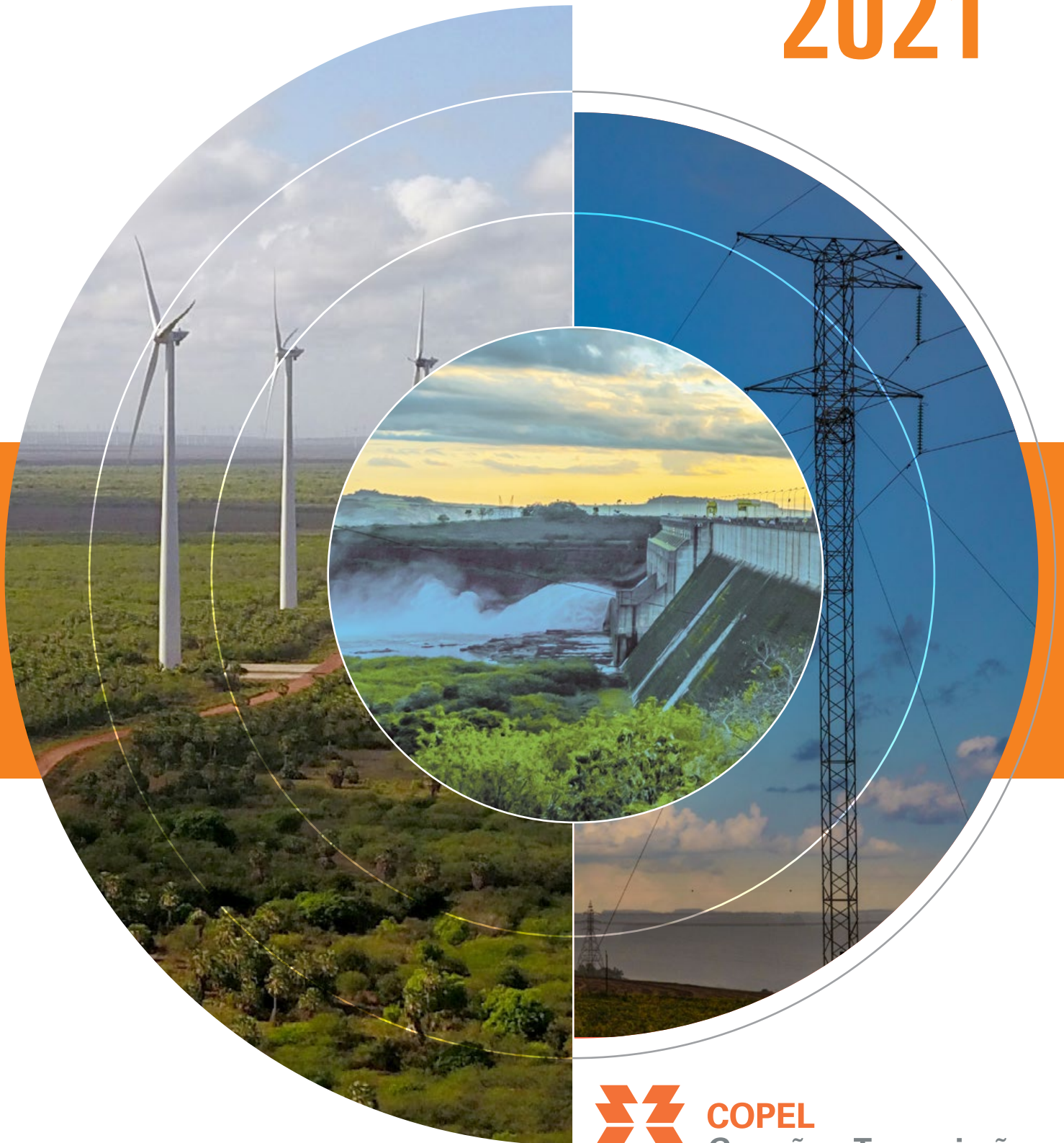


SOCIOENVIRONMENTAL AND ECONOMIC-FINANCIAL

RESPONSIBILITY REPORT

2021



COPEL
Geração e Transmissão

SUMMARY

1. PRESENTATION	5
1.1 Message from the Chief Executive	6
2. GENERAL DIMENSION	9
2.1 About the report.....	10
2.1.1 Relevant Topics	11
2.2 Company profile	15
Action map	16
2.2.1 Market Share	16
2.2.2 Business Model.....	17
2.2.3 Awards and certifications.....	19
2.2.4 ORGANIZATIONCHART-EQUITY PARTICIPATION-12/31/2021	20
2.2.5 Copel GeT in numbers.....	21
2.3 Strategic reference.....	22
2.3.1 Strategic Guidelines - Generation Business.....	23
2.3.2 Strategic Guidelines - Transmission Business	24
2.4 Sustainability Management (ESG)	25
2.4.1 Integrated Management System	26
2.4.2 Voluntary commitments	27
2.4.3 Copel GeT and the Sustainable Development Goals (SDGs)	28
2.5 Responsibility to stakeholders.....	29
2.5.1 Participation in entities	32
2.6 Operational performance.....	35
2.6.1 Macroeconomic analysis.....	35
2.6.2 Regulatory environment	36
2.6.3 Energy flow (in % of GWh)	38
2.6.4 Transformation of the energy sector, energy planning and increased demand.....	39
2.6.5 Operational efficiency	40
2.7 Business segments.....	42
2.7.1 Generation	42
2.7.2 Operation and maintenance (O&M) in generation	44
2.7.3 Energy planning and increased demand	45
2.7.4 Transmission	45
2.7.4.1 Transmission Works	45
3. CORPORATE GOVERNANCE DIMENSION	47
3.1 Corporate governance practices	48
3.2 Governance structure	53
3.2.1 General Assembly	53
3.2.2 Board of Directors (CAD).....	53
3.2.3 Board of Directors of Copel Geração e Transmissão - CAD GeT	53
3.2.4 Fiscal Council	54

3.2.5 Executive Board	54
3.2.6 Statutory Audit Committee	55
3.2.7 CAEGeT Subsidiaries - Statutory Audit Committee for Subsidiaries.	55
3.2.8 Ethics Committee.....	56
3.2.9 Nomination and Evaluation Committee (CIA)	56
3.2.10 Standing Committee for the Disclosure of Relevant Acts and Facts ...	56
3.3 Integrity	57
3.3.1 Conflict of interest.....	58
3.3.2 Anti-corruption practices	58
3.3.3 Communication channels	59
3.4 Audits	61
3.4.1 Internal audit	61
3.4.2 External audit	62
3.5 Risk management	63
3.5.1 Dam safety.....	65
4. ECONOMIC-FINANCIAL DIMENSION	67
4.1 Net operating revenue.....	68
4.2 Operating costs and expenses	69
4.3 Resultado da Equivalência Patrimonial	71
4.4 EBITDA or LAJIDA	71
4.5 Financial result	73
4.6 Indebtedness.....	73
4.7 Net profit	74
4.7.1 Net Profit by Segment	75
4.8 Added Value	76
4.9 Investment program	76
5. SOCIAL AND SECTOR DIMENSION	77
5.1 Internal social aspects	78
5.1.1 Human capital	78
5.1.2 Remuneration and benefits.....	82
5.1.3 Performance management.....	83
5.1.4 Professional development.....	84
5.1.5 Investment in human capital.....	86
5.1.6 Diversity	87
5.1.7 Occupational health and safety.....	91
5.1.8 Internal social indicators	97
5.2 External social aspects	101
5.2.1 Relationship with customers	101
5.2.2 Supplier management	101
5.2.3 Communities	103
5.2.4 External social indicators	112

5.3 Sector aspects	113
5.3.1 Research, development and innovation	113
5.3.2 In Electricity Sector Indicators.....	114
6. ENVIRONMENTAL DIMENSION	115
6.1 Environmental management.....	116
6.1.1 Water use	118
6.1.2 Electricity and fuels	122
6.1.3 Climate change.....	123
6.1.4 Waste management	125
6.1.5 Ecosystems.....	130
6.1.6 Endangered species	137
6.2 Environmental performance indicators	143
6.2.1 Generation-specific indicators	143
6.2.2 Transmission-specific indicators	144
7. SOCIAL BALANCE	145
7.1 Social Balance	146
8. COMPOSITION OF GROUPS RESPONSIBLE FOR GOVERNANCE... 151	
9. GRI CONTENT INDEX	154
9.1 GRI Content Index.....	155
10. ATTACHMENTS	175
10.1 F.D.A. Geração de Energia Elétrica S.A.....	176
10.1.1 Company profile	176
10.1.2 Composition of the Groups Responsible for Governance	178
10.2 Costa Oeste Transmissora de Energia S.A	180
10.2.1 Company profile	180
10.2.2 Operating Performance.....	181
10.2.3 Corporate Governance Dimension	183
10.2.4 Sector aspects	184
10.2.5 Environmental Dimension.....	185
10.2.6 Composition of the Groups Responsible for Governance	185
10.3 Marumbi Transmissora de Energia S.A	186
10.3.1 Company profile	186
10.3.2 Operating performance.....	187
10.3.3 Corporate Governance Dimension	188
10.3.4 Sector aspects	191
10.3.5 Shared management of resources	191
10.3.6 Environmental Dimension.....	191
10.3.7 Composition of the Groups Responsible for Governance.....	192
10.4 Uirapuru Transmissora de Energia S.A.....	193
10.4.1 Company profile	193
10.4.2 Operating performance.....	195
10.4.3 Corporate Governance Dimension	196
10.4.4 Sector aspects	198
10.4.5 Environmental Dimension.....	199
10.4.6 Composition of the Groups Responsible for Governance ...	200
10.5 Credits.....	201



1 PRESENTATION

1.1 Message from the Chief Executive

| GRI 102-14 |

We are pleased to present the Annual Report on Social, Environmental and Economic-Financial Responsibility of Copel Geração e Transmissão S.A. – Copel GeT, referring to the year 2021.

Despite the restrictions imposed by the Covid-19 pandemic still present in 2021, we had positive results and outstanding projects.

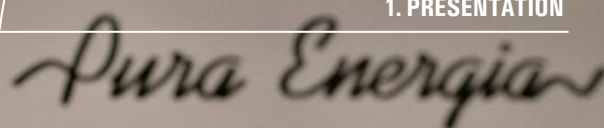
We currently operate 49 of our own plants and participate in another four plants, 21 of which are hydroelectric, 30 wind power and two thermoelectric, with a total proportional installed capacity of 6,361.2 MW; we fully own and participate in operation transmission concessions corresponding to 9,616 km of transmission lines.

Ethical socio-environmental performance is our commitment and we guide our activities by the social responsibility concept. We consider the stakeholders' expectations in their decisions and seek alternatives that promote social well-being in line with legislation, international rules of behavior and internationally recognized development agendas.

Copel is a signatory of the Global Compact and is committed to the SDGs – Sustainable Development Goals. In accordance with these commitments, Copel GeT prioritized the following objectives: SDG 7 – Clean and affordable energy; SDG 8 – Decent work and economic growth; SDG 9 – Industry, innovation and infrastructure; SDG 13 – Action against global climate change: Take urgent action to combat climate change and its impacts.

In order to comply with our strategic and sustainability guidelines established for the generation and transmission business, our main objective is to increase the share of alternative renewable energy sources in the energy matrix, in a profitable and sustainable manner.

The strategic objectives presented below guide our management: Maximize the company's value through sustainable growth, profitability, adequate levels of indebtedness and shareholder remuneration; Obtain profitable business and sustainable design in energy generation and transmission; Adequate and manage the energy generation portfolio in an integrated manner, evaluating strategic partnerships, reassessing corporate structures, maximizing synergies and profitability; Divest in non- strategic, unserviceable and/or economically unviable assets for generation and transmission concessions; Have discipline in capital allocation and rigor in asset management, planning and execution of energy generation and transmission projects; Renew the Foz do Areia concession in the most advantageous way for Copel GeT; Increase revenue from the existing transmission park through investment in improvements and reinforcements; Achieve efficiency standards of the best companies in the energy generation sector, investment in technology, cost reduction and workforce optimization; Promote and ensure adherence to the best ESG, risk management and compliance practices; Promote people-focused management, strengthening team engagement and reinforcing the meritocracy culture; Consolidate the leading role with regulatory, institutional and sector entities; Sediment the safety, health and quality of life culture; Apply technologies

The image shows the top portion of a presentation slide. It features the 'COPEL' logo in large, bold, black capital letters at the top. Below the logo, the slogan 'Pura Energia' is written in a black, cursive script. The background is a light, neutral color.

as a differential for business optimization and transformation. Continually raise cybersecurity levels; improve GeT's energy contracting strategy, seeking to generate value for the company; ensure readiness to restore the transmission system in emergency situations; foster innovation as a lever for growth, increased customer satisfaction and process improvement; to restore the transmission system in emergency situations.

To guide our actions, in addition to the strategic objectives, several learnings are consolidated, such as the impact of the water crisis on the Brazilian electricity sector, which saw the worst inflow in 91 years of history and the importance of portfolio diversification and commercialization strategy in the management of the power generation business.

In line with our strategic objective "Ensure technical rigor in asset management, planning and execution of transmission projects," the 500 kV Curitiba Leste – Blumenau transmission line (LT) went into commercial operation in April 2021. With 144.5 km of extension and R\$ 192 million in investments, the project provides an increase of R\$ 38.6 million in the Annual Allowed Revenue. With this work, the electrical service to the South and Extreme South regions of the state of Santa Catarina was reinforced in the levels of quality and reliability required by the National Interconnected System (SIN). Additionally, LT collaborates in reducing the operating time of UTE Jorge Lacerda and, consequently, provides a decrease in the emission of gases that can damage the air quality.

Regarding the strategic objective "Obtain profitable and sustainable business in energy generation", in August 2021, the Pequena Central Hidrelétrica Bela Vista with 29.81 MW of installed power began commercial operation, a clean and renewable source of electricity generation. The plant is installed on the Chopim River, between the municipalities of Verê and São João, in the State of Paraná, the total investment was R\$ 224 million and the energy produced will supply the consumption of 100 thousand people. In addition to the plant, a bridge was delivered between Verê and São João, which provides a positive social impact for the local community, resulting from the faster flow of its harvest.

Also regarding the strategic objective "Obtain profitable and sustainable businesses in energy generation," in November 2021 we concluded the acquisition of the Vilas Wind Power Complex, another investment in a clean and renewable source. The project is located in the municipality of Serra do Mel (RN) and has 186.7 MW of installed capacity in one of the best regions in the world for wind power generation. With this complex, we now have 920.22 MW of generating capacity in wind farms in Rio Grande do Norte. Since 2015, we have expanded our presence in the wind power segment with projects in this state and we already operate the Cutia (180.6 MW), Bento

Miguel (132.3 MW), Brisa Potiguar (183.6 MW) and São Bento (94 MW) Complexes and have a 49% stake in the São Miguel do Gostoso I project (108 MW).

In addition, we face the great challenge of completing the works on the Jandaíra Wind Complex, in Rio Grande do Norte. The works are progressing at great strides towards the operation, scheduled for July 2022. 26 wind turbines are being installed divided into four wind farms in the municipalities of Jandaíra and Pedra Preta, adding up to a total power of 90.1 megawatts - enough to meet the consumption of 250 thousand people. The investment is budgeted at R\$ 411 million.

In November 2021, we concluded the works for the construction of deflector blocks in the spillway of the Colíder Hydroelectric Power Plant, concrete blocks used to reduce the oxygenation of the water right at the outlet of the spillway in order to protect the local fauna from the risk of causing the so-called "bubble disease" in some species of fish found in the place. We also carried out a study of the total dissolved gases in spillways, aiming to contribute to national engineering in the treatment of this issue, reducing risks to aquatic fauna in new spillway projects.

This year, there was also a renegotiation of the hydrological risk in the free contracting environment, with recognition of R\$ 1.56 billion in the Company's Ebitda, through the extension of the concession of our plants participating in the Energy Reallocation Mechanism (MRE).

Concerned about our employees, we recently launched the Home Office Program, which adopts a hybrid work regime, with voluntary membership. In this model, employees can complete part of their journey in person and part of it remotely. We also focused more on mental health this year with the launch of the Plenamente Program, which offers guidance and support to employees, mainly due to the impacts of the Covid-19 pandemic. We also created, in 2021, the Primary Health Care Unit to carry out health exams and medical care.

Aware of our responsibility regarding climate change, in 2021 we announced our Carbon Neutrality Plan, through which, by 2030, we intend to neutralize greenhouse gas emissions and offset residual emissions from assets that we operationally control.

For 2022, we plan to complete the new and modern Generation and Transmission Operation Center - COGT, which will contribute to the operation of the asset portfolio with greater safety and reliability

We will continue to focus on the expansion of renewable generation, guided by our investment policy, both through prospecting for new brownfield or greenfield projects, through generation and transmission auctions to grow and generate value in a sustainable manner.

We registered the Company's commitment to the permanent search for operational efficiency and responsibility with sustainability in the environmental, economic and social pillars.

Enjoy your reading!

Moacir Carlos Bertol
Chief Executive of Copel Geração e Transmissão S.A.



2 COMPANY PROFILE

2.1 About the report

| GRI 102-21, 102-50, 102-51, 102-52, 102-53 |

Copel GeT prepares this Socio-environmental and Economic-Financial Report to meet the requirements of the Electric Sector Accounting Manual (MCSE) as provided in Aneel Normative Resolution No. 605, in order to transparently render accounts to the Grantor and to all its stakeholders, as well as presenting the main social, environmental and economic impacts caused by its operations. The publication follows the guidelines of the Global Reporting Initiative (GRI) Standards, “essential” adherence. All indicators answered are listed in the “GRI Content Index” (pages 153 to 174). When there are references to corporate practices or results (Holding), the name referenced is Copel or the term Company is used.

The report also follows the Social Balance guidelines of the Brazilian Institute of Social and Economic Analysis (Ibase); the Brazilian Accounting Standard (NBC T15); the regulation of the Abrasca Annual Report Award; the Progress Communication regarding the commitments assumed with the Global Compact; and the International Financial Reporting Standards (IFRS), considered in the information from the financial statements.

This edition refers to the period between January 1 and December 31, 2021.

The previous, most recent report was published in 2021, referring to the year 2020. The publication cycle is annual. For questions, suggestions or clarifications about the content of this report, Copel Geração e Transmissão S.A. provides the Contact Us channel, available on the Company’s website (www.copel.com).

See below, other Copel reports that are available on the website: www.copel.com

- Management Report and Financial Statements
- R20F Report
- Integrated Report
- Reference Form Press
- Release Report

2.1.1 Relevant Topics

Material topics for Copel, relevant to the activity and to the interested parties, are used as a basis for reporting performance in each cycle and as support for the Strategic Planning process, being, therefore, fundamental for the conduct of the Company's business.

For the cycle referring to 2021, a new materiality process was carried out following the premises of the GRI Standards and the structure of the IIRC Integrated Report with the following steps:

- survey of relevant topics for the sector, according to sustainability performance assessments, as well as ESG standards and guidelines;
- analysis of the materiality of national and international peers;
- analysis of Copel's corporate documents (Strategic Planning, Risk Matrix, etc.); identification of
- sensitive topics, according to a media study;
- identification of positive and negative impacts of the Company's operations, according to intensity, probability and frequency;
- direct research with stakeholders to prioritize themes;
- consolidation of results and grouping of topics by management processes; analysis of the
- studies' results by the wholly-owned subsidiaries: and
- approval by the responsible Governance Bodies (approval by the Gathered Board of Directors, analysis by the Sustainable Development Committee and Approval by the Board of Directors). (102-32)

As a result of the materiality process, the themes "Economic-Financial Performance" and "Operational Efficiency (includes reliability, availability and loss) were maintained. Some themes were unified, in view of the management processes similarity, such as "People Management" and "Occupational Health and Safety," and "Environmental Management" and "Climate Changes." The theme "Corporate Governance" was unified with the theme "Risk Management" with the inclusion of a new theme, "Cybersecurity." The theme "Regulatory Environment" is addressed within the governance practices. The theme "Communities and Social Investment" was renamed to "Social Responsibility" (it covers Communities and Social Investment), giving greater scope to the theme. A new theme "Energy Sector Transformation" (covers Energy Planning and Increasing Demand) was included. GRI 102-49

In order to achieve synergy with Copel's Strategic Planning process, the results of the 2021 Materiality Process will be valid for 2 years (2021 and 2022), and may be reassessed if necessary. The next materiality process will be carried out in 2023.

GRI 102-49

Material themes for Copel GeT in 2021









Legend



Relevance

- DIRECT IMPACT
- INDIRECT IMPACT
- NO IMPACT

Material themes for Copel GRI 102-44, 102-46, 102-47	GRI Standards material aspects	Inside limits	Outside limits
Covid-19 Pandemic			
Corporate governance, risk management and cybersecurity	General standard risk management and corporate governance indicators not required for reporting in the Essential 102-15 e 102-17 a 102-39		
	Economic performance (201-2)		
	Anti-corruption (205-1 a 205-3)		
	Anticompetitive behavior (206-1)		
	Public policy (415-1)		
	Customer privacy (418-1)		
	Socioeconomic compliance (419-1)		
Financial economic performance	Financial economic performance (201-1, 201-3, 201-4)		
Operational efficiency	Organizational profile (EU2)		
	Availability and reliability (EU6)		
	Demand management (EU7)		
	Research and development (EU8)		
	Planned capacity against projected long- term energy demand (EU10)		

Material themes for Copel GRI 102-44, 102-46, 102-47	GRI Standards material aspects	Inside limits	Outside limits
Covid-19 Pandemic			
Operational efficiency	System efficiency (EU11)		
	Losses in transmission and generation (EU12)		
	Power supply interruptions (EU28)		
	Average duration of interruptions (EU29)		
	Average plant availability factor, broken down by energy source and regulatory system (EU30)		
Energy sector transformation	Organizational profile EU2		
	Availability and reliability EU6		
	Research and development EU8		
	System efficiency EU11, EU12		
	Access EU30		
Environmental management and actions against climate change	Materials (301-1, 301-2)		
	(302-1 a 302-5)		
	Water and effluents (303-1 a 303-5)2		
	Biodiversity (304-1 a 304-4)		
	GHG emissions (305-1 a 305-7)2		
	Waste (306-1 a 306-5)2		
	Environmental assessment of suppliers (308-1, 308-2)		
Biodiversity (EU13)			
People and occupational health and safety management	Employment (401-1 a 401-3)		
	Labor relations (402-1)		
	Occupational health and safety (403-1 a 403-10)		
	Training and education (404-1 a 404-3)		
	Diversity and equal opportunities (405-1, 405-2)		
	Non-discrimination (406-1)		
	Freedom of association and collective bargaining (407-1)		
	Availability of skilled labor (EU14)		
	Percentage of employees eligible for retirement in the next 5 and 10 years (EU15)		
	Employment (EU16 e EU18)		

Material themes for Copel

GRI 102-44, 102-46, 102-47

GRI Standards material aspects

Inside limits

Outside limits

Covid-19 Pandemic

Social responsibility

- Market presence (202-1, 202-2)
- Indirect economic impacts (203-1, 203-2)
- Purchasing practices (204-1)
- Child labor (408-1)
- Forced or slave-like labor (409-1)
- Rights of indigenous peoples (411-1)
- Human rights assessment (412-1 a 412-3)
- Local communities (413-1, 413-2)
- Social assessment of suppliers (414-1, 414-2)
- Local communities (sector – EU19, EU22)
- Contingency plans and disaster and emergency response (EU21)
- Consumer health and safety (EU25)



2.2 Company profile

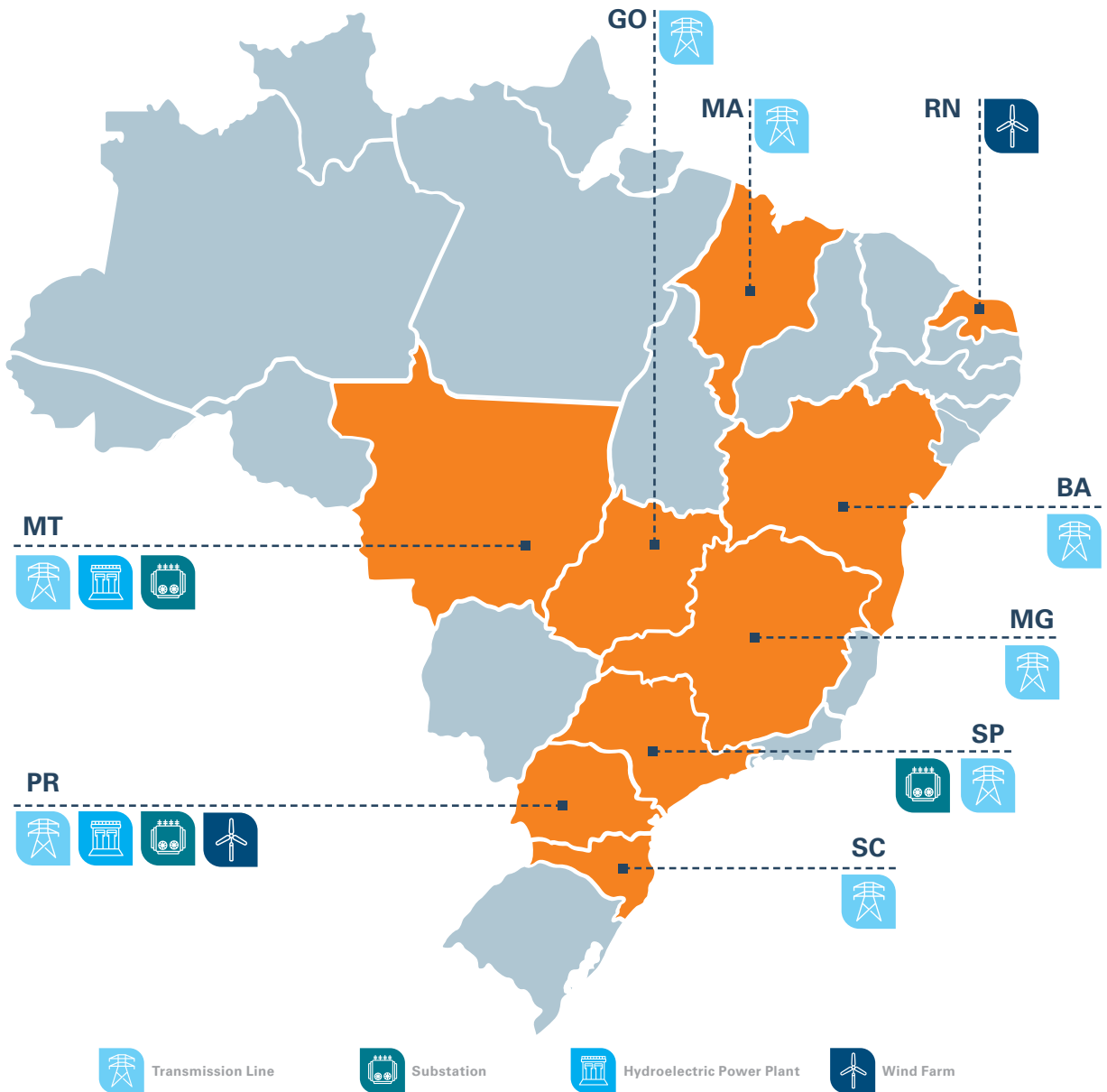
Copel Geração e Transmissão S.A., called Copel GeT, is a joint stock company, a wholly-owned subsidiary of Companhia Paranaense de Energia (Copel), which operates with cutting-edge technology in the areas of energy generation and transmission. Builds, operates and maintains an electrical system with its own generating facilities (hydro, thermal and wind power plants), transmission lines and substations, including infrastructure in partnerships through special purpose companies. Copel GeT also sells the generated energy. GRI 102-2, 102-4, 102-5

Builds, operates and maintains an electrical system with its own generating facilities (hydro, thermal and wind power plants), transmission lines and substations, including infrastructure in partnerships through special purpose companies.

Markets Served GRI 102-6

	GEOGRAPHIC LOCATIONS	SECTORS SERVED	TYPES OF CUSTOMERS/BENEFICIARIES
Regulated Contracting Environment (ACR)	Distribution agents in all states of the country, with the exception of Roraima, whose system remains isolated from the SIN (National Interconnected System).	electricity distribution sector	Electric energy distribution concessionaires/permits that contracted energy through regulated auctions
Free Contracting Environment (ACL)	Electric sector agents present in the states of São Paulo, Minas Gerais, Pernambuco, Paraná, Santa Catarina, Rio de Janeiro, Rio Grande do Sul, Mato Grosso, Goiás and Rio Grande do Norte.	Industrial and commercial sectors, and energy trading	Traders authorized by the National Electric Energy Agency, free and special consumers, eligible under the legislation
Electricity transmission	Lines and substations in the states of Paraná, Santa Catarina and São Paulo.	Public service	National Electric System Operator (ONS) and users connected to the basic grid

Action map



2.2.1 Market Share

Main products (%)	Brazil	South Region	Paraná
Electricity generation ¹	3.3 ²	19.8 ³	48.1 ³
Electricity transmission ⁴	3.7	22.9	49.1

(1) Installed capacity of Copel Geração e Transmissão and SPEs 100%

(2) Considering only the portion belonging to Brazil of the Itaipu Power Plant

(3) The Itaipu Power Plant is not considered in the South region

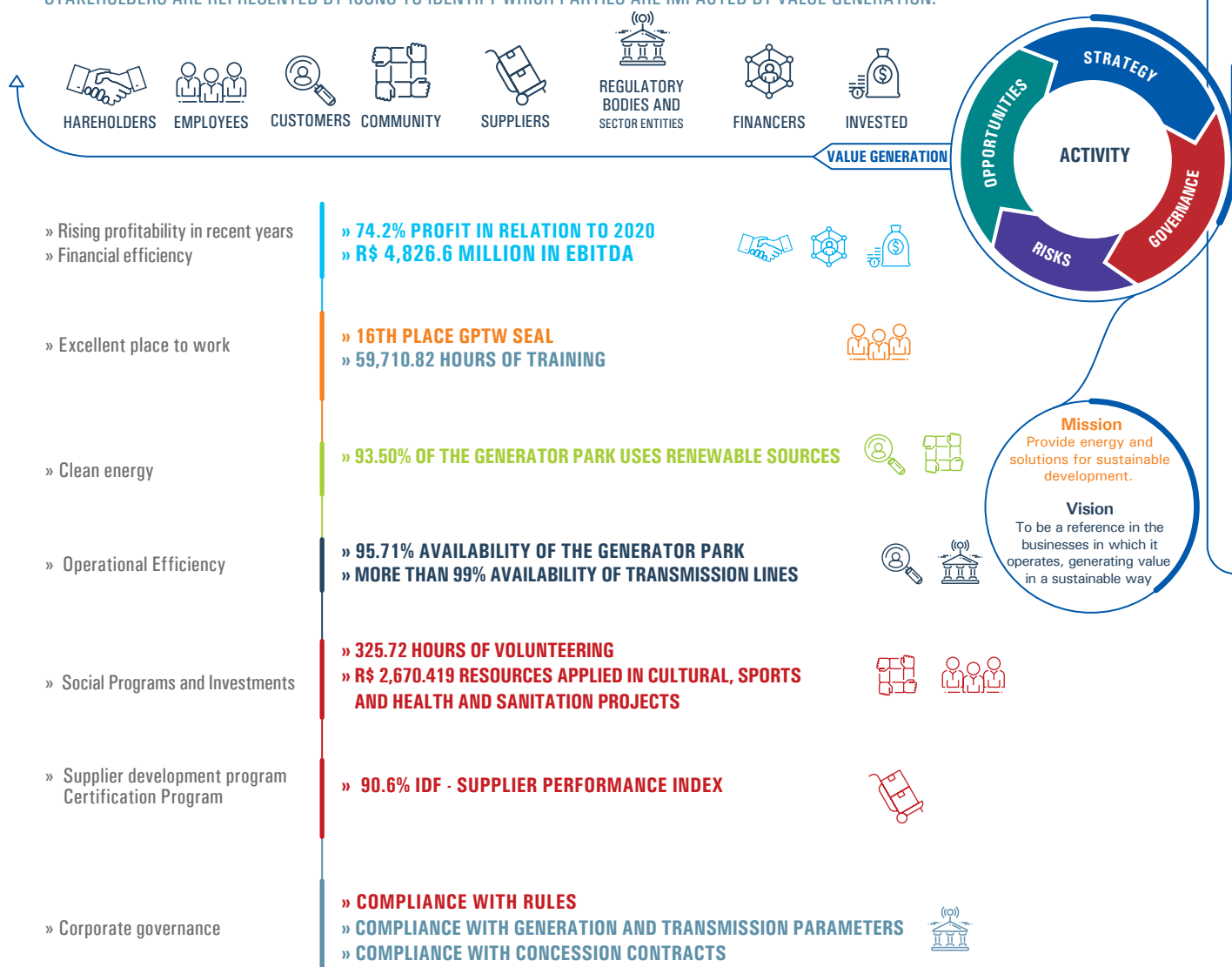
(4) The market refers to the Allowed Annual Revenue - RAP

2.2.2 Business Model

THE CAPITALS BELOW ARE REPRESENTED BY COLORS FOR IDENTIFICATION, IN THE VALUE GENERATION, WHICH OF THEM RELATE TO THE VALUE GENERATED AND FOR WHICH STAKEHOLDERS.



STAKEHOLDERS ARE REPRESENTED BY ICONS TO IDENTIFY WHICH PARTIES ARE IMPACTED BY VALUE GENERATION.



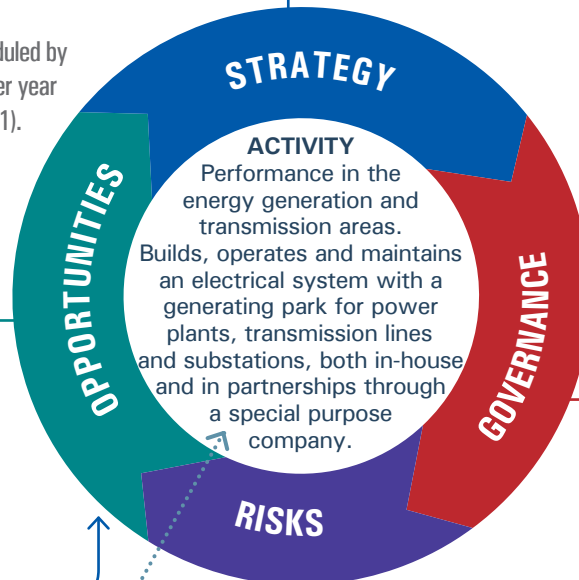
* Note: we are considering owned plants and participation.

- Forecast by the Federal Government of indicative expansion of generation with new grants (2023 to 2031) that would require investments of R\$ 192 billion by 2031, according to the Ten Year Energy Plan - PDE 2031;
- Of this investment forecast, around 13.4% are in new wind and solar projects;
- The need for additional generation using natural gas accounts for 45% of the installed capacity, due to the greater use of wind and solar sources;
- The indicative expansion part of the PDE 2031 covered by biomass and PCHs corresponds to investments of 9% and 0.6% respectively;
- Forecast by the Federal Government of transmission expansion with new concessions and authorizations that would require investments of R\$ 100.7 billion reais by 2031, according to the PDE 2031;
- Four transmission auctions already scheduled by the Ministry of Mines and Energy, two per year until 2024; (MME Ordinance No. 33/2021).

Through innovation, Copel GeT seeks new sources, alternative sources and business models, following the country's energy transition movement.

- Increase participation in the generation and transmission market in a sustainable and profitable manner;
- Invest in innovation, seeking best practices and researching new technologies;
- Renovate and modernize assets with a long-term view;
- Maximize energy trading profitability;
- Optimize concession resources;
- Maintain concessions and authorizations;
- Train and qualify employees on an ongoing basis;
- Retain knowledge;
- Emphasize safety at work.

Employee training, in addition to innovation programs and business strategies, make the model adaptable to market and sector context changes.



Best corporate governance among state-owned companies, as per [B]³. [B]³'s Corporate Governance Level 2

Main business risks:

- Expiration of concessions;
- Hydrological risk;
- Regulatory Risk;
- Decreased performance;
- Dams;
- Cybersecurity;
- Operational discontinuity of GET assets and their SI's 100%
- Climate changes

For all risks defined as major, there are monitoring KRIs and mitigation plans.

Differential: Excellence in generation and transmission assets management.

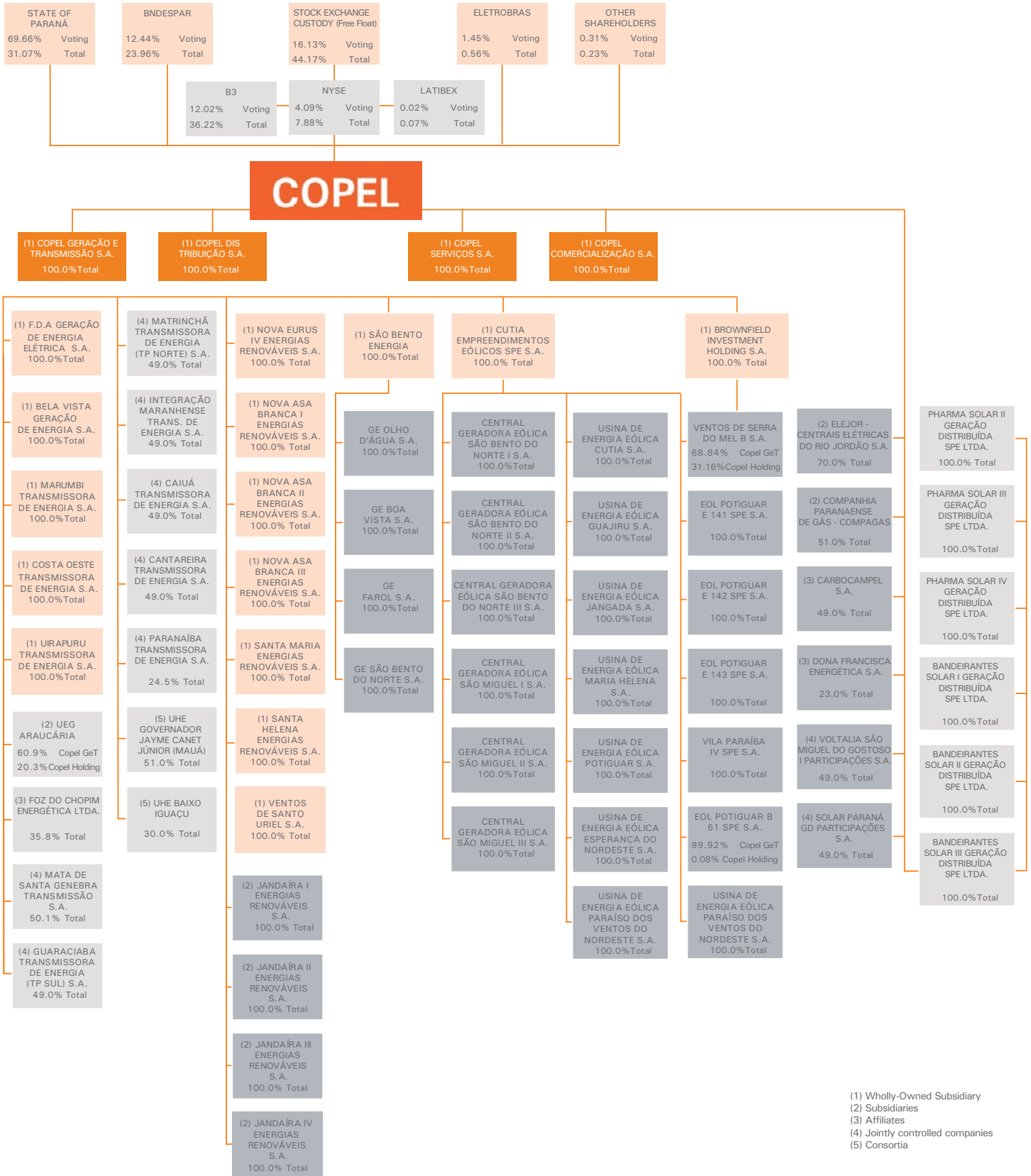
2.2.3 Awards and certifications

Awards / Certifications	Certifier
PNQV Award – National Quality of Life Award - Management excellence in the Large sized category (Gold Category)	Brazilian Association of Quality of Life (ABQV)
FTSE4Good Index Series – Recognition of companies' performance in terms of their environmental, social and corporate governance policies	London Stock Exchange
ISE B3 (Corporate Sustainability Index)	B3
Ibovespa B3	B3
ICO2 (Carbon Efficient Index)	B3
Pro-Ethics Seal	Union Comptroller General - CGU and Ethos Institute of Business and Social Responsibility
Gold seal of certification of the Brazilian GHG Protocol program	GHG Protocol
Pro-Gender and Race Equality Seal	Ministry of Women, Family and Human Rights
ABRH -PPD Award (performance award) and Family Day	Brazilian Association of Human Resources
Paraná Climate Gold Seal	Paraná State Government
GPTW Certification and Ranking among the best companies in Paraná for Copel Geração e Transmissão (15th)	Great Place to Work
500 Southern Greatest Award – 3rd place	Amanhã Magazine
Largest Company in Paraná	Amanhã Magazine
Citizen Company Certificate – by the Social report information	Regional Accounting Council of Rio de Janeiro, Firjan and Fecomércio System
Sesi SDG Award 2021	Sesi - Industry Social Service Sesi
Trophy – Best Practices in occupational health and safety	Sesi - Industry Social Service Best
in Management Award – Silver	National Quality Foundation

Copel GeT Debuts in the Best in Management Award

Copel GeT receives in March 2022 for the first time the award from the National Quality Foundation (FNQ), Silver level, referring to the year 2021. The award recognizes Brazilian companies with the best performance in the application of the Management Excellence Model (MEG). MEG is an FNQ methodology composed of eight fundamentals of excellence used to assess the performance and management of companies: systemic thinking, organizational learning and innovation, transformative leadership, commitment to stakeholders, adaptability, sustainable development, process orientation and value generation.

2.2.4 ORGANIZATION CHART - EQUITY PARTICIPATION - 12/31/2021



2.2.5 Copel GeT in numbers

In R\$ thousand

Accounting Indicators	2021	2020	variation %
Total asset	24,715,085	20,442,581	20.9
Cash and cash equivalents	1,929,858	1,509,740	27.8
Marketable securities	350,354	289,480	21.0
Total debt	7,305,442	5,930,636	23.2
Net debt	5,025,230	4,131,416	21.6
Gross operating revenue	8,397,160	5,627,029	49.2
Revenue deductions	845,734	597,909	41.4
Net operating revenue	7,551,426	5,029,120	50.2
Operating costs and expenses	3,678,359	2,827,210	30.1
Equity	356,372	186,477	91.1
Result of activities	3,873,067	2,201,910	75.9
Ebitda or Lajida	4,826,626	2,956,572	63.3
Financial result	(438,344)	(266,462)	64.5
IRPJ/CSLL	970,996	502,583	93.2
Operational profit	3,791,095	2,121,925	78.7
Net income for the fiscal year	2,820,099	1,619,342	74.2
Net worth	12,873,586	10,825,875	18.9
Interest on equity/Dividends	1,532,107	1,018,614	50.4
Economic-Financial Indicators			
Current liquidity (index)	1.1	1.0	10.0
General liquidity (index)	0.8	0.9	(11.1)
Ebitda or Lajida Margin (Ebitda or Lajida/net operating income) (%)	63.9	58.8	8.7
Total debt over net worth (%)	56.7	54.8	3.5
Operating margin (operating profit/net operating revenue) (%)	50.2	42.2	19.0
Net margin (net profit/net operating revenue) (%)	37.3	32.2	15.8
Third-party equity participation (%)	47.9	47.0	1.9
Return on net worth (%) (1)	26.0	16.4	58.5

2.3 Strategic reference

Copel's operating premises are the guidelines expressed in its Strategic Reference, which guides its management and all the Company's internal and external actions and decisions.



MISSION:
Provide energy and solutions for sustainable development.



VISION:
To be a reference in the businesses in which it operates, generating value in a sustainable way.

PRINCIPLES AND VALUES



ETHICS:
Result of a collective pact that defines individual behaviors aligned.



RESPECT TO PEOPLE:
Being considerate



DEDICATION:
Ability to be intensely and completely involved in the work contributing to the achievement of the organization's objectives.



TRANSPARENCY:
Accountability of the Company's decisions and achievements to inform its positive or negative aspects to all interested parties.



SAFETY AND HEALTH:
Healthy work environment in which workers and managers collaborate to use a process of continuous improvement to protect and promote the safety, health and well-being of all.



RESPONSIBILITY:
Conducting the Company's life in a sustainable manner, respecting the rights of all stakeholders, including future generations, and the commitment to sustaining all forms of life.



INNOVATION:
Application of ideas in processes, products or services in order to improve something existing or to build something different and better.

GRI 102-16

2.3.1 Strategic Guidelines -Generation Business

- Maximize company value through sustainable growth, profitability, adequate levels of indebtedness and shareholder remuneration;
- Obtain profitable and sustainable business in energy generation;
- Adequate and manage the energy generation portfolio in an integrated manner, evaluating strategic partnerships, reassessing corporate structures, maximizing synergies and profitability;
- Divest in non-strategic, useless and/or economically unviable assets for generation concessions;
- Have discipline in capital allocation and rigor in asset management, planning and execution of energy generation projects;
- Renew the Foz do Areia concession in the most advantageous way for Copel GeT;
- Achieve efficiency standards of the best companies in the energy generation sector, investment in technology, cost reduction and workforce optimization;
- Promote and ensure adherence to best ESG, risk management and compliance practices;
- Promote people-focused management, strengthening team engagement and reinforcing the meritocracy culture;
- Consolidate leadership with regulatory, institutional and sector entities;
- Sediment the culture of safety, health and quality of life;
- Apply technologies as a differential for business optimization and transformation. Continually raise cybersecurity levels;
- Improve GeT's energy contracting strategy, with a view to generating value for the Company;
- Foster innovation as a lever for growth, increasing customer satisfaction and improving processes;

2.3.2 Strategic Guidelines - Transmission Business

- Maximize company value through sustainable growth, profitability, adequate levels of indebtedness and shareholder remuneration;
- Obtain concessions in the transmission sector in a sustainable and profitable way;
- Adequate and manage the energy transmission portfolio in an integrated manner, evaluating strategic partnerships, reassessing corporate structures, maximizing synergies and profitability;
- Divest in non-strategic, useless and/or economically unviable assets for transmission concessions;
- Have discipline in capital allocation and rigor in asset management, planning and execution of energy transmission projects;
- Increase revenue from the existing transmission park through investment in improvements and reinforcements;
- Achieve efficiency standards of the best companies in the energy transmission sector, investment in technology, cost reduction and workforce optimization evaluating the balance between cost/quality and income of assets;
- Promote and ensure adherence to best ESG, risk management and compliance practices;
- Promote people-focused management, strengthening team engagement and reinforcing the meritocracy culture;
- Consolidate leadership with regulatory, institutional and sector entities;
- Sediment the culture of safety, health and quality of life;
- Apply technologies as a differential for business optimization and transformation. Continually raise cybersecurity levels;
- Ensure readiness to restore the transmission system in emergency situations.
- Foster innovation as a lever for growth, increasing customer satisfaction and improving processes;

The strategic guidelines for the Generation and Transmission businesses were revised in the Company's Strategic Planning cycle for the 2022-2026 period.

2.4 Sustainability Management (ESG)

Copel is a pioneer in the management of environmental, social and corporate governance issues. Throughout its history, it has consolidated itself as a company committed to providing energy and solutions for the sustainable development of society, being the first company in the electricity sector to adhere to the United Nations (UN) Global Compact, on July 12, 2000.

Sustainability management is carried out through several areas dedicated to ESG-related topics. Corporate guidelines are prepared and disseminated by Copel Holding through policies and standards that permeate all areas of the Company, including its Wholly-Owned Subsidiaries.

To assess sustainability performance, the Company monitors key related data and participates in several specialized ESG assessments, mainly the B3 Corporate Sustainability Index (ISE/B3) and the S&P Global Corporate Sustainability Assessment (CSA). The results of these assessments are used as a basis for continuous improvement of ESG-related processes.

Copel also has a Sustainability Policy, with guidelines that go beyond internal activities and extend to encouraging sustainable performance also by suppliers and for the benefit of the community. The document was prepared by professionals in the areas of sustainability, environment, social responsibility, corporate integrity, innovation, finance and management, with the support of professionals from wholly-owned subsidiaries. Its guidelines are based on the commitments assumed with sustainable development, on corporate governance principles and on the values and principles of Copel's Code of Conduct. The policy is reviewed every three years, its initial version was prepared in 2018 and revised in 2021.

Copel GeT has a Permanent Sustainability Committee, coordinated by the General Director of Copel Geração e Transmissão, and is comprised by the directors of the Administrative and Equity Board and of the Generation and Transmission Operation and Maintenance Board. This Advisory Committee reports to Copel GeT's Board of Directors.

Copel GeT's responsible attitude towards the sustainability issue is also expressed by its compliance with the Management Excellence Model (MEG) of the National Quality Foundation (FNQ), which marks the annual "Best in Management" award. It's comprised by eight foundations, among which is Sustainable Development, formed by the economic-financial, environmental and social themes.

To render accounts, guide engagement with stakeholders and report its performance, Copel GeT adopts the Global Reporting Initiative (GRI), publishing sustainability reports based on GRI guidelines, aiming to provide transparent information about its management and performance in the most relevant aspects for business sustainability, through consistent and comparable indicators.

Details of Copel's performance in sustainability can be checked on the copelsustentabilidade.com.

2.4.1 Integrated Management System

The Operation and Maintenance (O&M) processes of Copel's plants have been certified since 2005 in the NBR ISO 9001 – Quality Management System. Since 2009, the Company has been implementing the NBR ISO 14001 – Environmental Management System and OHSAS 18001 – Occupational Health and Safety Management System at the Company's generating plants. In 2021, there was a migration from OHSAS certification to NBR ISO 45001, the Governador Pedro Viriato Parigot de Souza plant was certified to ISO 14001 and the Derivação do Rio Jordão plant was certified to ISO 14001 and 45001. The transmission's O&M processes are also certified to ISO 9001 since 2018.

PLANTS	TOTAL POWER (MW)	MUNICIPALITY	CERTIFICATION ISO 9001 SINCE	CERTIFICATION ISO 14001 SINCE	CERTIFICATION PLANTS ISO 45001 SINCE
GOV. BENTO MUNHOZ DA ROCHA NETTO - GBM	1,676.00	PINHÃO	2005	2018	2019*
GOV. NEY AMINTAS DE BARROS BRAGA - GNB	1,260.00	MANGUEIRINHA	2005	2017	2018*
GOV. JOSÉ RICHA - GJR	1,240.00	CAPITÃO LEONIDAS MARQUES	2005	2017	2018*
GOV. PEDRO VIRIATO PARIGOT DE SOUZA - GPS	260.00	ANTONINA	2020	2021	-
GUARICANA - GNA	36.00	GUARATUBA	2005	2019	-
CAVERNOSO II - CAS	19.00	VIRMOND	2019	-	-
CHAMINÉ - CHE	18.00	SÃO JOSÉ DOS PINHAIS	2005	-	-
APUCARANINHA - APC	10.00	TAMARANA	2005	-	-
DERIVAÇÃO DO RIO JORDÃO - DRJ	6.50	RESERVA DO IGUAÇU	2014	2021	2021
MARUMBI - MUB	4.80	MORRETES	2019	2019	-
SÃO JORGE - SJR	2.30	PONTA GROSSA	2005	-	-
CHOPIM I - CIM	1.98	ITAJEJARA DO OESTE	2005	-	-
CAVERNOSO - CAV	1.30	VIRMOND	2005	-	-
MELISSA - MEL	1.00	CORBÉLIA	2005	-	-
SALTO DO VAU - SVU	0.94	UNIÃO DA VITÓRIA	2005	2018	-
PITANGUI - PGI	0.87	PONTA GROSSA	2005	-	-

*: Year of OHSAS 18001 certification; migration to ISO 45001 in 2021.

2.4.2 Voluntary commitments

During its history, Copel has assumed, supported and disseminated voluntary commitments recognized worldwide as good corporate sustainability practices. The main one is the commitment to the Global Compact, a UN initiative to engage companies and organizations in the adoption of principles in the areas of Human Rights, Labor Rights, Environment and Anti- Corruption. The Company is part of the Global Compact Network Brazil, composed of companies, agencies of the United Nations system in Brazil, business entities, civil society organizations, educational institutions, among others.

Other Copel voluntary commitments

INITIATIVE | GRI 102-12

	VOLUNTARY / MANDATORY	ADOPTION DATE	STAKEHOLDERS INVOLVED
Global Compact	Voluntary	2000	All
State Water Resources Management System	Voluntary	2001	Community
Pro-Gender and Race Equality Program	Voluntary	2009	All
Women Empowerment Principles - WEP	Voluntary	2010	All
Principles for Sustainable Executive Education	Voluntary	2014	All
BNDES Social Sub-credit (only the Colíder hydroelectric plant and the Brisa Potiguar and São Bento wind farms)	Voluntary	2014	Funders and community
2030 Agenda	Voluntary	2015	All
Business Pact for Integrity and Against Corruption	Voluntary	2015	All
Business Pact for Integrity and Against Corruption	Voluntary	2016	All
National SDGs We Can Movement	Voluntary	2021	All
Entrepreneurs for the Climate - Statement	Voluntary	2021	Community

Highlight: Business Open Letter





Copel's CEO, Daniel Pimentel Slaviero, together with 104 other leaders of national and foreign companies, as well as sector entities, signed an open letter in support of bold environmental goals and defense of Brazil's engagement in an agenda for sustainable development. The document was led by the Brazilian Business Council for Sustainable Development (CEBDS).

The backdrop for the signing was the UN Climate Summit, held in Glasgow, Scotland, in November. The letter highlighted the need for a low carbon economy, recognizing the responsibility of the business sector in this transformation. The content also supports the development of a political-regulatory framework with actions to preserve the environment and combat illegal deforestation.

2.4.3 Copel GeT and the Sustainable Development Goals (SDGs)

Copel directs its actions related to the Sustainable Development Goals - SDGs based on the results of the study, organized by the Global Compact Brazil Network (RBPG), SDGs in the Brazilian Electricity Sector, which aimed to analyze and identify which goals and objectives are more related to the activities of the Brazilian electricity sector.

Considering the SDGs prioritized by Copel Holding and the Company's guidelines in the generation and transmission business strategy and strategic planning, the following SDG for Copel Geração e Transmissão were prioritized.

<p>7 AFFORDABLE AND CLEAN ENERGY</p> 	<p>Clean and Accessible Energy - Goal 7.2 Ensuring access to cheap, reliable, sustainable and renewable energy for all. By 2030, substantially increase the share of renewable energy in the global energy mix.</p>
<p>8 DECENT WORK AND ECONOMIC GROWTH</p> 	<p>Decent work and economic growth - Goal 8.3 Promote sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all.</p> <p>Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro, small and medium-sized enterprises, including through access to financial services.</p>
<p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> 	<p>Industry, Innovation and Infrastructure - Goal 9.4 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.</p> <p>By 2030, modernize infrastructure and rehabilitate industries to make them sustainable, with increased efficiency in the use of resources and greater adoption of clean and environmentally sound industrial technologies and processes; with all countries acting in accordance with their respective capabilities.</p>
<p>13 CLIMATE ACTION</p> 	<p>Action against Global Climate Change. - Goal 13.3</p> <p>Take urgent action to combat climate change and its impacts. Integrate climate change measures into national policies, strategies and plans.</p>

2.5 Responsibility to stakeholders

Copel GeT seeks to balance and maintain sustainable environmental, economic and social relationships, in order to ensure that the use of natural resources today does not compromise their conservation and availability for future generations. The Company follows this same premise in its relationship with stakeholders.

The priority audiences for Copel GeT are shareholders, customers, communities, regulatory bodies and sector entities, employees, financiers, investees (SPEs and consortia) and suppliers. As key stakeholders for the electricity sector, the Ministry of Mines and Energy (MME) and the bodies linked to it – National Electric Energy Agency (Aneel), Energy Research Company (EPE) and National System Operator (ONS) – also receive special attention. GRI 102-40

These audiences were mapped and prioritized according to national and international methodologies, such as those proposed by the International Council on Mining and Metals (ICMM), the International Finance Corporation (IFC) and the AA 1000 – Accountability and the engagement manuals of Instituto Votorantim and Takao Dialogues for Sustainability. The criteria used were impact, influence, dependence, power, proximity to the relationship and representation. GRI 102-42

The performance is carried out in accordance with policies and ethical conduct code (see page 57), and complies with State Laws No. 16.595/2010, Federal Laws No. 12.527/2011 and Decree No. 4.531/2012, with the publication of the Transparency Portal, through which interested parties can consult the most diverse information about Copel GeT, such as actions and programs, bids and contracts, stock control, inspection and audit results, transfers of financial resources, employee list, public tenders, confidential communication channel, among others.

Copel also makes available a series of service channels, listed in the following table. GRI 102-43

Public	Channels	Forms of contact
Shareholders Customers Community/Society Internal Public Suppliers Environment Public Authorities, Financing and investees	Web site	www.copel.com
	Email service to interested parties	copel@copel.com
	Telephone service for interested parties	Phone number: 0800 51 00 116
	With the code of conduct, legal provisions and internal regulations relating to accounting, internal controls or auditing matters.	Phone number: 0800 643 5665

Public	Channels	Forms of contact
	Ethical Guidance Council - discusses, guides actions and examines cases, proposing sanctions in the sense that the Company's performance is conducted by morally sound principles. It's made up of Company employees from different professional categories, and is coordinated by a representative of civil society.	e-mail: conselho.etica@copel.com
	General Shareholders' Meeting	Summons 30 days in advance in newspapers, website, CVM, [B3]
	Investor Relations Area - market analysts and potential investors	e-mail: ri@copel.com Fone: 41 3222-2027 / 3331-3277 Road shows Conference calls
	Shareholder Service	e-mail: acionistas@copel.com Phone number: 0800 41 2772
Shareholders	Share custody management - Manages the custody of Copel shares (Holding)	Phone number: 41 3331-4269 Rua José Izidoro Biazetto, 158 CEP: 81200-240 Mossunguê. Curitiba - PR
	Results conference calls	Every three months after the results are announced
	Communications	Under demand
	Investor Relations Website	ri.copel.com
	Eletricidadania - Corporate Volunteer Program	Copel volunteers who have up to 4 hours/month or 8 hours in the bimester to provide volunteer service
	Confidential Communication Channel	0800 643 5665
	Strategic Management Coordination of Energy Accounting for Generation and Transmission	Under demand
Customers Community /Society	Confidential Communication Channel	0800 643 5665
	Contact Us Channel - Real Estate Approvals and Reservoir Borders	Copel's Website

Public	Channels	Forms of contact
Employees	Meetings with the surrounding community, NGOs and indigenous people, City Halls, Environmental Agencies	Under demand
	Hydrological Monitoring Site - where Copel GET's operational hydraulic data are available and a channel for queries is provided.	copel.com
	Organizational Climate Survey GPTW - Great Place to Work	Annual Survey
	Employees' Commission for Profit Sharing Negotiation - CENPLR	Summons Assemblies
	Specialized Services in Safety Engineering and Occupational Medicine - SESMT, with 30 professionals, including Safety Technicians, Safety Engineers, Occupational Nursing Assistant and Occupational Doctors.	Under demand
	Internal Accident Prevention Commissions (CIPA) - work in Occupational Safety, with 16 commissions, totaling 177 members.	Risk Hunt (Tool for identifying and recording risks)
	Fire Brigades	Employees participating in Fire Brigades
	Confidential Communication Channel	0800 643 5665
	Conversa em Dia (GeT Connection Program)	Once a year
	GeTalks (Meetings for communication and direct interaction between Directors and teams)	Once a year
Suppliers	UNIR Project (Meetings that mix strategic issues with an agenda suggested by employees)	Minimum of 3 meetings per year
	Workshops	Relevant topics, at least once a year
	Suppliers Registration	cadastro@copel.com - (41) 3331 2020
Regulatory bodies and sector entities	Confidential Communication Channel	0800 643 5665
	Public Hearings	Under demand
	Public Hearings	Under demand
	Regulatory bodies and sector entities	Different schedule for each topic studied

2.5.1 Participation in entities

GRI 102-13

ACRONYM	ENTITY	COUNCIL / INSTITUTION REPRESENTATIVE	PARTICIPATION
ABCE	Brazilian Association of Electric Power Companies	Board Member (term of office 10/30/2020 to 10/30/2023) Eduardo Vieira De Souza Barbosa (DJR) ABCE Fiscal Council adriana.baratto@copel.com - Holder julio.neto@copel.com - Alternate	Environment Committee Working Group on Environmental Law and Legislation Legal, Regulatory and Tax Committee Real Estate Management working group ABCE Innovation and Competitiveness Committee Financial Economic Committee Labor Relations Committee and Compliance Tax Committee
ABNT	Brazilian Association of Technical Standards - ABNT		Study Commission ABNT/CB- 004 - 007-003 Grades, Gates and Forced Conduits
ABEEÓLICA	Brazilian Wind Energy Association	Voting Representatives: Moacir Carlos Bertol(PRE/ GET)- Holder/Voter Cássio Santana da Silva (DDN) - Alternate	Regulatory Working Group Institutional Working Group Environment Working Group Power Quality Working Group Production Chain Working Group Tax and Financial Working Group PLD Timetable Working Group Offshore working group
ABRAGE	Brazilian Association of Electric Power Generation Companies	1. Member of the General Assembly: Moacir Carlos Bertol (GET) 2. Fiscal Council Member: Jaime de Oliveira Kuhn (GET/SGE) - Holder CESI - Strategic Committee for Safety in Facilities	GTAF - Working Group for Monitoring Economic and Financial Matters GTIL - Working Group for Monitoring Institutional Issues and Legislation on the Electricity Sector GTMA - Environment Working Group GTMN - Hydraulic Plant Maintenance Working Group GTMT - Thermal Plant Maintenance GTOP - Operation Working GTRH - Water Resources Working Group GTRM - Market Rules Working Group GTSB - Dam Safety Working Group CJUR - Legal Committee CESI - Strategic Committee for Safety in Facilities Regulatory Affairs and Marketing Working Group
ABRAGEL	Brazilian Association of Clean Energy Generation	CAD Representative: Eduardo Vieira de Souza Barbosa (DRI) - Titular Adriana de Paula Baratto (CRG) - Suplente	Regulatory Working Group Institutional Working Group Environment Working Group Power Quality Working Group Production Chain Working Group Tax and Financial Working Group PLD Timetable Working Group Offshore Working Group

ACRONYM	ENTITY	COUNCIL / INSTITUTION REPRESENTATIVE	PARTICIPATION
ABRAGET ¹	Brazilian Association of Thermoelectric Generators	Board of Directors - alternate - Cíntia de Carvalho Toledo UEG ARAUCÁRIA LTDA	
ABRAMAN	Brazilian Association of Maintenance and Asset Management	Director - Board of Directors: Ricardo Rodrigues de Almeida GET/ SOS/COGT	
ABRATE	Brazilian Association of Electric Power Transmission Companies	General Meeting and Board of Directors Moacir Carlos Bertol (GET) - Full member Nilberto Lange Junior - Alternate	Expansion Committee Finance Committee Maintenance Committee Operating Committee Environmental Committee Health and Safety Committee Temp. Cybersecurity Committee Legal Advisory Committee Regulation Committee R&D Committee
APINE	Brazilian Association of Independent Electricity Producers	Board of Directors: Moacir Carlos Bertol (GET)	Institutional Working Group Operation Working Group Regulation Working Group Planning Working Group Economic-Financial Working Group Legal Working Group Environment Working Group R&D Working Group Alternative Sources Working Group
ABRHidro	Brazilian Water Resources Association		
ABCM	Mineral Coal Brazilian Association		
CBDB	Brazilian Committee on Dams		National Technical Committee on Concrete Dams National Technical Committee for Research and Development and Technical Innovation Concrete for Dams International Technical Committee
CIGRÉ	Brazilian National Committee for the Production and Transmission of Electric Energy - CIGRÉ		
CCEE	Electric Energy Commercialization Chamber	Acting on the Supervisory Board as Full member	
COBEI	Brazilian Committee for Electricity, Electronics, Lighting and Telecommunications		
CEPEL	Electric Energy Research Center		
CERH/PR	State Water Resources Council		Technical Chamber of State Policy Instruments for Water Resources Management - CTIN
CNRH	National Water Resources Council		Technical Collection Chamber - CTCOB
Eletrobras	Centrais Elétricas Brasileiras S.A. (Eletrobrás)		Brazilian Interconnected Systems Performance Commission - CDB

ACRONYM	ENTITY	COUNCIL / INSTITUTION REPRESENTATIVE	PARTICIPATION
FUNCOGE	Business Management Committee Foundation FUNCOGE		Audit, Compliance and Risk Management Committee Transport and Mobility Committee Committee Foundation Economic-Financial and Regulation Committee Occupational Health and Safety Committee
IAT	Water and Earth Institute - Paraná		Committee of the Alto Iguaçu Basins and Alto Ribeira Affluents – COALIAR Committee of Alto Iguaçu and Alto Ribeira Affluents Tibagi River Basin Committee - State Water Resources Management System Lower Iguaçu Committee Technical Chamber for Monitoring do rio Tibagi - CTPLAN Tibagi River Basin Plans – CTPLAN Tibagi River Basin Committee - State Water Resources Management System Jordão River Basin Committee Lower Ivaí and Paraná Committee CBH Norte Pioneiro Committee Alto Ivaí Committee Coastal Watershed Committee
ONS	National Electric System Operator (ONS)		System Operation Center Standardization Electrical Studies of the National Interconnected System - SIN (annual, four- monthly and monthly generation data) Short-term electrical operation planning studies PSNOC - National System of Observability and Controllability Project. COEP - Project's Executive Committee SCGMVM - Subcommittee on Methodological Evolution and Model Validation GT NEWAVE-NewAVE Model Validation Working Group- subordinate to SCEMVM GT-Hydrology Annual Flood Prevention Plan GTGRH - Resource Management Working Group
EPE	Energy Research Company		Sustainable Development Advisory Board Energy Research Company – CONCEPE Forum of State Secretaries for Energy Affairs - Southern Region
SEDEST	Advisory Board Energy Research Company - and Tourism Secretary		Environmental Legislation for Substations and Transmission Lines Working Group State Forum for Animal Rights Solid Waste Management Committee
SUDIS	General Superintendence of Dialogue and Social Interaction - SUDIS		Working Group of Quilombola Communities and Traditional Communities and Peoples of Paraná

Notes:

1. Copel GeT is not a direct associate, the Araucária gas generation power plant (UEGA) is.

2.6 Operational performance

2.6.1 Macroeconomic analysis

The Brazilian economy started 2021 with several signs of recovery, in contrast to the 3.9% drop in gross domestic product in 2020. After two consecutive years of losses, industrial production increased by 3.9% in the year, influenced by the results from the capital goods segment.

The drop in the number of cases and deaths, resulting from the health crisis, the end of social isolation measures and the gradual recovery of urban mobility increased the demand for services, reflected in the increase in formal job vacancies and consequent reduction in unemployment rates, which end the year in percentages below those seen in 2020, however, above the pre-pandemic period.

On the other hand, the official inflation indicator ended 2021 above the ceiling of the target established by the National Monetary Council and the highest value in six years. With inflationary pressure, the basic interest rate suffered consecutive increases, reaching the same level observed in September 2017. Within this context, the sum of all goods and services produced in the country ended the year with an expansion above 4.6%, according to IBGE data.

Despite the restrictions imposed on economic activity to contain the Covid-19 pandemic still present in 2021, the performance of Paraná's economy showed a recovery trajectory, in line with the Brazilian economy. The industrial sector was the one that most leveraged the result of the state GDP, and the production of Paraná's industry registered growth well above the observed in the national average.

In addition, retail sales also expanded in the year, reversing the unfavorable results of the previous year. The state also consolidated itself as the fourth unit of the federation that most created formal jobs during the year, according to data from the General Register of Employed and Unemployed of the Ministry of Labor. On the other hand, there is an intense negative effect on agricultural production due to prolonged drought, water scarcity and high temperatures that should impact the consolidation of the state's quarterly accounts for 2021.



2.6.2 Regulatory environment

Copel GeT is an energy generation and transmission concessionaire and, therefore, has a legal obligation to develop its actions in accordance with rules, regulations and applicable legislation. The electricity sector is regulated by the Ministry of Mines and Energy (MME), the National Energy Policy Council (CNPE), the Electricity Sector Monitoring Committee (CMSE) and the National Electric Energy Agency (Aneel). The MME is responsible for defining the sector's policies, which govern everything from the use of natural resources and other sources of electricity generation to the promotion of the development and adoption of new technologies.

Aneel is responsible for establishing rules for the electricity generation, transmission, distribution and commercialization segments, in addition to tariffs that provide favorable conditions for market development, with a balance between agents and for society's benefit. The agency is responsible for granting concessions, permissions and authorizations for projects and electric energy services by delegation from the federal government and defines service quality standards and technical and economic indicators, being responsible for monitoring compliance with them. Therefore, the condition for the provision of the service by Copel GeT is full compliance with the terms of the concession contracts, specific legislation, regulatory standards, instructions and determinations of the Concession Authority and Aneel.

The regulatory environment is dynamic and is changing every day with the introduction of new technologies. Failure to pay due attention to these movements may result in Copel GeT being penalized by the regulatory agency or reduced revenue for not achieving pre-defined indicators. To avoid losses of any nature, the Company has a shared regulatory structure, centralized at Copel (Holding), which monitors and reports to the competent areas the acts emanating from the granting authority and the regulatory agency.

Additionally, the regulatory area coordinates, within the scope of the Company, the public processes of alteration of the current norms, as well as monitors the process of legislative alteration of the sector in the Chamber of Deputies and in the Federal Senate. Since 2020, the area has adopted modern and far-reaching tools for internal dissemination of monitored information. Professionals in the area undergo a systematic updating process and participate intensively in forums for discussing changes in the regulatory environment, in addition to being involved in sectoral associations, congresses and seminars, among other events. On March 10, 2020, in order to rationalize the regulatory framework for new projects, Aneel consolidated the related rules in two resolutions: (i) the approval of the Hydroelectric Inventory Studies of hydrographic basins, the obtaining of authorization for the exploration of hydroelectric plant

Since 2020, the area has adopted modern and far-reaching tools for internal dissemination of monitored information.

developments, communication of the implementation of a Hydroelectric Generating Plant with Reduced Installed Capacity and the approval of Technical and Economic Feasibility Studies of a Hydroelectric Plant subject to the concession (Normative Resolution No. 875/2020); (ii) to obtain authorization to operate and change the installed capacity of wind, photovoltaic, thermoelectric and other alternative sources, and to communicate the implementation of generating plants with reduced installed capacity (Normative Resolution No. 876/2020).

In 2021, Aneel resumed the discussion regarding the improvement of the resolutions that establish the procedures to obtain authorization grants for projects, in order to contemplate the implementation of hybrid plants and/or the constitution of associated plants, culminating in the publication of Normative Resolution No. 945/2021.

The regulation of Law No. 14.052/2020 through Normative Resolution No. 895/2020 allowed the CCEE to calculate the grant extension period related to the compensation of the effects arising from the implementation of structuring plants, thermoelectric generation outside the merit order and on importation of electricity without physical guarantee. Said resolution was amended by Normative Resolution No. 945/2021, in order to modify the compensation methodology in plants that renegotiated the hydrological risk under the terms of Normative Resolution No. 684/2015.

Consecutively, Aneel approved the grant extension deadlines of the plants participating in the Energy Reallocation Mechanism - MRE through Ratifying Resolutions No. 2.919 and no. 2.932, being up to those interested in compensation to adhere to the mechanism by waiving legal actions related to the mitigation of MRE hydrological risks and the term of acceptance protocol by the owners of the projects.

Auctions

In 2021, the Ministry of Mines and Energy - MME promoted ten energy auctions: three New Energy Auctions ("A-3," "A-4" and "A-5"); four Existing Energy Auctions ("A-1," "A-2," "A-4" and "A-5"); an Auction to supply isolated systems; a Capacity Reserve Auction aimed at guaranteeing the continuity of electric energy supply through the contracting of electric power and associated energy, from new and existing generation projects, which add electric power to the National Interconnected System – SIN; and finally, in view of the water scarcity scenario, it carried out the Simplified Competitive Procedure for contracting capacity reserve, seeking to guarantee the continuity and security of the electrical energy supply in the country, by contracting reserve energy.



2.6.3 Energy flow (in % of GWh)

Energy Flow - Copel GeT Consolidated	2021	2020	Variation %
It's own generation (net of losses) ¹	17,046	13,231	28.83
Dona Francisca	134	141	(4.96)
Copel Comercialização	3534	516	584.8
MRE Receipt	1,200	5,879	(79.5)
Others	48	5	860
Total availability	21,961	18,773	16.9
Bilateral contracts	601	2,786	(78.4)
Bilateral contracts (Copel Comercialização)	13,032	7,275	79.1
CBR Contracts	151	160	(5.6)
Free consumers	1,298	3,364	(61.4)
CCEAR – Copel Distribuição	153	154	(0.6)
CCEAR – Others	3,504	3,513	(0.2)
MRE Delivery/Assignment	2,640	939	181.1
CCEE (MCP) – net of purchases	(549)	(217)	153.0
CER	915	918	(0.3)
Losses and differences	216	(180)	(220)

CBR: Regulated bilateral contracts. CCEAR: Energy Trading Agreement in the Regulated Environment. MRE: Energy Reallocation Mechanism. CCEE (MCP): Electric Energy Commercialization Chamber (Short-Term Market). CER: Reserve Power Agreement.

2.6.4 Transformation of the energy sector, energy planning and increased demand

GRI 103-1, 103-2, 103-3

The electric energy market is going through a moment of transformation as a result of the digital age, the emergence of new technologies, adaptation to environmental demands and society's aspirations.

Currently, the reduction of greenhouse gas emissions and the improvement of air quality are priority issues in government decisions regarding energy planning, due to the concern with climate change. International agreements and national goals are constantly used as a guideline for the expansion of the energy matrix in several countries, encouraging the adoption of certain cleaner sources. In addition, a variety of emerging technologies such as flexible demand, energy storage and advanced control devices are enabling new options for the supply and consumption of electricity.

All these changes influence the activities and businesses in which Copel operates, and may, on the one hand, cause loss of revenue and, on the other hand, generate new business opportunities or forms of action. In this scenario, Copel has been structuring and preparing to anticipate new developments and protect its portfolio and/or position itself in promising markets.

Among the factors that currently affect Copel's activities and businesses, the following stand out:

- the postponement of investments in transmission networks due to the development of energy storage technologies;
- the new investment opportunities in the energy storage business created from the maturation of associated technologies;
- the temporary reduction in the need for new generation and transmission projects due to the reduction in demand in general, caused by measures to combat the Covid-19 health crisis;
- the reduction of the market and the competition in the traditional markets of electric energy due to the participation
- growth of distributed generation in the energy matrix and the perspective of increasing the consumer's power;
- the growing need for investments in alternative renewable sources (wind and solar) given the current water crisis and possible future severe weather events resulting from climate change;
- the promotion of operational efficiency and eco-efficiency due to the importance of reducing carbon emissions; and
- internal pressure to adapt Copel GeT's units based on fossil sources to the new ESG (environmental, social and governance) criteria adopted by the market.

Copel GeT has a structure to manage the issue with a team dedicated to coordinating the strategic planning review process, in which the main strengths, weaknesses, opportunities and threats related to the business are identified. There is also a dedicated team working in the monitoring and public participation of proposals for changes in the sector's legal diplomas, its regulations, procedures, among others, in addition to a risk team, which quarterly monitors and reports the mitigation plans of the various risks, among which those associated with the sector's transformation, such as regulatory risk.

Protagonism in relations with regulatory, institutional and sector bodies that affect our business is valued. There is an incentive for technical and scientific exchange, internal or external, either by sponsoring or holding events of this nature. Participation in forums and working groups with sector associations promotes debate and analysis of the impacts of the constant energy sector transformation.

It is incumbent upon the Federal Government, as a National Energy Policy Council (CNPE), to formulate energy policies and guidelines to be followed by the sector, while the Ministry of Mines and Energy and other related bodies, such as the Energy Research Company (EPE) and ANEEL, among others, are responsible for studying, planning, implementing and regulating such rules. The Decennial Expansion Plan (PDE) is prepared within the scope of the EPE and reflects the transformation of the sector, serving as a basis for Copel GeT's expansion plans.

2.6.5 Operational efficiency

GRI 103-1, 103-2, 103-3, EU28, EU29

Operational efficiency is one of Copel's strategic objectives, which means achieving levels of excellence in operations, but with reduced demand for resources and inputs and at a lower cost.

This attribute is one of the focuses of the 2020-2024 Value Maximization Journey project, developed with the help of a world-renowned consultancy. Action plans are being executed with specific timelines and objectives, adding up to 200 initiatives that will have an impact on productivity and finances. In 2021, the focus was on optimizing processes and readjusting the workforce, including third parties.

Copel GeT has areas dedicated to operational efficiency management, which determine performance metrics. Such management is carried out in accordance with the guidelines, objectives and goals defined by senior management in the Company's Strategic Planning, which revolve around reaching the levels of the best companies in the sector and constantly seeking to optimize costs. The adopted standard is the Management Excellence Model (MEG), of the National Quality Foundation (FNQ).

The operational areas inform and act on failures. The plants and transmission lines are serviced by their own maintenance teams. There are also maintenance engineering teams based in Curitiba, which take care of supporting more complex issues, which go beyond field team competences.

The topic is also the subject of the open innovation program (see page 40) and research and development projects, through which Copel applies technology as a differential for optimizing and transforming businesses, such as, for example, digitalization of operation and maintenance processes.

Copel GeT's performance in terms of operational efficiency is evaluated through the indicators established in the Management Agreement, signed at four levels: between Copel GeT and Copel (Holding); between Copel GeT's Executive Boards and its Superintendencies; between the Superintendencies and their respective departments; and between departments and their respective divisions.

Operational excellence is also evaluated in the certification processes. Currently, Copel GeT has an Integrated Management System with ISO 9001, 14001 and 45001 certifications in the Operate and Maintain Generation Infrastructure processes; and ISO 9001 in the Operate and Maintain Transmission Infrastructure process.

Covid-19 Pandemic

With the pandemic, Copel GeT reformulated the project management of ventures under construction to modernize the process of monitoring the works, which started to use the Project Management Body of Knowledge methodology, in order to maximize operational efficiency and value generation.

At the market level, the pandemic has accelerated the already growing concern to guarantee access to affordable, reliable and sustainable energy for all as a way of guaranteeing a balance between economic and socio-environmental development. Faced with these aspirations and in line with the business expansion area, Copel GeT expanded the capacity of its wind farm by 32% throughout 2021 and continues to evaluate new opportunities in the segment.

2.7 Business segments

2.7.1 Generation

GRI EU2, EU11

Copel Geração e Transmissão operates 49 of its own plants and participates in another 4 plants, 21 of which are hydroelectric, 30 wind farms and two thermoelectric plants, with a total proportional installed capacity of 6,361.2 MW and physical guarantee of 2,974.8 average MW, as shown in the table with the summary by source, the complete list of plants is available in the Management Report of Copel Geração e Transmissão on Copel's website.

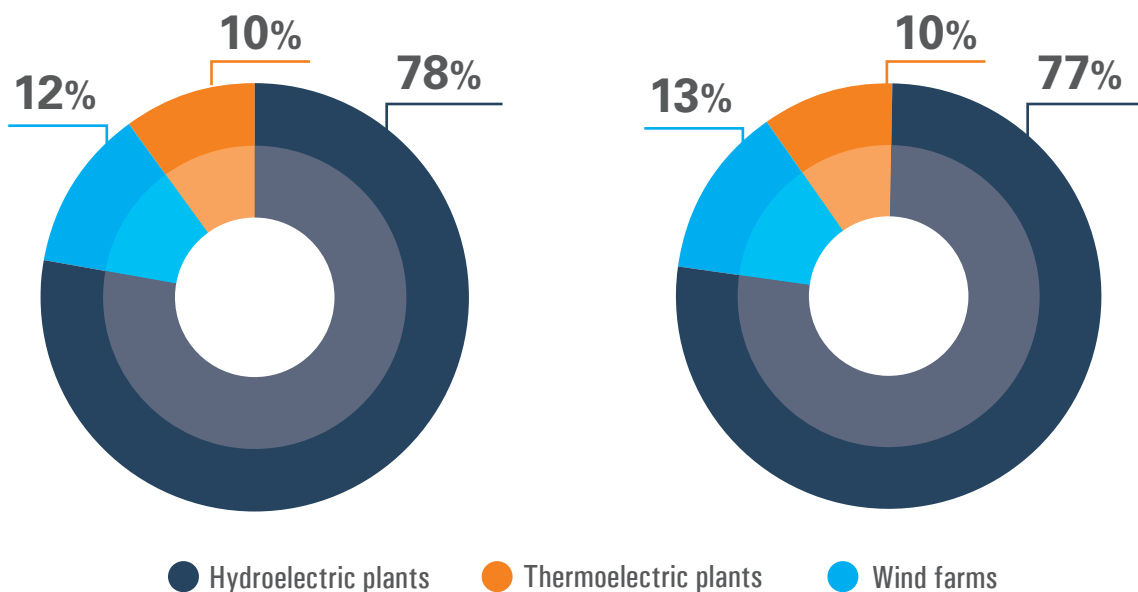
Source Type	Installed Power (MW)	(average MW) Physical Guarantee	Installed Power (MW) Proportional	Physical Guarantee (MW Average) Proportion
Hydroelectric plants	5,608.8	2,542.10	5,168.20	2,311.40
Thermoelectric plants	504.2	375.5	413.1	306.8
Wind farms	779.9	356.6	779.9	356.6
Total of Sources	6,892.9	3,274.2	6,361.2	2,974.8

To comply with important strategic and sustainability guidelines established for the generation business, the Company's main objective is to increase the share of alternative renewable energy sources in the energy matrix, in a profitable and sustainable manner.

The composition of the generator park by source is as follows:

Generation Park - Physical guarantee by source

Projected Generation Park for 2021



Currently, the Company is concentrating its efforts on the construction of 4 wind farms, which will add 90.1 MW of installed capacity and 46.6 MW of physical guarantee to the generating complex.

Power Generation

Net power generation (in GWh) GRI EU2	2019	2020	2021
Hydroelectric plants	17,750.02	11,232.50	15,666.03
Thermoelectric plants	1,915.02	994.6	1,784.57
Wind farms	99.9	2,307.50	2,461.47
Solar plants	0	0	0
Total	19,764.94	14,534.60	19,912.07

The hydraulic generation in the years 2019, 2020 and 2021 was 18,611.69 GWh, 11,101.92 GWh and 15,666.03 GWh, respectively. Hydraulic plants with an installed capacity of more than 50 MW, which correspond to most of Copel GeT's generation, have their generation centrally coordinated by the ONS according to the conditions of the reservoirs and the electrical system's demand. The reported value also includes the generation of the ELEJOR and Foz do Chopim plants, in proportion to Copel GeT's share.

The thermal generation in the years 2019, 2020 and 2021 was 101.38 GWh, 997.19 GWh and 1,784.57 GWh, respectively. The increase in thermoelectric generation in the last two years is associated with the record of below-average rainfall in the period, which made the ONS demand greater generation from UTE Araucária, whose reported values correspond proportionally to Copel GeT's share.

No thermal energy was generated in 2021, 2020 and 2019 at the Figueira thermoelectric plant (UTE) due to its shutdown for modernization works in June 2018. Operation is expected to resume in 2022.

UEG Araucaria S.A. is established under the Independent Energy Producer (PIE) regulatory regime, resulting from the partnership between Petrobras (18.8% stake), Copel GeT (60.9%) and Companhia Paranaense de Energia – Copel (20.3 %). The Company is responsible for operating and maintaining the unit within the agreed availability values. The plant obtained during the year 2021 the value of 198.26 m³/MWh for thermal efficiency (net) and, considering the higher calorific value of 9,400 kcal/ m³ for natural gas, it presented a net yield of 46.2%.

Wind generation in 2019, 2020 and 2021 was 1,914.60 GWh, 2,118.81 GWh and 2,461.47 GWh, respectively. The years 2019 and 2020 recorded winds below the historical average, negatively impacting wind generation throughout the northeast region of the country; in 2021, the values recorded approached the historical average, resulting in greater energy production.

The monthly generation of the plants is monitored based on the daily ONS schedule and by the operation planning team based on the reports released monthly by the Electric Energy Commercialization Chamber. A report is prepared monthly with the generation of the last 12 months to monitor the amount of energy generated by Copel GeT.

2.7.2 Operation and maintenance (O&M) in generation

GRI EU6

In generation, the concept of Operation and Maintenance Based on Reliability (O&MBC) is applied. It is a structured process that aims, through cause and effect analysis, to define the ideal management policies to avoid or restrict the consequences of functional failures and their relationships (health, environment, safety and costs), which can be applied to any physical asset, considering its operational context.

A set of tools to support the O&M process is also applied, including:

Meeting of Failure Occurrence Analysis in Generating Units (Anaoco): the fundamental causes of failures are defined together with the necessary actions to avoid the recurrence of problems.

Support Applications Portal (Omni): set of applications for recording and controlling O&M activities in the generation. The activities are related to maintenance planning, team management, materials management, equipment registration, event registration, occurrence analysis management and calculation of equipment performance indicators.

Hours of outage and operation of plants in 2020 | GRI EU30

Number of planned outage hours	51,235	
Number of forced (unplanned) outage hours	6,187	
Total hours of the plant in operation	391,453	
Period hours	569,400	
Average availability factor of the plants	2021	2020
Average energy availability factor	69%	93%

2.7.3 Energy planning and increased demand

EU10, EU19

Under state responsibility, the electrical sector planning activity is currently carried out by the Energy Research Company, as provided for in Federal Law 5.174/2004. This entity periodically publishes a series of indicators, studies and reports, including the National Energy Plan and the Ten-Year Energy Plans, documents that design and define energy generation and transmission projects of interest to the Brazilian State based on growth projections of the Gross Domestic Product (GDP).

Before being approved, the plans undergo a public hearing, at which time they are disclosed for analysis by interested parties, with a view to receiving contributions from the most diverse sectors of Brazilian society. Only after this participation are they published as instruments of sector public policy.

This also occurs with the concession notices for services related to the electricity sector, which undergo a period of public hearing before being approved. Thus, the process of planning and concession of public electric energy generation and transmission services is conducted in a participatory manner between Copel and the Brazilian State.

2.7.4 Transmission

The segment's main attribution is to provide services for the transport and transformation of electric energy, being responsible for the construction, operation and maintenance of substations, as well as for the lines intended for energy transmission.

The Company fully owns and participates in transmission concessions in operation, corresponding to 9,616 km of transmission lines, with transformation power of its substations in the order of 20,462 MVA. The complete list of transmission lines is available in the Management Report of Copel Geração e Transmissão, on Copel's website.

The transmission concessions in operation currently generate a RAP to Copel Geração e Transmissão of R\$ 1.22 billion, proportional to its participation in the undertakings.

2.7.4.1 Transmission Works

Lot E - Aneel Auction no. 05/2015: Through the public transmission service concession agreement No. 06/2016 - Aneel, Copel received a concession to build, operate and maintain several transmission projects. In addition to the substations and transmission lines that have been operating since 2019, the contract also includes the 525 kV Curitiba Leste - Blumenau transmission line, which started commercial operation on 04.01.2021 and which represents approximately R\$ 42.6 million in RAP. Considering the other projects that were already in operation, the entire lot represents a RAP for Copel in the order of R\$ 133.3 million.

In addition to the works won in the auctions promoted by Aneel, Copel Geração e Transmissão has works from the authorizing resolutions with the objective of expanding and improving existing facilities, such as:

- Authorizing Resolution No. 7.384/2018: implementation of reinforcements in the 230 kV substations Realeza Sul, São Mateus do Sul, Pato Branco, Ponta Grossa Sul, Londrina ESU and Ibiporã, and rehabilitation of the Londrina - Ibiporã transmission line, with an investment of around of R\$ 111.0 million and RAP of approximately R\$ 15.0 million, from the start of commercial operations, carried out, for all projects of this resolution, between February and September 2021.
- Authorizing Resolution No. 7.515/2018: implementation of reinforcements in the 230 kV Cascavel, Ponta Grossa Norte, Umbará, Maringá and Uberaba substations, with an investment of approximately R\$ 70.0 million and RAP of approximately R\$ 9.5 million, from the start of commercial operation. The reinforcements in the Umbará, Maringá and Uberaba substations, whose entry into commercial operation planned by Aneel was in the 2nd half of 2021, were carried out between February and October 2021. Part of the reinforcements at the Ponta Grossa Norte substation, whose entry into commercial operation planned by Aneel was in the 1st half of 2022, was carried out in November 2021. The other reinforcements, in the Ponta Grossa Norte and Cascavel substations, have deadlines set by Aneel for completion in the 1st half of 2022.
- Authorizing Resolution No. 8.543/2020 (amended by Authorizing Resolution No. 8.951/2020): refurbishment of the 230 kV Pilarzinho - Santa Monica transmission line, refurbishment of the 230 kV Bateias - Pilarzinho transmission line and implementation of reinforcements in the respective 230 kV Santa Mônica, Bateias and Pilarzinho substations, with a total investment of approximately R\$ 32.5 million and RAP of approximately R\$ 4.2 million, as from the start of commercial operations, with term foreseen by Aneel being January 2023.
- Authorizing Resolution No. 9.219/2020: implementation of reinforcements in the 230 kV Guaíra substation, with an investment of approximately R\$ 38.8 million and a RAP of approximately R\$ 6.0 million, from the start of commercial operation, with term forecast by Aneel being April 2024.
- Authorizing Resolution No. 9.564/2020: implementation of reinforcements in the 230 kV Sarandi substation, with an investment of approximately R\$ 21.0 million and RAP of approximately R\$ 3.4 million, from the start of commercial operation, with term forecast by Aneel being June 2023.
- Authorizing Resolution No. 9.741/2021: refurbishment of the 230 kV transmission line Campo Comprido - Santa Quitéria, with an investment of approximately R\$ 4.3 million and RAP of approximately R\$ 577.7 thousand, from the start of commercial operation, with term forecast by Aneel being August 2023.
- Authorizing Resolution No. 10.688/2021: implementation of reinforcements in the 230 kV CIC substation, with an investment of approximately R\$ 24.4 million and RAP of approximately R\$ 3.7 million, from the start of commercial operation, with term forecast by Aneel being April 2024.



3

CORPORATE GOVERNANCE DIMENSION



3.1 Corporate governance practices

Copel is a mixed capital company, controlled by the State of Paraná, which holds 69.66% of the common shares with voting rights. **The Company's corporate governance** encompasses an efficient set of mechanisms, both for incentives and monitoring, in order to ensure that the managers' performance is always aligned with the Company, stakeholders and the government of Paraná's best interests.

The model adopted is based on the Code of Best Governance Practices for Publicly-Held Companies of the Brazilian Institute of Corporate Governance and is based on the principles of transparency, equity, accountability and corporate responsibility, following the best market practices.

In March 2021, Copel migrated to Level 2 of Corporate Governance at B3 (Brasil, Bolsa, Balcão – São Paulo stock exchange), which includes differentiated practices, such as 100% tag along for common and preferred shares, protection mechanism for minority shareholders, which provides equal treatment to all shareholders; voting rights for preferred shareholders in matters dealing with the transformation, incorporation, split or merger of the Company; and use of the Market Arbitration Chamber, a stock exchange body.

This movement consolidates a cycle of significant advances, among which the following stand out:

- the statutory guarantee of full application of tariff readjustments approved by the National Electric Energy Agency (Aneel), which can only be changed or excluded if there is approval by the majority of shareholders holding preferred shares;
- implementation of the Units Program (Units Program);
- the new Dividend Policy, which offers predictability, in line with financial solidity;
- the launch of the Investment Policy, with clear guidelines to guide the Company's sustainable growth;
- the increase from two to three in the number of members elected by non-controlling shareholders to the Board of Directors;
- the creation of three new statutory committees: Investment and Innovation Committee, Sustainable Development Committee and Minority Committee;
- inclusion of an independent external member in the Statutory Audit Committee; and
- the composition of the Board of Directors by nine members, including seven independent members.

The Company also complies with the provisions of Federal Laws No. 6,404/1976 and No. 13,303/2016, the rules of the Comissão de Valores Mobiliários (CVM) and other applicable legislation in Brazil. Abroad, it complies with the regulations of the Securities and Exchange Commission (SEC) and the New York Stock Exchange (NYSE) in the United States; and Latibex, from Bolsa y Mercados Españoles in Spain. Copel's corporate governance system also incorporates the governance of wholly-owned subsidiaries, as established in the sharing agreement. The Company's main documents and governance policies can be found on Copel's website, under Investor Relations.

To assess the maturity and quality level of Copel's corporate governance, the Company participates in indexes and market recognitions that allow comparison with its peers and companies in different sectors: Corporate Sustainability Index (ISE B3), Dow Jones Sustainability Index (DJSI) and Pro-Ethics Company Seal.

Another comparison parameter is the Corporate Governance Report, prepared in accordance with CVM Instruction 586/2017, in which Copel reports its level of adherence to the practices of the IBGC code.

Pro-Ethics Seal

The Pro-Ethics Company seal recognizes integrity initiatives voluntarily adopted by companies, with measures aimed at the prevention, detection and remediation of acts of corruption and fraud. Participation in the Program is voluntary and carried out through the completion of evaluation questionnaires. In the 2020-2021 edition, 327 companies of all sizes and from various fields of activity requested access to the program, of which 195 were admitted and, after the evaluation process, 67 companies were approved and recognized as a Pro-Ethical Company 2020-2021.

Established in 2010, through a partnership between the Comptroller General of the Union (CGU) and the Ethos Institute for Business and Social Responsibility, Pro-Ethics is an initiative that aims to encourage the voluntary adoption of integrity measures by companies, through public recognition of those who are committed to implementing measures aimed at preventing, detecting and remediating acts of corruption and fraud.

Corporate governance members remuneration

GRI 102-35, 102-36, 102-38

The managers, fiscal councilors and members of statutory committees have their compensation defined annually at the General Meeting, following the determinations of the majority shareholder established in Normative Resolution No. 003/2019, of the Control Council of State Companies (CCEE/PR), which provides for the general rules of governance to be observed by public companies and mixed capital companies under the direct or indirect control of the State of Paraná. The annual remuneration comprises charges, representation allowance, health plan and pension plan. There are no payments linked to the achievement of any goals, nor variable compensation or performance indicators.

Performance evaluation of statutory bodies

GRI 102-28

O The statutory bodies of Copel (Holding) and its wholly-owned subsidiaries undergo an annual performance evaluation process, as established in Art. 81 of the Bylaws and in the Annual Performance Assessment Policy of Statutory Bodies (NPC 0319). The demand for this analysis is also provided for in the applicable legislation and is part of the best corporate governance practices. The Board of Directors is responsible, with the methodological support of the Nomination and

Evaluation Committee. The process comprises collective (peer and body) and individual (self-assessment) evaluations, and independence is ensured by hiring an external consultancy, which develops the model and applies it, following the requirements of Federal Law No. 13.303/2016. In addition to statutory bodies, members of the Executive Board and the Corporate Governance Secretariat are evaluated.

Development of governance body members

GRI 102-27

Members of Copel's senior management undergo high-level training, face-to-face and virtual, on economic, environmental and social topics. In 2021, training was carried out for directors and administrators, promoted in partnership with the IBGC - Brazilian Institute of Corporate Governance. The training was mandatory, according to Art. 17 of Law 13,303/16, and had 98 participations. The topics covered were:

Corporate and capital market legislation; Disclosure of information; Internal Control and Risk Management; Code of Conduct and Integrity; Law No. 12,846/2013 (Anti-Corruption Law); Communication with the Market and Transparency and Accountability; The role of the Board of Directors and Supervisory Board in compliance with the Anti-Corruption Law; Administrative and Judicial Liability; The role of Audits; The Board of Directors in the Governance System; Board Mission; The roles and responsibilities of the board and director.

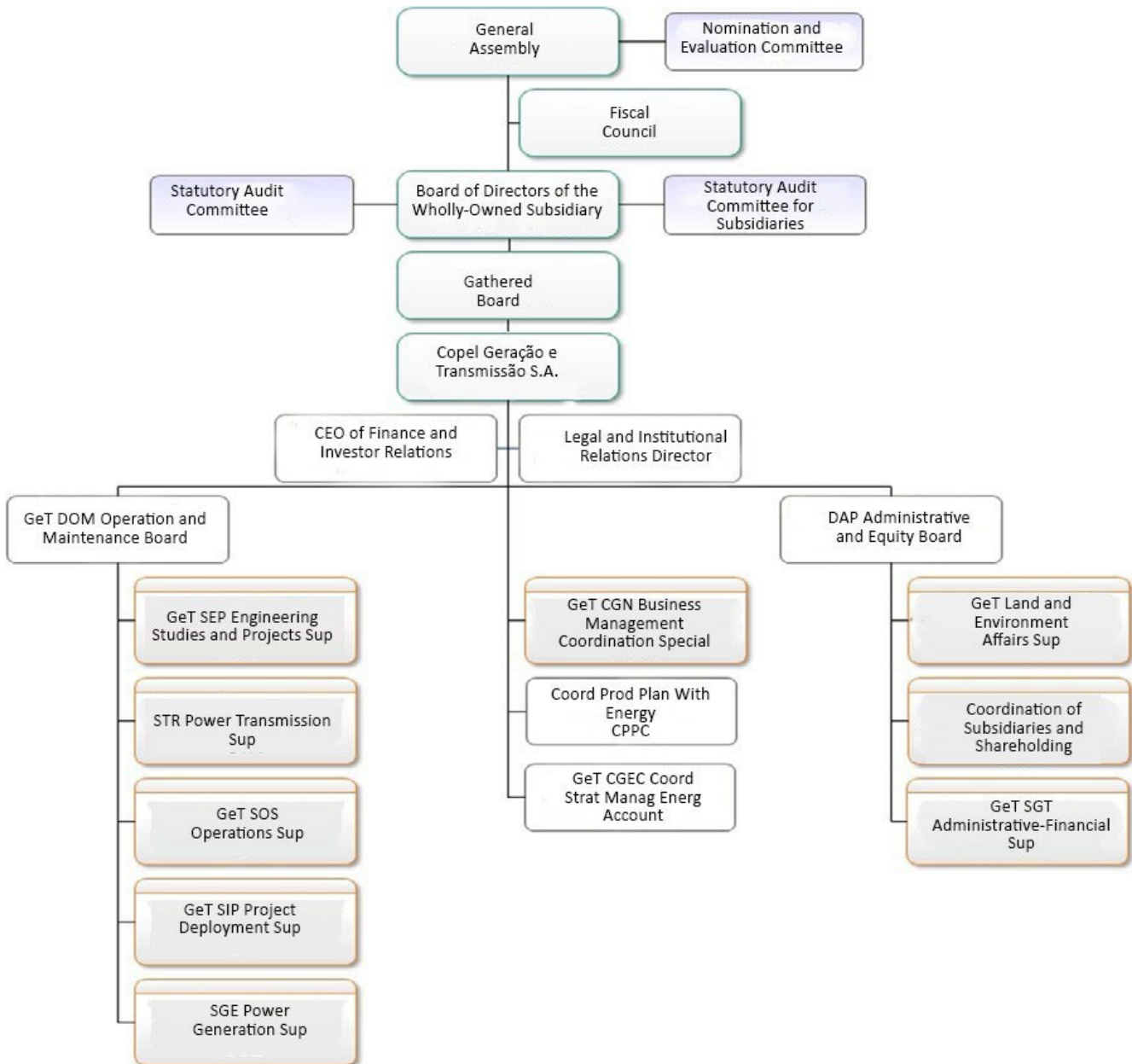
To improve knowledge on social issues, two superintendents participated in the event "Why do we need to talk about racism?", promoted by the Diversity Commission in partnership with UniCopel. Two of the Company's directors are taking a specialization course, one in an MBA in Strategic People Management, and the other in an Executive MBA, improving their knowledge of the economic topic.

In 2021, training was carried out for directors and administrators, promoted in partnership with the IBGC - Brazilian Institute of Corporate Governance. The training was mandatory, according to Art. 17 of Law 13,303/16, and had 98 participations.

3.2 Governance structure

| GRI 102-18, 102-20, 102-22 |

Copel Geração e Transmissão S.A.'s governance structure is composed of statutory bodies, with different levels of responsibility: General Shareholders' Meeting; Fiscal Council; Statutory Audit Committee, Board of Directors and Executive Board assisted by non-statutory internal bodies.



Notes:

The Nomination and Evaluation Committee is shared with Copel's wholly-owned subsidiaries (Holding). Internal Audit is administratively subordinate to the Presidency and functionally to the Board of Directors.

The Statutory Audit Committee CAEGeT serves the equity interests of Copel GeT, while the Copel Holding Statutory Audit Committee is shared and also serves the subsidiary Copel GeT.

3.2.1 General Assembly

It is the highest body of the Company, with powers to resolve on all business related to its corporate purpose, governed by current legislation.

3.2.2 Board of Directors (CAD)

Strategic and collegiate decision-making body, responsible for defining the Company's superior orientation, ensuring the protection of its assets and the achievement of its corporate purpose, in addition to being responsible for guiding the executive board to maximize the return on investment, adding value to the business with sustainability.

3.2.3 Board of Directors of Copel Geração e Transmissão – CAD GeT

GRI 102-18

The functioning and powers of CAD GeT are established in its Bylaws. The members of the body have a unified term of office of two years and may be reelected. Composed of four (04) members, elected and dismissed by the General Assembly, in accordance with the applicable legislation, in particular Federal Law No. 6.404/1976, observing the following parameters for its composition: two (02) Directors of Companhia Paranaense de Energia - Copel, one (01) being the Chief Executive Officer; one (01) member of the Statutory Audit Committee of Companhia Paranaense de Energia – Copel; and the General Director of Copel GeT. The Chairman of the Board of Directors of Copel GeT is appointed by Copel, being replaced, in his absences and impediments, by the Director chosen by his peers. The body holds regular meetings on a monthly basis and the directors may also meet occasionally, whenever they deem necessary, on any date, in extraordinary Board meetings, following the call, by sending correspondence by physical or electronic means or by other means of communication to all directors by its Chairman, at least 48 hours in advance, working with the presence of a simple majority.

CAD GeT is responsible for: ensuring Copel GeT's actions to guarantee the adjusted results through a management contract with Copel; decide on strategic matters for Copel GeT; elect, dismiss, accept resignation, replace Copel GeT Directors and establish their attributions, pursuant to the Bylaws; supervise the management of the Officers, examine books, documents and mandatory acts of Copel GeT; express an opinion on the management report and the Executive Board's accounts; establish criteria for the sale and/or assignment in lending of permanent assets, the constitution of real liens and the provision of guarantees, when the value of the transaction exceeds 2% of shareholders' equity; decide on other cases submitted to it by the Board of Directors; to convene, by its Chairman or Executive Secretary, the General Assembly, given that: the Board of Directors' resolutions will be by simple majority of votes; the minutes of the Board of Directors' meetings that contain resolutions intended to produce effects before third parties will be filed with the Commercial Registry and published.

It is incumbent upon the Board of Directors' Chairman to grant leave to its members, preside over meetings, direct the work and cast, in addition to the personal vote, the quality vote. The Chairman's licenses will be granted by the Board.

Appointment of the Board of Directors

GRI 102-24

The members of the Board of Directors are initially appointed by the controlling shareholder (State of Paraná), with the exception of the vacancy allocated to the employee representative, for which an internal election process is carried out. Copel invites shareholders to present the candidates via Notice to the Market, published on the Investor Relations website, in accordance with Art. 21-L and 21-M of CVM Instruction 481/2009 and applicable legislation. Each candidate undergoes verification of the requirements and seals performed by the Governance, Risk and Compliance Board. The Nomination and Evaluation Committee checks the compliance of appointments with internal regulations and legislation, in particular with the Nomination Policy and the Internal Standard for Nomination of Members of Statutory Bodies (NAC 030311). According to item 4.2.8 of Copel Administrative Rule (NAC) 030311, knowledge and experience are required only for economic topics for Board of Directors members: "public companies and mixed capital companies and those with shares listed on the New York Stock Exchange – NYSE and/or B3, must ensure that at least one of the board members has recognized experience in corporate accounting matters to be a member of the Statutory Audit Committee." Both the Nomination Policy and NAC 030311 point to diversity as a principle to be considered in the member selection, including diversity of backgrounds, qualifications and experiences, and in relation to gender, religion, age and race.

3.2.4 Fiscal Council

Independent management body, whose purpose is to inspect the actions taken by the executive officers and directors and provide an opinion on the Company's accounts.

3.2.5 Executive Board

Copel GeT's executive body of management and representation, responsible for ensuring the Company's regular operation in line with the general strategy outlined by the Board of Directors. Comprised by a General Director, a Finance and Investor Relations Director, a Legal and Institutional Relations Director, a Generation and Transmission Operation and Maintenance Director, and an Administrative and Equity Director. It is incumbent upon Copel's Finance and Investor Relations Director (Holding) to perform the unpaid function at Copel GeT and as Finance Director of the other wholly-owned subsidiaries. The Company's Legal and Institutional Relations Director must perform the unpaid function of Legal and Institutional Relations Director of Copel GeT, Copel DIS and Copel Energia.

The Executive Board will be composed of at least three (03) members and a maximum of five (05) members, resident in the country, elected by the Board of Directors, with a unified term of office of two (02) years, allowed, at most, three (03) consecutive reappointments, as follows: one (01) General Director; one (01) Chief Financial and Investor Relations Director, one (01) Legal and Institutional Relations Director, and one (01) Director of Operations and Maintenance of Generation and Transmission and one (01) Administrative and Equity Director.

3.2.6 Statutory Audit Committee

Advisory body to the Company's Board of Directors, composed mostly of independent directors, chosen from among the members of the Board of Directors and in compliance with applicable legislation. This body aims to protect the interests of shareholders and other interested parties by monitoring the quality of the financial statements and internal controls, and the organization's compliance, integrity and risk management. The Company also has a Statutory Audit Committee for Subsidiaries – CAEGeT Subsidiaries, directly linked to the Board of Directors of Copel GeT, which exercises its attributions and responsibilities in advising the Board of Directors of companies directly or indirectly controlled by the Company, upon resolution of Copel GeT's Board of Directors. The Statutory Audit Committee (CAE) of Companhia Paranaense de Energia – Copel will exercise their duties and responsibilities with Copel GeT.

3.2.7 CAEGeT Subsidiaries - Statutory Audit Committee for Subsidiaries

The Company will also have a Statutory Audit Committee for Subsidiaries – CAEGeT Subsidiaries, directly linked to Copel GeT's Board of Directors, which will exercise its attributions and responsibilities in advising the Board of Directors of companies directly or indirectly controlled by the Company, upon resolution of Copel GeT's Board of Directors.

CAEGeT Subsidiaries will be composed of three (03) external members, chosen by Copel GeT's Board of Directors, elected and dismissed by such body, all with a unified term of office of two (02) years, allowed a maximum of three (03) consecutive reappointments, observing the following parameters: having a majority of independent members under the terms of Federal Law No. 13.303/2016; and, at least, one (01) member with recognized experience in corporate accounting matters.

3.2.8 Ethics Committee

The Ethics Committee is a Copel Holding body that assists the Board of Directors, created with the mission of contributing to the Company being permanently guided by ethical principles that are in line with Copel's values, the Global Compact's principles and the Corporate Governance principles. In addition, the Committee is responsible for ensuring the disclosure and effective application of the precepts and guidelines of the Code of Conduct by employees, managers and contracted parties. Its main attributions are to monitor the process of receiving and verifying reports received through the Whistleblower Channel,

periodically reviewing and issuing guidelines on the Code of Conduct, and also collaborating in the review of internal policies and rules related to the topic. The Committee is made up of the Governance, Risk and Compliance Director, the Corporate Management Director and the Legal and Institutional Relations Director, in addition to a member of the Board of Directors. The body, by its deliberation, may invite the Director of the area involved in the matter in question and the President of Copel Holding to assist in the decision making. The current format of the Ethics Committee was approved by the Board of Directors in December 2019; however, since June 2005, there is a structure responsible for the matter within the Company.

The body, by its deliberation, may invite the Director of the area involved in the matter in question and the President of Copel Holding to assist in the decision making.

3.2.9 Nomination and Evaluation Committee (CIA)

Copel's Appointment and Evaluation Committee is provided for in Section II of Chapter V of the Bylaws of a permanent nature, auxiliary to the shareholders, which will verify the conformity of the appointment and evaluation process of the Managers, fiscal councilors and members of statutory committees, according to the current legislation.

The Appointment and Evaluation Committee (CIA) and the Statutory Audit Committee (CAE) of Companhia Paranaense de Energia – Copel will exercise their duties and responsibilities with Copel GeT.

3.2.10 Standing Committee for the Disclosure of Relevant Acts and Facts

Copel Holding Body, advising the Company's Board of Directors, composed mostly of independent directors, chosen from among the members of the Board of Directors and in compliance with the applicable legislation. This body aims to protect the interests of shareholders and other interested parties by monitoring the quality of the financial statements and internal controls, and the organization's compliance, integrity and risk management.

3.3 Integrity

| GRI 102-16 |

Copel's Integrity Program was created based on Law No. 12.846/2013 (Anti-Corruption Law) to prevent, detect and remedy possible harmful acts that involve, for example, the occurrence of bribery, kickbacks, conflict of interest, fraud in bidding and payment processes, among others. Its rules are applicable to all employees, administrators and tax advisors.

The Code of Conduct, created in 2003, is periodically revised and is also subject to public consultation every four years. The document incorporates Copel's values, the principles of the UN Global Compact and corporate governance, and presents a set of conducts related to the themes of integrity, compliance, transparency, safety and health, social and environmental responsibility, respect and relationship with the various segments in which the Company operates.

The Code of Conduct is the instrument that guides the actions of all people who carry out activities on behalf of Copel and its equity interests, establishing parameters of conduct for employees, members of the Board of Directors, Boards and Committees, interns, suppliers, service providers and contracted parties. It is noteworthy that failure to comply with its principles and commitments subjects the individual to the penalties provided for in the functional discipline rule. The document is widely disseminated to Copel's employees and managers and delivered upon receipt protocol. It is also available to all interested parties on the Compliance Portal and is mentioned in Copel's Supplier Manual, delivered to each supplier at the time of signing the contract, at which time the Company's Term of Acknowledgment and Commitment to the principles and guidelines is also signed. For business partners, communication about the various anti-corruption measures, policies and standards is carried out in workshops, lectures and events.

Integrity training

The training courses are developed by Copel, in the Distance Learning (DL) modality, with the objective of bringing to employees and members of senior management the principles that guide the Company's conduct.

The disclosure and dissemination of the Integrity Program and other compliance initiatives are periodically carried out electronically throughout the Company. The entire content can be consulted through the Integrity Portal for the internal public and through the Integrity Section on Copel's website for the external public.

The Company's Integrated Report, available on Copel's website under Investor Relations, contains detailed information on the subject. (GRI 205-2)

3.3.1 Conflict of interest

GRI 102-25

Copel's guidelines for dealing with conflicts of interest are described in the bylaws and internal regulations of statutory bodies, according to applicable legislation, specific policy and the best corporate governance practices of the Brazilian Institute of Corporate Governance (IBGC).

According to Copel's Bylaws (Holding), Art. 77, the shareholder and the members of the Executive Board, the Board of Directors and Fiscal Council and statutory committees that, for any reason, have a direct, indirect or conflicting private interest with that of the Company in a given resolution, must abstain from participating in the discussion and voting of this item, even as representatives of third parties, with the reason for abstention being recorded in the minutes, indicating the nature and extent of their interest.

Additionally, in the Internal Regulations of statutory bodies, it is provided that in case the manager himself does not express himself, any of those present at the meeting who are aware of the fact must express themselves. After identifying the conflict of interest or particular interest, the administrator involved must be removed from the discussions and deliberations, and must temporarily withdraw from the Meeting.

Furthermore, the Policy on Transactions with Related Parties and Conflicts of Interest sets out the rules for transactions between related parties to be carried out in the best interest of Copel and its wholly-owned subsidiaries, based on principles of independence, competitiveness, compliance, transparency, equity and commutativity. The Policy is also applicable, as a recommendation, to subsidiaries and joint ventures, and is recommended for associated companies and other equity interests, in compliance with their corporate procedures.

Conflicts dealt with are recorded in the minutes of the respective meetings of the Board of Directors or other Company bodies and made available on Copel's website.

3.3.2 Anti-corruption practices

Copel's anti-corruption practices are based on Law 12.846/2013 (Anti-Corruption Law) and on Decree 8.420, which deal with the implementation of integrity programs, as well as the administrative accountability of legal entities for the practice of acts against the public, national or foreign administration.

The Company's internal control structure follows the standards of the Committee of Sponsoring Organizations of the Treadway Commission (Coso), an internationally recognized framework, and Copel's Integrity Program allows for the integrated management of internal controls, as well as providing reasonable assurance on authorizations and records of adequate accounting transactions, enabling the preparation and disclosure of financial reports in accordance with current regulations.

In addition to the Integrity Program and the Code of Conduct, the most relevant guiding instruments for preventing and fighting corruption within the Company, Copel has corporate policies, periodically reviewed and in line with the US Foreign Corrupt Practices Act (FCPA), of 1977, and the Sarbanes-Oxley Act, 2002, and Coso. Considering Copel (Holding) and its wholly-owned subsidiaries, 100% of Copel's operations were submitted to an assessment of risks related to corruption in 2021, without any cases of this type being identified. GRI 205-1, 205-3

3.3.3 Communication channels

GRI 102-17

In order to receive opinions, criticisms, complaints, denunciations and queries, Copel provides communication channels that contribute to the fight against fraud and corruption, through the external reporting channel, as well as the clarification of doubts from consumers and other interested parties, by the ombudsman. Another positive characteristic of the channels is the expansion of the relationship with the interested parties. The Company encourages these parties to report any situation that indicates a violation of ethical principles, policies, rules, laws and regulations or other misconduct. The communication channels are publicized through articles and banners posted at work centers, on the intranet and on the internet. In 2021, advertisements were broadcast on radio stations in the State of Paraná and in training related to the integrity topic given to employees, administrators and directors, among other audiences.

The management of the Whistleblower Channel is carried out by Copel Holding, in the Governance, Risk and Compliance Department. Complaints about: harassment, discrimination, corruption, destruction or damage to company assets, misconduct, favoritism, fraud or theft of goods and/or money, irregularities in financial statements and/or management reports, environment, noncompliance with internal policies and/or procedures, misuse of Copel's resources, leakage or misuse of information, violation of laws, violations of Law No. 12.846/2013 (Anti-Corruption Law) and other illegalities.

All information received by Contato Seguro, an external, independent company specialized in receiving complaints and forwarding them according to the determined flow. The Ethics Guidance Committee is the collegiate body whose purpose is to ensure that the ethical and moral positioning of Copel and its Wholly-Owned Subsidiaries is maintained at high levels. The Commission for the Analysis of Moral Harassment Complaints is the body responsible for analyzing moral harassment complaints at Copel and its Wholly-Owned Subsidiaries. Copel has an Ombudsman with its processes certified by ISO9001 and in 2021 it was elected the best ombudsman by the National Electric Energy Agency (Aneel).

The channel is intended to receive complaints related to all Copel Group companies, and the demands are not segregated by company. The Company's Integrated Report, available on Copel's website under Investor Relations, contains detailed information on the subject. (GRI 102-34)

Reporting Channel



0800 643-5665



www.copel.com/canaldedenuncias



Available 24 hours a day, 7 days a week



Open to internal and external audiences

Commission for the Analysis of Moral Harassment Complaints (CADAM)



Commission for service and support for all employees who are victims of moral harassment in the work environment. The information is confidential and both the complainant and the accused have a guarantee of identity preservation



www.copel.com/canaldedenuncias



Available upon demand



Open to the internal audience only

Ethics Committee



A collegiate body that assists the Board of Directors, responsible for ensuring the dissemination and effective application of the precepts and guidelines of the Code of Conduct by employees, managers and contracted parties.



www.copel.com/canaldedenuncias



Available upon demand



Open to internal and external audiences

3.4 Audits

3.4.1 Internal audit

Internal auditing is the independent and objective provision of assurance and consulting services for the purpose of adding value and improving an organization's operations through the application of a systematic and disciplined approach to analyzing and improving the effectiveness of risk management, control and corporate governance processes. Regarding corporate governance, the internal audit activity should evaluate and make appropriate recommendations for improvements, with the purpose of promoting ethics and appropriate values within the company; ensure effective performance management and accountability; effectively communicate risk and control-related information to appropriate areas of the company; and effectively coordinate activities and communicate information among the board, external and internal auditors, and management.



3.4.2 External audit

Regarding External Audit, Copel GeT follows Copel's Corporate Governance guidelines, under the terms established by Instruction No. 381/2003, of the Securities and Exchange Commission (CVM), in an internal Corporate Governance rule and under the review and supervision of the Statutory Audit Committee. The Company has a contract with Deloitte Touche Tohmatsu Auditores Independentes 03.08.2021, to provide auditing services. The work necessary for the evaluation of the fiscal year will be extended until 09.07.2022, the date that will correspond to its term, and may be extended for another 42 months. The Company changes the company responsible for auditing its financial statements following the independent auditors' rotation criterion, in accordance with CVM Resolution No. 23/2021.

When contracting other services from its external auditors, the Company's practice provides for a prior analysis by the Audit Committee of the Board of Directors, which must consider in this assessment whether a relationship or service provided by an independent auditor: (a) creates conflicting interests with its audit client; (b) puts them in a position to audit their own work; (c) results in acting as a manager or employee of the audit client; or (d) places them in the position of advocate for the audit client. The Audit Committee verifies whether any service provided by the independent audit firm may actually or apparently impair the firm's independence. Whenever necessary, this committee can count on the technical support of the Internal Audit, or of an independent consultancy, for the technical evaluation that may be required in each specific case, and the discussions on contracting other services by the independent auditor are recorded in the meeting minutes of this collegiate.

3.5 Risk management

| GRI 102-11, 102-15, 102-29, 102-30, 103-1, 103-2, 103-3, 201-2, 403-2, EU21 |

By pointing out threats and opportunities, providing information for decision making, risk management is directly related to Copel's sustainable growth. The Company's Risk Management Policy, in force since 2009, provides for the integration of this management with the definition of strategies and performance monitoring, the formal establishment of roles and responsibilities, the constitution and maintenance of adequate infrastructure, the definition of a common methodology for the entire Company and the risk appetite statement. To this end, legal, regular, socio-environmental and reputation aspects are considered, in support of the decision-making process and the execution of operational activities, while the risk classification criteria, the probability of occurrence and any impacts generated were previously defined, as well as the implementation of responses.

The Risk Management Policy covers practices for the disclosure and control of incidents; monitoring the adequacy and effectiveness of risk responses; the accuracy and completeness of disclosures; the timely correction of deficiencies; and periodic communication to the Statutory Audit Committee and the Board of Directors, responsible for monitoring and inspecting risk management at Copel. Risk controls are also tested annually by an external audit.

The policy's rules are applicable to corporate areas, wholly-owned subsidiaries and subsidiaries, and are recommended to jointly controlled companies, associated companies and other equity interests of Copel. Its guidelines are based on the Company's values, on its Code of Conduct and on the guidelines issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The last review took place in 2021 and was approved at an ordinary Board of Directors meeting held in October, after the favorable recommendation of the executive board and the Statutory Audit Committee. The Company's senior management undergoes annual training on the document, while employees are trained on the risk management methodology.

Climate change has a direct impact on Copel's activities. The most significant risks for the Company as a result of these changes are changes in the operation of assets, loss of revenue from replacement of equipment and

The Company's Risk Management Policy, in force since 2009, provides for the integration of this management with the definition of strategies and performance monitoring, the formal establishment of roles and responsibilities, the constitution and maintenance of adequate infrastructure, the definition of a common methodology for the entire Company and the risk appetite statement.

facilities due to climate vulnerability, and the generation of fees due to the emission of greenhouse gases. To mitigate these impacts, Copel has been carrying out studies to adapt the business, aiming to maintain its operations within the standards established by the regulatory body. Direct impacts primarily affect the company's operation, that is, its internal processes, and externally the way customers and the market see it, which translates into the performance and added value of its operations. Indirectly, climate change affects the company's learning and growth curve, the profile of customers and suppliers who want to connect with our brand, and, above all, how our behavior can influence people in our community.

Some of the main threats to Copel GeT are described in the model [on page 39](#). Further information on the topic is available on Form 20-F and on the Company's website. Copel is aware that not properly managing its risks can generate financial, image, operational or socioenvironmental impacts, which, consequently, result in financial losses, damage to reputation and the normalization of operations, or damage to environmental resources and society.



The strategic risks associated with its operations are reviewed during the preparation of the Strategic Planning, work carried out jointly by the top management of Copel (Holding) and its subsidiaries through the identification and analysis of risks, definition of a control and contingency plan and establishment of monitoring actions. Included in the operational risk category, socioenvironmental risks are those related to the impacts of Copel's operations on society and the environment, which may affect reputation and generate sanctions from inspection bodies. They are also related to the effects of severe weather, the rupture of dams, the scarcity of natural resources, the mobilization of communities or health crises, which may affect the performance of services provided and cause losses to Copel.

The opportunities arising from sustainable management are reflected in the new businesses that the Company has been developing, such as prospecting businesses for generating energy from biomass and biogas from agro-industry, forestry assets and residues and the decomposition of organic matter from solid waste.

In order to mitigate this risk and ensure the integrity of the dams under its responsibility, Copel acts preventively through criteria and procedures in line with the best engineering practices and current legislation.

3.5.1 Dam safety

GRI EU21

The National Dam Safety Policy (PNSB) was defined by Law No. 12,334, enacted on September 20, 2010 and amended on September 30, 2020. It establishes standards, regulations, monitoring procedures, among other guidelines, for dams destined to the accumulation of water for any use, the final or temporary disposal of tailings and the accumulation of industrial waste. Additionally, the National Electric Energy Agency (Aneel) within the scope of the electricity sector, regulated Law 12,334 through Resolution No. 696, approved on December 15, 2015.

The dams are important structures for the Company's business, as they concentrate most of the energy generation capacity. However, as in any engineering work, they present an intrinsic risk of failure associated with different factors, internal or external. In order to mitigate this risk and ensure the integrity of the dams under its responsibility, Copel acts preventively through criteria and procedures in line with the best engineering practices and current legislation. The hydroelectric plants have a Dam Safety Plan (PSB) and an Emergency Action Plan (PAE), in compliance with legal parameters. The Company also has a Dam Safety Engineering Sector,



composed of professionals dedicated to the safety of these structures, responsible for carrying out maintenance procedures and continuous monitoring of dams and associated structures.

It's important to point out that hydroelectric power plant dams have well-established construction standards and safety criteria and that safety verification is carried out at all stages – design, construction and operation. In order to evaluate and validate the procedures provided for in the Emergency Action Plans (PAE), 2 tabletop-type internal simulations (tabletop exercise) were carried out in 2021. The Emergency Action Plans (PAE) are disclosed and delivered for representatives of city halls and Civil Defense coordinators of the municipalities potentially affected in the event of a dam failure, as well as for state Civil Defense coordinators, in addition to being subject to inspection by Aneel.



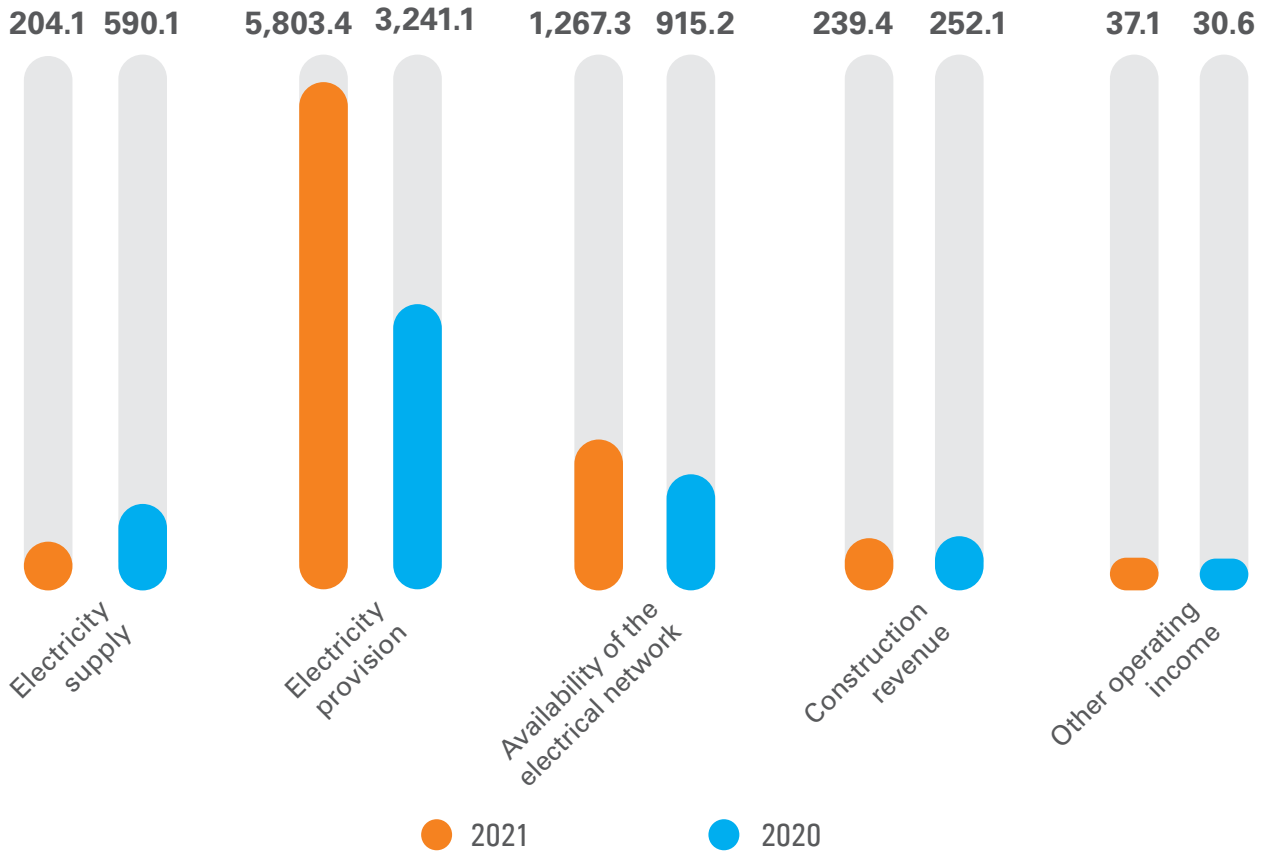
4

ECONOMIC-FINANCIAL DIMENSION

4.1 Net operating revenue

GRI 103-1, 103-2, 103-3, 102-7

In 2021, Net Operating Revenue increased by R\$ 2,522.3 million, representing a 50.2% increase compared to 2020. This variation is mainly due to:



1) reduction of R\$ 386.0 million in Revenue from Electricity Supply, mainly due to the change in the commercialization strategy, reducing the volume with final consumers and increasing it for traders classified in the electric energy provision group;

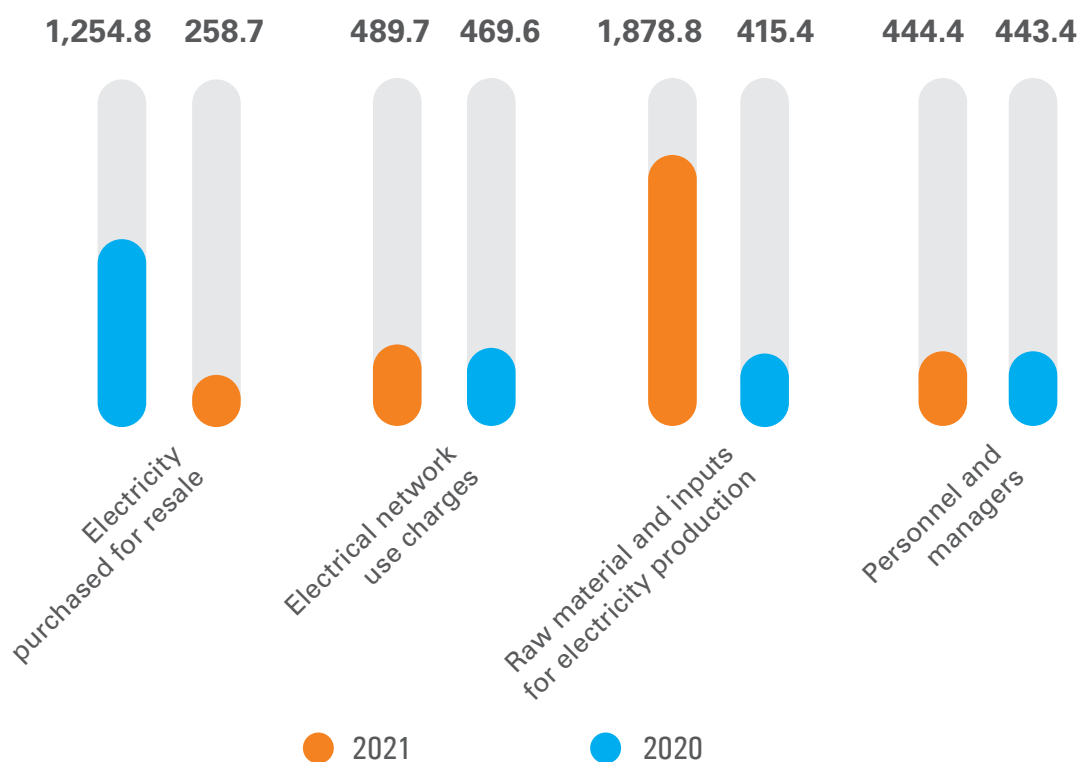
2) increase of R\$ 2,562.3 million in Electricity Provision, mainly due to the UEGA thermal plant's dispatch, which generated 2,195 GWh in 2021 due to the water crisis, 79% higher than the generation of 1,224 GWh in relation to 2020, as well as due to the higher average PLD of R\$ 280.37 in 2021, 52% higher than the average PLD of R\$ 184.42 in 2020;

3) increase of R\$ 352.1 million in Revenue from Availability of the Electricity Network, essentially due to the result of the remuneration on the energy transmission contracts superior in relation to the same period of the previous year, due to the increase of the contractual indexes (IGPM and IPCA) applied to the asset balance, which was also increased with new works;

4) increase of R\$ 6.5 million in Other Operating Income, mainly the increase in income from services rendered and in leases and rentals. Operating costs and expenses.

4.2 Operating costs and expenses

In 2021, operating costs and expenses increased by R\$ 851.0 million, representing a 30.1% increase compared to 2020. This variation is mainly due to:

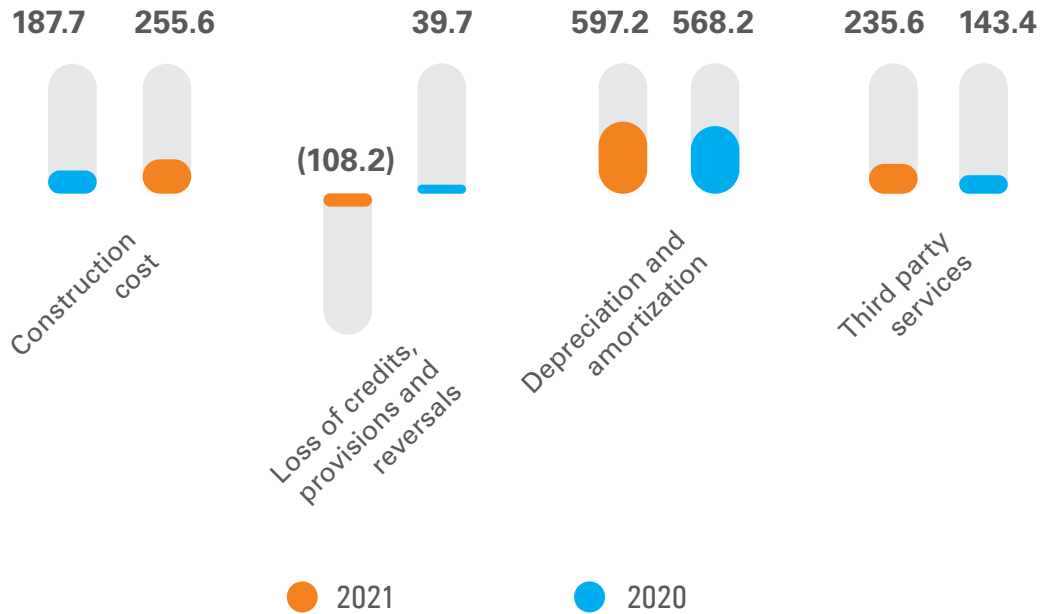


1) increase of R\$ 996.1 million in Electricity Purchased for Resale, mainly due to the impact of the water crisis on energy prices and to cover the volume of energy sold in the period;

2) an increase of R\$ 20.1 million in Electric Network Use Charges, mainly due to the contracts' tariff readjustment for the basic network;

3) increase of R\$ 1,463.4 million in raw materials and inputs for electricity production to meet the dispatch of a thermoelectric plant (UEGA);

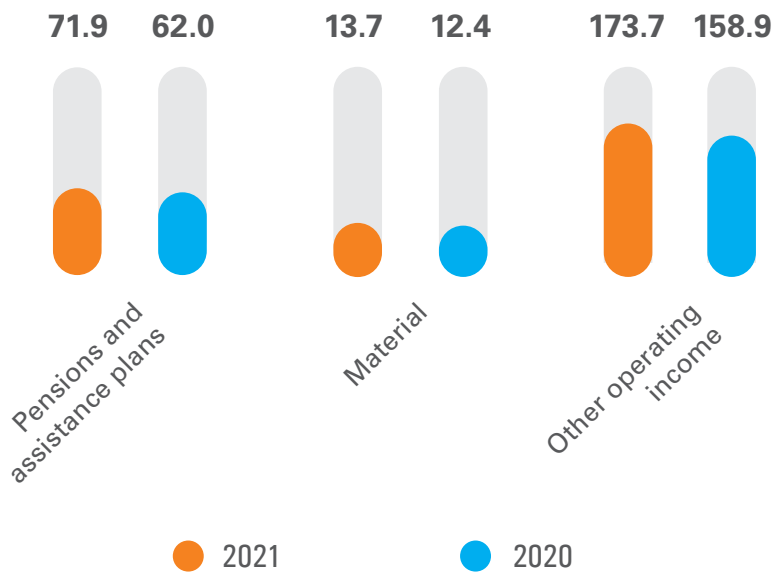
4) increase of R\$ 1.0 million in Personnel and Managers, mainly reflecting the salary adjustment of 10.78% in October 2021 resulting from the higher inflation rate in the period (3.89% in October 2020), according to the collective bargaining agreement and the R\$ 27.8 million increase in the provision for the voluntary termination program in the period, offset by the R\$ 23.3 million reduction in the provision for performance and profit sharing, the reduction in the number of employees and the cost reduction policy.



5) reduction of R\$ 67.9 million in construction costs, reflecting investments made in energy transmission infrastructure;

6) reduction of R\$ 147.9 million in Estimated Losses, Provisions and Reversals, mainly due to the R\$ 40.9 million decrease in provisions for litigation and the Impairment reversal in the generation segment, mainly due to the higher dispatch projection from UEGA;

7) R\$ 92.2 million increase in third-party services, due to the the electrical system’s maintenance cost increase, due to the increase in O&M services with the full entry of wind farms and maintenance of the gas turbine;



8) R\$ 14.8 million increase in Other operating costs and expenses, mainly due to the financial compensation increase for the use of water resources, taxes and leases and rents.

Additionally, in September 2021, compensation for the renegotiation of the hydrological risk was recognized through the right to extend the concession of Copel Geração e Transmissão plants referring to the portion of the costs incurred with the GSF, assumed by the holders of the hydroelectric plants participating in the Energy Reallocation Mechanism - MRE, in the amount of R\$ 1,560.9 million (see Note 1(b) of the financial statements).

4.3 Equity Income

The Equity Income for 2021 was 91.1% higher compared to the same period in 2020, mainly due to the equity's positive result in the jointly-controlled subsidiaries of electric energy transmission, mainly as a result of the higher monetary correction on the contract assets, the completion of works and the lower provision for arbitration litigation with EPCista.

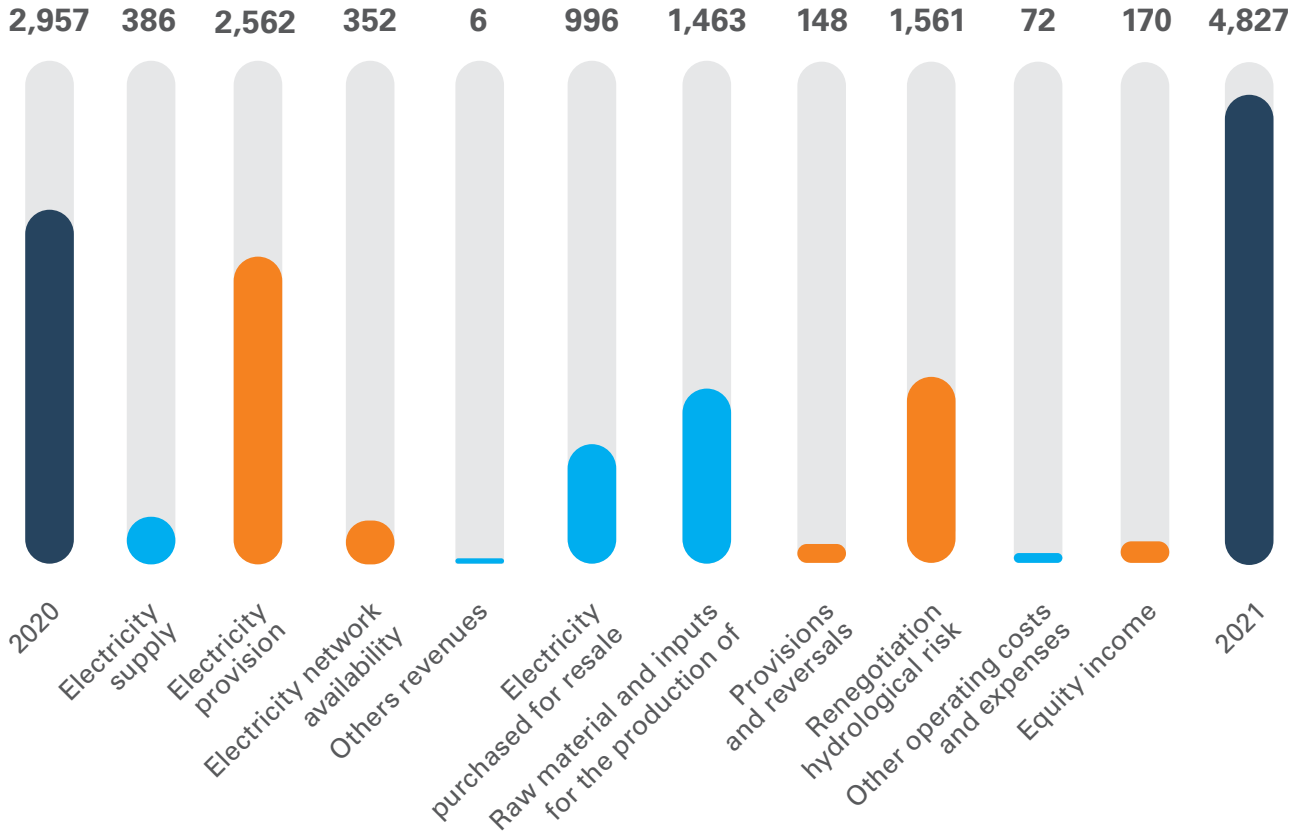
4.4 EBITDA or LAJIDA

Consolidated Ebitda is a non-accounting measurement adopted by the Company, calculated in accordance with CVM Instruction No. 527/2012, consisting, as shown in the table below, of net income plus taxes on income, financial result, depreciation and amortization.

Consolidated

In R\$ million	2021	2020
Net profit	2,820.1	1,619.3
Deferred IRPJ and CSLL	756.2	177.3
IRPJ and CSLL	214.8	325.4
Financial, net expenses (income)	438.3	266.5
Lajir/Ebit	4,229.4	2,388.4
Depreciation and Amortization	597.2	568.2
Lajida/Ebitda	4,826.6	2,956.6
Net Operating Revenue - ROL	7,551.4	5,029.1
Ebitda Margin% (Ebitda ÷ ROL)	63.9%	58.8%

The Company's Ebitda in 2021 was R\$ 4,826.6 million, an increase of R\$1,870.0 million compared to 2020, which represents an increase of 63.2%.



4.5 Financial result

The financial result showed an increase in expenses of R\$ 171.9 million, mainly due to higher debt and debt charges.

4.6 Indebtedness

The Company finances liquidity and capital needs mainly with funds provided by operations and through financing, aiming at the expansion and modernization of the businesses related to the generation and transmission of energy. It's important to point out that the Company seeks to invest in projects and, for this purpose, uses financing lines available in the market, which make sense in Copel's capital structure, in terms of financial leverage in view of the return of projects. It should be noted that the prospects for financing, as well as cash available, will be sufficient to meet the investment plan for the year.

In 2021, the following resource was obtained:

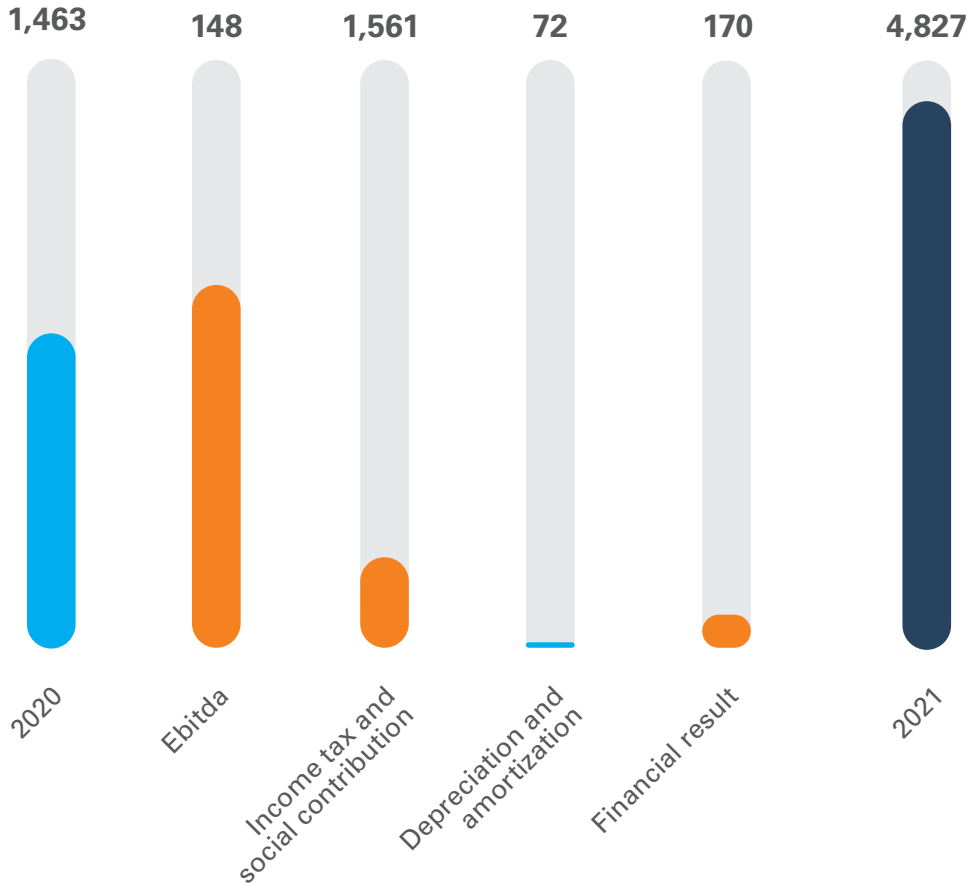
Admission - 2021 (In R\$ million)	Company	Financier	Amount
Lot E Financing Agreement	Copel Geração e Transmissão	BNDES	51.0
Colíder Financing Agreement	Copel Geração e Transmissão	BNDES	1.2
7th Issue of Debentures	Copel Geração e Transmissão	Debenturistas	1,500.0
Financing Agreement	Jandaíra I	Banco do Nordeste	7.3
Financing Agreement	Jandaíra II	Banco do Nordeste	18.3
Financing Agreement	Jandaíra III	Banco do Nordeste	21.5
Financing Agreement	Jandaíra IV	Banco do Nordeste	21.9
Financing Agreement	Vilas wind farm	Banco do Nordeste	13.1
Total			1,634.3

Payments made in the year totaled R\$ 1,262.5 million, of which R\$ 961.5 million were principal and R\$ 301.0 million were charges. The long-term debt maturity schedule, including loans, financing and debentures is:

	2023	2024	2025	2026	2027	Após 2027	Total
	1,072	740	1,152	861	293	2,079	6,197
Total	1,072	740	1,152	861	293	2,079	6,197

4.7 Net profit

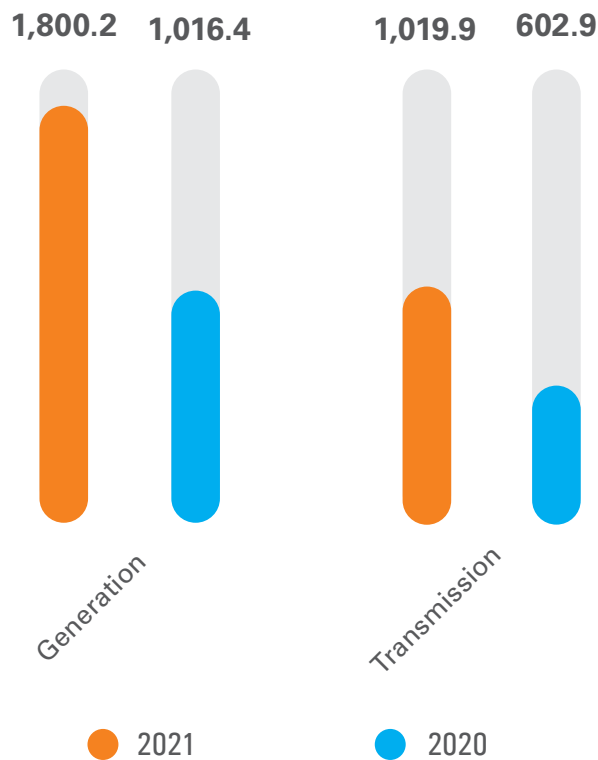
In 2021, consolidated net income was R\$ 2,820.1 million, 74.2% higher than the R\$ 1,619.3 million obtained in the previous year. Of the net income verified in 2021, calculated in accordance with corporate law, the Company proposes the payment of annual dividends in the amount of R\$ 1,520.4 million, of which R\$ 240.0 million in the form of Interest on Equity and R\$ 1,292.1 million in the form of Dividends.





4.7.1 Net Profit by Segment

Consolidated net income segregated by segment can be represented as follows:

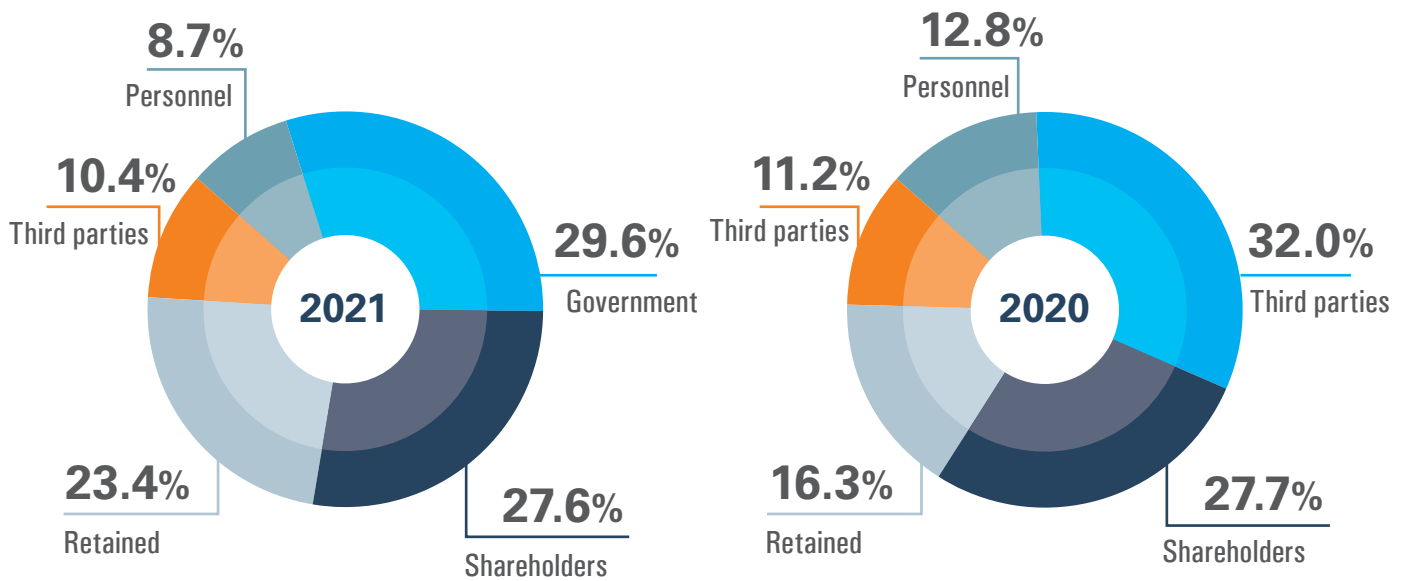


4.8 Added Value

In 2021, Copel Geração e Transmissão registered R\$ 5,539.0 million in Added Value - total 50.6% higher than the previous year, in the amount of R\$ 3,679.0 million. The full statement can be found in the Financial Statements.

Added Value

(in percentage)



4.9 Investment program

The investment program for 2022 was approved at the 221st Ordinary Board of Directors Meeting. The actual and expected values are as follows:

(in R\$ million)	Realized		Forecast	Variation %
	2021	2020	2022	2021-2020
Wind projects	216.9	56.8	179.0	281.9
Generation	74.6	60.9	76.5	22.5
Transmission	203.4	339.6	151.8	(40.1)
Total	494.9	457.3	407.3	8.2



5 SOCIAL AND SECTOR DIMENSION

5.1 Internal social aspects

5.1.1 Human capital

GRI 103-1, 103-2, 103-3



Copel's premise is to align the workforce's expectations with the business challenges. To this end, people management is carried out in accordance with technical, legal and financial feasibility, but also in line with the best market practices and corporate culture. All projects and programs developed are carried out in accordance with the premises of the Company's Strategic Map, the learning and growth objectives of which are: to consolidate the culture of safety, health and quality of life; structuring a meritocracy and consequence management system; develop high performance teams; optimize the workforce and promote a culture of innovation.

The main documents that guide people management are internal regulations and management commitments. Financial resources are reserved for compensation, benefits and development programs, established in accordance with the best market practices. Investments are also made in training and qualification, which, in 2021, corresponded to R\$ 1.1 million.

Copel assesses employee satisfaction with people management through internal culture, innovation and organizational climate surveys. The Company also considers external rankings, such as the Great Place to Work, in which it appeared, in 2021, for the second consecutive year. Based on the results of these initiatives, action plans are drawn up to improve the most critical aspects. GRI 102-43

Profile

Its own employees by employment contract and gender | GRI 102-8

Permanent contract ¹	Its own employees	Third party employees	Overall total ³
	345	81	426
	1,178	353	1,531
Total	1,523	434	1,957

Notas:

- Copel does not have its own employees with temporary contracts.
- The data refer to Copel and its wholly-owned subsidiaries. The reduction in the total number of employees from 6,667 to 6,383 is mainly due to the dismissal of 153 employees who joined the Incentive Dismissal Program (PDI). In all, 287 employees left the Company in the year. The replacement of personnel through recruitment through a public contest was of only one employee, who was added to the three employees reinstated on the INSS initiative to cancel their disability pensions. There are no other seasonal factors that generate significant variations in the number of employees.
- In addition to the informed third parties, Copel has 106 outsourced apprentices.

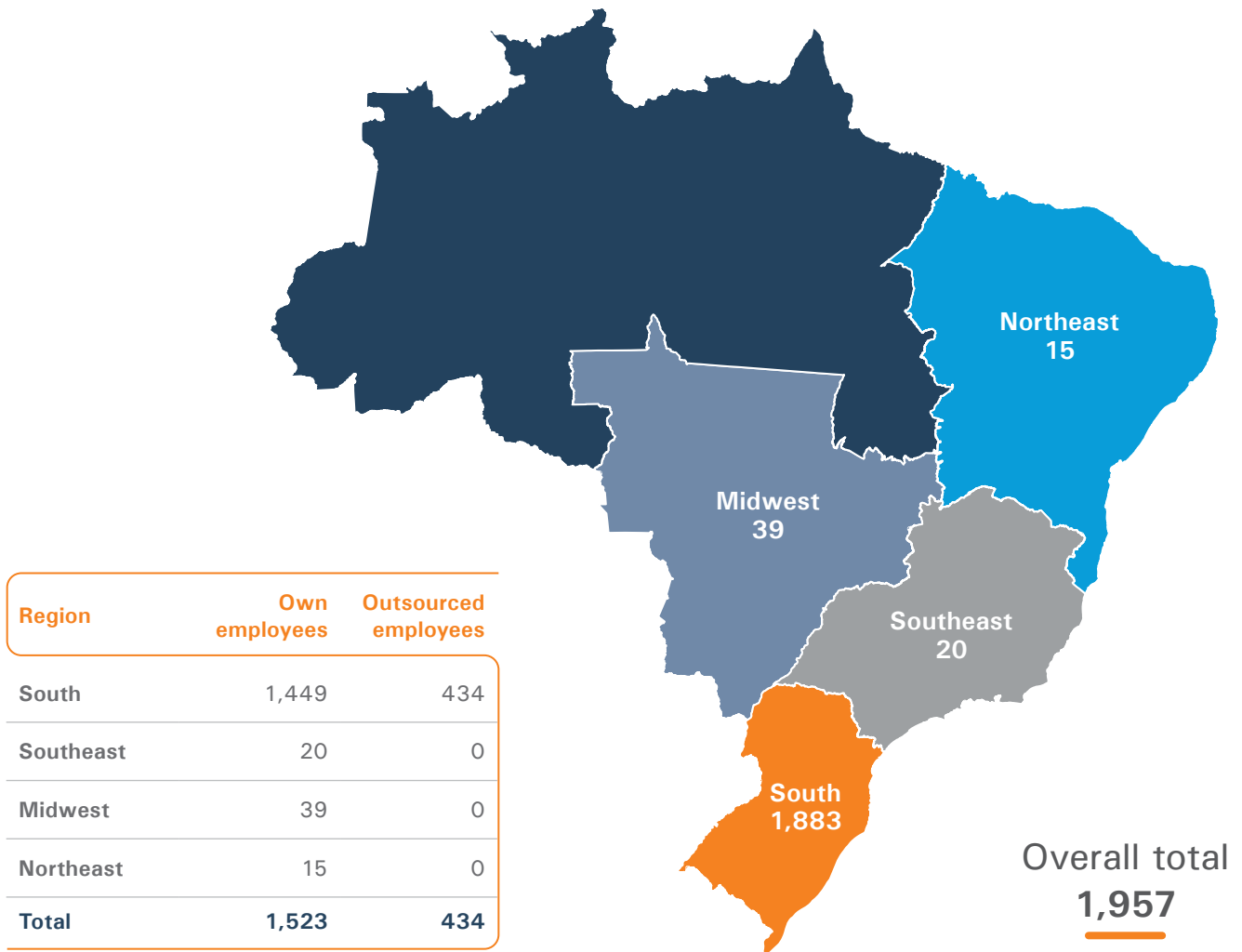


Total employees by job type and gender | GRI 102-8

Third party employees	Full time	Part-time	Total by gender
♀	345	0	345
♂	1,178	0	1,178
Total	1,523	0	1,523

Third party employees	Full time	Part-time	Total by gender
♀	81	0	81
♂	353	0	353
Total	434	0	434
Overall total (its own and third parties)	1,957	9	1,957

Total employees by region | GRI 102-8



Employees by job category and gender | GRI 102-8

	Total by job	♀	♂
Its own employees			
Operational	23	0	23
Intermediate Technical Professional	538	39	499
Intermediate Professional	394	159	235
Higher Level Professional	568	147	421
Total by gender	1,523	345	1,178
Third-party employees by job category			
Conservation/Security of Facilities	229	62	167
Engineering Works	82	1	81

	Total by job	♀	♂
Auxiliary Services	18	3	15
Administrative Services	13	10	3
Business Services/Support	0	0	0
Technical/Operational Services	92	5	87
Total by gender	434	81	353

Employment

New hires and employee turnover | GRI 401-1

	Total admissions ¹	Admission rate (%)	Total disconnections	Turnover rate (%)
♂	1	100%	31	0.25%
♀	0	0	3	0.02%
Total²	1		34	0.27%
By age				
Under 30	0	0	0	0.00%
Between 30 and 50 years old	1	100%	18	0.15%
Above 50 years old	0	0%	16	0.13%
By region				
South	0	0%	31	0.24%
Southeast	0	0	1	0.01%
Midwest	0	0	2	0.02%
Northeast	1	0%	0	0.01%

Notes: the turnover rate is calculated using the formula (hired + terminated/2)/by the total number of employees in the year.

5.1.2 Remuneration and benefits

GRI 102-38, 102- 39, 202-1, 405-2

Copel’s careers and their respective remuneration are established in the document “Structure of Careers and Remuneration,” based on market practices for position, function and level of education and qualifications. The benefits and short-term variable compensation are established in the Collective Bargaining Agreement, held annually between the unions and Copel. The human resources area is responsible for managing this process, which aims to identify positions and functions necessary for the development of the Company’s activities; define the training required to perform the activities of each position and function; establish levels of maturity and complexity of positions and functions to meet the job demand; establish rules for the functional (vertical) and salary (horizontal) movement of employees; and highlight opportunities for career growth and development.

The ratio between the total annual remuneration of the highest paid individual in the Company and the total average annual remuneration of all employees is 22.03% (the total average annual remuneration of all employees was calculated by adding the remuneration of all employees, divided by the total number of employees, excluding the highest paid). The proportion of increase in total annual remuneration was 100%.

Percentage ratio of the local minimum wage to the organization’s lowest salary, broken down by employee type and gender | GRI 102-8

Its own employees	National minimum wage	♀	♂
Lowest salary paid by Copel	1,100.00	2,217.05	2,330.19
Ratio of the lowest salary paid in relation to the minimum salary	1,100.00	202%	212%

Note: there is no variation between the lowest salary paid to men or women. Employees working four or six hours a day were not considered. Copel does not have information on the salaries paid to outsourced employees.

The benefits package offered by Copel to its staff exceeds that defined by law, being compatible with that of reference companies in people management. This package is granted to all employees, regardless of their working hours. Annually, Copel’s Balance of Benefits (BBC) is published, a statement of salary, bonuses, profit sharing, pension plan, food allowance, day care allowance, performance award and health plan, among others. The BBC is available to employees on the SAP Portal. GRI 401-2

Copel also recently launched the Home Office Program, which adopts a hybrid work regime, with voluntary membership. In this model, employees can fulfill part of their workday in person and part at a distance. In 2021, a greater focus was given to mental health, which is why the Plenamente program was created based on the identified need to provide guidance and support to employees, especially due to the impacts and effects of the pandemic caused by Covid-19. The workshops offered and the Plenamente Learning Trail bring information about psycho-emotional health, emotional balance, concepts and prejudices. And, through a partnership with

Fundação Copel and its EquilibradaMente program, psychological support is offered 24 hours a day to all Copel employees.

Still thinking about caring for employees, Copel created the Primary Health Care Unit (APS), at the Km3 hub. The service center is the place where employees can perform primary and periodic health exams, with a focus on prevention, in addition to prophylactic dental care. The APS has medical and dental consultation rooms, exam collection room, pharmacy, gynecological care and stabilization room, for urgent cases. The benefit extends to family members and does not charge co-participation.

Parental leave

GRI 401-3

All of Copel's own employees are entitled to parental leave. The company adopts the benefit of six months for women and 20 days for men. In addition, in the case of women, after returning from leave, the working day is reduced to 6 hours for 60 days for breastfeeding. In 2021, 1,523 Copel GeT employees were entitled to leave. Of this total, 41 men and 12 women took advantage of this right and all returned to work after leave, which represents a rate of return of 100%. Considering leaves taken in 2020, with return in 2021, 49 men and 17 women remained at work for 12 months after returning to activities

5.1.3 Performance management

Copel has been running its Performance Management Program, called Nossa Energia, since 2013. The intention is that, at each cycle, lessons learned and improvements are acquired to provide greater adherence to the Company's culture and reality.

Until the 2020 cycle, evaluated in 2021, the Nossa Energia program consisted of Organizational Competencies evaluated equally by all employees. For managers, the People Management Competency was also added. The program subsidizes decision-making regarding promotions, functional suitability, participation in conferences, training, graduate programs and foreign language courses, among others.

For the 2021 cycle, in line with Copel's strategic objectives, defined in the Strategic Map (2021-2025), the Nossa Energia program was revitalized, with a focused and structured Performance Management program with well-defined competencies as a guideline. This revitalization process counted on the participation of a large part of Copel's leadership and with the support of the consulting firm of Fundação Instituto de Administração - FIA/USP.

The new Nossa Energia model is anchored on the following pillars: Competencies, Areas of Operation and Levels of Complexity, which seek to assess and differentiate the attributions and responsibilities of professionals, according to their role, development, maturity and career evolution. The model also started to have self-assessment, mid-term assessment and the preparation of development plans as mandatory steps for all employees. Furthermore, the evaluation consistency analysis step was incorporated into the evaluation process flow, which

aims to enable a greater degree of balance and homogeneity in the application of the evaluation, through the consolidation of previous evaluations and critical analyzes with recommendations pointing out some situations that must be observed by managers.

As a rule, the program covers all Copel employees considered suitable, with the exception of graduates, newly hired / reinstated or on leave who worked less than 180 days during the assessment cycle. In this last cycle, employees belonging to the risk group were also dismissed, unable to work (in person or remotely) for 180 days or more, due to the nature of the activities and/or procedures related to the coronavirus pandemic (Covid-19). As a result, in 2021, despite the persistence of the difficulties imposed by the pandemic, 100% of the employees eligible to receive the evaluation were evaluated. (GRI 404-3)

5.1.4 Professional development

GRI 404-1, EU14

Professional development at Copel is guided by the management of competencies, determined by the identification of the training and qualification needs of the staff. Annually, managers select training and courses according to the individuality of each one, analyzing the skills required by the area or focusing on meeting corporate strategies. In conjunction with development actions, teams are encouraged to be productive and directed to achieve organizational goals through Profit Sharing (PLR) and the Copel Performance Award (PPD).

Copel has dedicated efforts to develop a culture of meritocracy and management of consequences, aiming to have high-performance professionals on its staff. To achieve this objective, it has improved the management of professional performance, having recently added to the practices already adopted in the variable compensation program, through which it intends to align the performance of employees and managers with its strategic objectives.

The Corporate Education Policy establishes guidelines for the promotion of training actions, ranging from basic training to postgraduate and research courses. Actions are organized into corporate programs; training for qualification (aimed at basic training for the job's execution); mandatory training (courses aimed at specific activities); training for professional development; events (seminars, lectures, workshops, congresses, etc.); and research and development projects.

Training related to the Integrity Program, sustainability, leadership and preparation for the future, among others, is under the responsibility of the Corporate University (UniCopel).

In 2021, Copel GeT carried out training aimed at employee safety, with 1,602 participants in refresher and improvement courses for the main Regulatory Rules, such as NR10 – Working with Electricity, NR35 – Working at Heights and NR33 – Work in a Confined Space.



In addition, innovation was a prominent theme. In 2021, Inov+GeT promoted a series of trainings with professionals and professors that are reference in the market. Based on suggestions and assessments of the progress of innovation proposals, the themes to be explored during the year were: creativity, design thinking and agile culture. Creativity and Innovation classes were offered and a marathon of workshops and mentoring began, involving employees from different areas and with a very complete curriculum, which combines theory and experimentation. In 2021, 120 hours of training and 70 hours of mentoring were recorded in this specific circuit.

Total and average hours of training by employee category | GRI 404-1

	Operational	Intermediate Prof.	Intermediate Tec. Prof.	Top Level Prof.	Total
 Total employees	23	394	538	568	1,523
 Hours of training	559.50	6,63.80	25,145.92	27,365.60	59,710.82
 Average training hours	24.33	16.85	46.74	48.18	39.21



Total and average hours of training by gender | GRI 404-1

	Total employees	Hours of training	Average training hours
	345	10,607.80	30.75
	1,178	49,103.02	41.68
Total	1,523.00	59,710.82	39.21

Employee training in human rights policies or procedures | GRI 412-2

Total hours dedicated to human rights training	7.00
Percentage of employees who received training on human rights	0.3%

Note: the data refer to a course available to employees, not mandatory, on Human Rights, main aspects and concepts and on human rights and work.

5.1.5 Investment in human capital

GRI 201-3, 404-2, EU15

Supplementary pension and retirement plan

Copel offers, through Fundação Copel, a supplementary pension plan for retirement, in which the employee has the possibility of forming a financial reserve fund during his professional life. For each regular contribution, the sponsor (Copel) contributes the same amount and employees have the option of making contributions to increase future income, without the sponsor's counterpart. The reserve formed is transformed into a benefit at the time of retirement. Upon retirement, the employee receives a monthly amount for life, which is calculated based on the accumulated total, that is, according to their savings reserve. All Copel employees are eligible for retirement plans, simply by joining, which also makes them beneficiaries of the health plan.

In addition, Fundação Copel promotes Viva Tranquilo, a financial and social security education program for employees, on the importance of a supplementary pension plan. It also encourages employees to transfer their pension from banks and insurance companies to the Foundation. On the institution's page, the employee can simulate the value of his future benefit based on his current contribution and extra contributions. Viva Tranquilo helps employees in their transition to retirement, addressing issues such as managing finances and the importance of working life. In addition, Copel has maintained, since 1979, the Retirement Preparation Program (PPA), with a series of lectures on social security financial education, consumption and savings behavior, entrepreneurship, quality of life and health.

Current or estimated percentage of workers who may retire in the next 5 or 10 years by job type | GRI EU15

Job type	%
Line and connection workers	30.00%
Power plant operators	17.17%
Engineers	17.11%
Maintenance mechanics	18.70%
Others	29.35%

Permanent employees by job type and region who can retire in the next 5 or 10 years		
Regions	Job type	%
South	Line and connection workers	32.39%
	Power plant operators	19.54%
	Engineers	17.63%
	Maintenance mechanics	19.82%
	Others	30.04%
Southeast	Line and connection workers	11.11%
Midwest	Maintenance mechanics	10.00%
Northeast	Others	50.00%

5.1.6 Diversity

GRI 406-1

The encouragement and good management of diversity provide greater productivity and employee engagement, generate better social, economic and financial performance, and positively influence stakeholders to adopt best practices related to the topic. In addition, they minimize the risks of lack of ideas plurality and the staff's creative potential limitation, as well as the risk of non-compliance with Law No. 8213/1991 (Quotas Law).

Since 2015, Copel has had a Permanent Commission on Diversity that is linked to the Diversity Program, which includes the participation of GeT, whose role is to plan, execute and monitor actions and strategies to combat discrimination in the workplace, as well as promote the appreciation of diversity. In 2021 it was renewed and its pillars are a) awareness and training; b) active communication, transparency and dialogue; c) analyses, indicators and strategy. To this end, resources are allocated annually from Copel (Holding) and its subsidiaries to carry out the initiatives proposed by the Committee, reviewed at each new period.

The Commission has specialists in the topics covered and representatives of the strategic areas mapped as strategic for the promotion of diversity, in addition to promoting periodic consultations with the internal staff. Aiming at their continuous training and updating, its members undergo mandatory training annually, which can be extended to other relevant areas or open to all interested parties, depending on the objective.

Achievements of 2021:

GPTW survey analysis

The GPTW survey is applied annually at Copel. In 2021, the Diversity Commission started to carry out a stratified analysis of the results, with the purpose of creating and monitoring satisfaction indicators linked to gender, race, age, sexual orientation and disability. Thus, a new mechanism was created to map and monitor priority aspects to promote diversity in the company.

Diversity Training

- “The electricity sector and indigenous and traditional populations” was intended for areas that work directly and indirectly with these populations, with the aim of updating professionals on the subject and, consequently, refining Copel’s practices.
- “Communication for the respect and promotion of diversity” is promoted annually for communication professionals, with each edition focusing on something different. In 2021, the training was about images, representation and intersectionality.
- “Diversity and Inclusion: LGBTI+ people and the work environment” addressed basic concepts about gender and sexual orientation, legal aspects and the challenges to foster inclusive and diverse workspaces. It was open to all Copel stakeholders. In addition, meetings were held on the topic with Copel’s Compliance and HR areas.
- “Why do we need to talk about racism at work?” it was open to the Company’s stakeholders and clarified the concept of Structural Racism, which is fundamental for the understanding of ethnic-racial relations in Brazil. The training also addressed the subjective manifestations of racism, historical facts and indications of how the non-black population can act in the face of racism in the country, especially in the workplace.

Events

- “Men’s X-Ray” was a sincere conversation about masculinity with Papo de Homem, aimed at the male audience, which today represents more than 70% of the internal staff.
- “At the Pandemic Limits” was a dialogue with women, about this group’s burden and mental health, which, during the covid-19 period, was significantly impacted.
- “Women in Science” featured researchers from Copel, Tecpar, Sanepar and the Federal University of Paraná, and dealt with women’s role in Science and the application of research in companies. It was open to all audiences, with special invitations to elementary schools.
- Launch of the first edition of “ExataMente: girls and women in exact sciences,” with Colégio Estadual Leoncio Correia.
- “Inclusion, Volunteering and the Allied Person’s Role,” held together with the Corporate Volunteering Program, Electricidadania, was a lecture for Copel volunteers, encouraging activities with these groups.

Total employees by job category and gender | GRI 405-1

	Total by job category	♀	♂
Its own employees			
Operational	23	0	23
Intermediate Technical Professional	538	39	499
Intermediate Professional	394	159	235
Higher Level Professional	568	147	421
Total by gender	1,523	345	1,178

% of employees by job category and gender | GRI 405-1

	♂	♀	Total by job category (in relation to the total number of employees)
Operational	100.00%	-	1.51%
Intermediate Level Prof.	59.64%	40.36%	25.87%
Intermediate Level Tec. Prof.	92.75%	7.25%	35.33%
Top Level Prof.	74.12%	25.88%	37.29%
Total by gender	77.35%	22.65%	

Diversity indicators of its own employees | GRI 405-1

	Operational	Intermediate Professional	Intermediate Technical Professional	Top Level Professional	Total (in relation to the total number of its own employees)
Up to 30 years old	0.00%	1.98%	1.46%	0.89%	0.38%
Between 30 and 50 years old	6.90%	68.54%	74.32%	68.53%	16.50%
Above 50 years old	93.10%	29.48%	24.22%	30.58%	6.99%
Total	100%	100%	100%	100%	24%

	Operational	Intermediate Professional	Intermediate Technical Professional	Top Level Professional	Total (in relation to the total number of its own employees)
% of blacks and browns (in relation to)	17.24%	13.81%	15.47%	7.69%	2.98%

	Operational	Intermediate Professional	Intermediate Technical Professional	Top Level Professional	Total (in relation to the total number of its own employees)
Total % of its own employees Persons with Disabilities at Copel (in relation to the total number of employees per job category)	0.00%	3.02%	0.51%	0.81%	0.20%

Diversity indicators of its own employees (%) | GRI 405-1

	Gathered	Board of Directors	Fiscal Council	Total (in relation to the total number of governance body members)
Up to 30 years old	0.00%	0.00%	0.00%	0.00%
Between 30 and 50 years old	71.43%	44.44%	44.44%	22.58%
Above 50 years old	28.57%	55.56%	55.56%	19.35%
Total	100%	100%	100%	41.94%

Ratio of base salary and remuneration received by women and those received by men

| GRI 405-2

	Base salary by gender (R\$)		Ratio of base salary between women and men	Remuneration by gender (R\$)		Remuneration ratio between women and men
	♂	♀		♂	♀	
Operational	5,320.50	0,00	0%	76,366.93	0.00	0%
Intermediate Prof.	2,330.19	2,217,05	95%	64,513.83	64,519.22	100%
Intermediate Tec Prof.	3,947.60	4,274.63	108%	64,083.35	68,797.01	107%
Top Level Prof.	6,176.85	6,176.85	100%	66,309.64	71,437.53	108%

5.1.7 Occupational health and safety

GRI 103-1, 103-2, 103-3, 403-1, EU16

Occupational health and safety are themes present in Copel's Strategic Map and Strategic Reference, constituting one of the Company's values. Based on this premise, we seek to ensure a healthy work environment, in which workers and managers collaborate for the continuous improvement of protection and promotion of safety, health and well-being for all.

The guidelines adopted by Copel are in the Occupational Health and Safety Policy and in a series of internal or external rules, such as the Regulatory Rules of the Ministry of Labor - NR, the Management Excellence Model - MEG of the National Quality Foundation and ISO 45001 (Occupational Health and Safety Management System), with the certification of 4 Hydroelectric Power Plants: Governador Bento Munhoz da Rocha Netto (GBM), Governador Ney Aminthas de Barros Braga (GNB), Governador José Richa (GJR) and Derivação do Rio Jordão (DRJ).

Management is carried out by a multidisciplinary engineering, occupational medicine and social assistance team, which monitors absenteeism indicators, the performance of periodic and preventive examinations, and the frequency and severity rates of accidents involving its own staff and third parties. Health and safety indicators are defined in the strategic planning process based on the Balanced Scorecard methodology, being included in the Management Agreement and broken down into indicators of the Management Commitments of superintendencies and departments. GRI 403-3

Professional diseases | GRI 403-10

	Employees	Contracted parties
Fatalities resulting from a work-related illness	0	0
Cases of recordable work-related ill health	0	0

Note: In 2021, there were no recordable occupational diseases or fatalities resulting from work-related illnesses.

Risk assessment, identification of possible hazards and application of the control hierarchy to eliminate or minimize them is carried out annually in accordance with the Risk Management Program (PGR) in all areas of the Company, whether administrative or operational. Hazard and risk surveys are carried out using the LPR tool (FMEA methodology), where all hazards and risks are listed, classified and identified, as well as the respective necessary control measures, in order to fully mitigate them.

The workers themselves can report hazards or hazardous situations related to work through *Caça ao Risco*, a process in which the accident analysis group and the responsible CIPA president will take the necessary measures to block it or improve the procedure standards for field activities. All are protected from reprisals by the Occupational Health and Safety Policy and the Code of Conduct. GRI 403-2, 403-7

PPE is provided to employees according to the Company's technical specifications, defined according to each function's risks. A use record is made with the signature of the Term of Receipt and Responsibility for PPE and Uniforms. Equipment is replaced whenever necessary, due to wear, damage or other necessity. For contracted parties, PPE must follow the same technical specifications.

Regarding health, employees undergo not only legal examinations, but also special assessments whenever there is a suspicion of illnesses that are caused by or may interfere with work activities. Whenever a restriction is identified, action is taken in conjunction with local management so that there is no exposure to a certain risk (either through its elimination or other forms of control). There is also ongoing coordination of actions with occupational safety professionals, analysis of occupational risks identified and recorded in an electronic management system and association with complementary exams for monitoring and control of exposure and aptitude. The company's own employees have access to services either by summons, as in the case of absenteeism monitoring or external legal examinations, or by personal demand manifested to management or by submitting statements and other medical certificates. GRI 403-3

To promote a health and safety culture, Copel carries out a series of initiatives, detailed below.

- **Occupational Health and Medical Control Program (PCMSO) - NAC 40406 - Medical Examinations:** establishes rules for occupational examinations.
- **Preliminary Risk Analysis (APR):** application that records the prior assessment of the risks involved in carrying out a particular job. GRI 403-2
- **Workplace Safety Integration:** meetings with outsourced employees in which all care related to work safety is addressed.
- **Internal Accident Prevention Commissions (Cipas):** distributed by Copel GeT establishments with the responsibility of identifying the work's risks and preparing the risk map and the plan that enables preventive action. During their participation in Cipas, employees discuss issues related to health and safety. If it's necessary to forward a situation for analysis, the requests arising from these discussions are communicated to the occupational safety areas, which will provide the appropriate referral. The committees annually promote Internal Accident Prevention Weeks, when lectures on topics related to health and safety are presented, given by both employees and externally hired professionals. Copel GeT has 15 Cipas, which directly involve 156 of its employees. These commissions meet 12 times a year. GRI 403-4, 403-5

Relevant information on occupational health and safety is made available to employees through corporate campaigns, during which posters indicating safe behavior are distributed and videos and texts posted on the intranet are broadcast. Hired employees have their knowledge on the subject marked out annually, during the Sustainability Workshop for Contracted Companies and Suppliers. The training, development and education programs aim to encourage training, improvement and development based on the job's activities. Its format facilitates the acquisition and application of technical and behavioral knowledge, and methodologies related to the health and safety requirements of the electricity sector. These matters are governed by national rules and laws, as well as international conventions of the International Labor Organization and ratified by Brazil. GRI 403-5

The standards related to occupational health and safety training are NPC 0402 - Occupational Health and Safety Policy, NAC 040414 - Occupational Health and Safety and

The training, development and education programs aim to encourage training, improvement and development based on the job's activities.

NAC 040501 - Personal Training and Development. In accordance with regulatory standards, no employee or third party may perform any activity considered to be risky or unhealthy, or that require specific knowledge, without carrying out the necessary training.

Contracted parties undergo training at the beginning of the activities, at which time the risks and precautions related to health and safety for the execution of the tasks are addressed. Additionally, for risky activities, mandatory training completion certificates are required, as provided for in regulatory standards, in addition to the presentation of a valid Occupational Health Certificate (ASO). Mandatory training is carried out externally.

The training, development and corporate education programs aim to encourage the training, improvement and development of employees, based on the job's activities. In addition, these programs seek to facilitate the acquisition and application of technical and behavioral knowledge, taking into account the current position, future needs and providing methodologies in accordance with the electricity sector's health and safety requirements.

It is known that aspects of occupational health and safety are governed by national rules and laws, as well as international conventions of the International Labor Organization - ILO and ratified by Brazil, and Copel GeT has, in its strategic map, the premise of operating preventively, minimizing risks and creating an organizational culture that promotes the thought of risk reduction in the work environment so that certain standards are met, as well as the best results in business management are obtained.

Thus, Copel GeT's annual educational planning encompasses internal and external training focused on health and safety. Also, during SIPATs or specific dates, lectures and mini-courses on these topics are promoted. For outsourced employees, meetings are held annually with representatives of the outsourced companies, with the aim of leveling knowledge in Occupational Safety. The event is entitled Sustainability Workshop with contracted companies and suppliers.

Employees covered by Copel's health and safety system | GRI 403-8

Employees covered by the system	1,957	100%
Employees covered by this system, subject to internal audit	1,957	100%
Employees covered by the system, subject to third-party audit or certification	0	0

Note: includes its own and outsourced employees.



Health and quality of life

GRI 403-6

Copel provides health insurance (a closed non-profit pension and supplementary assistance entity), whose monthly fees are co-participated and offer, through a vast network accredited in the State of Paraná, medical, dental and pharmaceutical care, including an outpatient plan, hospital and obstetric care and psychology and physiotherapy care.

In addition to the periodic medical examinations, the Company includes an additional stage of preventive examinations associated with cardiac, gynecological, prostatic, colorectal and ophthalmological diseases, according to the age and sex of the employee, providing specialized medical evaluation and complementary exams, free of charge.

It also provides, in an institutionalized way, the chemical dependency program, with specific medical treatment for the recovery of employees in the use of illicit drugs and alcohol, including hospital admission and outpatient medical and psychological care/consultations. Expenses are fully funded and the Company's social and health services are monitored, adapting environmental activities and risks for personal and collective safety.

Since 2020, the Equilibradamente program has been carried out, with the aim of promoting free and online psychotherapy to all those enrolled in the program. Treatment is free. Consultations are held online, with psychologists, 7 days a week from 8 am to 8 pm.

In 2021, COPEL implemented the Plenamente program, which aims to provide psycho-emotional education, manage psychosocial factors and encourage self-care in the corporate environment. In partnership with Fundação Copel's Equilibradamente Program, it encourages self-care in mental health with online psychotherapy support for all employees and their dependents; promotes psycho-emotional education through internal forums and workshops,

in order to overcome barriers, stigmas and myths associated with mental and emotional health and illness. In addition, the program manages the psychosocial factors present at work.

Copel also offers annual flu vaccination free of charge, within its premises, according to prior request for the dose through an electronic system and decentralized application calendar at several of the Company's addresses, in addition to encouraging its employees to maintain their vaccination schedule complete, as was the case with the campaigns against Covid-19 (regular doses and reinforcement) in 2021.

Together with Cipas, information and awareness campaigns are carried out on White January, Yellow September, Pink October, Blue November, among others, with lectures and material on suicide prevention, breast and prostate cancer, encouraging the use of the network covered by the health insurance.

Number of recordable work-related injuries and frequency rate¹ | GRI 403-9

	Employees		Contracted parties	
	2020	2021	2020	2021
Number	2	1	29	23
Frequency rate ²	0.87	0.45	9.25	10.99

Notes: to calculate the rates, 1,000,000 working hours were considered, in accordance with NBR 14.280 - Occupational Accident Record - Procedure and classification.

Percentage of outsourced and subcontracted employees who received relevant health and safety training security | EU18

Contracted and subcontracted employees undergoing safety training	1,405
Total of contracted and subcontracted employees	2,251
Percentage of contracted and subcontracted employees undergoing safety training	62%

5.1.8 Internal social indicators

EMPLOYEES/EMPLOYABILITY/ADMINISTRATORS

a) General information GRI 102-8, 405-1		2021	2020	2019
Total number of employees		1,523	1,533	1,620
Number of contracted employees (contracted, subcontracted, self-employed) by type of employment, employment contract and region)	Technical/Operational Services	92	64	10
	Business Services/Support	0	-	-
	Engineering Works	82	56	1
	Conservation/Security of Facilities	229	303	632
	Administrative Services	18	13	21
	Auxiliary Services	13	16	92
	Others	0	-	-
	Total	434	452	756
Employees up to 30 years of age (%)		2.63	1.76	5.12
Employees aged between 31 and 40 years (%)		34.54	26.16	40.0
Employees aged between 41 and 50 years (%)		36.38	35.81	30.31
Employees over 50 years of age (%)		26.46	36.27	24.57
Number of women in relation to the total number of employees (%)		22.65	22.05	21.48
Women in managerial positions in relation to total managerial positions		22.9	21.26	23.70
Black (black and brown) female employees in relation to the total number of employees		2.23	2.15	2.10
Black (black and brown) male employees in relation to the total number of employees		10.24	10.31	10.31
Black (black and brown) male employees in managerial positions in relation to total managerial positions (%)		5.3	7.09	4.44
Interns in relation to the total number of employees (%)		1.64	1.7	2.22
Employees of the apprentice hiring program (%)		0.39	0.91	1.17
Employees with disabilities (%)		0.20	0.91	0.86

EMPLOYEES/EMPLOYABILITY/ADMINISTRATORS

b) Compensation, benefits and career, in R\$ thousand	2021	2020	2019
Administrators	5,036	2,011	3,037
Remuneration - GRI 201-1	245,845	307,082	307,082
Gross payroll	230,967	248,596	231,175
Compulsory social charges	74,873	76,702	75,907
Benefits	117,147	81,384	78,461
Education	585	667	1.006
Food	33,439	27,789	27,320
Transportation	0.1	0.4	6
Health	18,397	19,230	18,041
Foundation	24,426	21,124	20,600
Labor compensation	39,648	11,880	10,846
Others (complementary sickness allowance, insurance, extended maternity allowance, disability and accidental death allowance)	652	694	642
c) Profit sharing	2021	2020	2019
Total investment in the company's profit sharing program (R\$ thousand)	68,286	32,919	19,645
Amounts distributed in relation to gross payroll (%)	41.88	13.24	8.50
Division of the highest remuneration by the lowest remuneration in kind paid by the company (includes profit sharing and bonuses)	10.88	10.73	13.12
Division of the company's lowest remuneration by the current minimum wage (includes profit sharing and bonuses)	5.34	3.78	3.27
d) Remuneration profile	2021	2021	2019
Average salary in the current year, by category (R\$)			
Operational Career	6,741.61	6,381.26	6,192.98
Intermediate Tec. Prof. Career	5,923.05	5,247.02	4,151.46
Intermediate Prof. Career	4,814.72	4,551.86	4,993.29
Top Level Prof. Career	11,715.66	10,950.59	10,293.16

EMPLOYEES/EMPLOYABILITY/ADMINISTRATORS

e) Occupational health and safety		2021	2020	2019
Average overtime per employee/year		101	186	51
Total TF (attendance rate) index of the company in the period, for employees		0.45	0,87	1.24
TG (severity rate) index in the period, for employees		0.90	2,18	9.06
Total TF (frequency rate) index of the company in the period,		10.99	9.25	4.59
TG (severity rate) index in the period, for outsourced/contracted parties		98.89	2,059.27	1,809.06
TF (attendance rate) index of the company in the period, for the workforce (its own + third parties)		4.61	5.71	3.21
TG (severity rate) index in the period, for the workforce (its own workforce (its own + third parties)		39.60	1,190.86	1070.44
Deaths - its own		0	0	0
Deaths - third parties		0	1	1
f) Professional development		2021	2020	2019
Schooling profile - discriminate, to in percentage, in relation to the total number of employees:				
- Elementary School		0.39	0.39	8.3
- High School		5.25	5.61	25.55
- Technical education		19.04	21.07	34.19
- University education		37.43	37.77	31.79
- Postgraduate (specialization, master's, doctorate)		37.89	35.16	31.79
Amount invested in professional development and education (R\$ thousand)		1,102	1,152	3,380
Average hours of training per year, per employee, broken down by job category GRI 404-1	01. Operational	24.33	21.08	37.45
	02. Intermediate Level Prof.	16.85	30.21	55.96
	03. Intermediate Level Tec. Prof.	46.74	36.39	75.81
	04. Top Level Prof.	48.18	40.57	71.74

EMPLOYEES/EMPLOYABILITY/ADMINISTRATORS

g) Behavior in the face of layoffs	2021	2020	2019
Turnover rate GRI 401-1 in 2021 data	0.27	3.06	2.71
Labor claims			
Amount provisioned in liabilities in the period	62,555.159	67,766.428	74,684.74
Number of labor lawsuits filed against the company in the period	16	8	32
Number of labor lawsuits judged valid in the period	49	36	45
Number of labor lawsuits dismissed in the period	8	4	4
Total amount of indemnities and fines paid by court order in the period ²		n/d ¹	n/d ¹
h) Preparing for retirement	2021	2020	2019
Investments in supplementary pensions (R\$ thousand)	24,426	21,124	20,291.34
Number of beneficiaries of the supplementary pension program	1,509	1,522	1,611



5.2 External social aspects

Copel's Sustainability Policy, in its item 3.6, deals with the relationship with stakeholders. The premises of this policy are:

- promote transparent, regular and structured dialogue with stakeholders, considering their demands, priorities and expectations;
- acquire sustainable products and services and promote actions that encourage the supply chain to seek sustainability;
- respect the principles of free and fair competition;
- value the contributions of communities in the regions where Copel's businesses are located and promote local sustainable development with the generation of shared value;
- promote actions that encourage the safe, efficient and sustainable use of its products and services;
- periodically or whenever there is a need for relevant information, adapting languages and media to the needs of different stakeholders.

5.2.1 Relationship with customers

Among Copel GeT's clients in the Free Contracting Environment are generators, energy traders, free consumers and special consumers. The clients of the Regulated Contracting Environment are the distributors. The Company also provides the availability of transmission assets for the National Interconnected System managed by the National Electric System Operator, providing transmission services on a regulated basis for generators, distributors, self-producers and free consumers. Additionally, it provides Owner Engineering, Operation and Maintenance services for generation and transmission assets. The customer relationship channel for all cases is the manager of each contract.

5.2.2 Supplier management

GRI 204-1

In 2021, Copel GeT had 2,723 suppliers, including 64% from the South region; 23.5% from the Southeast; 6.3% from the Midwest; 5.8% from the Northeast; and 0.4% from the North region. R\$ 1,903.00 million were paid to these companies in the year, of which 58% were allocated to local suppliers, that is, those present in the states where the Company has wholly-owned subsidiaries: Paraná, Mato Grosso, São Paulo and Rio Grande do Norte. However, it should be noted that there is no policy for local hiring, since the selection processes promoted by Copel are regulated by internal rules, policies and laws.

Proportion of expenses on local suppliers in 2021 | GRI 204-1

Total amount spent on suppliers	Amount paid to local suppliers (from the State of Paraná)	%
1,903,069,501.87	1,109,390,274.03	58%

Supply chain | GRI 102-9

	Copel Geração e Transmissão	Total
Suppliers hired in 2021	2,723	2,723
Estimation of suppliers in the supply chain	0	0
Amount paid to suppliers in 2021 (R\$)	1,903,069.502	1,903,069,502

The activities of Copel Geração e Transmissão include, primarily, the construction, operation and maintenance of power plants, substations, transmission lines and towers. Thus, its essential suppliers are those who design projects, carry out consultancy and execute works and services.

The procurement and contracting processes are based on the Internal Regulations for Bidding and Contracts - in force since July 2018 and updated in October 2020 at the Ordinary Meeting of the Board of Directors - and in the legislation, which regulates the forms of contracting by bidding and its modalities, by waiver in accordance with the provisions set forth, or by means of unenforceability, characterized by the infeasibility of competition. The main laws are No. 10,520/2002, which institutes the bidding modality called trading session, and Complementary No. 123/2006, which establishes the National Statute of Microenterprises and Small Businesses. In addition to the Internal Regulations for Bidding and Contracts, the main policies and goals related to supply chain management are:

- Federal Law no. 13,303/2016;
- Corporate Standard 030904 (updated in September 2020) – Contract Management;
- Supplier Manual
- Internal Standard 030406 – Supplier Evaluation;
- Company Code of Conduct;
- Supplier Manual;
- Solid Waste Management Manual; and
- NPC - Copel Policy Standard 0322/2020, referring to Law 13.709/2018 (General Personal Data Protection Law).

Copel GeT maintains an active Supplier Certification program, through which it recognizes the companies that best serve it through the issuance of certificates for good performance in the execution of contracts. Suppliers are evaluated in terms of technical, operational, administrative, quality aspects of management processes and their commitment to sustainability. GRI 308-1

Although it does not contract using specific environmental or social criteria, Copel GeT requires that all suppliers comply with labor, tax and environmental legislation, and respect human rights. In all acquisition and/or contracting processes, the contractor is required to present a statement of socio-environmental responsibility, signed by the company's legal representative. In the event of non-compliance, sanctions such as warnings, contractual fines, or temporary suspension of participation in bidding processes and impediment from contracting with Copel and its wholly-owned and controlled subsidiaries for a period of up to two years are applied. According to the seriousness of the occurrence, the contract may be terminated and the competent legal bodies informed of the infringement. GRI 414-1

The company understands that caretaker, mowing, cleaning and conservation contracts are operations sensitive to freedom of association and the risk of child labor. On the other hand, activities that require temporary accommodation of workers, especially in rural areas, may present a risk of slave labor. GRI 407-1, 408-1, 409-1

Copel GeT assesses the environmental performance of suppliers. Among the companies participating in the main energy generation processes, the most relevant are selected according to pre-established criteria. Since 2018, we have evaluated the potential for emission of greenhouse gases, associated with Sustainable Development Goal 13, which aims to to mitigate climate change, one of the socio-environmental risks to which Copel GeT is subject and considers it to be one of the priority SDG. In the survey carried out in 2021, SDG 13 was used as a criterion, where the relevance in terms of greenhouse gas emissions was evaluated. Of the supplier contracts that meet the Operate and Maintain Generation and Transmission Infrastructure process, 80 were considered relevant and partially relevant, after a new evaluation with the contract managers, 47 were maintained in the evaluation program. GRI 308-2

5.2.3 Communities

GRI 103-1, 103-2, 103-3, 203-1, 413-2

Considering that Copel is the largest company in Paraná, which provides essential services and has large operations, such as energy generation, transmission and distribution, the impact is significant on local communities, whether due to these characteristics or the social and philanthropic investment.

The implementation of new ventures generates jobs and income for the municipalities, as well as promotes local development. However, situations are identified that need mitigation or compensation through social programs described in the basic environmental plans (PBA), in simplified environmental reports and in the detailed reports of each enterprise's environmental programs. There is also the acquisition process for the implementation of new projects, managed through the Expropriation and/or Land Acquisition Program, which is part of the

PBA for each project. Copel GeT proposes to compensate for the impacts caused on the population that maintains a link with the affected properties, whether as an owner or not (caretaker, tenant, etc.). The release of the projects' operation is conditioned, by environmental agencies, to the conclusion of the land negotiations.

Copel GeT is also evaluating the possibility of making private social investments in the locations that house the projects, through sponsorships and the use of specific social credits.

The purpose of the management approach may be to avoid, mitigate or remedy negative impacts or enhance positive impacts.

It should be noted that Copel GeT has generation and transmission assets in different locations in Brazil, which is why it pays special attention to the socioeconomic and cultural components of each region.

In addition to mandatory social programs in the context of environmental licensing, Copel GeT develops other actions aimed at communities within the scope of corporate sustainability. The continuous communication of the results obtained with this range of initiatives allows the establishment of action strategies, identification of opportunities and the proposition of improvements.

This action is guided by the Sustainability Policy, which reflects the importance of dialogue and transparency, considering the demands, priorities and expectations of the company's various stakeholders, in addition to the Integrated Corporate Risk Management Policy, Sponsorship Policy and Human Rights Policy.

Social investments are made through tax incentives, the Copel Sustainability Award (Susie Pontarolli Trophy) and philanthropic actions, structured to respond to situations of social or environmental crises, aiming to promote sustainable development in all dimensions of the sustainability concept – social, environmental, economic and cultural.

In 2021, the social project in the municipality of Itaúba, in the state of Mato Grosso, was completed, with the delivery of the Van vehicle for public health, which reinforced the infrastructure for transporting patients between the municipalities in the region, who carried out the displacement for care in clinics and hospitals. The other project completed was the Education project – “Salas de Aula Interativas” – Copel delivered 25 notebooks to the municipality, the last piece of equipment needed to implement the classrooms.

It should be noted that Copel GeT has generation and transmission assets in different locations in Brazil, which is why it pays special attention to the socioeconomic and cultural components of each region.

Linked to the Brisa Potiguar Wind Complex, the subsidiaries of Copel GeT, Nova Asa I Energias Renováveis S.A. and Santa Maria Energia Renováveis S.A., provided funds for social investment in contracts signed with BNDES. The investments will be made for the four municipalities where the wind farms of the complex were installed, with investment for the acquisition of goods that will be tendered by the company and passed on to the municipalities through donation with charges. It will be up to the municipalities to carry out all prior adjustments that may be necessary for the receipt, installation and operation of each item.

Indirect economic impacts

GRI 203-2, 413-2

The business of Copel Geração e Transmissão S.A, in essence, provides the population with access to one of the main inputs of modern life: electricity. As it is present in several Brazilian states, the indirect economic impact of the Company's operations is immeasurable, as these are presented in different magnitudes, according to the characteristics of the project and its location. However, it is notable, among the positive effects, the dynamism of the local economies during the construction of the enterprises; changes in the levels of employment, income and access to goods and services by local populations; and increase in municipal tax revenues.

In the phases of implementation and operation of its assets, the negative impacts of its activities are duly identified and evaluated, in order to be controlled, mitigated and/or compensated. Positive impacts, in turn, must be enhanced and maximized.

From a socioeconomic point of view, the main impacts are: boosting local economies during construction; the pressure for public infrastructure and services resulting from population and urban growth during construction; interference in economic activities related to the use of natural resources or linked to the polygon of the affected properties; changes in the levels of employment, income and access to goods and services by local populations; risks of economic downturn and population depletion after the works are completed; increase in municipal tax revenues.

These impacts are evaluated through Environmental Impact Studies (EIA) or Simplified Environmental Report (RAS), and mitigation proposals are indicated in the Basic Environmental Project (PBA) or equivalent document, depending on the degree of impact and complexity of the enterprise. The socio-environmental programs linked to the environmental licensing of the projects being implemented, as well as the compliance with the conditions of environmental agencies of the projects in operation, are in full execution, in compliance with the environmental licensing of the Company's projects.

Community engagement initiatives

GRI 413-1

Cultivar Energia Program

Initiative to implement community gardens in properties under Copel's energy transmission lines (LT), in partnership with municipal governments. Among the objectives is the preservation of the LT's safety strip, the dissemination of safety information in the coexistence with the surroundings, the production of organic food and the strengthening of community ties. Currently, Copel GET has six vegetable gardens in place and in full operation, two in the municipality of Maringá, one in Ponta Grossa and three in Curitiba.

In 2021, 2 new vegetable gardens were approved in the municipality of Curitiba. In all, there are about 208 participating families. It is estimated that 832 people benefit directly from the Cultivar Energia Program at GET, and another 1,664 people indirectly. The monitoring evaluation is carried out annually on the effectiveness of the Program, in the last year (2021) it was found that: 96% consume the food they produce; 60% of the beneficiaries sell the surplus; and 82% make donations to the population around the line. As a result, the Program presents itself as an alternative for effective income generation, with the involvement of communities in the care of Copel's right-of-way transmission lines, curbing irregular occupations and uses. The monitoring also showed that the technical monitoring carried out by the municipalities together with the participants is effective. 96% of the beneficiaries are fully satisfied to participate in the program and assess the presence of COPEL GET in the community as excellent and good.

Linha Livre Program

Social treatment of irregular occupations in properties under the transmission line's safety range through the receipt of land information, construction of a previous socio-environmental diagnosis, house-to-house approach, interface with public housing and social assistance agencies. Copel GeT seeks alternatives for referrals and an opinion on the social vulnerability of the occupants and the possibility of forced or voluntary removal. The program has already received several recognitions, such as in the 15th Benchmarking Brazil in 2017, ranking 11th for best socio-environmental practices, in addition to the SESI - SDG Seal, also in 2017. In 2021, there were 18 new demands on transmission lines.

Socioeconomic Registration

Socioeconomic survey of the population surrounding the hydroelectric generation project to propose mitigation and compensation measures, with application of questionnaires to families identified in the project's polygon and downstream areas. A report is prepared with the analysis of the information collected in the field, aiming to subsidize compensation measures, relocation, social compensation, relationships with the community, emergency action program in the surroundings, etc. In the transmission segment, a socioeconomic registration was carried out between May and June 2021 in the right-of-way of the 230kV Santa Mônica-Pilarzinho Transmission Line, the purpose of this research was to support the elaboration of the study and social diagnosis among irregular occupants in an area considered to be of risk, this proactive action by Copel aimed to identify measures on how to conduct the procedures to properly address this issue.

Epidemiological Surveillance and Epidemic Control Program – Malaria Control Action Plan (PACM) HPP Colíder

PACM aims to meet the environmental licensing conditions for the Colíder hydroelectric plant through a report that compiles and systematizes entomological data collected from a field campaign; primary data on endemic diseases, obtained through interviews with health managers; and secondary data available in a database related to the theme. With this, it subsidizes and makes information material available to the municipalities of Cláudia, Colíder, Itaúba, Nova Canaã do Norte, Sinop and others in the enterprise's area of indirect influence, in addition to regional health offices and state instances of Mato Grosso, for the programming of surveillance actions and health education with the population. Through the program, a Monitoring Report on Malaria and Leishmaniasis in the Municipalities of the Area of Influence was produced; Joint Field Campaign to collect entomological and epidemiological data; digital media to be sent on the municipalities' social networks; and radio spots with information about malaria.

Community Relationship Program

Initiative to establish contact with the communities surrounding the generation and transmission projects (plants, lines and substations) in order to collect demands and resolve doubts from the population regarding the implementation and/or operation of Copel GeT's assets. A form is filled out with information and impressions from the community on the subject and information campaigns are carried out with residents about safe coexistence with the electricity grid. The program also includes public meetings to present the characteristics of the projects or environmental programs. As a result, reports on compliance with the environmental licensing process; expansion of contact channels with interested parties; basic community registry; and database of groups with whom Copel GeT is in contact are generated. In 2021, Copel GeT continued with the Program's actions within the state of Paraná, hiring a company to provide this service for the LT 500 KV Araraquara-Taubaté II project, in São Paulo. Results: Reports on compliance with the environmental licensing process, expansion of contact channels with interested parties; basic community registration, creating a database of groups with whom Copel GeT is in contact.

Environmental Education Program

It involves the communities surrounding the generation and transmission projects (plants, lines and substations) with the distribution of educational materials, holding of lectures and dynamics, staging of plays and other educational resources, with the aim of raising awareness about environmental issues, promoting a sense of responsibility for preservation at the local and global levels. The actions are designed according to the target audience, which ranges from Company employees and third parties, nearby school communities, populations in the projects' area of influence, among others. In 2021, there was a need to change the schedule in carrying out face-to-face educational actions in schools due to the restrictions imposed by the Covid 19 pandemic, being postponed until the release and return of face-to-face classes. This fact did not affect the program's progress, communication materials and others were delivered to the secretariats and coordinators so that they could be delivered to students who were in an online and/or hybrid study model. From the second half of 2021, with the return of face-to-face classes, educational actions were carried out in schools, such as the delivery of communication materials and the presentation of a theatrical play dealing with the environmental theme. Results: Reports on compliance with the environmental licensing process, expansion of contact channels with interested parties

HPP Colíder's Social and Environmental Responsibility Program

The program is part of the Basic Environmental Project at the Colíder HPP, and included a Public Call for the selection of Social Investment Projects. Four projects were selected, one in each municipality in the HPP's area of influence. According to the public notice, each institution requested equipment and/or materials to benefit the production of family farmers and/or extractivists. After donating all the items that made up each project, the company keeps track of it for a period of one year.

Support Program for Municipalities

Initiative aimed at mitigating negative impacts and enhancing benefits arising from the implementation of the Company's new hydroelectric projects by carrying out diagnostics of municipal services, monitoring public services and municipal finances, and providing technical support to municipalities in the organization of its public policies. In August 2021, the bridge over the Chopim River between the municipalities of Verê and São João was delivered, a request from the population and municipal managers during the licensing period of the SHP Bela Vista, which was met, as a result it can be seen that the crossing was safe for the population and facilitated the outflow of agro-industrial production. Other activities carried out were the offer of a Tourism Course and the elaboration of the Tourism Guide for the Municipality of Verê with a view to improving and promoting tourism in the region. The use of public services and data systematization were also monitored, resulting in the preparation of quarterly reports to monitor indicators.



Dam Safety/Emergency Action Plans (PAE)

Formal document in which the actions to be carried out in the event of an emergency situation are established, as well as the agents to be notified of this occurrence. Pursuant to article 11 of Law No. 12,334/2010, which establishes the National Policy on Dam Safety (PNSB), PAE is required for dams classified as having high potential damage, following the criteria defined by the inspecting entity. One of the foreseen procedures is to carry out simulations with city halls and Civil Defense agencies and alert the potentially affected population.

Program for the Management of Valuable and Protected Cultural Assets - LT 525kV Blumenau Curitiba Leste

Initiative carried out in the municipalities of Jaraguá do Sul and Pomerode (Rural Complex of Rio da Luz and Testo Alto), in Santa Catarina, with the purpose of valuing the cultural heritage of the communities involved in the protection polygonal, Rio da Luz and Testo Alto, intercepted affected by the energy transmission line project, as a compensatory measure. In the two years since the project was implemented, the community was deeply involved, which enabled continuous dialogues and the identification of the cultural heritage, material and immaterial, and the cultural assets of the region. Two books were produced (one on oral history and the other on architectural assets); websites (portal containing videos, photos and program actions); application and map with the main tourist and commercial points; workshops; installation of information and traffic signs; and quarterly and final reports containing all actions performed during the program.

Environmental licensing of the Blumenau-Curitiba Leste Transmission Line enterprise

It involves communities in the municipalities of São José dos Pinhais, Tijucas do Sul, Campo Alegre, Corupá, São Bento do Sul, Jaraguá do Sul, Pomerode and Blumenau. Its objective is to ensure interaction between the entrepreneur and the local populations and to inform about the implementation and operation phase of the enterprise. To this end, newsletters, folders, booklets, website, digital cards, online and face-to-face events and meetings, audio via WhatsApp, face-to-face and online workshops, and reports containing all the actions developed within the scope of the Social Communication and Environmental Education Programs were prepared.

Relationship with indigenous peoples

GRI 411-1, 413-1

Copel GeT entered into extrajudicial agreements, through Conduct Adjustment Terms, in order to satisfy demands for impacts of old facilities on Indigenous Lands. As such, these demands were fully addressed before the State and the justice system, through agreements that were signed in 2002, 2006 and 2009, involving the following enterprises and Indigenous Communities:

- HPP Apucarantina (10MW) - Apucarantina Indigenous Land (kaingang) - Municipality of Tamarana (PR);
- 230 kV Figueira - Apucarana Transmission Line (currently Figueira - Londrina) - Barão de Antonina Indigenous Land (kaingang) - Municipality of São Jerônimo da Serra (PR);

In 2021, due to the measures to contain the Covid-19 pandemic and in compliance with the determinations of Funai Ordinance No. 419/Pres, of March 17, 2020, which restricted access to indigenous lands, face-to-face activities with these communities were temporarily suspended. In addition, the following actions were taken:

TAC Apucarantina (2002) Called Financial Compensation TAC

It established the payment of an annual financial compensation and regularized the use of the indigenous area for the purpose of generating electricity. In addition, it establishes that the energy consumption of the indigenous community must be deducted from the amount of compensation due. In 2021, the following activities were carried out under this TAC:

- Monitoring the calculation of annual financial compensation amounts and accountability to TAC signatories.
- Monitoring of monthly payments of energy consumption bills of the Indigenous Community of Apucarantina.
- Articulation with Copel Dis, Municipal Social Assistance Secretariat (SMAS) of Londrina, FUNAI and MPF for the permanent registration update of the families who own the TI APC consumer units, aiming at maintaining the benefits of the Electric Energy Social Tariff.
- Monitoring, together with Copel Dis, the process of completing the installations of the service entrances and network extension to regularize the interconnections in the Apucarantina Indigenous Land.
- In addition, this year, negotiations began for the construction of an educational program for the efficient and safe use of electricity in partnership with the State University of Londrina; this action will contribute to the implementation of one of the proposed counterparts and the strengthening of relations with the interested parties.

TAC Apucarantina (2006) Called Financial Indemnity TAC

Signed for the payment of compensation for the economic and environmental impacts, also including the moral and cultural impacts, resulting from the installation and operation of the PCH Apucarantina. COPEL GeT, signatory to this TAC, agreed to pay an indemnity of fourteen million reais (R\$ 14,000,000.00), of which R\$ 2,800,000.00 (20%) were destined for the current generation of indigenous people and distributed to their families. The remaining amount of R\$ 11,200,000.00 (80%) pays into a community fund to finance environmental, economic and sociocultural sustainability Projects, constituting the portion of the indemnity to protect the rights of minors and future generations of indigenous people, an amount that is in financial investment. These resources are managed by a joint Management Committee made up of three Copel employees and three representatives of the indigenous community. The disbursements were used in a portfolio of 39 projects that was prepared based on a broad diagnosis and deliberations with the community.

Expenses for 2021 focused on holding a single face-to-face meeting of the Management Committee, which was attended by representatives of the Apucarantina Indigenous Community, Funai and Copel GeT employees, on 12/06/2021. At this meeting, the payment release of the remaining expenses for 2020 was approved, finalizing the resources available in the Fund. In addition, in 2021, the Final Report of the RTVGSC 004/2020 Program was also filed with MPF and Funai, informing the actions taken over the 12 years of TAC implementation - 2008 to 2020.

Barão de Antonina TAC (2006) Called Financial Compensation TAC

The payment of an annual financial compensation was established and the use of the indigenous area for the purposes of electric energy transmission was regularized. The compensation was established based on the year 2006, in the amount of R\$ 25,653.65, successively corrected by IGP-M (FGV). The parties fixed this amount after relevant economic valuation studies, the payment is made until 04/15 of each year. In 2021, a payment of R\$ 76,779.02 was made on 04/15/2021 in favor of the Indigenous Community.

Barão de Antonina TAC (2009) Called Financial Indemnity TAC

This TAC was signed for the payment of compensation for the economic and environmental impacts, also including the moral and cultural impacts, resulting from the installation and operation of the enterprise. COPEL GeT, a signatory to this TAC, agreed to pay an indemnity of R\$ 1,839,450.00, of which R\$ 800,000.00 was allocated to the current generation of indigenous people and distributed to their families. The remaining amount of R\$ 1,039,450.00 paid in a Community Fund for the financing of Projects of an environmental, economic and sociocultural nature, constituting the portion of the indemnity to protect the rights of minors and future generations of indigenous people, an amount that is in financial application. COPEL GeT was also responsible for promoting the environmental restoration of the permanent preservation areas of the Indigenous Land, which is why, in accordance with Clause 10 of the TAC, it contracted and carried out an Environmental Diagnosis and Project for the Recovery of Permanent Preservation Areas of the Indigenous Land Barão de Antonina, studies that were included in the instrument as an obligation assigned to the company. The company's obligation also includes, for the purposes of implementing this Project, the supply of: 1) native flora seedlings, basic inputs and implements and necessary knowledge, as well as their transport to the Indigenous Land; 2) a forest technician responsible for monitoring the Project.

In 2021, seedlings of native species were supplied to restore areas close to the upstream, from the mine where water is collected for use by the community.

Working Group - WG of Indigenous Peoples and Traditional Communities of Paraná. Copel GeT is part of this WG, which was established through Decree 3534 - November 29, 2019. The objective is to contribute to the articulation of integrated actions that are aimed at carrying out studies, strategies and proposals related to the issues of Quilombola communities and Traditional communities of the State of Paraná. In 2021, a meeting was held.

5.2.4 External social indicators

Community

Impacts on health and safety G4-EU25	2021	2020	2019
Total number of non-fatal accidents with the population	0	0	1
Total number of fatal accidents with the population	0	0	0
Lawsuits arising from accidents with the population - General Litigation Basis	0	0	0
Company involvement with social action	2021	2020	2019
Resources invested in education (R\$ thousand)	0	3,751.48	1,593.07
Resources invested in health and sanitation (R\$ thousand)	500.951	1,052.38	756.54
Resources invested in culture (R\$ thousand)	998.516	4,225.53	3,298.25
Resources invested in sports (R\$ thousand)	670.000	1,056.38	796.54
Other resources invested in social actions (R\$ thousand)	500.952		
Employees who carry out voluntary work in the community / total number of employees (%)	4.06	3	4
Number of volunteer hours performed in the year	325.72	283.45	558.5
Company involvement in cultural and sports projects, etc. (Rouanet, Proffice - ICMS, Proesporte - ICMS, Pronon, Pronas, FIA, Fipar)	2021	2020	2019
Amount of resources allocated to projects (R\$ thousand)	2,670.419	8,447.06	6,484.40
Amount of resources allocated to the largest project (R\$ thousand)	370.476	1,000.00	796.54



5.3 Sector aspects

5.3.1 Research, development and innovation

GRI EU8

Copel GeT has an area dedicated to management and support in the development of scientific/ technological projects related to the Research and Technological Development Program for the Electric Energy Sector, an obligation determined by Law No. 9.991/2000. Regulated by the National Electric Energy Agency (Aneel), the program defines the application of 1% of the Net Operating Revenue (NOR) in R&D projects by the concessionaires, permit holders and authorized persons in the electric energy sector.

The R&D projects developed by the Company are aimed at direct application in its activities, involving the creation of new equipment, materials, techniques or methodologies. In 2021, Copel Geração e Transmissão invested R\$ 40,707,780.75 in the execution of 36 R&D projects, among which, 7 are strategic, whose themes were established by ANEEL through a Public Call for R&D Projects. It also invested more than R\$ 72 thousand in the management of the R&D Program through management projects.

For the next three years, COPEL GeT expects to invest approximately R\$ 50 million in new R&D projects applied to its processes for generating, maintaining and managing resources. Projects must be carried out in at least six university centers, four research institutes and four national technology companies, being approved upon evaluation by the COPEL GeT R&D Committee and/ or public call administered by ANEEL. Such institutions will have up to 5 years to execute these projects, as defined in the PROP&D (Procedures of the Research and Technological Development Program for the Electric Energy Sector).

In 2021, COPEL GeT filed four new patents arising from its R&D projects in progress.

Aneel monitors compliance with the Research and Technological Development Program for the Electricity Sector through the Accounting Account Balance Control Index (ICSCC), calculated month by month based on the obligation to invest in R&D plus the Selic rate and subtracting the value executed in the projects. In the last three years, Copel GeT obtained ICSCCs of 2.47, 1.70 and 0.54, respectively calculated in the months of December 2019, 2020 and 2021. This performance demonstrates that the balance of the Company's R&D account exceeded the ICSCC regulatory target of 1.0. Lowering the balance, the Selic value that enters the calculation also drops. From January to December 2021, almost 5.63% of what entered the R&D account corresponded to this rate.

5.3.2 Electricity Sector Indicators

Detailing of Investments in RD&I

Investment in Research and Development (by topic)	2021	% in relation to the total number of investments	2020	% in relation to the total number
Energy Efficiency	R\$ 7,351,989.21	18.06%	R\$ 2,034,225.73	6.2%
Alternative sources of electricity generation	R\$ 897.58	0.001%	R\$ 368,228.55	1.1%
Management of Basins and Reservoirs	R\$ 371,068.65	0.91%	R\$ 947,687.03	2.9%
Environment	R\$ 5,995,047.43	14.73%	R\$ 5,847,127.50	17.9%
Measurement, billing and combating commercial losses	0	0.0%	0	0.0%
Measurement, billing and Operation of Electric Power Systems	R\$ 1,166,898.32	2.87%	R\$ 3,739,393.81	11.5%
Electric Power Systems Planning	R\$ 8,402,207.39	20.64%	R\$ 5,615,529.50	17.2%
Supervision, Control and Protection of Electric Power Systems	R\$ 7,426,472.21	18.24%	R\$ 7,127,382.54	21.8%
Safety	R\$ 4,085,315.81	10.04%	R\$ 2,170,004.17	6.6%
Quality and Reliability of Electricity Services	R\$ 4,117,235.37	10.11%	R\$ 2,491,930.63	7.6%
Energy Storage	R\$ 565,181.65	1.39%	0	0.0%
Others	R\$ 1,027,411.05	2.52%	R\$ 1,930,129.45	5.9%
RD&I Management	R\$ 197,195.98	0.48%	R\$ 369,358.99	1.1%
Total	R\$ 40,707,146.52	100%	R\$ 32,640,997.90	100%



6

ENVIRONMENTAL DIMENSION

6.1 Environmental management

GRI 103-1, 103-2 e 103-3

Although it has a predominantly renewable matrix and the use of its products does not generate waste, Copel GeT is aware that resources such as water, energy and materials are needed to run its operations, and that its production processes result in waste and effluents. In this sense, the Company carries out studies and adopts the necessary measures to reduce or mitigate the impacts it causes to the environment – detailed topic by topic on the following pages – in order to become increasingly sustainable. It also avoids financial losses resulting from fines and socio-environmental liabilities, as well as damage to its image.

The main environmental aspects that can be impacted by Generation and Transmission activities are waste generation, atmospheric emissions, water use, soil conservation, water quality and biodiversity. To prevent these impacts from being negative or to remedy them, Copel GeT works to achieve eco-efficiency, preserve biodiversity and reduce greenhouse gas emissions. Additionally, it transmits its principles of good environmental management to customers and suppliers.

The guidelines for this action are in the Sustainability Policy, which is the basis for other regulations, such as the Climate Change Policy and Copel-NACs Administrative Rules for Waste Management and Climate Change Management, the Environmental Policy and the Human Rights Policy. Regarding the best use of natural resources, the Eco-efficiency Program's premises are followed, which have among its objectives, the awareness of employees and the search for strategies of excellence in costs, processes and quality.

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For new projects and for those in operation, Copel GeT and its partners follow the conditions of specific licenses for each project. 17 socio-environmental sub-programs belonging to the Socio-environmental Management Program are formalized, which are reviewed and updated annually. They describe the objectives, history, legal and stakeholder requirements, activity schedule, financial schedule, indicators, goals and improvement opportunities.

The approved environmental management budget for 2021 is R\$ 8.91 million for funding and R\$ 2.61 million for investment. For fortuitous events, the Action Plan for Social and Environmental Emergencies (PAMA) was created, which is activated in cases of incidents that affect the soil or water body in its own areas or in the vicinity of Copel GeT projects, such as oil or chemical spills, fires, vehicular accidents, floods, among others. In addition

to presenting a flowchart of actions and those responsible, Pama includes a rescue contract with a company specialized in carrying out from immediate containment and cleaning, to the disposal of waste generated in the emergency, in cases of accidents involving chemical and hazardous products.

The environment areas sign a management contract with the Superintendence of Land and Environment Affairs (SFM) and the Copel GeT Board of Directors, divided into departments and their respective divisions, aiming at the proper execution of activities and the control and monitoring of the objectives and goals of the areas. The commitments assumed are evaluated in critical analysis meetings (RAC) that take place throughout the year and continuous improvement is managed through the Provide Social and Environmental Support process. Working groups that involve different areas of the Company are responsible for carrying out environmental management, supported by the Sustainability and Reservoir Management Committees, and by the Permanent Commissions for Eco-efficiency and the Environment for Generation and Transmission.

Several systems are used, such as the cartographic information and control of socio- environmental occurrences, the management of environmental licenses, the intelligent forms of environmental and social inspection, the management and updating of legal requirements, the management of data for monitoring the water quality and waste registration and management. Additionally, Copel made progress on the "Climate Change" theme of the Carbon Disclosure Project (CDP) platform: We went from "List C – Awareness" to "List B – Management."

6.1.1 Water use

GRI 303-1

The power generation capacity of Copel's production units is distributed in hydroelectric, thermal and wind power. About 90% of Copel's generation is hydraulic, most of it in the Iguaçu River basin, in the states of Paraná and Santa Catarina, in southern Brazil.

The most significant impacts related to the use of water in the company are related to the transformation of the lotic environment (river) into a lentic environment (reservoir), when the hydroelectric plants' reservoirs are formed. Water withdrawals for consumption occur in its own collections from surface and/or underground springs for use in domestic and administrative activities. When available, domestic and administrative activities are supplied through the public supply system.

The largest volume of water used by Copel GeT has the purpose of generating energy. The river basins with projects operated by Copel are Iguaçu, Tibagi, Alto Ribeira and Atlântico Sudeste, in the State of Paraná and in the Teles Pires River basin, in the State of Mato Grosso.

To define the operating rules of its projects, Copel GeT seeks to know the multiple uses of the river basin, so as not to affect them. These rules are defined according to the characteristics of the asset (such as generation capacity, spillage and operational levels of the reservoir) and the river basin (backwater, natural rates of flow variation, maximum and minimum flows, among others). To this end, specific hydrological studies are carried out, which include prior monitoring of the project's installation and field inspections, to characterize the main users and restriction flows. These rules are registered with the National Electric System Operator (ONS) and can be incorporated into the granting of the use of water resources, if it is of interest to the regulatory agents (National Water Agency and Instituto Água e Terra - IAT, environmental agency of Paraná). In a transparent manner, Copel publishes data on the hydraulic operation of each project in real time, at a specific electronic address.

Copel also periodically monitors the quality of surface water, which starts even before the project is implemented and continues during operation. This activity has been carried out since 2003 in all reservoirs of hydroelectric plants, small hydroelectric plants, hydroelectric power stations and thermoelectric plants, in compliance with the conditions of the Operating Licenses and ANA-Aneel Resolution No. 03/2010. Three indicators are evaluated: Water Quality Index (IQA), Trophic State Index (IET) and Reservoir Water Quality Index (IQAR). The number of sampling stations and the frequency of collections and analyzes varies, depending on the type and size of the enterprise.

Monitoring the quality of water in Copel's rivers and reservoirs, using historical data from more than a decade, has served society and, in particular, the scientific community. With the Company's prior authorization, these data have already been used in more than 25 academic publications, including theses, dissertations, scientific articles and book chapters.

In the reservoir operation routines, the Company estimates the water availability. Regarding energy planning, Copel analyzes cyclical water availability scenarios (historical variation) for

purposes of programming, revenue calculation and definition of associated risks. In addition, the Company actively participates in discussion forums, particularly in the river basin committees, in which regional water resources are discussed, ensuring that changes in water availability are always under discussion and are duly monitored and dealt with by Copel.

The flow of reservoirs is a means of guaranteeing water for use in periods of low availability. In 2020, the volume of water stored from the Iguaçu River kept the flow in the Iguaçu National Park above the natural one. The amount of resource to be used and the operational levels of the reservoirs are defined in the grant for the use of Water Resources, issued by the state agency (Instituto Água e Terra - IAT) or the federal agency (National Water Agency), depending on the water body.

Since the water accumulated in the reservoirs only passes through the turbines (including cooling), this use is considered non-consumptive. The resource is returned in full at a point downstream of the generating units, with flow monitored every 15 minutes. The generation of thermal energy, however, makes consumptive use of water. In this case, the water is captured in surface springs and partially released, immediately downstream of the power generation unit, with losses that occur by evaporation.

Legislation

GRI 303-1

Law No. 9.433, of 1997, instituted the National Policy on Water Resources, based on fundamentals among which we highlight: in situations of scarcity, the priority use of water resources is for human and animal consumption; the management of water resources must always provide for the multiple use of water; and the management of water resources must be decentralized and count on the participation of the Public Power, users and communities. These fundamentals are considered when preparing Copel GeT's hydraulic operating rules and also in their revisions.

In the corporate risk management methodology, the possibility of changes in local regulations is considered. The active participation of Copel GeT as a member of the State Water Resources Council, Basin Committees and other forums allows for following the discussions on the topic. These entities are made up of government and civil society members, and water users.

In situations of water stress (quality or quantity), the regulatory agent mediates conflicts of interest. Potential conflicts are mapped by Copel itself, which indicates ways to reconcile them. The Situation of Water Resources in Brazil report, published by the National Water Agency in 2020, indicates that only 1.69% of conflicts over water in Brazil are in the South Region. According to the Situation of Water Resources in Paraná report, the largest volume of surface abstraction is intended for public supply and, due to the location of Copel's generation projects, the uses are not conflicting.



River Basin Committees

GRI 102-13

The River Basin Committees are the forum in which representatives of a river basin community discuss and deliberate on the management of resources, sharing responsibilities with the public authorities. The representation of different interests on water uses is important to prevent conflicts and ensure water availability for present and future generations. Within the scope of these entities, the Water Resources Plans are prepared for each River Basin, comprising the following information: conditions of availability and demand for water; repercussions of other public policies on water; future prospecting of uses; proposals for the creation of areas subject to restrictions on use, with a view to protecting water resources (areas for recharge of aquifers and springs, for example); and programs and projects to be implemented for a physical solution and for regulatory actions that ensure the scenario intended by the committee.

Copel GeT also participates in the crisis rooms in the South and Paranapanema regions organized by ANA. In these discussions, the different users of the river basin indicate their desires and needs and different modes of service are evaluated.

Water withdrawal (in megaliters) | GRI 303-3

	2019	2020	2021
Surface water	100,487.25	113,167.91	109,152.10
Underground water	26.87	21.73	37.00
Third party water	55.45	32.33	18.25
Total water collected	100,569.57	113,221.97	109,207.35

Note: all water collected by Copel GeT is considered fresh water, that is, it contains less than 1,000 mg/L of dissolved solids. Most of the surface water that is removed by Copel GeT for the operation of the hydroelectric power generation turbines is for non-consumptive use.

Water disposal

GRI 303-2, 303-5

The generation projects operated by Copel GeT release sanitary effluents with an irrelevant nominal flow compared to the flow of the receiving body. Even so, the Company monitors the release conditions every six months, through collections made in accordance with guidelines and procedures contained in the collection manuals of each asset, the analyzes are guided by the guidelines of the Standard Methods for the Examination of Water and Wastewater – APHA 2012.

In sanitary systems equipped with a sinkhole, there is no monitoring, as there is no discharge of effluents into surface water bodies. These infrastructures promote adequate infiltration of the treated effluent into the soil, in accordance with NBR 13969:1997 standard (“Septic Tanks - Complementary treatment units and final disposal of liquid effluents - Design, construction and operation”).

There are no specific disposal parameters for the hydroelectric sector. The conditions and standards adopted by Copel are derived from Conama Resolution 430/2011. Domestic effluents from administrative units are discharged into the public sewage system. In 2021, the systems monitored by Copel GeT presented results consistent with the recommended in CONAMA Resolution 430/2011 and Copel GeT consumed 11.05 megaliters of water.

Water disposal | GRI 303-4

Surface water	109,152.10
Underground water	29.60
Sea water	0.00
Third party water	14.60
Total water disposal	109,196.30

Note: the entirety of the surface water used in the processes is considered as water to be discarded.

As for groundwater and water supplied by third parties, a return coefficient of 0.80 is used, in which 80% of the potable water that enters the system is considered as produced effluent to be discarded.

6.1.2 Electricity and fuels

In 2021, Copel GeT consumed 11% less energy than in 2020. The Company's energy intensity, measured by the volume of electricity used in the year by the number of employees, was 32% lower.

Energy consumption within the organization | GRI 302-1

Energy consumption from non-renewable fuels

Type of fuels	Consumption (GJ)			Variation 2020 x 2021 (%)
	2019	2020	2021	%
Gasoline	1,254.00	261.94	952.20	264%
Diesel oil	16,782.13	10,881.42	13,178.15	21%
Airplane kerosene	58.41			
Total	18,094.54	11,143.36	14,130.35	27%

Energy consumption from renewable fuels

Type of fuels	Consumption (GJ)			Variation 2020 x 2021 (%)
	2019	2020	2021	%
Ethanol	8,291.48	5,581.14	6,636.28	19%
Biodiesel	1,492.58	1,363.33		-100%
Total	9,784.06	6,944.47	6,636.28	-4%
Total fuels	27,878.60	18,087.83	20,766.63	15%
	2019	2020	2021	Variation 2020 x 2021 (%)
Electricity consumption (GJ)	102,170.00	185,801.00	161,310.39	-13%
	2019	2020	2021	Variation 2020 x 2021 (%)
Total energy consumption (GJ)	130,048.60	203,888.83	182,077.02	-11%
	2019	2020	2021	Variation 2020 x 2021 (%)
Electricity sold (GJ)	55,189,100.00	65,413,543.83	70,751,504.92	

Notes:

- To calculate fuel consumption, the following proportion was considered: gasoline with 27% ethanol and diesel with 12% biodiesel.
- Electricity consumption includes: Copel GeT administrative units, Copel GeT substations and the plants' own consumption.
- For energy sold and the plants' own consumption, the following were considered: CCEAL, CCEARs and CER of the SPEs: BRISA I Complex, BRISA II Complex, SÃO BENTO Complex, CUTIA Complex, CUTIA Complex, BENTO MIGUEL Complex, FDA (Foz do Areia), Bela Vista and Vilas.

Copel's energy intensity | GRI 302-3

	2019	2020	2021	Variation 2020 x 2021 (%)
Electricity consumed (GJ)	102,170	185,801	161,310	
Total of its own employees	1,620	1,533	1,523	
Copel's energy intensity (GJ electricity consumption/number of its own employees)	63.07	121.20	105.92	-12.6%

Actions to reduce energy consumption and reductions obtained (KWh) | GRI 302-4

Action	Type of energy	Redução obtida em KWh
Replacement of 42 400W and 800W reflectors for 100W ones in the hydroelectric plants HPP GNB and HPP DRJ.	Electricity	105,996.00
Replacement of conventional light bulbs with LEDs at the hydroelectric power plant HPP GBM.	Electricity	19,048.10
Total		125,044.10

6.1.3 Climate change

GRI 103-1, 103-2, 103-3, 201-2

The effects of climate change directly affect Copel's business, impacting its operation, whether in the capacity to generate energy or in the demand for maintenance of transmission lines or other facilities, resulting in costs, the need for labor and losses for consumers.

Control of the risks and opportunities' financial implications is evaluated in learning meetings, after each temporal event, when the areas involved (agencies and operation and maintenance areas) discuss actions and identify opportunities for process improvement.



Aware of its responsibility on the subject, the Company announced, in 2021, its Carbon Neutrality Plan, through which it intends, by 2030, to neutralize greenhouse gas emissions and offset residual emissions from the assets it controls operationally. The actions foreseen in the plan will be unfolded by a Climate Change Commission, with the purpose of studying the best alternatives to be used, using the Science Based Target principle. Copel will also evaluate the services offer that make low-carbon energy available to customers and consumers. Another novelty is the inclusion of the effects of climate change on the main businesses in the Risk Matrix.

Copel's action on the subject is guided by the [Climate Change Policy](#), the guidelines of which are based on the recommendations and methodologies of the GHG Protocol, the Principles of the Global Compact, the National Policy on Climate Change, the State Policy on Climate Change and the Sustainable Development Goals (SDGs). The document has been in force since 2016.

Within Copel GeT's scope, the main emitting operational process is the Figueira thermal unit, which has equipment that controls atmospheric emissions (SOx, NOx, CO and particulate matter) to meet the legal limits allowed. The data is periodically monitored by specialized companies.

Greenhouse gas emissions

GRI 305-1, 305-2, 305-3, 305-4

Greenhouse gas emissions in 2021 (in tCO₂e) | GRI 305-1, 305-2, 305-3

GEE (t)	Scope 1	Scope 2 ("location" approach)	Scope 2 ("purchase choice" approach)	Scope 3
CO ₂	6,682.30	49,556.16	-	1,545.75
CH ₄	5.71	-	-	2.58
N ₂ O	15.37	-	-	23.32
HFCs	158.40	-	-	7.69
PFCS	-	-	-	-
SF6	634.50	-	-	-
NF3	-	-	-	-
Total	7,496.28	49,556.16	-	1,579.34

Notes:

The following sources of emissions were considered:

Scope 1: stationary combustion, mobile combustion, fugitive sources and land use change.

Scope 2: electricity consumption and electricity losses.

Scope 3: transport and distribution, displacement of employees, business trips, waste and effluents.

Due to the modernization of the Figueira Thermoelectric Power Plant, there were no emissions from this thermal source.

The emission factors proposed by the Brazilian GHG Protocol program were considered: CH₄ = 25 N₂O = 298 R -410 = 2,088 SF₆ = 22,800

GEE (t)	Scope 1	Scope 2 ("location" approach)	Scope 2 ("purchase choice" approach)	Scope 3
CO ₂	7,458.07	-	-	198.36

Comparison of 2020 and 2019 emissions (in tCO₂e)

	Scope 1	Scope 2	Scope 3
2020	14,562.00	15,715.00	514.00
2021	7,496.00	49,556.16	1,579.34
Variation (%)	-48.50%	215.40%	207.30%

Emission intensity | GRI 305-4

Scope 1 Emission	0000.4 CO ₂ / energy sold
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6.1.4 Waste management

GRI 306-1, 306-2

Copel GeT has an Environmental Management Program that includes, among others, the Solid Waste Management Subprogram, developed in accordance with the National Solid Waste Policy and other legislation and regulations in force. The main objectives include to promote the correct management of solid waste from generation to final destination, mitigate related environmental impacts and meet legal requirements and conditions of the of projects' environmental licensing. Being guided by the Company's Solid Waste Management Manual.

The activities of electricity generation and transmission in themselves do not depend directly on the consumption of inputs, however, the operation and maintenance of the equipment generate waste in a secondary way, which is properly segregated and sent to adequate storage until its final destination, thus avoiding possible negative impacts, such as water, soil and groundwater contamination.

The waste generated in the implementation of new projects is managed by the company contracted to carry out the work, within the scope of the environmental programs required in the environmental licensing. For renovations and other works, Copel requires the presentation and approval of the Civil Construction Waste Management Plan and, at the end of the work, the presentation of a report proving the execution of the plan, including transport manifests, destination certificates and environmental licenses.

The maintenance activities of plants and substations generate class I waste - hazardous, most of which are intended for co-processing in clinker production furnaces in the cement industry. However, some waste, mainly from civil maintenance activities or from the demobilization and maintenance of electrical equipment, with characteristics that do not leave alternatives beyond the final disposal, with the disposal being made in industrial landfills or incineration, however, its generation is exceptional.

It is also part of the Solid Waste Management Subprogram's scope to minimize the risks involved in the transport stage to final recipients, this stage being susceptible to potential negative impacts, such as traffic accidents, cargo leakage and/or contamination.

To this end, based on the prevention principle, the Company has the Hazardous Substances Transport Manual and the occupational safety area actively acts in the guidelines and requirements necessary for the contracted parties. Regarding the transport of hazardous waste, there is a requirement that the contracted parties present the Emergency Action Plan - PAE, in addition to Copel GeT having the Action Plan for Social and Environmental Emergencies - PAMA.

All waste disposal is carried out in accordance with legislation, prioritizing reuse and recycling, as established by the National Solid Waste Policy, and requiring the necessary technical qualifications from contracted companies. Pursuant to State Decree No. 8426/2017, the disposal of administrative recyclable waste is carried out through the Solidarity Selective Collection program, carried out in partnership with associations and cooperatives of recyclable materials, with the aim of contributing to the generation of income and improvement of collectors working conditions. The process to dispose of waste that still has the capacity to be used and added economic value, allows its return to production chains through recycling, thus promoting the maximization of social and environmental gains.

The controls and monitoring of the projects' waste management process are described in their Solid Waste Management Plans, with the quantitative control carried out by weighing the waste. The information regarding the generation, movement and final destination are registered in the company's Corporate Waste Registry – RCR software, which is the main tool to support waste management in the Company. Disposable waste, on the other hand, is controlled through SAP.

Pursuant to State Decree No. 8426/2017, the disposal of administrative recyclable waste is carried out through the Solidarity Selective Collection program, carried out in partnership with associations and cooperatives of recyclable materials, with the aim of contributing to the generation of income and improvement of collectors working conditions.

Qualitative monitoring is carried out through inspections to verify and evaluate the conditions and identification of collectors and plastic bags, observing the recommendations of CONAMA Resolution 275/2001 and evaluation regarding the correct waste segregation. Monitoring is also carried out through environmental self-monitoring, the 5S program, periodic environmental inspections and internal and external audits of the management system.

All the actions mentioned are monitored within the scope of the Solid Waste Management Subprogram. The management of this Subprogram involves the periodic review of the requirements, the identification of good practices in the sector, the planning of activities, the verification of compliance and adjustments applicable to the solid waste management process, seeking constant improvement in this process.

Materials used, broken down by weight or volume | GRI 301-1

Copel GeT	2020	2021
Materials	Kilograms	Kilograms
Aluminum	11,346.81	17,610.63
Copper	3,750.96	97,556.73
Electronic components		103,805.87
Contaminated		178,533.69
Iron and Steel	299.54	79,755.74
Insulators		15,804.24
Insulating Oil	33,423.82	101,400.00
Lubricant	554.66	61,349.10
Polymers		702,490.97
Paper		78,495.23
Glass and porcelain		52.83
Total	49,375.80	1,436,855.03

Waste generated in 2021 by composition | 306-3

Waste composition	Waste description	Total weight of waste generated (in tons)		
		2020	2021	%
Hazardous	Tows and cloths contaminated with oils and greases; fluorescent/mercury and sodium vapor lamps; used lubricating oil; mix (mixture of oils, solvents, paints and other similar waste - Class I residues); batteries; lead-acid batteries; RCC (asbestos powders and fibers); contaminated PPE; metals and silica gel	246.23	210.46	-15%
Non-hazardous waste - Class II	Paper and cardboard, plastic, glass, metals, non-ferrous metal packaging, construction waste, incandescent lamps, vegetable oil, iron waste with galvanized steel, copper scrap, various metal scrap, and organic waste.	145.35	288.25	98%
Total waste		391,58	498,71	27%

Waste diverted from disposal, by composition | GRI 306-4

Hazardous waste	Total waste weight (in tons)		Total	Total waste weight (in tons)		Total	%
	2020			2021			
	At Copel	Outside Copel		At Copel	Outside Copel		
Recycling	0.00	143.18	143.18	3.25	3.25	-98%	
Co-processing	0.00	14.76	14.76	50.77	50.77	244%	
Total hazardous waste diverted from disposal	0.00	157.94	157.94	0.00	54.02	54.02	-66%
Non-hazardous waste	Total waste weight (in tons)		Total	Total waste weight (in tons)		Total	%
	2020			2021			
	At Copel	Outside Copel		At Copel	Outside Copel		
Recycling	0.00	35.44	35.44	0.00	55.80	55.80	57%
Composting	14.49	0.00	14.49	13.42	0.00	13.42	-7%
Total non-hazardous waste diverted from disposal	14.49	35.44	49.93	13.42	55.80	69.22	39%

Total waste	2020		Total	2021		Total	%
	At Copel	Outside Copel		At Copel	Outside Copel		
	14.49	193.38	207.87	13.42	109.82	123.24	-41%
		207.87			123.24		-41%

Waste diverted from disposal, by composition | GRI 306-5

Total waste	Total waste weight (in tons)		Total	Total waste weight (in tons)		Total	%
	2020			2021			
	At Copel	Outside Copel		At Copel	Outside Copel		
Incineration without energy recovery	0	9.12	9.12	0	0	0	-100%
Landfill	0	1.73	1.73	0	154.52	154.52	8,832%
Total waste intended for disposal	0	10.85	10.85	0	154.52	154.52	1,324%

Non-hazardous waste	Total waste weight (in tons)		Total	Total waste weight (in tons)		Total	%
	2020			2021			
	At Copel	Outside Copel		At Copel	Outside Copel		
Landfill	0	12.67	12.67	0	231.67	231.67	1,728%
Total non-hazardous waste intended for disposal	0	12.67	12.67	0	231.67	231.67	1,728%

Total waste intended for disposal	2020		Total	2021		Total	%
	At Copel	Outside Copel		At Copel	Outside Copel		
		23.52	23.52		386.19	386.19	1,542%
		23.52			386.19		1,542%

Note: The increase in the amount of waste intended for disposal is due to greater control in the waste management from the Wind Power Complexes of Rio Grande do Norte, greater generation of civil construction waste in residential villages, mainly resulting from damage due to natural phenomena and the return of maintenance and operation activities in the projects, paralyzed due to the pandemic.

6.1.5 Ecosystems

GRI 304-2

All Copel GeT projects undergo environmental licensing, during which Environmental Impact Studies and their respective Environmental Impact Reports (EIA/Rima) or Simplified Environmental Reports (RAS) are prepared, depending on their size. It is identified whether these impacts are positive or negative; its spatialization (affected areas); the phase of occurrence in relation to the work; the incidence, whether direct or indirect; temporality (immediate, medium or long term); durability (temporary or permanent) and reversibility.

Copel GeT's projects for new ventures prioritize avoiding reaching protected areas or areas with high value for biodiversity. Whenever existing Conservation Units or other protected areas are identified, the possibilities of relocation or changes in the project are studied, aiming not to affect such areas. In cases where it is really not possible to change the project, every effort is made to minimize negative impacts as much as possible, maximize positive impacts, and compensatory programs are developed.

Subsequently, studies are prepared that indicate which environmental programs should be developed to avoid, minimize or compensate for the possible effects of each of them. At this stage, documents such as the Basic Environmental Plan (PBA) or the Detailed Report on Environmental Programs (RDPA) are produced.

In order to maintain the quality of the water in its reservoirs, during the installation phase of new projects, it is necessary to remove vegetation, which can result in the reduction of vegetation cover; reduction in the population of protected and/or endangered species; fragmentation and/or alteration of connectivity between adjacent native vegetation remnants; alteration of the remaining vegetation due to the edge effect and increased risk of fire occurrence. To mitigate these impacts, suppression monitoring and control is carried out to ensure that all procedures carried out in the field are in line with what is required by the competent environmental agency.



Before and during the vegetation suppression, flora species considered rare, endemic or threatened with extinction are saved. The collected specimens can be relocated in the Permanent Preservation Area (APP) of the enterprise, when existing, or in adjacent areas, or they can be used for studies, composition of a germplasm bank, or other activities that enable the species' conservation.

The formation of the Reservoir Protection Strip in the new hydroelectric plants expands the area of native vegetation in the region where the project is located, making the spaces recovered. APPs undergo periodic inspections to identify interference factors and eventual degradations.

Regarding fauna impacts, the implementation and operation of projects can lead to the reduction of habitats, an increase in accidents with terrestrial fauna, an increase in the risk of hunting and collision of the winged fauna and an obstacle to the reproduction of migratory species. To reduce this damage, before and during plant suppression, techniques are applied to scare away the local fauna and, whenever animals are sighted, activities are interrupted for rescue. If necessary, these animals are treated until they can be released into safe areas.

The faunal community conditions are monitored from before the beginning of the works until the start of operation. If changes related to the enterprise are noticed, actions are taken for resolution or compensation. A positive and relevant impact of these activities is the contribution to the scientific community through data generation.

Aquatic communities can be impacted when power plant reservoirs are formed. The change from lotic to lentic environments can form barriers to the reproduction of migratory ichthyofauna species and cause changes in the composition and dynamics of these communities. In addition, the operation of hydroelectric plants can lead to possible imprisonment of aquatic animals in places and fatal accidents or injuries.

Copel identifies eventual changes in these communities throughout the installation and operation stages, which allows the creation of testimonial collections in scientific institutions; promote a survey of existing species in the basin; analyze the biology (reproduction, feeding and activities) and dynamics of the fish community, including rare and/or threatened species; and outline conservation strategies.

Fish and aquatic invertebrates that could be trapped in place during construction are rescued, as well as those that could be harmed by lowering the water level or by machine stoppages for turbine maintenance. In all cases, the objective is to release it immediately into the same water body, downstream of the project. If, by chance, there is the occurrence of death, whenever possible the animals are sent to scientific institutions.

Owned, leased or managed operating units within protected areas | GRI 304-1

Area name	Size (km ²)	Location	Operation type	Value for biodiversity
<p>Rio dos Touros Ecological Station</p> <p>Vila Velha State Park</p> <p>Quartelá State Park Pau-Oco</p> <p>State Park Pico Marumbi State Park Rio Guarani</p> <p>State Park Serra da Baitaca</p> <p>State Park Vale do Codo</p> <p>State Park Guaricana National Park</p> <p>Campos Gerais National Park</p> <p>Tibagi River Wildlife Refuge</p> <p>Mono Castro Wildlife Refuge</p>	12.34	<p>Campo Largo, Carambeí, Castro, Guaratuba, Jaguariaíva, Morretes, Piraquara, Ponta Grossa, Quatro Barras, Reserva do Iguaçu, São José dos Pinhais, Tibagi e Três Barras do Paraná (PR)</p>	Power Generation and Transmission	<p>Conservation Units intended for the maintenance of ecosystems free from alterations caused by human interference, admitting only the indirect use of their natural attributes. The use limitation of these spaces varies according to the category: Ecological Station: aims to preserve nature and carry out scientific research; Park: of public ownership and domain, and the private areas included in its limits will be expropriated, in accordance with the provisions of the law; and Wildlife Refuge: aims to protect natural environments, where conditions for the existence or reproduction of species or communities of local flora and resident or migratory fauna are ensured.</p>
<p>Environmental Protection Area Corumbataí, Botucatu and Tejupa Corumbataí Perimeter</p> <p>Environmental Protection Area of Campinas</p> <p>Environmental Protection Area of Iguaçu</p> <p>Environmental Protection Area of Iraí</p> <p>Environmental Protection Area of Passaúna</p> <p>Environmental Protection Area of Pequeno</p> <p>Environmental Protection Area of Rio Paraíba do Sul</p> <p>Environmental Protection Area of Rio Verde</p> <p>State Environmental Protection Area of Escarpa Devoniana</p> <p>State Environmental Protection Area of Serra Da Esperança</p> <p>State Environmental Protection Area of Guaratuba</p> <p>Protection Area of Piraquara</p> <p>Environmental Protection Area Piracicaba</p> <p>Juqueri Mirim Area 1</p> <p>Environmental Protection Area</p> <p>Environmental Protection Area Cantareira System</p> <p>Piracicaba Juqueri Mirim Area 2</p> <p>Environmental Protection Area Cantareira System</p> <p>Natural Heritage Private Reserve of Natural Morro da Mina</p> <p>Natural Heritage Private Reserve of Perna do Pirata</p>	70.05	<p>Amparo, Analândia, Atibaia, Bragança Paulista, Campinas, Corumbataí, Igaratá, Itirapina, Jaguariúna, Morungaba, Pedreira, Piracaia, Rio Claro, São Carlos and São José dos Campos (SP), and Almirante Tamandaré, Antonina, Araucária, Balsa Nova, Campina Grande do Sul, Campo Largo, Campo Magro, Carambeí, Castro, Colombo, Curitiba, Guaratuba, Jaguariaíva, Morretes, Palmeira, Pinhais, Piraquara, Ponta Grossa, São José dos Pinhais, Tibagi, Tijucas do Sul and União da Vitória (PR)</p>	Power Generation and Transmission	<p>These are Conservation Units (UCs) in which the exploitation of the environment is allowed, but in such a way as to guarantee the continuity of renewable environmental resources and ecological processes, maintaining biodiversity and other ecological attributes, in a socially fair and economically viable manner. The use limitation of these spaces varies according to the UC category: Environmental Protection Area: generally extensive area, with a certain degree of human occupation, endowed with abiotic, biotic, aesthetic or cultural attributes, especially important for the quality of life and the well-being of human populations. Its basic objectives are to protect biological diversity, discipline the occupation process and ensure the sustainability of the use of natural resources. Private Natural Heritage Reserve: private area, recorded in perpetuity, with the objective of conserving biological diversity.</p>

Owned, leased or managed operating units adjacent to protected areas

Area name	Size (km ²)	Location	Operation type	Value for biodiversity
Assis Ecological Station Penhasco Verde State Park Pico Parana State Park Saint-Hilaire/Lange National Park Iguaçu National Park Campos Gerais National Park Augusto Ruschi Municipal Natural Park Tibagi River Wildlife Refuge	124.54	Antonina (PR) Assis (SP) Campina Grande do Sul (PR) Céu Azul (PR) Paranaguá (PR) Ponta Grossa (PR) Santa Tereza do Oeste (PR) São Jerônimo da Serra (PR) São José dos Campos (SP)	Power Generation and Transmission	Full protection Conservation Units, which are intended to maintain ecosystems free from alterations caused by human interference, admitting only the indirect use of their natural attributes. The use limitation of these spaces varies according to the category: Ecological Station: aims to preserve nature research; and carry out scientific research; Park: of public ownership and domain, and the private areas included in its limits will be expropriated, in accordance with the provisions of the law; and Wildlife Refuge: aims to protect natural environments, where conditions for the existence or reproduction of species or communities of local flora and resident or migratory fauna are ensured.
Environmental Protection Area of Iguaçu Environmental Protection Area of Irai Environmental Protection Area of Passaúna Environmental Protection Area of Pequeno Environmental Protection Area of Rio Verde State Environmental Protection Area of Escarpa Devoniana State Environmental Protection Area of Serra Da Esperança State Environmental Protection Area of Guaratuba				These are Conservation Units (UCs) of sustainable use, in which the exploitation of the environment is allowed, but in a way that guarantees the perpetuity of renewable environmental resources and ecological processes, maintaining biodiversity and other ecological attributes, in a socially just and economically viable manner. The use limitation of these spaces varies according to the UC category: Environmental Protection Area: generally extensive area, with a certain degree of human occupation, endowed with abiotic, biotic, aesthetic or cultural attributes especially important for the quality of life and the well-being of human populations. Their basic objectives are to protect biological diversity

Area name	Size (km ²)	Location	Operation type	Value for biodiversity
State Environmental Protection Area of Piraquara State Environmental Protection Area of Guaraqueçaba Area of Relevant Ecological Interest Matão de Cosmópolis State Forest of Assis Private Natural Heritage Reserve Granja Perobal Private Natural Heritage Reserve Mata do Barão Private Natural Heritage Reserve Narciso Luiz Vanini I	160.54	Almirante Tamandaré (PR) Antonina (PR) Araucária (PR) Artur Nogueira (SP) Assis (SP) Campina Grande do Sul (PR) Campo Largo (PR) Colombo (PR) Cosmópolis (SP) Cruz Machado (PR) Curitiba (PR) Londrina (PR) Medianeira (PR) Morretes (PR) Paranaguá (PR) Piraquara (PR) Ponta Grossa (PR) São Jorge D'Oeste São José dos Pinhais (PR) União da Vitória (PR)	Power Generation and Transmission	discipline the occupation process and ensure the sustainable use of natural resources. Area of Relevant Ecological Interest: a small extension area in general, with little or no human occupation, with extraordinary natural characteristics or that shelters rare specimens of the regional biota, and aims to maintain natural ecosystems of regional or local importance and regulate the admissible use of these areas, in order to make them compatible with nature conservation objectives. National/State Forest: an area with forest cover of predominantly native species, with its basic objective being the sustainable multiple use of forest resources and scientific research, with emphasis on methods for sustainable exploration of native forests. Private Natural Heritage Reserve: private area, recorded in perpetuity, with the objective of conserving biological diversity.

Areas of high biodiversity value located outside protected areas

Area name	Size	Location	Operation type	Value for biodiversity
MA063 MA062 MA065 MA068 AMZ-816 MA051	801.55	Almirante Tamandaré (PR) Antonina (PR) Araucária (PR) Balsa Nova (PR) Bituruna (PR) Bocaiúva do Sul (PR) Campina Grande do Sul (PR) Campo Largo (PR) Campo Magro (PR) Castro (PR) Colíder (MT) Colombo (PR) Cruz Machado (PR) Cruzeiro do Iguaçu (PR)	Power Generation and Transmission	Areas classified as "Extremely High" in terms of their biological importance for biodiversity conservation in which Copel GeT projects are located or through which Copel GeT projects pass.

Area name	Size (km ²)	Location	Operation type	Value for biodiversity
MA063 MA062 MA065 MA068 AMZ-816 MA051	801.55	Curitiba (PR) Itaúba (MT) Morretes (PR) Nova Canaã do Norte (MT) Nova Santa Helena (MT) Palmeira (PR) Pinhais (PR) Piraquara (PR) Porto União (SC) Porto Vitória (PR) Quedas do Iguaçu (PR) Rio Bonito do Iguaçu (PR) Rio Branco do Sul (PR) São João (PR) São Jorge D'Oeste (PR) São José dos Pinhais (PR) Saudade do Iguaçu (PR) Sulina (PR) Três Barras do Paraná (PR) União da Vitória (PR)	Power Generation and Transmission	Areas classified as "Extremely High" Power in terms of their biological of biodiversity in which Copel GeT projects are located or through which Copel GeT projects pass.



Area name	Size (km ²)	Location	Operation type	Value for biodiversity
MA064 MA106 292 298 MA067 MA058 AMZ-529	459.45	Apucarana (PR) Arapongas (PR) Arapoti (PR) Araraquara (SP) Assaí (PR) Bituruna (PR) Boa Esperança do Sul (SP) Boa Vista da Aparecida (PR) Cambira (PR) Candói (PR) Capitão Leônidas Marques (PR) Cascavel (PR) Catanduvas (PR) Céu Azul (PR) Colíder (MT) Coronel Domingos Soares (PR) Foz do Jordão (PR) Ibaté (SP) Itaúba (MT) Jaguariaíva (PR) Lindoeste (PR) Londrina (PR) Mandaguari (PR) Mangueirinha (PR) Matelândia (PR) Nova Prata do Iguaçu (PR) Pinhão (PR) Reserva do Iguaçu (PR) Ribeirão Bonito (SP) Santa Lúcia (PR) Santa Tereza do Oeste (PR) São Jerônimo da Serra (PR) Tibagi (PR) Três Barras do Paraná (PR) Ventania (PR) Virmond (PR)	Power Generation and Transmission	Areas classified as “Very High” in terms of their biological importance for biodiversity conservation in which Copel GeT projects are located or through which Copel GeT projects pass.
MA092 MA099 MA072 MA090	32.11	Arapoti (PR) Castro (PR) Ibaiti (PR) Ortigueira (PR) Sapopema (PR) Telêmaco Borba (PR)	Power Generation and Transmission	Areas classified as “High” in terms of their biological importance for biodiversity conservation in which Copel GeT projects are located or through which Copel GeT projects pass.

6.1.6 Endangered species

Protected and restored habitats

GRI 304-3

Copel GeT maintains a series of ecological stations, preservation areas, among other spaces for conservation and environmental protection. The Rio dos Touros and Tia Chica Ecological Stations, and the Guarani River State Park, constitute Conservation Units belonging to the Company, but managed by Instituto Água e Terra (IAT). The protected areas located in Serra do Mar, including the Guaricana National Park (Parna), areas of the Chaminé hydroelectric plant, the Guaricana hydroelectric plant, Osso D'anta and Colônia Santos Andrade area, are monitored by Copel GeT through Contract 4600014901/2018.

Through the Forest Compensation Subprogram, Copel GeT seeks to comply with Art. 17 of the Atlantic Forest Law (Law 11.428/2006) which determines the need for forest replacement for projects located in the Atlantic Forest biome that require plant suppression. The initiative is also carried out in enterprises located in other biomes, with plant suppression that affects APPs, in compliance with Conama Resolution 369/2006. For these areas, the implications of Federal Law 12.651/2012, known as the New Forest Code, are also considered.

For recovery activities, technical projects are prepared, which are submitted for approval by the competent Environmental Agency. Once approved, the plantings are carried out, as well as the necessary maintenance. Periodic inspections are carried out to analyze the degree of restoration development at the sites.

In 2021, Copel GeT voluntarily joined the Monitoring Network of the Serra do Mar Large Mammals Program, an initiative of the Manacá Institute and the Cananéia Research Institute (IPeC) with the objective of implementing the monitoring of large large-scale mammals. Areas of the company located in Serra do Mar Paranaense, very relevant for the conservation of biodiversity, will be integrated in the structured and systematic monitoring, generating data on the biodiversity of areas that make up a large mosaic of protected areas in the largest continuous remnant of the Atlantic Forest, essential region for the conservation and refuge of several threatened species of Paraná and Brazil's fauna.

Also noteworthy are the monitoring actions of endangered fauna, such as the southern muriqui (*Brachyteles arachnoides*) and the dark-eared marmoset (*Callithrix aurita*). These

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species were observed during the implementation of transmission lines and started to be monitored specifically by copelsustentabilidade.com.

The southern muriqui is one of the largest primates in the Americas and endemic to the Atlantic Forest, populations of this species were identified in the municipality of Castro/PR, during the works of the LT 230kV Bateias-Jaguariaíva. The occurrence of the dark-eared marmoset is associated with the implementation of the LT 230kV Araraquara II-Taubaté, in São Paulo.

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Restored biodiversity

EU13

Most sites restored or under restoration by Copel GeT were previously used as pastures, crops or commercial reforestation, therefore presenting partially or completely altered soil and vegetation. For restoration, techniques are applied such as isolation of disturbance factors, conduction of natural regeneration, direct sowing, planting with native tree species, green manure, nucleation, among others.

Over time, the biodiversity and ecological processes of these sites tend to increase, approaching the pre-degradation state. With the recovery of the flora, the areas begin to attract species of native fauna, according to the degree of development. The period required to achieve this objective varies according to the conditions of each location.

The delimitation of existing APPs or those to be implemented always follow the existing premises in the applicable legislation (Federal Law 12.651/2012).

The Management Plans for the Restoration Monitoring Subprograms, Forest Compensation Subprogram, Riparian Forest Subprogram and Biodiversity Management Subprogram, are the management instruments that provide for the improvement actions to be adopted as well as the creation of indicators seeking the evolution of the monitoring and management processes of Copel GeT's protected or restored areas, as well as their existing biodiversity.

Regarding the areas covered by Forest Compensation, the Company currently has 11 enterprises with projects under development. The projects in progress are related to the following enterprises:

- - LT 500 kV Araraquara 2 - Taubaté;
- - SE Taubaté;
- - LT 230 kV Andirá Leste Sections 1 and 2;

- - LT 500 kV Assis - Londrina;
- - LT 230 kV Assis - Paraguaçu Paulista 2;
- - LT 230 kV Baixo Iguaçu - Realeza Sul;
- - LT 230 kV SECC Cascavel Oeste - Foz do Iguaçu Norte;
- - LT 500 kV Blumenau - Curitiba Leste;
- - LT 525 kV Subestação Foz do Iguaçu Furnas - Cascavel Oeste;
- - Complexos Eólicos Cutia e Bento Miguel;
- - PCH Bela Vista e LDAT 138 kV Bela Vista do Chopim - Dois Vizinhos.

Some areas presented in 2019 and 2020 were considered completed.

For the LT 500 kV Araraquara II - Taubaté, LT 500 kV Blumenau - Curitiba Leste and PCH Bela Vista, part of the compensation for the suppression in the Atlantic Forest biome took place through the institution of perpetual environmental easement in areas with well-developed forest, ensuring their conservation.

In the other areas, forest restoration actions or the eradication of exotic species continue to be carried out and monitored until the restoration indicators determined in the legislation are met.

For the Permanent Preservation Areas of Copel GeT's projects located in Paraná, the monitoring and mapping activities allowed the updating of the values of areas already recovered or in regeneration.

In the APP of the HPP Colíder reservoir, located in the State of Mato Grosso (MT), during the implementation of the project, several actions were carried out for the implementation of the Permanent Preservation Area. Among them, the material from the Flora Rescue Subprogram promoted the planting of approximately 290,000 seedlings of native tree species in 172 hectares and direct sowing (muvuca) in about 50 hectares. Additionally, some restoration cores were installed. Still in the implementation phase, more than 97,000 meters of fences bordering the APP were built, providing isolation for the cattle and the consequent start of the natural regeneration process, according to the resilience of each location. In 2021, another 5,000 meters of fences were built around the reservoir in order to isolate areas and promote natural regeneration.

Size and location of all areas of protected or restored habitat | GRI 304-3

Area name	Size (hectare)	Geographic location	Actions carried out from the perspective of preservation or restoration and their results
Forest Compensation Projects	173		<p>Due to the need to carry out plant suppression for the implementation of projects, Copel carries out forest compensation programs to restore or protect an area equivalent to or greater than the affected area, according to environmental conditions. Currently, forest compensation actions are distributed as follows: 120 hectares of compensatory plantations and 17 hectares of eradication of exotic species. It's important to point out that the monitoring of compensatory actions is carried out until the full restoration of the area. The number does not include areas where forest compensation actions have already been completed.</p>
Environmental Easement Areas	148		<p>To compensate for the suppression of the Atlantic Forest biome, a perpetual environmental easement was instituted on 148 hectares, which are already duly approved by the competent environmental agency. Monitoring of these areas is continuous throughout the project's concession.</p>
APPs Paraná	3,499		<p>In compliance with applicable legislation, Copel GeT maintains the respective Permanent Preservation Areas (PPAs) around the artificial reservoirs of its Hydroelectric Power Plants (HPPs). In addition to the legal prerogative (Law nº 12.651/2012), in the technical aspect, the preservation of these areas also helps to improve water quality and reduce the contribution of sediments to the interior of the reservoirs, contributing to the conservation of their useful life. Annually, a report is produced with the situation of the PPAs in the reservoirs in the previous year.</p>
APPs Mato Grosso	5,495		<p>In the HPP Colíder Permanent Preservation Area, out of a total of 5,495 hectares, 4,869 hectares have forest cover without the need for intervention. In other words, 88.6% of the reservoir's APP already fulfills its environmental function. Two hundred and sixty-five hectares are still devoid of vegetation due to land use, requiring interventions for their restoration, which are planned for the coming years.</p>

Area name	Size (hectare)	Geographic location	Actions carried out from the perspective of preservation or restoration and their results
Serra do Mar Areas - PARNA Guaricana	6,003.83		<p>The areas located in Serra do Mar are composed of several spaces that are intended for the environmental conservation of properties affected by the Guaricana National Park (Guaratuba - PR). They are monitored by Copel through contract no. 4600014901/2018.</p> <p>The property located in Serra do Mar are the following:</p> <p>Castelhanos - 1,210 ha Cubatão Grande - 1210 ha Ribeirão do Salto - 1836.78 ha Salto Cubatão Grande - 166.25 ha Canavieiras - 1580.8 ha</p>
Serra do Mar Areas - HPP Chaminé	3,513.36		<p>Property acquired by Copel, but intended only for environmental conservation. The areas are also monitored according to contract No. 4600014901/2018. The properties are the following:</p> <p>Araçatuba - 730.74 ha Porto Bonito - 1900.12 ha São João - 882.50 ha</p>
Serra do Mar Areas - UHE Guaricana	795.42		<p>Properties acquired by Copel, but which are not and will not be used for operational purposes (considered unusable for this purpose), being intended exclusively for conservation. Part of them is located in the Guaricana National Park, in the municipalities of São José dos Pinhais, Morretes and Guaratuba (PR). The areas are also monitored by Copel according to contract No. 4600014901/2018.</p>
Serra do Mar Areas - Various	70.05		<p>Copel properties currently only intended for environmental conservation:</p> <p>Osso Danta - 67.25 ha Colônia Santos Andrade - 2.8 ha</p> <p>Both areas are monitored by Copel according to contract No. 4600014901/2018.</p>
Tia Chica Ecological Station	423.05		<p>The Tia Chica Ecological Station will be classified as Full Protection, with the aim of preserving nature and carrying out scientific research. The area declared to be of Public Utility for the purpose of expropriation has not yet been declared a Conservation Unit - the process is in progress. This will serve as environmental compensation for the HPP Derivação do Rio Jordão. The area is located in the Mixed Ombrophilous Forest or Araucaria Forest, in the backwater of the plant's reservoir.</p>

Area name	Size (hectare)	Geographic location	Actions carried out from the perspective of preservation or restoration and their results
Guarani River State Park	2,322.00		The Rio Guarani State Park is classified as Full Protection and aims to preserve natural ecosystems of ecological relevance and scenic beauty. On July 19, 2000, the creation of the Rio Guarani State Park was decreed, through State Decree 2322/2000, for the environmental compensation of the HPP Governador José Richa. It is located in the Semideciduous Seasonal Forest and Mixed Ombrophilous or Araucaria Forest, on the right bank of the reservoir of the HPP Governador José Richa (Salto Caxias), in the municipality of Três Barras do Paraná (PR).
Rio dos Touros Ecological Station	1,231.06		The Rio dos Touros Ecological Station is classified as Full Protection and aims to preserve nature and carry out scientific research. On June 5, 2001, the creation of the Rio dos Touros Ecological Station was decreed, for the environmental compensation of the HPP Governador Ney Braga (State Decree 4.229/2001). It is located in the Mixed Ombrophilous Forest or Araucaria Forest, on the right bank of the reservoir of HPP Governador Ney Braga (Salto Segredo), municipality of Reserva do Iguaçu, in Paraná.

Endangered species

Number of species according to threat | GRI 304-4

Critically endangered	13
Threat of extinction	58
Vulnerable	100
Almost threatened	66
Little concern	341

Note: The information refers to the species of fauna and flora of all generation projects, in expansion or operation, in which periodic monitoring, forest inventory and/or rescue of fauna and flora are carried out.

6.2 Environmental performance indicators

6.2.1 Generation-specific indicators

Generation Source	Performance Indicators	Result
Hydraulic	Water consumption per KWh generated	1.89 m ³ /s/MWh
	Restoration of riparian forest	In the process of contracting the companies executing the plantations, according to the region.
	Fish rescue in turbines	12,040 fish rescued
	Efficiency rate in rescuing fish in turbines	98.62% rescued alive
	Fish restocking	40,445 fingerlings released
Wind farms	NPS Compliance Rate - Sound Pressure Level	89% compliant
	Impact on winged fauna	10 birds Number of carcasses registered within the area of wind farms in the year 2021

Hydraulics - Electricity Consumption of Generating and Auxiliary Units

HYDROELECTRIC PLANTS	2021	2020	2019
Gov. Bento Munhoz da Rocha Netto HPP (Foz do Areia)	30,100.85	30,222.47	17,984.35
Gov. Ney Aminthas de Barros Braga HPP (Segredo)	5,266.21	6,649.34	3,163.99
Gov. Jose Richa HPP (Salto Caxias)	6,430.09	8,395.45	87.43
Gov. Parigot de Souza HPP (GPS)	5.64	0.24	0.51
Gov. Jayme Canet Junior HPP (Mauá)	0.00	0	-
Colíder HPP	0.00	2.05	80.79
Baixo Iguaçu HPP (30% share of Copel)	0.00	0	0.021673
Guaricana HPP	0.00	0	-
Cavernous II SHP	0.00	0.00	0,00
Chaminé HPP	0.00	0.00	-
Apucarantina HPP	1.27	0.02	1.40

HYDROELECTRIC PLANTS	2021	2020	2019
Bela Vista HPP	14.52	-	-
Derivação do Rio Jordão HPP	0.00	0	-
Marumbi HPP	4.02	8.17	11.07
São Jorge HPP	14.11	21.97	0.23
Chopim HPP	4.77	3.69	4.06
Cavernoso HPP	0.17	0.23	0.21
Melissa HGP	4.46	4.28	10.71
Salto do Vau HGP	2.91	3.89	4.68
Pitangui HGP	9.31	6.29	1.69
Total	41,858.33	45,318.09	21,351.13
THERMOELECTRIC	2021	2020	2019
Figueira TGP	274.79	0	-
WIND POWER	2021	2020	2019
Northeast SPEs	137.43	709.54	455.63
Palmas TGP	4.75	4.89	5.51
Total	42,275.30	46,032.52	21,812.27

6.2.2 Transmission-specific indicators

PERFORMANCE INDICATORS	MEASUREMENT UNIT	2021	2020	2019
Vegetable suppression	Hectares of suppressed area per quarter	0	81,1	36,3
Cutting under LTs	Annual services (Kg)	5,988,331.5	5,720,904	2,589,572
Pruning	Volume of waste generated in kg per month	0	630	535,750



7 SOCIAL BALANCE

7.1 Social Balance

ANNUAL SOCIAL BALANCE

In December 2021 and 2020

(Amounts expressed in thousands of reais, unless otherwise stated)

1 - CALCULATION BASE		2021		2020	
NE 30	Net Revenue - RL	7,551,426		5,029,120	
2- INTERNAL SOCIAL INDICATORS		% on RL		% on RL	
NE 31.2	Administrators' remuneration	5,036	0.1	4,976	0.1
	Employees remuneration	245,845	3.3	24,319	4.8
	Food (Food aid and others)	33,439	0.4	32,565	0.6
	Compulsory social charges	80,937	1.1	81,202	1.6
	Pension plan	26,096	0.3	22,365	0.4
	Health (Welfare plan)	53,878	0.7	44,507	0.9
	Training and professional development	2,243	-	1,374	-
NE 31.2	Provisions for performance and profit sharing	90,325	1.2	113,575	2.3
NE 31.2	Labor Compensations	39,649	0.5	11,879	0.2
	Culture	259	-	71	-
	Day care or day care aid	370	-	412	-
	Occupational health and safety	2,180	-	1,371	-
	Education	585	-	769	-
	Extended maternity benefit	183	-	272	-
	Surplus transportation voucher	46	-	48	-
	Total	581,071	7.7	556,705	11.1
3 - EXTERNAL SOCIAL INDICATORS		% on RL		% on RL	
	Culture	999	-	4,226	0.1
	Health and sanitation	750	-	1,052	-

In December 2021 and 2020

(Amounts expressed in thousands of reais, unless otherwise stated)

	Sport	920	-	1,056	-
	Childhood and adolescence fund	500	-	1,056	-
	Research & Development	40,785	0.5	22,449	0.3
	Senior citizen fund	-	-	1,056	-
	Others	459	-	491	-
	Total contributions to society	44,413	0.6	31,386	0.6
	Taxes (excluding social charges)	1,658,240	22.0	1,176,117	23.4
	Total	1,702,653	22.5	1,207,503	24.0
	4 - ENVIRONMENTAL INDICATORS		% on RL		% on RL
	Investments and maintenance expenses in operational processes	25,263	0.3	29,422	0.6
	Investments and expenses with the preservation and/or recovery of	2,065	-	6,336	0.1
	Investments and expenses on environmental education for	171	-	329	-
	The Investments and expenses with	3,445	-	5,167	0,1
	Total	30,944	0,4	41,254	0,8
(1)	Environmental sanctions				
	Number of environmental sanctions to improve the environment in the year	2		1,00	
	Value of environmental sanctions (R\$ thousand)	2,510		1,189	
	Environmental goals		2021		Goals 2021
	- forward 70% of industrial waste for reuse or recycling		() has no goals () complies with 0 to 50% () complies with 51% to 75% (x) complies with 76% to 100%		() has no goals () complies with 0 to 50% for () complies with 51% to 75% (x) complies with 76% to 100%
	Others environmental projects				

In December 2021 and 2020

(Amounts expressed in thousands of reais, unless otherwise stated)

	2021	2020				
5 - STAFF INDICATORS (includes subsidiaries)						
Employees at the end of the period	1,538	1,549				
Admissions and readmissions during the period	1	1				
Employees' education:						
	Men	Women	Total	Men	Women	Total
University extension	401	177	578	385	163	548
University education	404	129	533	446	140	586
Technical education	294	24	318	300	23	323
High School	86	20	106	69	17	86
Elementary School	2	1	3	5	1	6
Age range of employees:						
From 18 to 30 years old (exclusive)			25			41
From 30 to 45 years old (exclusive)			840			880
From 45 to 60 years old (exclusive)			617			586
60 years old or older			56			42
Women working in the Company			351	344		
% of women in managerial positions:						
in relation to the total number of women			8.5	7.8		
in relation to the total number of managers			22.9	20.6		
Black people working at the Company			190	91		
% of black people in management positions:						
in relation to the total number of black people			3.7	9.9		
in relation to the total number of managers			5.3	6.9		

In December 2021 and 2020

(Amounts expressed in thousands of reais, unless otherwise stated)

	People with special needs	13	15
	Dependents	1,977	1,977
	Outsourced	443	461
(2)	Apprentice(s)	6	14
(2)	Intern(s)	28	30
	Employees with more than 10 years of	1,279	1,149
	Division of the company's highest salary by the lowest	26	29
	Number of employees earning more than 2 minimum	1,524	1,547
	Labor lawsuits		
	Number of labor lawsuits in progress at the end of the year	782	2, 184
	Number of lawsuits included in the year	106	992
	Number of labor lawsuits closed in the year	144	183
	Considered valid	106	64
	Considered invalid	38	119
6 - RELEVANT INFORMATION REGARDING THE EXERCISE OF CORPORATE CITIZENSHIP			
	Relationship between the highest and lowest remuneration in the Company	19	19
(3)	Total number of Work Accidents (includes accidents with contracted parties)	24	33
		2021	Goals 2021
	The social and environmental projects developed by the Company were defined by	board and management	board and management
	Projects developed by Company were defined by	everyone + Cipa	everyone + Cipa
	Regarding freedom of association, the right to collective bargaining	encourages and follows the OIT	will encouraged and follow the OIT
	Regarding freedom of association, the right to collective bargaining	everyone	everyone
	The right to collective bargaining and the internal representation of workers, the Company:	everyone	everyone

In December 2021 and 2020

(Amounts expressed in thousands of reais, unless otherwise stated)

In the selection of suppliers, the same ethical standards and social and environmental responsibility adopted by the Company:	are demanded	will be demanded
Regarding the participation of employees in volunteer work programs, the Company:	organizes and encourages	will organize and encourage
7- WEALTH GENERATION AND DISTRIBUTION	2021	2020
Total added value to be distributed	5,539,041	3,679,015
Added Value Distribution (DVA):		
Third parties	10.4%	11.2%
Personnel	8.7%	12.8%
Government	29.9%	32.0%
Shareholders	27.6%	27.7%
Retained	23.4%	16.3%
8 - OTHER INFORMATION		
<ul style="list-style-type: none"> As of 2010, the Brazilian Institute of Social and Economic Analysis - Ibase no longer prescribes its standard Social Balance model because it understands that this tool and methodology are already widely disseminated among companies, consultancies and institutes that promote corporate social responsibility in Brazil. Therefore, Copel Geração e Transmissão, which had been using this model since 1999, decided, based on Ibase's guidance, to improve its Social Balance sheet, also covering information requested in NBCT 15, aiming at information transparency. 		
<ul style="list-style-type: none"> The explanatory notes - NEs are an integral part of the Financial Statements and also contain other information of a socio-environmental nature not included in this Social Balance Sheet. 		
<ul style="list-style-type: none"> This Social Balance Sheet includes data from the holding Company, wholly-owned subsidiaries and subsidiaries of Copel, due to the consolidation of their results, unless otherwise indicated. 		

(1) This information refers to administrative sanctions that entered the year, which may be in defense proceedings or environmental lawsuits considered unfavorable in the year.

(2) Are not part of the staff.

(3) Calculated using the methodology used in the GRI G4 Sustainability Report - LA6 indicator.



8

COMPOSITION OF GROUPS RESPONSIBLE FOR GOVERNANCE

NOMINATION AND EVALUATION COMMITTEE

Chairman	Marcos Leandro Pereira
Member	Robson Augusto Pascoalini
Member	Durval José Soledade Santos

BOARD OF DIRECTORS

Chairman	Daniel Pimentel Slaviero
Executive Secretary	Moacir Carlos Bertol
Member	Cassio Santana da Silva Luiz Claudio Maia Vieira

FISCAL COUNCIL

President (Government)	Demetrius Nichele Macei
Advisor (Government)	Harry Françóia Júnior
	José Paulo da Silva Filho
Alternate Advisor (Government)	Otamir Cesar Martins
Alternate Advisor (Government)	Verônica Peixoto Coelho

BOARD

General Director	Moacir Carlos Bertol
CEO of Finance and Investor Relations	Adriano Rudek de Moura
Legal and Institutional Relations Director	Eduardo Vieira de Souza Barbosa
Director of Operations and Maintenance of Generation and Transmission	Carlos Frederico Pontual Moraes
Administrative and Equity Director	Adriano Fedalto

STATUTORY AUDIT COMMITTEE

Chairman	Marco Antônio Barbosa Cândido
Financial expert member	Carlos Biedermann
External member	Luiz Claudio Maia Vieira

STATUTORY AUDIT COMMITTEE FOR COPEL GET SUBSIDIARIES

Member	Zeno Bannach Junior
Member	Nelson Luiz Paula de Oliveira

ACCOUNTANT

CRC-PR-043819/O-0	Ronaldo Bosco Soares
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9

GRI CONTENT INDEX

9.1 GRI Content Index

GRI Standards	Disclosure	Notes	Report page	Omission
OVERALL STANDARD CONTENT				
ORGANIZATIONAL PROFILE				
GRI 102-1	Organization name		cover	
GRI 102-2	Activities, brands, products and services		15	
GRI 102-3	Headquarter location at organization	Rua José Izidoro Biazetto, 158 - bloco A - Mossunguê	15	
GRI 102-4	Location of the organization's operations		15	
GRI 102-5	organization Location of the organization's operations		15	
GRI 102-6	Markets served		15	
GRI 102-7	Size of the organization			
GRI 102-8	Information about employees (its own and third parties)		78,79, 80,97	
GRI 102-9	Supply chain		102	
GRI 102: 2016 STANDARD CONTENT	GRI 102-10	Main changes regarding size, structure or shareholding	Copel acquired the Vilas Wind Power Complex, in the amount of R\$ 1.086 billion. The enterprise has 186.7 MW of installed capacity and is located in the municipality of Serra do Mel (RN), in one of the best regions in the world for wind energy generation. With this complex, Copel now has 920.22 MW of generating capacity in wind farms in that state. Completion and inauguration of the Bela Vista Small Hydroelectric Power Plant, total investment in the work was R\$ 224 million by Copel. The plant is composed of three generating units in the main powerhouse and one more, smaller, in the complementary powerhouse. Together, they add up to a power of 29.81 megawatts (MW).	
	GRI 102-11	Precautionary principle		63
	GRI 102-12	External initiatives		27

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 102: 2016 STANDARD CONTENT	GRI 102-13	Affiliations to associations		32,120	
	ESTRATÉGIA				
	GRI 102-14	Message from the CEO		6	
	GRI 102-15	Description of the main impacts, risks and opportunities		63	
	ETHICS AND INTEGRITY				
	GRI 102-16	Values, principles, standards and rules of conduct		57	
	GRI 102-17	Advice mechanisms and ethics concerns		59	
	GOVERNANCE				
	GRI 102-18	Governance structure		52, 53	
	GRI 102-19	Delegation of authority	As established by Art. 28 of Copel's (Holding) Bylaws, it is the CAD's responsibility to provide the Company's general direction, including defining objectives and priorities in meeting public policies compatible with the area of operation and the corporate purpose, seeking sustainable development, in addition to approving and monitoring general policies. The Statutory Committee for Sustainable Development has the purpose of advising CAD in proposing guidelines, policies and main topics related to people and Environmental, Social and Governance (ESG) management, just as the Investment and Innovation Committee has the purpose of evaluating and issuing a recommendation on the Company's investment plans. The competence to resolve on economic, environmental and social matters is defined by the Company's Bylaws and detailed in the Internal Regulations of the Gathered Board of Directors. The competencies of the subordinate areas of each executive board are established in Organizational Standards – NOC and in Competence Levels – NCO.		

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 102: 2016 STANDARD CONTENT	GRI 102-20	Executive-level responsibility for economic, environmental and social issues		52	
	GRI 102-21	Stakeholder consultation on economic, environmental and social issues		10	
	GRI 102-22	Composition of the highest governance body and its committees		52	
	GRI 102-23	Chairman of the highest governance body	The positions of Board of Directors Chairman and Chief Executive Officer or main executive of the Company cannot be accumulated by the same person, as established in § 6 of Art. 17 of Copel's Bylaws		
	GRI 102-24	Appointment and selection for the highest governance body		54	
	GRI 102-25	Conflict of interest		58	
	GRI 102-26	Role of the highest governance body in defining purpose, values and strategy	The attributions of the Board of Directors in the development, approval and updating of purpose, mission statement, vision and values, and definition of strategies, policies and goals related to economic, environmental and social issues of the organization are provided for in Art. 28 of Copel's Bylaws and in Art. 10 of its Internal Regulations.		

GRI Standards	Disclosure	Notes	Report page	Omission
GRI 102: 2016 STANDARD CONTENT	GRI 102-27	Knowledge and development of the highest governance body	51	
	GRI 102-29	Identification and management of economic, environmental and social impacts	63	
	GRI 102-30	Effectiveness of risk management processes	63	
	GRI 102-31	Assessment of economic, environmental and social issues	Copel adopts an annual calendar of meetings and ordinary assemblies of the governance bodies during which economic, environmental and social issues are evaluated and resolved, as well as their impacts, risks and opportunities, as established in Copel's Bylaws and Internal Regulations of the governing bodies. Some subjects have a pre- defined agenda, in accordance with applicable legislation, in particular regulatory issues and those associated with the Instructions of the Securities and Exchange Commission, which determine the obligation of monitoring and rendering of accounts, such as: approval of the Annual Letter of Public Policies and Corporate Governance, Reference Form, Governance Report, Sustainability Report (Integrated Report), other corporate reports and risk and impact monitoring reports. Governance bodies also hold extraordinary meetings.	
	GRI 102-32	Role of the highest governance body in the preparation of sustainability reports	11	

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 102: 2016 STANDARD CONTENT	GRI 102-33	Communicating critical concerns	<p>The Statutory Audit Committee has, among its attributions, to propose to the Board of Directors of Copel (Holding) the promotion of actions aimed at: internal disclosure of the procedures for receiving and handling information on errors or relevant frauds related to accounting, auditing and internal controls, as well as non-compliance with legal and regulatory provisions and internal rules, providing for specific procedures to protect the informant, such as anonymity and confidentiality of information; annually monitor the quality and integrity of the internal control mechanisms, the financial statements and the information and measurements disclosed; evaluate and monitor, on a quarterly or per occurrence basis, together with management and Internal Audit, the adequacy of transactions with related parties in accordance with the relevant policies; assess and monitor risk exposures annually. The Statutory Audit Committee must, individually or jointly with the independent auditing company hired by the Company, formally communicate to the management bodies, within a maximum period of three business days from its identification, the existence or evidence of: non-compliance with legal rules and regulations that jeopardize the continuity of the Company's business; fraud of any value perpetrated by the Administration; material fraud perpetrated by employees or third parties; and errors that result in material inaccuracies in the accounting and financial statements.</p>		
	GRI 102-34	Nature and total number of critical concerns		59	

GRI Standards	Disclosure		Notes	Report page	Omission	
GRI 102: 2016 STANDARD CONTENT	GRI 102-35	Remuneration policies		50		
	GRI 102-36	Process for determining remuneration		50		
	GRI 102-37	Stakeholder involvement in remuneration processes	The only stakeholder involved in the remuneration process is the State of Paraná government, through the Control Council of State Companies (CCEE).			
	GRI 102-38	Proportion between total annual remuneration	In 2021, there was no salary policy, in general, the increase in salaries was due to the correction by the Collective Bargaining Agreement. In the year, the proportion between the total annual remuneration of the highest paid individual and the annual average of COPEL GET employees was XX%.			
	GRI 102-39	Percentage increase in total annual remuneration	In 2021, there was no salary policy, in general, the increase in salaries was due to the correction by the Collective Bargaining Agreement. In the year, the increase proportion in annual remuneration was 100%.			
	STAKEHOLDER ENGAGEMENT					
	GRI 102-40	List of stakeholder groups engaged by the organization		29		
	GRI 102-41	Collective bargaining agreements	100% of Copel's own employees are covered by collective bargaining agreements.			
	GRI 102-42	Basis for identifying and selecting stakeholders to engage with		29		
	GRI 102-43	Approach adopted for stakeholder engagement		29		
GRI 102-44	Main themes and concerns raised with stakeholders		12			
REPORTING PRACTICES						

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 102: 2016 STANDARD CONTENT	GRI 102-45	Entities included in the consolidated financial statements	The Financial Statements are published by Copel (Holding) See the investor relations website.		
	GRI 102-46	Definition of report content and limits of each material topic		12	
	GRI 102-47	List of material topics		12	
	GRI 102-48	Information reformulations		11	
	GRI 102-49	Changes in reporting		10	
	GRI 102-50	Period covered by the report		10	
	GRI 102-51	Previous report date		10	
	GRI 102-52	Reporting cycle			
	GRI 102-53	Contact details regarding the report		10	
	GRI 102-54	"Agreement" option chosen by the organization	This report was prepared in accordance with the GRI Standards in the "Essential" option.		
	GRI 102-55	GRI Standards Content Summary		153	
	GRI 102-56	External verification	The information contained in this document was duly examined and approved by the Fiscal and Management Councils of Copel Geração e Transmissão S.A. In addition, the GRI indicators were verified by an independent external audit for Copel's (Holding) Integrated Report, whose name and process used are detailed in the Audit Opinion included in this report.		
ELECTRICITY SECTOR INDICATORS	ORGANIZATIONAL PROFILE				
	EU4	Length of overhead and underground transmission and distribution lines, broken down by regulatory system	230 KV = 159.2 Km		

GRI Standards	Disclosure	Notes	Report page	Omission
MATERIAL TOPICS				
CORPORATE GOVERNANCE RISK MANAGEMENT AND CYBERSECURITY				
GRI 103: MANAGEMENT FORMS	GRI 103-1	Explanation of material themes and their limits	63	
	GRI 103-2	Management approach and its components	63	
	GRI 103-3	Assessment of the management approach	63	
GRI 201: 2016 ECONOMIC PERFORMANCE	GRI 201-2	Financial implications and other risks and opportunities arising from climate change	63	
GRI 205: ANTICORRUPTION 2016	GRI 205-1	Operations subject to risk assessments related to corruption	59	
	GRI 205-2	Communication and training on anti-corruption policies and procedures	57	
	GRI 205-3	Confirmed cases of corruption and actions taken	59	
GRI 206: ANTICOMPETITIVE BEHAVIOR	GRI 206-1	Lawsuits brought by unfair competition, trust and monopoly practices	In 2021, Copel did not identify any lawsuits filed for the aforementioned reasons.	
GRI 415: PUBLIC POLICIES	GRI 415-1	Total value of financial contributions to political parties	As a mixed capital company, Copel is legally prohibited from making this type of contribution. Art. 31, item III, of Law No. 9.096, of September 19, 1995, forbids parties to receive, directly or indirectly, under any form or pretext, pecuniary or estimable assistance or contribution in cash, including through advertising of any kind, from public entities and legal entities of any nature, except for the provisions referred to in art. 38 of this Law and those from the Special Fund for Campaign Financing.	
GRI 418: CUSTOMER PRIVACY 2016	GRI 418-1	Proven complaints regarding breach of customer privacy and loss of customer data	In 2021, there were no complaints regarding the violation of privacy and loss of customer data at Copel DIS.	

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 419: SOCIAL COMPLIANCE 2016	GRI 419-1	Non-compliance with laws and regulations in the social and economic area	In 2021, Copel did not receive any fines or sanctions for noncompliance with laws and regulations in the social and economic areas.		
OPERATIONAL EFFICIENCY					
GRI 103: FORMS OF MANAGEMENT 2016	GRI 103-1	Explanation of material themes and their limits		40	
	GRI 103-2	Management approach and its components		40	
	GRI 103-3	Assessment of the management approach		40	
ELECTRICITY SECTOR INDICATORS	ORGANIZATIONAL PROFILE				
	EU2	Net energy production, broken down by primary energy source and regulatory system		42,43	
	AVAILABILITY AND RELIABILITY				
	EU6	Electricity availability and reliability		44	
	DEMAND MANAGEMENT				
	EU7	Demand management programs including residential, commercial, institutional and industrial programs			Does not apply to GET business
	EU8	Research and development activities and expenditures aimed at providing reliable electricity and promoting sustainable development		113	
	AVAILABILITY AND RELIABILITY				
	EU10	Planned capacity against projected long-term energy demand		45	
	SYSTEM EFFICIENCY				
	EU11	Average generation efficiency of thermal plants by energy sources and regulatory regime		42	

GRI Standards	Disclosure	Notes	Report page	Omission
ELECTRICITY SECTOR INDICATORS	EU12	Losses in energy transmission and distribution as a percentage of total energy		
	ACCESS			
	EU28	Frequency of power supply interruptions		40
	EU29	Average duration of power supply interruptions		40
	EU30	Average plant availability factor, broken down by energy source and regulatory system		44
ECONOMIC AND FINANCIAL PERFORMANCE				
GRI 103: FORMS OF MANAGEMENT 2016	GRI 103-1	Explanation of material themes and their limits		68
	GRI 103-2	Management approach and its components		68
	GRI 103-3	Assessment of the management approach		68
GRI 201: ECONOMIC DEVELOPMENT	GRI 201-1	Direct economic value generated and distributed		98
	GRI 201-3	Coverage of defined benefit pension plan obligations that the organization offers		86
	GRI 201-4	Significant financial assistance received from the government	The amount of R\$ 420,000 refers to the tax incentive received by Copel GET, such as the Sports Incentive Law	
PEOPLE MANAGEMENT AND OCCUPATIONAL HEALTH AND SAFETY				
GRI 103: FORMS OF MANAGEMENT 2016	GRI 103-1	Explanation of material themes and their limits		91
	GRI 103-2	Management approach and its components		91
	GRI 103-3	Assessment of the management approach		91
GRI 401: EMPLOYMENT	GRI 401-1	New employee hires and turnover by age group, gender and region		81, 100
	GRI 401-2	Benefits granted to employees		82

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 401: EMPLOYMENT	GRI 401-3	Return to work and retention rates after maternity/paternity leave		83	
GRI 402: LABOR RELATIONS MANAGEMENT 2016	GRI 402-1	Minimum period for notification of operational changes	At Copel, there are no established deadlines for communicating operational changes. This issue is also not provided for in the collective agreement. However, the Company maintains a close relationship with employee representatives and usually informs them in advance when significant operational changes will occur in the organization.		
GRI 404: TRAINING AND EDUCATION 2016	GRI 404-1	Average number of training hours, by employee category and gender		84, 86, 99	
	GRI 404-2	Competency management and lifelong learning programs		86	
	GRI 404-3	Percentage of employees receiving performance and career development reviews		84	
GRI 405: DIVERSITY AND EQUAL OPPORTUNITIES	GRI 405-1	Diversity and Equal Opportunities		89, 90, 97	
	GRI 405-2	Ratio of base salary and remuneration received by women and those received by men		82, 91	
GRI 406: NON DISCRIMINATION 2016 2016	GRI 406-1	Total number of incidents of discrimination and corrective measures taken		87	
GRI 407: FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING 2016	GRI 407-1	Cases in which freedom of association and collective bargaining maybe violated		103	
ELECTRICITY SECTOR INDICATORS	EMPLOYMENT				
	EU14	Availability of skilled labor		84	
	EU15	Percentage of employees who can retire in the next 5 and 10 years, broken down by occupational category and region		86	
	EU16	Health and safety of employees, contracted parties and subcontracted parties		91	

GRI Standards	Disclosure		Notes	Report page	Omission
ELECTRICITY SECTOR INDICATORS	EU18	Percentage of contracted and subcontracted workers who have undergone relevant health and safety training		96	
GRI 403: OCCUPATIONAL HEALTH AND SAFETY 2018	OCCUPATIONAL HEALTH AND SAFETY				
	GRI 403-1	Occupational health and safety management system		91	
	GRI 403-2	Hazard identification, risk assessment and incident investigation		63	
	GRI 403-3	Occupational health services		91, 92	
	GRI 403-4	Participation, consultation and communication of workers on occupational health and safety		93	
	GRI 403-5	Training of workers in occupational health and safety		93	
	GRI 403-6	Promotion of worker's health		95	
	GRI 403-7	Prevention and mitigation of impacts on occupational health and safety directly linked by commercial relationships		92	
	GRI 403-8	Workers covered by an occupational health and safety management system		94	
	GRI 403-9	Work-related injuries		96	
GRI 403-10	Work-related health problems		92		

GRI Standards	Disclosure	Notes	Report page	Omission
ENVIRONMENTAL MANAGEMENT AND ACTIONS AGAINST CLIMATE CHANGE				
GRI 103: FORMS OF MANAGEMENT 2016	GRI 103-1	Explanation of material themes and their limits	116	
	GRI 103-2	Management approach and its components	116	
	GRI 103-3	Assessment of the management approach	116	
GRI 301: MATERIALS 2016	GRI 301-1	Materials used, broken down by weight or volume	127	
	GRI 301-2	Percentage of materials used from recycling	Copel GeT does not use recyclable materials in its operations.	
GRI 302: ENERGY 2016	GRI 302-1	Energy consumption within the organization	122	
	GRI 302-2	Energy consumption outside the organization	Copel GeT does not manage energy consumption outside its organizational boundaries.	
	GRI 302-3	Energy intensity	123	
	GRI 302-4	Reduction of energy consumption	123	
	GRI 302-5	Reductions in energy requirements for products and services	No initiative has been conducted to reduce electricity requirements for power generation in 2021.	
GRI 303: WATER AND EFFLUENTS 2018	GRI 303-1	Interactions with water as a shared resource	118, 119	
	GRI 303-2	Management of water discharge impacts	121	
	GRI 303-3	Water catchment	121	
	GRI 303-4	Water disposal	121	
	GRI 303-5	Water consumption	Water consumption measured by the total withdrawal minus the total disposal does not apply to Copel GeT, since most of the withdrawal is for nonconsumptive use. Domestic effluents from administrative units are discharged into the public sewage system. In 2021, the systems monitored by Copel GeT presented results consistent with the recommended in CONAMA Resolution 430/2011 and Copel GeT consumed 11.05 megaliters of water.	121

GRI Standards	Disclosure	Notes	Report page	Omission
GRI 305: 2016 EMISSIONS	GRI 305-1	Direct Greenhouse Gases (GHG) Emissions - SCOPE 1	124	
	GRI 305-2	Indirect Greenhouse Gases (GHG) Emissions - SCOPE 2	124	
	GRI 305-3	Other indirect Greenhouse Gas (GHG) emissions - SCOPE 3	124	
	GRI 305-4	Intensity of Greenhouse Gas (GHG) emissions	124, 125	
	GRI 305-5	Reduction of Greenhouse Gases (GHG) emissions		
	GRI 305-6	Emissions of substances that deplete the ozone layer (ODS)		
	GRI 305-7	NOx, SOx and other significant air emissions		
GRI 306: WASTE 2020	GRI 306-1	Waste generation and significant wasterelated impacts	125	
	GRI 306-2	Management of significant wasterelated impacts	125	
	GRI 306-3	Generated waste	128	
	GRI 306-4	Waste not intended for final disposal	128	
	GRI 306-5	Waste not intended for final disposal	129	
GRI 308: ENVIRONMENTAL ASSESSMENT OF SUPPLIERS 2016	GRI 308-1	New suppliers selected based on environmental criteria	103	
	GRI 308-2	Negative environmental impacts in the supply chain and measures taken	103	
GRI 304: BIODIVERSITY 2016	GRI 304-1	Owned, leased or managed operating units within or adjacent to environmental protection areas and areas of high biodiversity value located outside environmental protection areas	132	
	GRI 304-2	Significant impacts of activities, products and services on biodiversity	130	
	GRI 304-3	Protected or restored habitats	137, 140	

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 304: BIODIVERSITY 2016	GRI 304-4	Species included on the IUCN Red List and national conservation lists with habitats in areas affected by the organization's operations		142	
BIODIVERSITY					
ELECTRICITY SECTOR INDICATORS	EU13	Biodiversity of offset areas compared to biodiversity of affected areas		138	
GRI 307: ENVIRONMENTAL COMPLIANCE 2016	GRI 307-1	Non-compliance with environmental laws and/or regulations	In 2021, there were no noncompliances with environmental laws and regulations registered at COPEL GET.		
ORGANIZATIONAL PROFILE					
ELECTRICITY SECTOR INDICATORS	EU3	Number of residential, industrial, institutional and commercial consumer units	Industrial: 34 Commercial: 0 Other classes (rural, its own consumption, etc.): 73 Total: 108 Copel GeT defines its energy trading strategy passing on to Copel Comercialização S.A. the energy sales targets to be met by entering into contracts with third parties.		

GRI Standards	Disclosure	Notes	Report page	Omission	
ELECTRICITY SECTOR INDICATORS	ACCESS				
	EU23	Programs, including those in partnership with the government, to improve or maintain access to electricity services and customer support	Registration sanitation of the consumer units of the Apucarantina Indigenous Land: the action was developed from the articulation of Copel GeT with the State Coordination of CadÚnico, the Municipal Social Assistance Secretariat of Londrina and Copel Distribuição aiming at greater inclusion and maintenance of indigenous families as beneficiaries of electric energy social programs. This insertion depends, first, upon the families being duly registered in CadÚnico and their data being up to date. For this reason, the main intermediation took place with the institutional responsible for these registries. The objective is to contribute to reduce the values of electricity invoices from the Apucarantina Indigenous Community. The maintenance of access to the TSSE in 2021 took place through the monthly monitoring of these consumer records by Copel GeT in conjunction with Copel Dis and the Londrina Social Assistance Secretariat.		
	EU26	Percentage of population not served in licensed distribution or service areas	Copel concluded its Universalization Plan in the urban area in 2006 and in the rural area in 2010.		
	EU27	Number of residential disconnections for non-payment, broken down by disconnection duration and regulatory regime			Does not apply to GET business

GRI Standards	Disclosure	Notes	Report page	Omission
INFORMATION PROVISION				
ELECTRICITY SECTOR INDICATORS	EU24	Practices to address barriers related to language, culture, low literacy and disability by safely accessing and using electricity services and customer support	In 2021, a partnership with the Department of Electrical Engineering of the State University of Londrina (UEL) was initiated, an Educational Program for the efficient and safe use of electricity in the Apucarana Indigenous Land, where Copel GeT has a hydroelectric power plant and Conduct Adjustment Terms in force. This program will be made possible as a result of a partnership to be signed with the State University of Londrina. The LIA - Legitimate interest assessment - document is being processed for analysis by Copel's Data Protection Agent, in order to assess Copel's legitimate interest as a legal basis for sharing the data requested by the university. The execution of this program will be a counterpart of Copel GeT for the renegotiation of the TAC clause that assigns to Copel GeT the responsibility for paying for the community's energy consumption. This indicator will be monitored from 2022 with the start of activities.	
	SOCIAL RESPONSABILITY			
GRI 103: FORMS OF MANAGEMENT 2016	GRI 103-1	Explanation of material themes and their limits		103
	GRI 103-2	Management approach and its components		103
	GRI 103-3	Assessment of the management approach		103
GRI 202: MARKET PRESENCE 2016	GRI 202-1	Variation in the lowest wage, broken down by gender, compared to the local minimum wage		82
	GRI 202-2	Proportion of senior executives hired from the local community	The Company does not perform this type of differentiation as the organizational division does not follow these criteria. There are no directors in operating units.	

GRI Standards	Disclosure		Notes	Report page	Omission
GRI 203: INDIRECT ECONOMIC IMPACTS 2016	GRI 203-1	Investments in infrastructure and services offered		103	
	GRI 203-2	Significant indirect economic impacts, including the extent of impacts		105	
GRI 204: MARKET PRACTICES 2016	GRI 204-1	Proportion of expenses on local suppliers at key operating units		101, 102	
GRI 408: CHILD LABOR 2016	GRI 408-1	Operations and suppliers with risk of incidents of child labor		103	
GRI 409: FORCED OR SLAVE-LIKE LABOR 2016	GRI 409-1	Operations and suppliers with risk of incidents of slave labor		103	
GRI 411: RIGHTS OF INDIGENOUS PEOPLES 2016	GRI 411-1	Cases of violation of the rights of indigenous peoples	No cases of violation of the rights of indigenous or traditional peoples were identified in 2021.		
GRI 412: HUMAN RIGHTS ASSESSMENT 2016	GRI 412-1	Operations subject to human rights analysis or assessment	In the process of implementing its projects, Copel GeT carries out an impact assessment through studies of the physical, biotic and socioeconomic environments. Then, the basic environmental project or action plan is prepared. In this context, human rights are observed in an amplified way, without specifying which or what has been established as a priority for analysis linked to human rights. In the operating ventures, there is no due diligence on human rights. Both in the implementation and operational phases, the company provides channels for dialogue and complaints to interested parties. In 2020, Copel established the company's human rights policy applicable to its subsidiaries. In 2021, the policy underwent a review that included the creation of mechanisms to prevent Human Rights violations, with periodic review. In view of this, it is understood that Copel GeT will be able to carry out a study and proposal for the establishment of procedures that meet the policy's guidelines.	86	

GRI Standards	Disclosure	Notes	Report page	Omission
GRI 412: HUMAN RIGHTS ASSESSMENT 2016	GRI 412-2	Employee training in human rights policies or procedures		
	GRI 412-3	Significant investment agreements and contracts that include human rights clauses or that have undergone human rights assessment.	The acquisition and contracting processes are based on the Internal Regulations for Bidding and Contracts, in force as of 05/01/2021, as well as in the respective legislation that regulates the forms of contracting (through bidding and its modalities, through waiver in accordance with the foreseen items or by means of unenforceability, characterized by the infeasibility of competition), including Laws No. 10,520/2002 – which institutes the bidding modality called trading session, and Complementary Law No. 123/2006 – establishes the National Statute of Microenterprises and Small Businesses. Although its selection actions are restricted by current legislation, when selecting suppliers, the company uses as criteria compliance with labor, human rights, tax and environmental legislation, which are applicable to all companies that may be contracted.	
GRI 413: LOCAL COMMUNITIES 2016	GRI 413-1	Community engagement programs, impact assessments and/or local development	106, 109	
	GRI 413-2	Operations with negative impacts on local communities	103, 105	
GRI 414: SOCIAL ASSESSMENT OF SUPPLIERS 2016	GRI 414-1	New suppliers selected based on social criteria	103	
	GRI 414-2	Negative social impacts on the supply chain and measures taken	Copel does not manage the percentage of suppliers identified with negative social impacts. Although COPEL GET has clauses related to the observance and respect of human rights in its contracts, the information on this indicator is not available.	

GRI Standards	Disclosure	Notes	Report page	Omission	
ELECTRIC SECTOR INDICATORS	LOCAL COMMUNITIES				
	EU19	Stakeholder participation in decision-making processes		45	
	EU20	Approach to managing displacement impacts.	Copel is committed to providing full support to the population compulsorily relocated due to the implementation of its projects, respecting the principles of respect for people and human dignity. In situations in which families are unable to promote their relocation with compensation amounts due to their losses, Copel performs the categorization and monitoring of the families. For these cases, it implements social compensation actions, in addition to the value of its indemnification, which consist of enabling the affected family to be relocated to a better or similar area to the one they had previously, recovering their previous economic condition.		
	EU22	Number of physically and economically displaced persons and compensation by type of project	In 2021, generation works that require displacement were not carried out and there is no need for this movement in the works of high voltage lines		
	CONTINGENCY PLANS AND RESPONSE TO DISASTERS AND EMERGENCIES				
	EU21	Contingency planning measures, disaster/emergency management plan and training programs and recovery/restoration plans		63	
	CUSTOMER HEALTH AND SAFETY				
EU25	Number of injuries and fatalities to the public involving company assets, including legal judgments, settlements and illness legal backlog cases	Community accidents are monitored through reports received by employees. No accidents of this nature were recorded in 2021.			



GRI Standards	Disclosure	Notes	Report page	Omission
ENERGY SECTOR TRANSFORMATION				
ELECTRICITY SECTOR INDICATORS	EU1	Installed capacity, broken down by primary energy source and regulatory system		
	EU 2	Net energy production, broken down by primary energy source and regulatory system	42, 43	
	EU 12	Losses in energy transmission and distribution as a percentage of total energy		



10 ATTACHMENTS

10.1 F.D.A. Geração de Energia Elétrica S.A

10.1.1 Company profile

A F.D.A. Geração de Energia Elétrica S.A. (“F.D.A.”) enrolled with CNPJ (Corporate taxpayer Registration) under no. 35.742.218/0001- 04, with administrative headquarters at Rua José Izidoro Biazetto, 158 - Bloco A - Orleans - Curitiba - PR, CEP 81.200-240, was incorporated, under the terms of its Bylaws, as a Company, on 12.04.2019 and is intended for electricity generation.

On 03.02.2020, Copel Geração e Transmissão S.A. (“Copel GeT”) transferred to F.D.A. the concession of HPP Governador Bento Munhoz da Rocha Neto (“GBM” or “Foz do Areia”) through the execution of a Concession contract with Aneel, expiring on 09.17.2023, same term as the original concession. HPP GBM has an installed capacity of 1,676.0 MW and a physical guarantee of average 603.3 MW.

On 03.03.2020, a request was made to the Ministry of Mines and Energy - MME for the classification of the plant under the terms of Federal Decree No. 9,271/2018. The purpose of the statement is to enable a new grant for a period of 30 years, conditioned to a process of disposal of the respective SPE’s control, in accordance with the prerogatives of the aforementioned Federal Decree, within a period of up to 18 months before the the grant contract’s expiration.

In the regulatory environment, we celebrate the enactment of Law No. 14,052/2020, which established new conditions for the renegotiation of the hydrological risk of electricity generation. After the law’s enactment, it was up to ANEEL to regulate the procedures for the renegotiation. The resolution defined the methodology for calculating compensation to hydroelectric generation agents participating in the Energy Reallocation Mechanism (MRE), with a direct impact on the F.D.A. As a result, the concession of HPP GBM should be expanded, affected by the hydraulic displacement resulting from generation outside the order of merit, importation, anticipation of physical guarantee of structuring projects and transmission restrictions associated with the start-up of operations of the facilities intended for the outflow.

In 2021, Copel GeT will continue the studies for the control sale of its subsidiary F.D.A., as an option for the re-bidding of HPP GBM, at the end of its concession.

Pre-operational phase

The following are the main information on the economic and financial performance of F.D.A. Geração de Energia Elétrica S.A:

FDA in numbers

In thousands of reais Accounting	2021	2020	variation %
Indicators			
Total asset	995,870	652,443	52.6
Cash and cash equivalents	68,033	197,067	(65.5)
Marketable securities	11,404	11,007	3.6
Gross operating revenue	784,379	652,980	20.1
Revenue deductions	82,355	33,939	142.7
Net operating revenue	702,024	619,041	13.4
Operating costs and expenses	165,909	277,388	(40.2)
Result of activities	536,115	341,653	56.9
Ebitda or Lajida	604,983	392,761	54.0
Financial result	10,865	2,473	339.3
IRPJ/CSLL	185,725	21,032	783.1
Operational profit	546,980	344,126	58.9
Net income for the fiscal year	361,255	323,094	11.8
Net worthônio	701,119	605,485	15.8
Dividends	343,193	306,939	11.8
Economic-Financial Indicators			
Current liquidity (index)	1.7	5.8	(70.7)
General liquidity (index)	1.1	5.9	(81.4)
Ebitda or Lajida Margin (Ebitda or Lajida/net operating income) (%)	86.2	63.4	36.0
Operating margin (operating profit/net operating revenue) (%)	77.9	55.6	40.1
Net margin (net profit/net operating revenue) (%)	51.5	52.2	(1.3)
Third-party equity participation (%)	29.6	7.2	311.1
Return on net worth (%) ⁽¹⁾	59.7	-	-
⁽¹⁾ LL ÷ (initial PL)			

Shared management of resources

Copel GeT manages its own generation and transmission assets and its wholly-owned subsidiaries (direct and indirect) through a shared structure of human resources.

In addition to operational activities, sharing reaches the Board and the Fiscal Council. The Board of Directors is specific, to which it applies, as applicable, the planning, strategic risks and internal controls defined within the scope of Copel GeT to its investees 100%.

Due to the F.D.A. transfer having been carried out in 2020, the specific indicators of the dimensions: Social and Sector and Environmental were recorded in an integrated way with the Copel GeT indicators, regarding the base year 2021.

10.1.2 Composition of the Groups Responsible for Governance

BOARD OF DIRECTORS

Board President	MARCIO RAPHAEL PLOSZAJ
Members	JUAREZ RIBAS TEIXEIRA JUNIOR
	THAIS CERCAL DALMINA LOSSO
	MARCIO LUIS BLOOT
	CRISTINA KAKAWA
	MILTON FRANCISCO DOS SANTOS JUNIOR
	ITAMAR PINTO PAZ

FISCAL COUNCIL

Council President	ROBERTO MARCHIORO JUNIOR
Full members	KLEBERSON LUIZ DA SILVA
	LUIZ HENRIQUE DE MELLO
	WALTER GUANDALINI JÚNIOR
Alternate Members	ANA CLARA SOLIS DE FIGUEIREDO MORRISSY
	LILIAN RENATA DE ANDRADE
	ALFONSO SCHMITT
	ANGELA BEATRIZ ALCAIDE

STATUTORY AUDIT BOARD**Full members**

NELSON LUIZ PAULA DE OLIVEIRA

ZENO BANNACH JUNIOR

BOARD**Executive Director**

CARLOS FREDERICO PONTUAL MORAES

Administrative-Financial Director

ADRIANO FEDALTO

ACCOUNTANT

CRC-PR-043819/0-0

RONALDO BOSCO SOARES

10.2 Costa Oeste Transmissora de Energia S.A

10.2.1 Company profile

Costa Oeste Transmissora de Energia S.A (Costa Oeste or Company), established in October 2011, is a company that operates in the area of electricity transmission as a special purpose company - SPE and has Copel Geração e Transmissão S.A. (Copel GeT) as the sole shareholder. In turn, Copel GeT is controlled by Companhia Paranaense de Energia (Copel or Parent Company).

Its construction, operation and maintenance activities of electric energy transmission facilities are regulated by the National Electric Energy Agency - Aneel, linked to the Ministry of Mines and Energy - MME, through the Public Energy Service Concession Agreement No. 001/ 2012 - Aneel. The concession period, 30 years from the date of execution of the contract, ends on 01.11.2042

Costa Oeste Transmissora S.A., a company that has a 100% stake in Copel GeT, is responsible for the Cascavel Oeste - Umuarama Sul (230 kV) transmission line, with a length of 144.5 km, and the Umuarama substation (230/138 - 13.8 kV), with 300 MVA.

Costa Oeste in numbers

In thousands of reais Accounting	2021	2020	variation %
Indicators			
Total asset	132,400	120,331	10.0
Cash and cash equivalents	6,754	4,779	41.3
Marketable securities	1,365	1,315	3.8
Total debt	16,294	19,240	(15.3)
Net debt	8,175	13,146	(37.8)
Gross operating revenue	24.409	26.385	(7,5)
Revenue deductions	1,045	910	14.8
Net operating revenue	23,364	25,475	(8.3)
Operating costs and expenses	3,167	7,491	(57.7)
Result of activities	20,197	17,984	12.3
Ebitda or Lajida	20,208	17,995	12.3
Financial result	(869)	(1,132)	(23.2)

In thousands of reais Accounting	2021	2020	variation %
IRPJ/CSLL	818	1,005	(18.6)
Operational profit	19,328	16,852	14.7
Net income for the fiscal year	18,510	15,847	16.8
Net worth	104,916	90,802	15.5
Economic-Financial Indicators			
Current liquidity (index)	1.3	1.0	30.0
General liquidity (index)	4.8	4.1	17.1
Ebitda or Lajida Margin (Ebitda or Lajida/net operating income) (%)	86.5	70.6	22.5
Total debt over net worth (%)	15.5	21.2	(26.9)
Operating margin (operating profit/net operating revenue) (%)	82.7	66.2	24.9
Net margin (net profit/net operating revenue) (%)	79.2	62.2	27.3
Third-party equity participation (%)	20.8	24.5	(15.1)
Return on net worth (%) ⁽¹⁾	20.4	20.1	1.5

⁽¹⁾ LL ÷ (initial PL)

10.2.2 Operating Performance

Costa Oeste Transmissora de Energia S.A was formed with the specific purpose of implementing, operating and commercially exploring the transmission facilities of Auction Notice No. 04/2011 - Aneel. The public notice gave rise to the Concession Contract for the Public Energy Transmission Service No. 001/2012 - Aneel, comprising the 230 kV Transmission Line, single circuit, with an approximate length of 144.76 km, originating at the Cascavel Oeste Substation and ending in the Umuarama Sul Substation and by the Umuarama Sul Substation, with 230/138 kV transformation - 300 MVA and respective connections of transformer units, line inputs, interconnection of buses, buses, linked facilities and other facilities necessary for the measurement, supervision, protection, command, control, telecommunication, administration and support functions, located in the State of Paraná.

The company Caiuá Transmissora de Energia S.A., through the Non-Onerous Transfer of Goods Agreement No. 001/2014, in compliance with the criteria for the composition of the Basic Network of the National Interconnected System, formalized by Normative Resolution No. 67/2004 and the Public Notice of Auction nº 006/2011 - Aneel, transferred to Costa Oeste the Sectioning Facilities of the Cascavel Oeste - Umuarama Sul 230 kV Transmission Line from Costa Oeste.

After the Sectioning of the Cascavel Oeste - Umuarama Sul 230 kV Transmission Line, the Costa Oeste assets had the following configuration:

- A 230kV Transmission Line Input, at the Cascavel Oeste Substation of Copel GeT, in the municipality of Cascavel - PR;
- Two 230kV Transmission Line Inputs, at Cascavel Norte Substation of SPE Caiuá, in the municipality of Cascavel - PR;
- 230kV CS Transmission Line, 29.60 km long, connecting the Cascavel Norte Substation with the Cascavel Oeste Substation, with 64 towers and a sectioning portion with 7.30 km in length with 28 shared dual-circuit towers, passing through the municipalities of Cascavel and Santa Tereza do Oeste;
- CS 230kV Transmission Line, 129.76 km long, connecting Cascavel Norte substation with Umuarama Sul Substation, with 303 towers and a 7.30 km sectioning portion with 28 shared dual-circuit towers, passing through 9 municipalities in the region;
- 230/138kV Umuarama Sul substation with 02 three-phase transformers of 150 MVA, located in the municipality of Umuarama - PR.
- Two 138 kV Line Inputs at the Umuarama Sul Substation of Copel Distribuição S.A, in the municipality of Umuarama - PR;

This venture started commercial operations in August 2014, with investments of R\$ 82.5 million, earning from that date the monthly installments of the Permitted Annual Revenue. RAP, provided for in the Concession Agreement No. 001/2012, signed with the National Electric Energy Agency - Aneel. Additionally, still in August 2014, it signed the Contract for the Provision of Transmission Services - CPST No. 014/2012 with the National Electric System Operator - ONS, becoming part of the Basic Grid of the National Interconnected System - SIN.

In 2018, a Share Exchange Agreement was signed between Copel GeT and Eletrosul Centrais Elétricas S.A., with Costa Oeste, Marumbi Transmissora de Energia S.A. and Transmissora Sul Brasileira de Energia S.A. as consenting parties.



10.2.3 Corporate Governance Dimension

Corporate Governance

Costa Oeste Transmissora de Energia S.A. follows the corporate governance guidelines of its Parent Company, which includes an efficient set of mechanisms, both for incentives and monitoring, in order to ensure that the managers' performance is always aligned with the best interests of Copel, stakeholders and the government of Paraná. The main documents and governance policies of Costa Oeste Transmissora de Energia S.A. can be checked at Copel's electronic address.I.

Governance Structure

Costa Oeste Transmissora de Energia S.A. follows the governance practices and policies adopted by Copel regarding the General Shareholders' Meeting, Nomination and Evaluation Committee, Fiscal Council, Board of Directors, Executive Board, Statutory Audit Committee, Internal Audit, Investment and Innovation Committee and Sustainable Development Committee.

Integrity

Integrity Program

One year after the enactment of the Anti-Corruption Law (Law No. 12,846/2013) and its Decree No. 8.420, which defined obligations and sanctions, the Parent Company created its Integrity Program, an instrument that allows the integrated management of internal controls, constituting a planned environment to provide reasonable assurance that authorizations and records of accounting transactions are carried out properly, thus enabling the preparation and disclosure of financial reports in accordance with current regulations.

Costa Oeste follows the Integrity Program's guidelines of its parent company, which aims to prevent, detect and remedy possible harmful acts that involve, for example, the occurrence of bribery, kickbacks, conflict of interest, fraud in bidding processes and payments, among others. Its rules are applicable to all employees, administrators and advisors.

Reporting channels

In order to receive opinions, criticisms, complaints, reports and personal consultations, Costa Oeste provides the Parent Company's communication channels, which in addition to contributing to the fight against fraud and corruption, also expand the organization's relationship with stakeholders.

External Audit

Under the terms established by Instruction No. 381/2003 of the Securities and Exchange Commission - CVM, in an internal corporate governance rule and under the review and supervision of the Audit Committee, Costa Oeste Transmissora de Energia S.A. has a contract with Deloitte Touche Tohmatsu Auditores Independentes to provide auditing services for the financial statements. The work required for the fiscal year evaluation will be extended until 06.30.2021.

In 2020, a bidding process was carried out for the new contracting of external audit services and the winner of the contest was Deloitte Touche Tohmatsu Auditores Independentes.

Costa Oeste Transmissora de Energia S.A. changes the company responsible for auditing its financial statements following the independent auditors' rotation criterion, in accordance with CVM Instruction No. 308/1999.

When contracting other services from its external auditors, the practice of Costa Oeste Transmissora de Energia S.A. provides for prior analysis by the Audit Committee of the Parent Company's Board of Directors, which must consider, in this assessment, whether a relationship or service provided by an independent auditor: (a) creates conflicting interests with its audit client; (b) puts them in a position to audit their own work; (c) results in acting as a manager or employee of the audit client; or (d) places them in the position of advocate for the audit client.

Shared management of resources

Copel GeT manages its own generation and transmission assets and its wholly-owned subsidiaries (direct and indirect) through a shared structure of human resources.

In addition to operational activities, sharing reaches the Board and the Fiscal Council. The Board of Directors is specific, to which it applies, as applicable, the planning, strategic risks and internal controls defined within the scope of Copel GeT to its investees 100%.

10.2.4 Sector aspects

Research, Development and Innovation

Pursuant to Law No. 9.991/2000 and complementary regulations, electric energy generation and transmission concessionaires and permissionaires are required to annually allocate 1% of their regulatory net operating revenue to research and development in the electric sector. Costa Oeste participates in the R&D project NEW TECHNOLOGIES TO INCREASE THE RELIABILITY AND USEFUL LIFE OF POWER TRANSFORMERS, as a cooperative company, along with the Marumbi company. The project was proposed by COPEL GERAÇÃO E TRANSMISSÃO S.A.

Costa Oeste Contracted company (R\$) = 248,233.90.

10.2.5 Environmental Dimension

The main environmental aspects that can be impacted by Transmission activities are waste generation, atmospheric emissions, water use, soil conservation, water quality and biodiversity. To prevent these impacts from being negative or to remedy them, Copel GeT works to achieve eco-efficiency, preserve biodiversity and reduce greenhouse gas emissions. Additionally, it transmits its principles of good environmental management to customers and suppliers. The guidelines for this action are in the Sustainability Policy, which is the basis for other regulations, such as the Climate Change Policy and the NACs for Waste Management and Climate Change Management, and the Human Rights Policy.

The environmental management of the Costa Oeste company is carried out in accordance with the shared resource structure.

10.2.6 Composition of the Groups Responsible for Governance

BOARD OF DIRECTORS

Board President	MARCIO RAPHAEL PLOSZAJ
Members	JUAREZ RIBAS TEIXEIRA JUNIOR
	THAIS CERCAL DALMINA LOSSO
	MARCIO LUIS BLOOT
	CRISTINA KAKAWA
	MILTON FRANCISCO DOS SANTOS JUNIOR
	ITAMAR PINTO PAZ

FISCAL COUNCIL

Council President	ROBERTO MARCHIORO JUNIOR
Full members	KLEBERSON LUIZ DA SILVA
	LUIZ HENRIQUE DE MELLO
	WALTER GUANDALINI JUNIOR
Alternate Members	ANA CLARA SOLIS DE FIGUEIREDO MORRISSY
	LILIAN RENATA DE ANDRADE
	ALFONSO SCHMITT
	ANGELA BEATRIZ ALCAIDE

BOARD

Executive Director	CARLOS FREDERICO PONTUAL MORAES
Administrative-Financial Director	ADRIANO FEDALTO

ACCOUNTANT

CRC-PR-043819/0-0	RONALDO BOSCO SOARES
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10.3 Marumbi Transmissora de Energia S.A

10.3.1 Company profile

Marumbi Transmissora de Energia S.A., established in December 2011, is a company that operates in the area of electricity transmission as a special purpose company - SPE and has Copel Geração e Transmissão S.A. (Copel GeT or "Shareholder") as a shareholder. In turn, Copel GeT is controlled by Companhia Paranaense de Energia ("Copel" or "Parent Company"). The Marumbi company holds the concession for the LT 525 kV Curitiba Leste transmission line, and the SE 525/230 KV Curitiba Leste, single circuit.

Marumbi in Numbers

In thousands of reais Accounting	2021	2020	variation %
Indicators			
Total asset	206,848	184,080	12.4
Cash and cash equivalents	14,206	8,640	64.4
Marketable securities	2,226	2,143	3.9
Total debt	24,729	29,579	(16.4)
Net debt	8,297	18,796	(55.9)
Gross operating revenue	38,289	24,490	56.3
Revenue deductions	(1,530)	(1,436)	6.5
Net operating revenue	36,759	23,054	59.4
Operating costs and expenses	6,153	4,415	39.4
Result of activities	30,606	18,639	64.2
Ebitda or Lajida	30,619	18,651	64.2
Financial result	(1,182)	(1,832)	(35.5)
IRPJ/CSLL	1,351	796	69.7
Operational profit	29,424	16,807	75.1
Net income for the fiscal year	28,073	16,011	75.3
Net worth	161,788	140,382	15.2

In thousands of reais Accounting	2021	2020	variation %
Economic-Financial Indicators			
Current liquidity (index)	1.7	1.5	13.3
General liquidity (index)	4.6	4.2	9.5
Ebitda or Lajida Margin (Ebitda or Lajida/net operating income) (%)	83.3	80.9	3.0
Total debt over net worth (%)	15.3	21.1	(27.5)
Operating margin (operating profit/net operating revenue) (%)	80.0	72.9	9.7
Net margin (net profit/net operating revenue) (%)	76.4	69.4	10.1
Third-party equity participation (%)	21.8	23.7	(8.0)
Return on net worth (%) ⁽¹⁾	20.0	12.5	60.0

⁽¹⁾ LL ÷ (initial PL)

10.3.2 Operating performance

Formed with the specific purpose of implementing, operating and commercially exploring the transmission facilities of Auction Notice No. 06/2011 - Aneel. The public notice gave rise to the Concession Contract for the Public Service of Energy Transmission No. 008/2012 - Aneel, composed of the Curitiba - Curitiba Leste Transmission Line, in 525 kV, simple circuit, with an approximate length of 29.14 km, originating in the Curitiba Substation and ending at Curitiba Leste Substation and through Curitiba Leste 525/230 kV Substation and line inputs, bus interconnections, buses, linked facilities and other facilities necessary for the measurement, supervision, protection, command, control, telecommunication, administration and support functions.

Marumbi's assets are the following:

- A 525 kV line input at Eletrosul's Curitiba substation;
- A 525 kV Transmission Line that interconnects the Curitiba substation with the Curitiba Leste substation, passing through the municipalities of Curitiba, Fazenda Rio Grande and São José dos Pinhais, with a length of 29.14 km;
- Curitiba Leste 525/230 kV Substation with a 672 MVA Transformer Bank plus a 224 MVA reserve equipment and two Capacitor Banks connected to the 230 kV bus, each Bank with a power of 100 MVA;

This venture started commercial operations in June 2015, with investments of R\$ 117.7 million, earning from that date the monthly installments of the Allowed Annual Revenue - RAP provided for in the Concession Agreement No. 008/2012, signed with the National Agency of Electric Energy - Aneel.

In 2018, a Corporate Share Exchange Agreement was signed between Copel GeT and Eletrosul Centrais Elétricas S.A., with Costa Oeste Transmissora de Energia S.A., Marumbi and Transmissora Sul Brasileira de Energia S.A. as consenting parties.

Under the agreement, the shares belonging to Eletrosul Centrais Elétricas S.A. were transferred to Copel GeT, the latter holding 100% of the shares of Marumbi Transmissora de Energia S.A.

Transmission System

Marumbi's electrical system integrated the Basic Grid of the National Interconnected System - SIN in June 2015, the operation of which is coordinated by the National Electric System Operator - ONS, with which the respective Contract for the Provision of Transmission Services - CPST No. 018/2012 being signed.

10.3.3 Corporate Governance Dimension

Corporate Governance

Marumbi Transmissora de Energia S.A. follows the corporate governance guidelines of its Parent Company, which includes an efficient set of mechanisms, both for incentives and monitoring, in order to ensure that the managers' performance is always aligned with the best interests of Copel, stakeholders and the government of Paraná. The main documents and governance policies of Marumbi Transmissora de Energia S.A. can be checked at Copel's electronic address.

Governance structure

Marumbi Transmissora de Energia S.A. follows the governance practices and policies adopted by Copel regarding the General Shareholders' Meeting, Nomination and Evaluation Committee, Fiscal Council, Board of Directors, Executive Board, Statutory Audit Committee, Internal Audit, Investment and Innovation Committee and Sustainable Development Committee.

Integrity

Integrity Program

One year after the enactment of the Anti-Corruption Law (Law No. 12,846/2013) and its Decree No. 8,420, which defined obligations and sanctions, the Parent Company created its Integrity Program, an instrument that allows the integrated management of internal controls, constituting a planned environment to provide reasonable assurance that authorizations and records of accounting transactions are carried out properly, thus enabling the preparation and disclosure of financial reports in accordance with current regulations.

Marumbi Transmissora de Energia S.A. follows the Integrity Program's guidelines of its parent company, which aims to prevent, detect and remedy possible harmful acts that involve, for example, the occurrence of bribery, kickbacks, conflict of interest, fraud in bidding processes and payments, among others. Its rules are applicable to all employees, administrators and advisors.

The guidelines for dealing with conflicts of interest are described in the bylaws and internal regulations of statutory bodies, according to applicable legislation, specific policy and the best corporate governance practices of the Brazilian Institute of Corporate Governance - IBGC. Furthermore, the Policy on Transactions with Related Parties and Conflicts of Interest sets out the rules for transactions between related parties to be carried out in Marumbi's best interest, based on principles of independence, competitiveness, compliance, transparency, equity and commutativity.

Reporting channels

In order to receive opinions, criticisms, complaints, reports and personal consultations, Marumbi provides the Parent Company's communication channels, which in addition to contributing to the fight against fraud and corruption, also expand the organization's relationship with stakeholders.

The Parent Company created its Integrity Program, an instrument that allows the integrated management of internal controls, constituting a planned environment to provide reasonable assurance that authorizations and records of accounting transactions are carried out properly.



External Audit

Under the terms established by Instruction No. 381/2003 of the Brazilian Securities and Exchange Commission - CVM, in an internal corporate governance rule and under the review and supervision of the Audit Committee, Marumbi Transmissora de Energia S.A. has a contract with Deloitte Touche Tohmatsu Auditores Independentes to provide auditing services for the financial statements. The work required for the fiscal year evaluation will be extended until 06.30.2021. In 2020, a bidding process was carried out for the new contracting of external audit services and the winner of the contest was Deloitte Touche Tohmatsu Auditores Independentes.

Marumbi Transmissora de Energia S.A. changes the company responsible for auditing its financial statements following the independent auditors' rotation criterion, in accordance with CVM Instruction No. 308/1999.

When contracting other services from its external auditors, the practice of Marumbi Transmissora de Energia S.A. provides for prior analysis by the Audit Committee of the Parent Company's Board of Directors, which must consider, in this assessment, whether a relationship or service provided by an independent auditor: (a) creates conflicting interests with its audit client; (b) puts them in a position to audit their own work; (c) results in acting as a manager or employee of the audit client; or (d) places them in the position of advocate for the audit client.

The Audit Committee also considers, in this type of assessment, whether any service provided by the independent auditing company may actually or apparently harm the company's independence. Whenever necessary, this Audit Committee can count on the technical support of the Internal Audit, or of an independent consultancy, for the technical evaluation that may be required in each specific case, and the discussions on contracting other services by the independent auditor are recorded in the meeting minutes of this collegiate.

10.3.4 Sector aspects

Research and Development

Pursuant to Law No. 9,991/2000 and complementary regulations, electric energy generation and transmission concessionaires and permissionaires are required to annually allocate 1% of their regulatory net operating revenue to research and development in the electric sector. Marumbi participates in the R&D project NEW TECHNOLOGIES TO INCREASE THE RELIABILITY AND USEFUL LIFE OF POWER TRANSFORMERS, as a cooperative company, together with the Costa Oeste company. The project was proposed by COPEL GERAÇÃO E TRANSMISSÃO S.A.

Marumbi Contracted company (R\$) = 291,252.20.

10.3.5 Shared management of resources

Copel GeT manages its own generation and transmission assets and its wholly-owned subsidiaries (direct and indirect) through a shared structure of human resources.

In addition to operational activities, sharing reaches the Board and the Fiscal Council. The Board of Directors is specific, to which it applies, as applicable, the planning, strategic risks and internal controls defined within the scope of Copel GeT to its investees 100%.

10.3.6 Environmental Dimension

The main environmental aspects that can be impacted by Transmission activities are waste generation, atmospheric emissions, water use, soil conservation, water quality and biodiversity. To prevent these impacts from being negative or to remedy them, Copel GeT works to achieve eco-efficiency, preserve biodiversity and reduce greenhouse gas emissions. Additionally, it transmits its principles of good environmental management to customers and suppliers. The guidelines for this action are in the Sustainability Policy, which is the basis for other regulations, such as the Climate Change Policy and the NACs for Waste Management and Climate Change Management, and the Human Rights Policy.

The environmental management of the Marumbi company is carried out in accordance with the shared resource structure.

10.3.7 Composition of the Groups Responsible for Governance

BOARD OF DIRECTORS	
Board President	MARCIO RAPHAEL PLOSZAJ
Members	JUAREZ RIBAS TEIXEIRA JUNIOR
	THAIS CERCAL DALMINA LOSSO
	MARCIO LUIS BLOOT
	CRISTINA KAKAWA
	MILTON FRANCISCO DOS SANTOS JUNIOR
	ITAMAR PINTO PAZ
FISCAL COUNCIL	
Council President	ROBERTO MARCHIORO JUNIOR
Full Members	KLEBERSON LUIZ DA SILVA
	LUIZ HENRIQUE DE MELLO
	WALTER GUANDALINI JUNIOR
Alternative Members	ANA CLARA SOLIS DE FIGUEIREDO MORRISSY
	LILIAN RENATA DE ANDRADE
	ALFONSO SCHMITT
	ANGELA BEATRIZ ALCAIDE
BOARD	
Executive Director	CARLOS FREDERICO PONTUAL MORAES
Administrative-Financial Director	ADRIANO FEDALTO
ACCOUNTANT	
CRC-PR-043819/0-0	RONALDO BOSCO SOARES



10.4 Uirapuru Transmissora de Energia S.A

10.4.1 Company profile

Uirapuru Transmissora de Energia S.A., established in October 2011, is a company that operates in the area of electricity transmission as a special purpose company - SPE and has Copel Geração e Transmissão S.A. (Copel GeT or "Shareholder") as a shareholder. In turn, Copel GeT is controlled by Companhia Paranaense de Energia ("Copel" or "Parent Company").

Uirapuru was formed when it participated in the Auction nº 01/2004 of Aneel - National Electric Energy Agency, in the public bidding for concession granting of new electric energy transmission lines. It was the winner of the Public Notice's Lot B, which provided for the construction of the Ivaiporã - Londrina Circuit 2 Line, in the State of Paraná, in the southern region of Brazil.

On 03.04.2005, Uirapuru signed the concession contract for the construction, operation and maintenance of the aforementioned line, at 525 kV voltage, with an approximate length of 120 km, second circuit, originating at the Ivaiporã Substation and ending at the Londrina Substation, using 270 towers to support the cables and passing through 10 municipalities in Paraná.

The construction of the transmission line was carried out during 2005 and part of 2006 and on 07.09.2006 the enterprise started commercial operation, earning, from that date, the monthly installments of the Permitted Annual Revenue - RAP, provided for in the Concession Agreement No. 002/2005, signed with Aneel. Additionally, in July 2006, Uirapuru signed the Transmission Services Agreement - CPST No. 011/2005 with the National Electric System Operator - ONS, becoming part of the Basic Grid of the National Interconnected System - SIN. On 06.06.2018 all conditions for the transfer of shares previously owned by Eletrosul to Centrais Elétricas Brasileiras S/A - Eletrobras were met. On 09.21.2018, Eletrobras published public notice No. 01/2018 referring to the auction carried out by itself and on its own behalf, for the sale of the interests held by it and its subsidiaries. The winning bidder was Copel GeT.

Uirapuru in Numbers

In thousands of reais Accounting	2021	2020	variation %
Indicators			
Total asset	193,869	181,641	6.7
Cash and cash equivalents	36,505	34,831	4.8
Gross operating revenue	42,036	47,766	(12.0)
Revenue deductions	2,450	2,601	(5.8)
Net operating revenue	39,586	45,165	(12.4)
Operating costs and expenses	1,850	1,553	19.1
Result of activities	37,736	43,612	(13.5)
Ebitda or Lajida	37,744	43,612	(13.5)
Financial result	1,352	670	101.8
IRPJ/CSLL	2,078	1,524	36.4
Operational profit	39,088	44,282	(11.7)
Net income for the fiscal year	37,010	42,758	(13.4)
Net worth	175,231	161,552	8.5
Dividends	17,580	24,928	(29.5)
Economic-Financial Indicators			
Current liquidity (index)	3.8	3.0	26.7
General liquidity (index)	10.4	9.0	15.6
Ebitda or Lajida Margin (Ebitda or Lajida/net operating income) (%)	95.3	96.6	(1.3)
Operating margin (operating profit/net operating income) (%)	1.0	1.0	-
Net margin (net profit/net operating revenue) (%)	93.5	94.7	(1.3)
Third-party equity participation (%)	9.6	11.1	(13.5)
Return on net worth (%) ⁽¹⁾	22.9	31.0	(26.1)

(1) LL ÷ (initial PL)

10.4.2 Operating performance

The origin of Uirapuru dates back to 2004, when it participated in the Auction No. 01/2004 of Aneel - National Electric Energy Agency, in the public bidding for the concession granting of new electric energy transmission lines. It was the winner of the Public Notice's Lot B, which provided for the construction of the Ivaiporã - Londrina Circuit 2 Line, in the State of Paraná, in the southern region of Brazil.

On 03.04.2005, Uirapuru signed the concession contract for the construction, operation and maintenance of the aforementioned line, at 525 kV (kilovolts) voltage, with an approximate length of 120 km, second circuit, originating at the Ivaiporã Substation and ending at the Londrina Substation, using 270 towers to support the cables and passing through 10 municipalities in Paraná



The transmission line's construction was carried out throughout 2005 and part of 2006. The beginning of its commercial operation took place on July 9, 2006.

In this way, Uirapuru Transmissora de Energia S.A. was born, a special purpose company (SPE) whose purpose is to manage this public electric energy transmission service concession.

On 06.06.2018, all conditions were met for the transfer of shares previously owned by Eletrosul to Centrais Elétricas Brasileiras S/A - Eletrobras. On 09.21.2018, Eletrobrás published public notice No. 01/2018 referring to the auction carried out by itself and on its own behalf, for the sale of the interests held by it and its subsidiaries. The winning bidder was Copel GeT, Copel's wholly-owned subsidiary.

Transmission System

The Uirapuru's electrical system integrated the Basic Grid of the National Interconnected System - SIN in July 2006, the operation of which is coordinated by the National Electric System Operator - ONS, with which the respective Contract for the Provision of Transmission Services - CPST No. 011/2005 being signed.

10.4.3 Corporate Governance Dimension

Corporate Governance

Uirapuru follows the corporate governance guidelines of its Parent Company, which includes an efficient set of mechanisms, both for incentives and monitoring, in order to ensure that the managers' performance is always aligned with the best interests of Copel, stakeholders and the government of Paraná. The main documents and governance policies of Uirapuru Transmissora S.A. can be checked at Copel's electronic address.

Governance Structure

Uirapuru Transmissora S.A. follows the governance practices and policies adopted by Copel regarding the General Shareholders' Meeting, Nomination and Evaluation Committee, Fiscal Council, Board of Directors, Executive Board, Statutory Audit Committee, Internal Audit, Investment and Innovation Committee and Sustainable Development Committee.

Integrity

Integrity Program

One year after the enactment of the Anti-Corruption Law (Law No. 12,846/2013) and its Decree No. 8,420, which defined obligations and sanctions, the Parent Company created its Integrity Program, an instrument that allows the integrated management of internal controls, constituting a planned environment to provide reasonable assurance that authorizations and records of accounting transactions are carried out properly, thus enabling the preparation and disclosure of financial reports in accordance with current regulations.

Uirapuru follows the Integrity Program's guidelines of its parent company, which aims to prevent, detect and remedy possible harmful acts that involve, for example, the occurrence of bribery, kickbacks, conflict of interest, fraud in bidding processes and payments, among others. Its rules are applicable to all employees, administrators and advisors.

The guidelines for dealing with conflicts of interest are described in the bylaws and internal regulations of statutory bodies, according to applicable legislation, specific policy and the best corporate governance practices of the Brazilian Institute of Corporate Governance - IBGC. Furthermore, the Policy on Transactions with Related Parties and Conflicts of Interest sets out the rules for transactions between related parties to be carried out in Uirapuru's best interest, based on principles of independence, competitiveness, compliance, transparency, equity and commutativity.

Reporting channels

In order to receive opinions, criticisms, complaints, reports and personal consultations, Uirapuru provides the Parent Company's communication channels, which in addition to contributing to the fight against fraud and corruption, also expand the organization's relationship with stakeholders.

External audit

Under the terms established by Instruction No. 381/2003 of the Brazilian Securities and Exchange Commission - CVM, in an internal corporate governance rule and under the review and supervision of the Audit Committee, Uirapuru Transmissora S.A. has a contract with Deloitte Touche Tohmatsu Auditores Independentes to provide auditing services for the financial statements. The work required for the fiscal year evaluation will be extended until 06.30.2021. In 2020, a bidding process was

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10.4.4 Sector aspects

Research, Development and Innovation

Pursuant to Law No. 9,991/2000 and complementary regulations, electric energy generation and transmission concessionaires and permissionaires are required to annually allocate 1% of their regulatory net operating revenue to research and development in the electric sector.



10.4.5 Environmental Dimension

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	MARCIO LUIS BLOOT
	CRISTINA KAKAWA
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	ITAMAR PINTO PAZ

FISCAL COUNCIL

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	WALTER GUANDALINI JUNIOR
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	ALFONSO SCHMITT
	ANGELA BEATRIZ ALCAIDE

BOARD

Council President	CARLOS FREDERICO PONTUAL MORAES
Administrative-Financial Director	ADRIANO FEDALTO

ACCOUNTANT

CRC-PR-043819/0-0	RONALDO BOSCO SOARES
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10.5 Credits

Coordination

Copel Geração e Transmissão S.A.

Wholly-owned subsidiary of Companhia Paranaense de Energia - Copel
CNPJ/MF 04.370.282/0001-70

Rua José Izidoro Biazzetto, 158 - Bloco A - Mossunguê
81200-240 Curitiba - PR

Management and Quality Coordination of Copel Geração e Transmissão S.A.

Selection, Collection and Analysis of Indicators, and Consultancy in the application of the GRI methodology

Sustainable Vision

Writing

Sustainable Vision

Graphic Design and Layout

blendON

