**

Average term to maturity: 3.9 years









## **EXHIBITS**

## **Capital Composition**

## Shareholder Structure

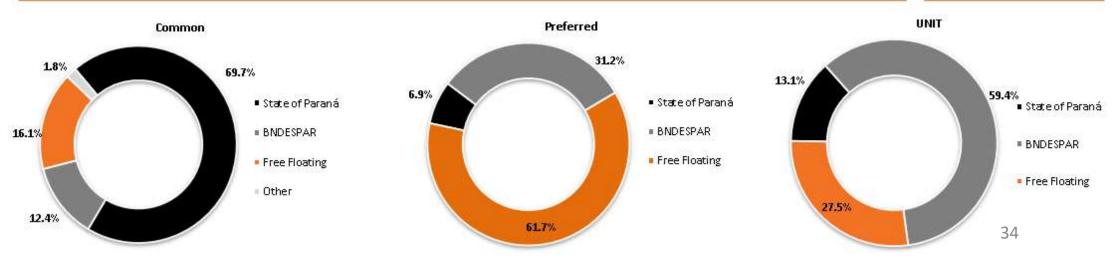


## **Capital Structure**

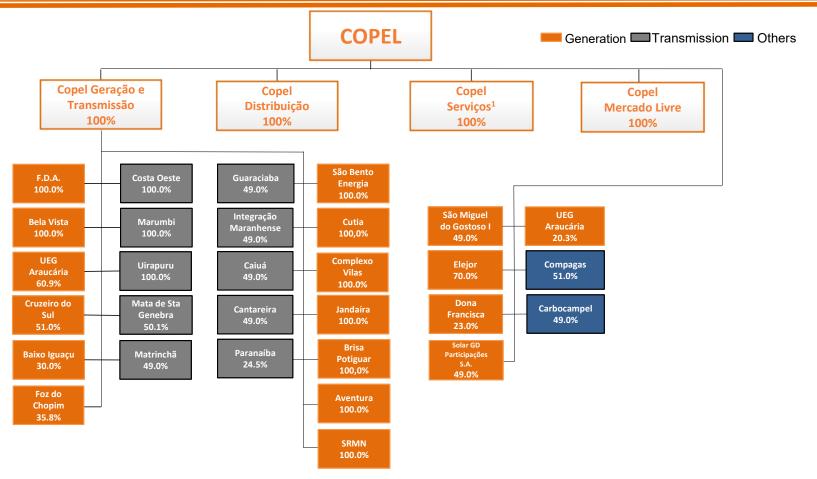
(Dec/22)

Th -----

Thousand share							nd shares	nares		
Shareholders	Common	%	Preferred "A"	%	Preferred "B"	%	TOTAL	%	UNIT	%
State of Paraná	734,298	69.7%	_	-	115,945	6.9%	850,243	31.1%	28,986	13.1%
BNDESPAR	131,162	12.4%		-	524,646	31.2%	655,808	24.0%	131,162	59.4%
Free Floating	170,029	16.1%	675	21.6%	1,037,817	61.8%	1,208,521	44.2%	60,650	27.5%
В3	137,164	13.0%	675	21.6%	905,449	53.9%	1,043,288	38.1%	27,785	12.6%
NYSE	32,643	3.1%	-	-	130,572	7.8%	163,215	6.0%	32,643	14.8%
LATIBEX	222	0.0%	-	-	1,796	0.1%	2,018	0.1%	222	0.1%
Other	18,602	1.8%	2,453	78.4%	927	0.1%	21,982	0.8%	73	-
TOTAL	1,054,090	100%	3,128	100%	1,679,335	100%	2,736,554	100%	220,871	100%
					The state of the s				17/11/12/2015	



## **Organization Chart**



# Operacional Highlights



# Copel DIS



Concession Area 194,854 km²

Distribution Lines
208 thousand km

 Growth rate (%)

 Copel
 Brazil
 South

 Month
 -0.8
 0.6
 -2.4

 Year
 -0.8<sup>1</sup>
 0.6
 -2.4

**GRID MARKET** 

1. considering the effects of MMGD, decrease by 2.1%. Source: Resenha Mensal EPE



Investiments made (between 2016 e 2020)

~ R\$ 4.3 billions in the tariff cycle

Customers

5,011,555

**Substations** 

389

Employees 4,257

Net Remuneration Basis from R\$ 4.95 to R\$ 8.4 billion



"Transformação" Program

~R\$ 3.9 billions by 2025



**Bad debt coverage** 

~R\$ 92.8 millions

Tariff Readjustment 2022 Average effect of 4.90%

#### **ANEEL Award 2022**

Best ombudsman in Brazil



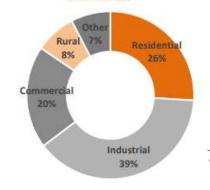
#### **ABRADEE Award 2022**

Best in Management and in the South



#### **BREAKDOWN BY SEGMENT**

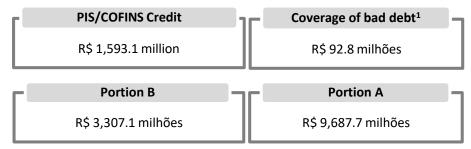
**Total Market** 



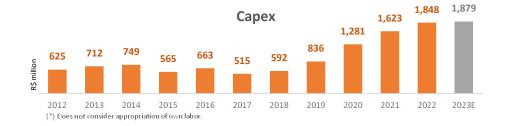




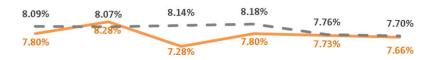
#### Tariff Readjustment 2022 – Copel Distribuição Average effect of 4.90%



<sup>&</sup>lt;sup>1</sup> It became part of Portion A from the 2017/18 cycle.



#### **Total Losses**



2017 2018 2019 2020 2021 2022

——Total Losses/Power Grid - %

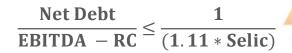
——Regulatory Level - %

#### TARGET FOR CONCESSION MAINTENANCE

#### **Quality in the Power Eletric Distribution**

#### **Economic and Financial Efficiency**







## 4Q22 RESULTS 4Q22 4Q21 Δ% EBITDA 745.9 561.9 32.7 Adjusted EBITDA 855.6 576.8 48.3

ASSETS IN OPERATION								
Main HPPs	Instaled Capacity (MW)	Assured Energy (MW med)	Expiration of Concession					
FDA	1,676	575	12/21/2024					
Segredo	1,260	558	09/252032					
Caxias	1,240	575	03/20/2033					
Colíder	300	178	01/30/2046					
GPS	78	31	01/03/2053					
Mauá	184	96	05/27/2047					
Baixo Iguaçu	105	52	12/03/2049					

ACCETC IN ODED ATION

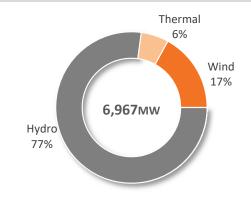
APR 2022/2023 GET R\$ 896.9 million

(100% Copel)

Employees 1,487

(Dec/22)

#### **INSTALLED CAPACITY**



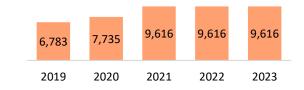
#### Installed Capacity (MW)\*

+8.9% since 2019



#### Transmission Lines (Km)\*

+41.8% since 2019



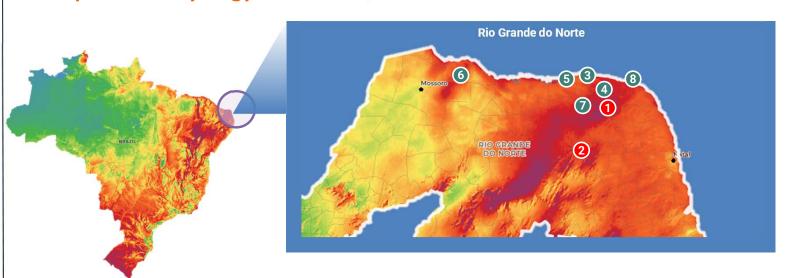
<sup>\*</sup> Proportional to Copel's participation in the project



#### Aventura e Santa Rosa & Mundo Novo - 260.4 MW

Acquisition announced in October/2022

Operational synergy with other Copel wind farms in RN



- 1 Aventura 105.0 MW
- 2 Santa Rosa Mundo Novo 155.4 MW
- 3 São Bento Energia 94.0 MW and Bento Miguel – 132.3 MW
- 4 Brisa Potiguar 183.6 MW
- 5 Cutia 180.6 MW
- 6 Vilas 186.7 MW
- 7 Jandaíra 90.1 MW
- 8 SMG (49% Copel) 108.0 MW

9 farms in operation

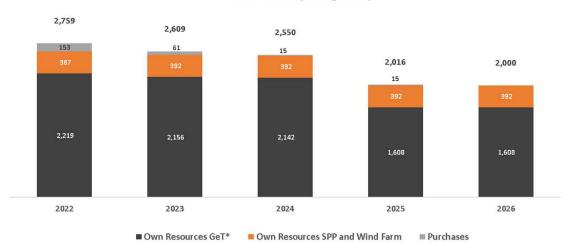
61% recertified capacity factor

260.4 MW of Installed Capacity 120.7 average MW traded in the ACR



#### **Energy Contracting Balance**

#### RESOURCES (average MW)



#### SALES (average MW)





GSF Reconciliation 161 MWm SP89 105 MWm SP100

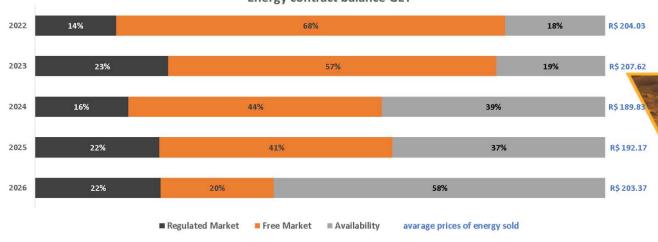
#### Comments:

- 1- Discounting losses and internal consumption.
- 2- Considering the GFs of the wind SPEs constant for all periods.
- 3- Considering constant wind SPE Sales for all periods.
- 4- Considering energy purchases in each period.
- 5 Prices updated according to the contractual readjustment index, from the reference dates until December/2022.
- 6 The GPS CCGF RAG is not considered in the calculation of average prices.
- 7 As of 2025, the FDA is disregarded. Reference Month: December/2022



#### **Energy Contracting Balance**











#### Comments:

- 1- Discounting losses and internal consumption.
- 2- Considering the GFs of the wind SPEs constant for all periods.
- 3- Considering constant wind SPE Sales for all periods.
- 4- Considering energy purchases in each period.
- 5 Prices updated according to the contractual readjustment index, from the reference dates until December/2022.
- 6 The GPS CCGF RAG is not considered in the calculation of average prices.
- 7 As of 2025, the FDA is disregarded. Reference Month: December/2022









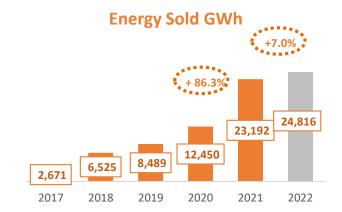
Solid results in 2021 and 2022



8.9% increase in net operating revenue (2022 vs. 2021)



7.0% increase in energy sold (2022 vs. 2021)



# AMONG THE LARGEST IN BRAZIL IN ENERGY SOLD

#### **Customers/Contracts**





Growth in the customer/contract base



Renewable and incentivized energy auctions



Acquisition of 162 average MW (for the period between 2023 and 2036)







## **Investor Relations**

ri@copel.com | +55 (41) 3333-4011













