

Companhia Paranaense de Energia

Corporate Taxpayer ID (CNPJ/MF) 76.483.817/0001-20

Publicly-Held Company - CVM 1431-1

www.copel.com copel@copel.com

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

ZIP 81200-240

INTERIM FINANCIAL INFORMATION

March / 2023

CONTENTS

FINANCIAL STATEMENTS	3
Statements of Financial Position	3
Statements of Comprehensive Income	6
Statements of Changes in Equity	7
Statements of Cash Flows	8
Statements of Added Value	10
NOTES TO THE INTERIM FINANCIAL INFORMATION	12
1. Operations	12
2. Concessions and Authorizations	17
3. Basis of Preparation	19
4. Significant Accounting Policies	20
5. Cash and Cash Equivalents	21
6. Bonds and Securities	21
7. Trade Accounts Receivable	22
8. Net Sectorial Financial Assets and Liabilities	24
9. Accounts Receivables - Concessions	24
10. Contract assets	25
11. Other Receivables	28
12. Taxes	29
13. Prepaid Expenses	34
14. Judicial Deposits	34
15. Investments	35
16. Property, Plant and Equipment	38
17. Intangible assets	40
18. Payroll, Social Charges and Accruals	42
19. Accounts Payable to Suppliers	42
20. Loans and Financing	43
21. Debentures	47
22. Post-employment Benefits	49
23. Sectorial Charges Payable	50
24. Research and Development and Energy Efficiency	51
25. Accounts Payable Related to Concessions	52
26. Right-of-use Asset and Lease Liability	52
27. Other Accounts Payable	54
28. Provisions for Legal Claims and Contingent Liabilities	54
29. Equity	58
30. Net Operating Revenue	59
31. Operating Costs and Expenses	62
32. Financial Results	66
33. Operating Segments	66
34. Financial Instruments	70
35. Related Party Transactions	83
36. Commitments	88
37. Insurance	89
38. Additional information to the Statement of Cash Flows	89
COMMENTS ON PERFORMANCE	91
1 New projects	91
2 Energy Market	92
3 Management	96
4 Capital Market	96
5 Tariffs	97
6 Economic and financial results	98
COMPOSITION OF GROUPS RESPONSIBLE FOR GOVERNANCE	102
INDEPENDENT AUDITOR'S REPORT	103
SUPERVISORY BOARD'S OPINION	105
S T A T E M E N T	106

FINANCIAL STATEMENTS

Statements of Financial Position

as of March 31, 2023, and December 31, 2022

All amounts expressed in thousands of Brazilian reais

ASSETS	Note	Parent Company		Consolidated	
		03.31.2023	12.31.2022	03.31.2023	12.31.2022
CURRENT ASSETS					
Cash and cash equivalents	5	23,675	199,877	2,911,274	2,678,457
Bonds and securities	6	92	93	92	93
Collaterals and escrow accounts		-	-	178	157
Trade accounts receivable	7	-	-	3,460,364	3,342,050
Dividends receivable		715,833	824,143	137,296	138,330
Sectorial financial assets	8	-	-	327,135	190,699
Accounts receivable - concessions	9	-	-	8,563	8,603
Contract assets	10	-	-	242,259	220,660
Other current receivables	11	1,284	977	998,199	897,380
Inventories		-	-	223,225	194,850
Income tax and social contribution receivable		112,339	107,523	374,536	355,065
Other current recoverable taxes	12.2	-	-	1,208,196	1,239,694
Prepaid expenses	13	2,143	855	69,775	60,076
Receivable from related parties	35	270,215	47,404	1,430	1,135
		1,125,581	1,180,872	9,962,522	9,327,249
NONCURRENT ASSETS					
Long Term Assets					
Bonds and securities	6	-	-	501,700	430,963
Other temporary investments		26,802	25,619	26,802	25,619
Trade accounts receivable	7	-	-	117,630	109,819
Judicial deposits	14	141,062	138,747	631,837	632,458
Sectorial financial assets	8	-	-	109,045	190,699
Accounts receivable - concessions	9	-	-	2,403,465	2,269,690
Contract assets	10	-	-	7,536,312	7,452,019
Other noncurrent receivables	11	19	18	1,372,447	931,452
Income tax and social contribution receivable		-	-	128,108	127,824
Deferred income tax and social contribution	12.1	340,691	333,877	1,637,997	1,644,299
Other noncurrent recoverable taxes	12.2	40,131	39,810	2,481,902	2,627,293
Prepaid expenses	13	195	-	247	10
		548,900	538,071	16,947,492	16,442,145
Investments	15	20,991,553	20,339,344	3,435,680	3,325,731
Property, plant and equipment	16	7,709	7,948	11,189,018	10,069,468
Intangible assets	17	5,242	4,724	11,274,717	10,277,727
Right-of-use asset	26	4,466	4,586	255,034	261,380
		21,557,870	20,894,673	43,101,941	40,376,451
TOTAL ASSETS		22,683,451	22,075,545	53,064,463	49,703,700

Notes are an integral part of this interim financial information

Statements of Financial Position
as of March 31, 2023, and December 31,2022 (continuation)
All amounts expressed in thousands of Brazilian reais

LIABILITIES	Note	Parent Company		Consolidated	
		03.31.2023	12.31.2022	03.31.2023	12.31.2022
CURRENT LIABILITIES					
Payroll, social charges and accruals	18	6,578	6,605	247,831	252,789
Accounts payable to related parties	35	2,349	1,838	-	-
Accounts payable to suppliers	19	8,351	5,373	1,962,380	2,090,022
Income tax and social contribution payable		-	-	81,503	156,191
Other taxes due	12.2	1,289	28,690	367,540	303,606
Loans and financing	20	-	-	336,274	278,838
Debentures	21	-	-	1,468,414	1,346,347
Dividend payable		344,206	344,251	484,759	482,325
Post-employment benefits	22	3,827	2,957	86,404	73,814
Sectorial charges payable	23	-	-	42,338	46,488
Research and development and Energy efficiency	24	-	-	376,147	370,244
Accounts payable related to concession	25	-	-	105,228	105,003
Sectorial financial liabilities	8	-	-	208,178	433,914
Lease liability	26	456	436	66,254	64,870
Other accounts payable	27	2,320	558	713,962	601,619
PIS and Cofins to be refunded to consumers	12.2.1	-	-	815,321	550,527
		369,376	390,708	7,362,533	7,156,597
NONCURRENT LIABILITIES					
Accounts payable to related parties	35	5,851	5,851	-	-
Accounts payable to suppliers	19	-	-	125,339	125,448
Deferred income tax and social contribution	12.1	-	-	1,799,749	1,517,682
Other taxes due	12.2	3,792	3,676	631,616	633,491
Loans and financing	20	-	-	5,113,768	4,371,525
Debentures	21	-	-	7,808,247	6,457,508
Post-employment benefits	22	22,929	23,890	994,854	996,223
Research and development and Energy efficiency	24	-	-	256,226	244,514
Accounts payable related to concession	25	-	-	830,715	832,539
Sectorial financial liabilities	8	-	-	50,945	49,341
Lease liability	26	4,265	4,373	202,543	208,886
Other accounts payable	27	25,249	25,241	1,000,001	645,234
PIS and Cofins to be refunded to consumers	12.2.1	-	-	1,231,291	1,444,631
Provision for allocation of PIS and Cofins credits	12.2.1	-	-	1,876,933	1,851,257
Provisions for legal claims	28	808,165	804,442	2,013,174	2,037,599
		870,251	867,473	23,935,401	21,415,878
EQUITY					
Attributable to controlling shareholders					
Capital	29.1	10,800,000	10,800,000	10,800,000	10,800,000
Equity valuation adjustments	29.2	585,053	593,382	585,053	593,382
Legal reserve		1,512,687	1,512,687	1,512,687	1,512,687
Profit retention reserve		7,911,295	7,911,295	7,911,295	7,911,295
Accumulated profit		634,789	-	634,789	-
		21,443,824	20,817,364	21,443,824	20,817,364
Attributable to non-controlling interests					
	15.2.2	-	-	322,705	313,861
		21,443,824	20,817,364	21,766,529	21,131,225
TOTAL LIABILITIES & EQUITY					
		22,683,451	22,075,545	53,064,463	49,703,700

Notes are an integral part of this interim financial information

Statements of Income

for the three-month periods ended March 31, 2023, and 2022

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		03.31.2023	03.31.2022	03.31.2023	03.31.2022
CONTINUING OPERATIONS					
NET OPERATING REVENUE	30	-	-	5,530,666	5,587,749
Operating costs	31	-	-	(4,102,602)	(4,178,804)
GROSS OPERATING PROFIT		-	-	1,428,064	1,408,945
Other operational expenses / income					
Selling expenses	31	-	-	(781)	(66,890)
General and administrative expenses	31	(31,993)	(23,595)	(256,079)	(196,405)
Other operational income (expenses), net	31	(2,186)	(18,244)	(61,052)	(87,951)
Equity in earnings of investees	15	639,572	711,739	104,088	112,781
		605,393	669,900	(213,824)	(238,465)
PROFIT BEFORE FINANCIAL RESULTS AND TAXES		605,393	669,900	1,214,240	1,170,480
Financial results					
Financial income	32	14,924	17,082	240,639	259,875
Financial expenses		(541)	(37,100)	(573,778)	(473,102)
		14,383	(20,018)	(333,139)	(213,227)
OPERATING PROFIT		619,776	649,882	881,101	957,253
INCOME TAX AND SOCIAL CONTRIBUTION					
Current	12.3	-	-	(161,823)	(273,849)
Deferred		6,814	14,459	(83,788)	(13,613)
		6,814	14,459	(245,611)	(287,462)
NET INCOME		626,590	664,341	635,490	669,791
Attributed to shareholders of the parent company arising from continuing operations		-	-	626,590	664,341
Attributed to non-controlling shareholders resulting from continuing operations	15.2.2	-	-	8,900	5,450
BASIC AND DILUTED EARNING PER SHARE					
ATTRIBUTED TO CONTROLLING SHAREHOLDERS - Expressed in Brazilian Reais					
Common shares	29.3	0.21571	0.22870		
Class "A" Preferred shares		0.23728	0.25158		
Class "B" Preferred shares		0.23728	0.25158		

Notes are an integral part of this interim financial information

Statements of Comprehensive Income
 for the three-month periods ended March 31, 2023, and 2022
 All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		03.31.2023	03.31.2022	03.31.2023	03.31.2022
NET INCOME		626,590	664,341	635,490	669,791
Other comprehensive income					
Items that will never be reclassified to profit or loss					
Items that may be reclassified to profit or loss	29.2				
Adjustments related to financial assets		-	-	(282)	-
Adjustments related to financial assets - equity		(130)	-	-	-
Taxes on other comprehensive income		-	-	96	-
Total other comprehensive income, net of taxes		(130)	-	(186)	-
TOTAL COMPREHENSIVE INCOME		626,460	664,341	635,304	669,791
Attributable to controlling shareholders - continuing operations				626,460	664,341
Attributed to non-controlling shareholders - continuing operations				8,844	5,450

Notes are an integral part of this interim financial information

Statements of Changes in Equity
 for the three-month periods ended March 31, 2023, and 2022
 All amounts expressed in thousands of Brazilian reais

	Note	Attributable to controlling shareholders								Attributable to non - controlling interests	Equity Consolidated
		Capital	Equity valuation adjustments		Profit reserves			Accumulated profit	Shareholders' equity		
			Deemed cost	Other comprehensive income	Legal reserve	Profit retention reserve	Additional proposed dividends				
Balance as of January 1, 2023		10,800,000	597,276	(3,894)	1,512,687	7,911,295	-	-	20,817,364	313,861	21,131,225
Net income		-	-	-	-	-	-	626,590	626,590	8,900	635,490
Other comprehensive income											
Adjustments related to financial assets	29.2	-	-	(130)	-	-	-	-	(130)	(56)	(186)
Total comprehensive income		-	-	(130)	-	-	-	626,590	626,460	8,844	635,304
Realization - deemed cost, net of taxes	29.2	-	(8,199)	-	-	-	-	8,199	-	-	-
Balance as of March 31, 2023		10,800,000	589,077	(4,024)	1,512,687	7,911,295	-	634,789	21,443,824	322,705	21,766,529

	Note	Attributable to controlling shareholders								Attributable to non - controlling interests	Equity Consolidated
		Capital	Equity valuation adjustments		Profit reserves			Accumulated profit	Shareholders' equity		
			Deemed cost	Other comprehensive income	Legal reserve	Profit retention reserve	Additional proposed dividends				
Balance as of January 1, 2022		10,800,000	633,789	(207,619)	1,457,087	7,785,092	1,368,675	-	21,837,024	338,211	22,175,235
Net Income		-	-	-	-	-	-	664,341	664,341	5,450	669,791
Total comprehensive income		-	-	-	-	-	-	664,341	664,341	5,450	669,791
Realization - deemed cost, net of taxes		-	(11,136)	-	-	-	-	11,136	-	-	-
Interest on equity (JSCP)		-	-	-	-	-	-	-	-	(3,889)	(3,889)
Balance as of March 31, 2022		10,800,000	622,653	(207,619)	1,457,087	7,785,092	1,368,675	675,477	22,501,365	339,772	22,841,137

Notes are an integral part of this interim financial information

Statements of Cash Flows

for the three-month periods ended March 31, 2023, and 2022

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		03.31.2023	03.31.2022	03.31.2023	03.31.2022
CASH FLOWS FROM OPERATIONAL ACTIVITIES					
Net income		626,590	664,341	635,490	669,791
Adjustments to reconcile net income for the period with cash generation from operating activities:					
Unrealized monetary and exchange variation and debt charges - net		(12,574)	16,619	426,041	305,700
Interest - bonus from the grant of concession agreements under the quota system	9.2	-	-	(36,944)	(41,919)
Remuneration of transmission concession contracts	10.3	-	-	(238,365)	(267,530)
Income tax and social contribution	12.3	-	-	161,823	273,849
Deferred income tax and social contribution	12.3	(6,814)	(14,459)	83,788	13,613
Equity in earnings of investees	15.1	(639,572)	(710,607)	(104,088)	(112,781)
Appropriation of post-employment benefits obligations	22.4	2,012	1,877	68,482	66,524
Creation for research and development and energy efficiency programs	24.1	-	-	40,203	41,434
Recognition of fair value of assets from the indemnity for the concession	30	-	-	(25,734)	(42,549)
Sectorial financial assets and liabilities result	30	-	-	(269,120)	(357,229)
Depreciation and amortization	31	729	601	352,650	320,378
Net operating estimated losses, provisions and reversals	31.4	3,120	22,928	(10,723)	115,948
Realization of added value in business combinations	10.3	-	(181)	(181)	(180)
Fair value in energy purchase and sale operations	30.1 and 31.1	-	-	(50,291)	21,834
Derivatives fair value		-	-	-	2,907
Loss on disposal of accounts receivable related to concession	9.1	-	-	30	16
Loss on disposal of contract assets	10.1	-	-	2,834	3,636
Loss on disposal of property, plant and equipment	16.2	-	-	811	405
Loss on disposal of intangible assets	17	-	-	18,252	12,943
Result of write-offs of use rights of assets and liabilities of leases - net	26.1 and 26.2	-	-	(4)	(23)
		(26,509)	(18,700)	1,054,954	1,026,767
Decrease (increase) in assets					
Trade accounts receivable		-	-	107,912	85,124
Dividends and interest on own capital received		110,852	14	5,860	4,127
Judicial deposits		(235)	(212)	11,565	9,931
Sectorial financial assets	8	-	-	13,796	224,089
Other receivables		(308)	(361)	(44,699)	129,138
Inventories		-	-	(24,064)	(14,218)
Income tax and social contribution recoverable		(1,567)	(6,063)	(8,596)	(23,502)
Other taxes recoverable		725	663	91,942	49,080
Prepaid expenses		(1,483)	(1,749)	(9,712)	(9,324)
Related parties		(4,751)	155,820	(295)	-
		103,233	148,112	143,709	454,445
Increase (decrease) in liabilities					
Payroll, social charges and accruals		(27)	(11,676)	40,770	42,191
Related parties		511	(1,442)	-	-
Suppliers		2,978	1,706	(576,841)	(478,058)
Other taxes		(27,285)	(30,374)	208,575	196,852
Post-employment benefits	22.4	(2,103)	(1,507)	(57,261)	(50,141)
Sectorial charges due		-	-	(4,150)	422,789
Research and development and energy efficiency	24.1	-	-	(29,894)	(55,326)
Payable related to the concession	25.1	-	-	(29,049)	(26,846)
Other accounts payable		2,054	550	20,647	40,232
Provisions for legal claims	28.1	-	(10)	(73,755)	(65,962)
		(23,872)	(42,753)	(500,958)	25,731
CASH GENERATED BY OPERATING ACTIVITIES		52,852	86,659	697,705	1,506,943
Income tax and social contribution paid		-	(1,813)	(210,839)	(125,556)
Loans and financing - interest due and paid	20.3	-	(22,967)	(166,072)	(77,479)
Debentures - interest due and paid	21.2	-	(40)	(142,569)	(115,772)
Charges for lease liabilities paid	26.2	(108)	(80)	(5,711)	(4,653)
NET CASH GENERATED FROM OPERATING ACTIVITIES		52,744	61,759	172,514	1,183,483

(continued)

Statements of Cash Flows

for the three-month periods ended March 31, 2023, and 2022 (continuation)

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		03.31.2023	03.31.2022	03.31.2023	03.31.2022
CASH FLOWS FROM INVESTMENT ACTIVITIES					
Financial investments		(1,182)	(4,750)	(45,745)	116,514
Loans and financing granted to related parties		(214,024)	(100,000)	-	-
Additions to contract assets		-	-	(155,627)	(534,968)
Acquisitions of subsidiaries - effect on cash	1.2	-	-	(912,139)	-
Additions in investments	15.1	(13,000)	(4,830)	(10,780)	(4,830)
Capital reduction of investees		-	-	-	61,536
Additions to property, plant and equipment		(29)	(789)	(19,704)	(170,806)
Additions to intangible assets	17.4	(557)	(509)	(2,044)	(1,567)
NET CASH USED FROM INVESTING ACTIVITIES		(228,792)	(110,878)	(1,146,039)	(534,121)
CASH FLOWS FROM FINANCING ACTIVITIES					
Loans and financing obtained from third parties		-	-	-	55,788
Issue of debentures	21.2	-	-	1,300,000	-
Transaction costs in the issuing of debentures	21.2	-	-	(11,325)	-
Payments of principal - loans and financing	20.3	-	(134,894)	(59,216)	(189,291)
Payments of principal - debentures	21.2	-	-	(5,688)	(5,492)
Amortization of principal of lease liabilities	26.2	(109)	(76)	(17,384)	(12,232)
Dividends and interest on own capital paid		(45)	(6)	(45)	(6)
NET CASH GENERATED (USED) FROM FINANCING ACTIVITIES		(154)	(134,976)	1,206,342	(151,233)
TOTAL EFFECTS ON CASH AND CASH EQUIVALENTS		(176,202)	(184,095)	232,817	498,129
Cash and cash equivalents at the beginning of the period	5	199,877	626,052	2,678,457	3,472,845
Cash and cash equivalents at the end of the period	5	23,675	441,957	2,911,274	3,970,974
CHANGE IN CASH AND CASH EQUIVALENTS		(176,202)	(184,095)	232,817	498,129

Notes are an integral part of this interim financial information

Statements of Added Value
for the three-month periods ended March 31, 2023, and 2022
All amounts expressed in thousands of Brazilian reais

ADDED VALUE TO DISTRIBUTE	Parent Company		Consolidated	
	03.31.2023	03.31.2022	03.31.2023	03.31.2022
Income				
Sale of energy, services and other income	-	-	6,470,148	8,285,165
Construction income	-	-	553,361	523,815
Fair value of indemnifiable concession assets	-	-	25,734	42,549
Sectorial financial assets and liabilities result	-	-	269,120	357,229
Other income	1,222	4,789	16,998	14,369
Expected credit (losses)/reversal of losses	-	-	13,841	(51,437)
	1,222	4,789	7,349,202	9,171,690
(-) Supplies acquired from third parties				
Energy purchased for resale	-	-	1,991,641	2,128,950
Charges for use of the main transmission grid (-) ESS and ERR	-	-	622,048	469,483
Materials, supplies and third parties services	10,992	7,184	275,728	289,557
Natural gas and supplies for gas operations	-	-	226,856	240,358
Construction costs	-	-	492,467	460,483
Loss of assets	5	-	27,923	30,144
Impairment	-	-	(36,926)	1,629
Other supplies	6,417	25,867	71,134	92,961
	17,414	33,051	3,670,871	3,713,565
(=) GROSS ADDED VALUE	(16,192)	(28,262)	3,678,331	5,458,125
(-) Depreciation and amortization	729	601	352,650	320,378
(=) NET ADDED VALUE	(16,921)	(28,863)	3,325,681	5,137,747
(+) Transferred added value				
Equity in earnings of investees	639,572	711,739	104,088	112,781
Financial income	14,924	17,082	240,639	259,875
Other Income	4	182	114,577	82,871
	654,500	729,003	459,304	455,527
	637,579	700,140	3,784,985	5,593,274

(continued)

Statements of Added Value

for the three-month periods ended March 31, 2023, and 2022 (continuation)

All amounts expressed in thousands of Brazilian reais

DISTRIBUTION OF ADDED VALUE	Parent Company				Consolidated			
	03.31.2023	%	03.31.2022	%	03.31.2023	%	03.31.2022	%
Personnel								
Salaries and management fees	10,817		7,643		337,880		201,515	
Private pension and health plans	1,943		1,759		65,998		68,085	
Meal and education allowance	429		645		29,056		25,723	
Social security charges - FGTS	567		494		14,322		13,674	
Voluntary retirement program	-		(2,087)		2		(7,880)	
Provisions for profit sharing	1,482		2,066		53,600		54,305	
	15,238	2.4	10,520	1.5	500,858	13.1	355,422	6.4
Government								
Federal								
Tax	(4,814)		(12,431)		626,488		700,400	
Sectorial charges	-		-		932,861		1,858,746	
State	1		7		525,715		1,526,186	
Municipal	6		881		1,960		4,779	
	(4,807)	(0.8)	(11,543)	(1.6)	2,087,024	55.1	4,090,111	73.1
Third Parties								
Interest	493		36,726		550,288		468,900	
Leasing and rent	65		96		10,541		8,816	
Donations, subsidies and contributions	-		-		784		234	
	558	0.1	36,822	5.3	561,613	14.8	477,950	8.5
Shareholders								
Accumulated profits	626,590		664,341		626,590		664,341	
Non-controlling interests	-		-		8,900		5,450	
	626,590	98.3	664,341	94.8	635,490	17.0	669,791	12.0
	637,579	100.0	700,140	100.0	3,784,985	100.0	5,593,274	100.0

Notes are an integral part of this interim financial information

NOTES TO THE INTERIM FINANCIAL INFORMATION

As of March 31, 2023

All amounts expressed in thousands of Brazilian reais

1. Operations

Companhia Paranaense de Energia (Copel, Company), with its head office located at Rua José Izidoro Biazzetto, 158, bloco A, Curitiba - State of Paraná, is a publicly-held mixed capital company controlled by the State of Paraná and its shares are traded at Corporate Governance Level 2 of the Special Listing Segments of B3 S.A. - Brasil, Bolsa Balcão Stock Exchange and on the New York Stock Exchange (NYSE) and on the Madrid Stock Exchange, in the Latin American segment (Latibex).

The core activities of Copel and its subsidiaries, which are regulated by the Brazilian Electricity Regulatory Agency (Aneel), linked to the Brazilian Ministry of Mines and Energy (MME), are to carry out research, study, plan, build and explore the production, transformation, transport, distribution and trading of energy, in any of its forms, mainly electricity. Furthermore, Copel participates in consortiums, in private sector and mixed-capital companies for the purpose of engaging in activities, mainly in areas of energy and natural gas.

On November 24, 2022, Law 21,272 of the State of Paraná authorized the transformation of Copel into a company with dispersed capital and no controlling shareholder ("Corporation") through a secondary public offering of shares and/or Units issued by the Company and owned by Controller. On December 21, 2022, with legal authorization, the Board of Directors of Copel approved studies to enable the full renewal of the Concessions of Hydroelectric Power Plants Governador Bento Munhoz da Rocha Netto, Governador Ney Braga and Governador José Richa and to analyze fundraising alternatives for the payment of the respective granting bonuses, estimated at R\$3,719,428 as per Interministerial Ordinance of the Brazilian Ministry of Mines and Energy and Ministry of Finance - MME/MF No. 01, dated March 30, 2023. The transformation of Copel into a "Corporation" will allow, under the terms of Law 9074/95, to maintain 100% of the Company's interest in the plants. On January 31, 2023, the Board of Directors of Copel approved hiring specialized consultants and technical advisors to assist in the studies and structuring of an eventual offering. The implementation of this transaction is still subject to risks and uncertainties, which include the need for governmental approvals at the state and federal levels, lawsuits seeking to suspend, delay or impede the proposed transaction or its financial model, among others.

1.1 Copel's equity interests

Copel has direct and indirect interests in subsidiaries (1.1.1), joint ventures (1.1.2), associates (1.1.3) and joint operations (1.1.4). Until March 31, 2023, there were no changes, acquisitions and disposals in relation to the equity interests as of December 31, 2022, except for the business combination described in Note 1.2.

1.1.1 Subsidiaries

Subsidiaries	Headquarters	Main activity	Interest	
			%	Investor
Copel Geração e Transmissão S.A. (Copel GeT)	Curitiba/PR	Production and transmission of electricity	100.0	Copel
Copel Distribuição S.A. (Copel DIS)	Curitiba/PR	Distribution of electricity	100.0	Copel
Copel Serviços S.A. (Copel SER)	Curitiba/PR	Production of electricity	100.0	Copel
Copel Comercialização S.A. (Copel COM)	Curitiba/PR	Commercialization of electricity	100.0	Copel
Companhia Paranaense de Gás - Compagás	Curitiba/PR	Distribution of pipeline gas	51.0	Copel
Elejor - Centrais Elétricas do Rio Jordão S.A.	Curitiba/PR	Production of electricity	70.0	Copel
UEG Araucária S.A. (UEGA)	Curitiba/PR	Production of electricity from natural gas	20.3	Copel
			60.9	Copel GeT
São Bento Energia, Investimentos e Participações S.A. (São Bento)	Curitiba/PR	Control and management of interests	100.0	Copel GeT
Nova Asa Branca I Energias Renováveis S.A.	S. Miguel do Gostoso/RN	Production of electricity from wind sources	100.0	Copel GeT
Nova Asa Branca II Energias Renováveis S.A.	Parazinho/RN	Production of electricity from wind sources	100.0	Copel GeT
Nova Asa Branca III Energias Renováveis S.A.	Parazinho/RN	Production of electricity from wind sources	100.0	Copel GeT
Nova Eurus IV Energias Renováveis S.A.	Touros/RN	Production of electricity from wind sources	100.0	Copel GeT
Santa Maria Energias Renováveis S.A.	Maracanaú/CE	Production of electricity from wind sources	100.0	Copel GeT
Santa Helena Energias Renováveis S.A.	Maracanaú/CE	Production of electricity from wind sources	100.0	Copel GeT
Ventos de Santo Uriel S.A.	João Câmara/RN	Production of electricity from wind sources	100.0	Copel GeT
Cutia Empreendimentos Eólicos S.A. (Cutia)	Curitiba/PR	Control and management of interests	100.0	Copel GeT
Brownfield Investment Holding Ltda. (Brownfield)	Curitiba/PR	Control and management of interests	100.0	Copel GeT
Ventos de Serra do Mel B S.A. (Serra do Mel)	Serra do Mel/RN	Control and management of interests	68.84	Copel GeT
			31.16	Brownfield
Aventura Holding S.A. (Aventura)	Curitiba/PR	Control and management of interests	100.0	Copel GeT
SRMN Holding S.A. (SRMN)	Curitiba/PR	Control and management of interests	100.0	Copel GeT
Costa Oeste Transmissora de Energia S.A.	Curitiba/PR	Transmission of electricity	100.0	Copel GeT
Marumbi Transmissora de Energia S.A.	Curitiba/PR	Transmission of electricity	100.0	Copel GeT
Urapuru Transmissora de Energia S.A.	Curitiba/PR	Transmission of electricity	100.0	Copel GeT
Bela Vista Geração de Energia S.A.	Curitiba/PR	Production of electricity	100.0	Copel GeT
F.D.A. Geração de Energia Elétrica S.A. (FDA)	Curitiba/PR	Production of electricity	100.0	Copel GeT
Jandaíra I Energias Renováveis S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Copel GeT
Jandaíra II Energias Renováveis S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Copel GeT
Jandaíra III Energias Renováveis S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Copel GeT
Jandaíra IV Energias Renováveis S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Copel GeT
Eol Potiguar B61 SPE S.A. (a)	Serra do Mel/RN	Production of electricity from wind sources	100.0	Copel GeT
GE Olho D'Água S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	São Bento
GE Boa Vista S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	São Bento
GE Farol S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	São Bento
GE São Bento do Norte S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	São Bento
Central Geradora Eólica São Bento do Norte I S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Central Geradora Eólica São Bento do Norte II S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Central Geradora Eólica São Bento do Norte III S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Central Geradora Eólica São Miguel I S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Central Geradora Eólica São Miguel II S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Central Geradora Eólica São Miguel III S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Guajiru S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Jangada S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Potiguar S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Cutia S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Maria Helena S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Esperança do Nordeste S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Usina de Energia Eólica Paraíso dos Ventos do Nordeste S.A.	São Bento do Norte/RN	Production of electricity from wind sources	100.0	Cutia
Eol Potiguar B141 SPE S.A.	Serra do Mel/RN	Production of electricity from wind sources	100.0	Serra do Mel
Eol Potiguar B142 SPE S.A.	Serra do Mel/RN	Production of electricity from wind sources	100.0	Serra do Mel
Eol Potiguar B143 SPE S.A.	Serra do Mel/RN	Production of electricity from wind sources	100.0	Serra do Mel
Eol Ventos de Vila Paraiba IV SPE S.A.	Serra do Mel/RN	Production of electricity from wind sources	100.0	Serra do Mel
Central Eólica Aventura II S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Aventura
Central Eólica Aventura III S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Aventura
Central Eólica Aventura IV S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Aventura
Central Eólica Aventura V S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	Aventura
Central Eólica SRMN I S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	SRMN
Central Eólica SRMN II S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	SRMN
Central Eólica SRMN III S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	SRMN
Central Eólica SRMN IV S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	SRMN
Central Eólica SRMN V S.A.	Curitiba/PR	Production of electricity from wind sources	100.0	SRMN

(a) Wind farm with 99.99992% interest in Copel GeT and 0.00008% in Brownfield.

1.1.2 Joint Ventures

Joint ventures	Headquarters	Main activity	Interest	
			%	Investor
Voltaia São Miguel do Gostoso I Participações S.A.	São Paulo/SP	Interests in companies	49.0	Copel
Solar Paraná GD Participações S.A. (a)	Curitiba/PR	Interests in companies	49.0	Copel
Caiuá Transmissora de Energia S.A.	Rio de Janeiro/RJ	Transmission of electricity	49.0	Copel GeT
Integração Maranhense Transmissora de Energia S.A.	Rio de Janeiro/RJ	Transmission of electricity	49.0	Copel GeT
Matrinchã Transmissora de Energia (TP NORTE) S.A.	Rio de Janeiro/RJ	Transmission of electricity	49.0	Copel GeT
Guaraciaba Transmissora de Energia (TP SUL) S.A.	Rio de Janeiro/RJ	Transmission of electricity	49.0	Copel GeT
Paranaíba Transmissora de Energia S.A.	Rio de Janeiro/RJ	Transmission of electricity	24.5	Copel GeT
Mata de Santa Genebra Transmissão S.A.	Jundiaí/SP	Transmission of electricity	50.1	Copel GeT
Cantareira Transmissora de Energia S.A.	Rio de Janeiro/RJ	Transmission of electricity	49.0	Copel GeT

(a) Holding of 6 Special Purpose Entities (SPEs) operating in the distributed generation sector (photovoltaic plants): Pharma Solar II, Pharma Solar III, Pharma Solar IV, in commercial operation, and Bandeirantes Solar I, Bandeirantes Solar II and Bandeirantes Solar III, in pre-operating stage.

1.1.3 Associates

Associated companies	Headquarters	Main activity	Interest	
			%	Investor
Dona Francisca Energética S.A.	Agudo/RS	Production of electricity	23.03	Copel
Foz do Chopim Energética Ltda.	Curitiba/PR	Production of electricity	35.77	Copel GeT
Carbocampel S.A.	Figueira/PR	Coal exploration	49.0	Copel

1.1.4 Joint operations (consortiums)

The Company has interests in some joint operations. The two relevant consortiums, with amounts recorded in the Company's property, plant and equipment, are presented in Note 16.3.

1.2 Acquisition of Aventura and Santa Rosa & Mundo Novo wind complexes

On January 30, 2023, Copel GeT completed the acquisition of 100% of the shares of companies belonging to the Aventura and Santa Rosa & Mundo Novo Wind Complexes shown in the table below, with payment of R\$1,005,173 to the seller, EDP Renováveis Brasil S.A. At the transaction closing date, the shares were transferred to Copel GeT, and the appointment and investiture of new managers of the Companies were approved.

Santa Rosa & Mundo Novo Wind Complex	Aventura Wind Complex
SRMN Holding S.A.	Aventura Holding S.A.
Central Eólica SRMN I S.A.	Central Eólica Aventura II S.A.
Central Eólica SRMN II S.A.	Central Eólica Aventura III S.A.
Central Eólica SRMN III S.A.	Central Eólica Aventura IV S.A.
Central Eólica SRMN IV S.A.	Central Eólica Aventura V S.A.
Central Eólica SRMN V S.A.	

The acquisition is in line with the sustainable growth strategy in renewable energy, expanding the generation matrix diversification in line with the Company's Strategic Planning and Investment Policy. The transaction includes the Locked box mechanism, in which all cash generated from January 1, 2022 to the closing date will remain in the cash of the acquired Companies.

Transaction closing was subject to the satisfaction of certain conditions precedent, which were fully complied with by January 30, 2023, including: obtaining approval from the Brazilian Antitrust Enforcement Agency (CADE), declarations and guarantees, compliance with covenants and obligations, third-party consent, absence of material adverse effect.

It is also important to highlight the need for unconditional and unrestricted consent from counterparties to change the control of the acquired Companies, including regarding credit limits for maintenance of financing agreements by the Companies, in accordance with National Monetary Council (CMN) Resolution No. 4995, of March 24, 2022, a condition that was only fulfilled in January 2023.

The complexes are located in the state of Rio Grande do Norte, the largest wind energy hub in the country, and have a 260.4 MW installed capacity, with 157.8 MWh of assured energy. The companies have long-term financing (maturities up to 2043) taken out from Banco do Nordeste - BNB, at IPCA rates + 2.19% p.a. (Aventura Complex) and IPCA + 1.98% p.a. (Santa Rosa & Mundo Novo Complex).

The seller is developing projects in the vicinity of the Aventura Complex wind farms which, during construction and/or operation, may potentially affect the volume of electricity generated by the wind farms (wake effect) in the future. The seller estimates that these undertakings may start up operations as of January 2027. If the wake effect materializes so that the acquired wind farms generate energy below what was agreed between the parties, the seller will have the obligation to indemnify Copel. Otherwise, if the energy generation is greater, Copel must indemnify the seller. The amount of this indemnification is limited to R\$4,167 for both situations, monetarily restated.

The tables below show the book value and fair value of the net assets acquired measured on a preliminary basis:

Aventura Wind Complex	Book value	Fair value adjustment	Fair value at the acquisition date
Assets identified	518,158	254,788	772,946
Cash and cash equivalents	42,671	-	42,671
Trade accounts receivable	7,150	-	7,150
Recoverable taxes	3,823	-	3,823
Collaterals and escrow accounts	9,118	-	9,118
Other receivables	2,917	-	2,917
Property, plant and equipment	452,475	-	452,475
Intangible assets	4	254,788	254,792
Liabilities assumed	330,102	92,570	422,672
Suppliers	6,950	-	6,950
Loans and financing	317,928	-	317,928
Tax obligations	2,879	-	2,879
Other accounts payable	2,345	-	2,345
Contingent liabilities	-	9,003	9,003
Deferred income tax and social contribution	-	83,567	83,567
Net assets acquired	188,056	162,218	350,274

Santa Rosa & Mundo Novo Wind Complex			
	Book value	Fair value adjustment	Fair value at the acquisition date
Assets identified	840,938	360,860	1,201,798
Cash and cash equivalents	50,363	-	50,363
Trade accounts receivable	23,961	-	23,961
Recoverable taxes	5,747	-	5,747
Collaterals and escrow accounts	17,077	-	17,077
Other receivables	9,157	-	9,157
Property, plant and equipment	734,633	-	734,633
Intangible assets	-	360,860	360,860
Liabilities assumed	625,811	125,764	751,575
Suppliers	56,611	-	56,611
Loans and financing	557,810	-	557,810
Tax obligations	7,579	-	7,579
Other accounts payable	3,811	-	3,811
Contingent liabilities	-	4,654	4,654
Deferred income tax and social contribution	-	121,110	121,110
Net assets acquired	215,127	235,096	450,223

Contingent liabilities mainly refer to tax risks for which management believes that providing information regarding the timing of any cash outflows is impracticable, in view of the unpredictability and dynamics of the Brazilian legal, tax and regulatory systems. A final outcome depends on the conclusions of legal proceedings.

The authorization right and the deferred tax liability generated in the business combination were recorded in Copel GeT's investment. In the consolidated balance sheet these amounts will compose the balances of intangible assets and deferred income and social contribution taxes.

The table below shows the consideration transferred for assets acquired and technical goodwill calculated as a result of the recognized deferred tax liability in the business combination:

Total of net assets acquired	403,183	397,314	800,497
Technical goodwill			204,676
Consideration amount			1,005,173

The amount paid is supported by the discounted cash flow projections of the operations of the acquired wind complexes. Considering the cash acquired in the amount of R\$93,034, the net effect on the Company's cash was R\$912,139 as presented in the Statements of Cash Flows.

If this business combination had been effective on January 1, 2023, the consolidated net operating revenue would increase by R\$13,143, totaling R\$5,543,809, and the consolidated net income would decrease by R\$1,824, totaling R\$633,666.

2. Concessions and Authorizations

2.1 Concession contracts or authorizations obtained by Copel

Concession agreement / authorization of the equity		Interest %	Maturity
Copel DIS	Contract 046/1999, extended by 5 th addendum to the contract	100	07.07.2045
Elejor	Contract 125/2001 - HPP Fundão	70	06.11.2040
	Contract 125/2001 - HPP Santa Clara		05.10.2040
	Authorization - SHP Fundão I and SHP Santa Clara I - 753/2002 and 757/2002		12.19.2032
Dona Francisca Energética	Contract 188/1998 - HPP Dona Francisca	23	09.21.2037
UEG Araucária	Authorization 351/1999 - TPP Araucária (60.9% Copel GET)	20.3	12.23.2029
Compagás (2.1.1)	Concession gas distribution contract	51	07.06.2054
Usina de Energia Eólica São João S.A. (a)	MME Ordinance 173 /2012 - WPP São João	49	03.26.2047
Usina de Energia Eólica Carnaúba S.A. (a)	MME Ordinance 204 /2012 - WPP Carnaúbas	49	04.09.2047
Usina de Energia Eólica Reduto S.A. (a)	MME Ordinance 230 /2012 - WPP Reduto	49	04.16.2047
Usina de Energia Eólica Santo Cristo S.A. (a)	MME Ordinance 233/2012 - WPP Santo Cristo	49	04.18.2047

(a) Subsidiaries of Voltalia São Miguel do Gostoso I Participações S.A.

Hydroelectric Power Plant - HPP

Small Hydroelectric Plant - SHP

Thermal Power Plant - TPP

Wind Power Plant - WPP

2.1.1 Compagas

Compagas has a service concession arrangement signed with the Granting Authority, the State of Paraná, effective for 30 years as of July 6, 1994, extended for the same period as of the ending date of the original term, based on article 16 of the State Supplementary Law No. 205/2017. Therefore, the final term of the arrangement was extended to July 6, 2054.

The main requirements for concession renewal, among others, are: adoption of the price-cap regulation model; remuneration based on the weighted average cost of capital (WACC), initially at 9.125% p.a.; definition of the initial Net Regulatory Remuneration Base (BRRL) contemplating the assets not amortized in the current concession, the granting bonus, offset against regulatory liabilities; total estimated Capex of R\$2.5 billion to be realized over 30 years; tariff adjustment based on Brazil's Extended Consumer Price Index (IPCA) variations. The new arrangement was signed on December 26, 2022 and the service concession was extended upon payment of a R\$508,000 grant bonus through offsetting of concessionaire credits referring to the previous service concession arrangement in the amount of R\$98,000 and financial disbursement of R\$410,000 in December 2022.

As a result of this process, the accounts receivable related to concessions were transferred to intangible assets, where the consideration for the granting bonus was also recorded.

2.2 Concession contracts or authorizations obtained by Copel Get and its investees

Generation concessions	Interest %	Maturity	
ONEROUS CONCESSION BY THE USE OF PUBLIC PROPERTY - UBP			
Concession Contract 001/2007 - HPP Gov. Jayme Canet Júnior (Mauá)	51	05.27.2047	
Concession Contract 001/2011 - HPP Colider	100	01.30.2046	
Authorization - Ordinance 133/2011 - SHP Cavernoso II	100	12.06.2050	
Concession Contract 002/2012 - HPP Baixo Iguaçu	30	12.03.2049	
Concession Contract 007/2013			
HPP Apucarantina	100	01.27.2027	
HPP Chariné	100	08.02.2028	
HPP Derivação do Rio Jordão	100	06.21.2032	
HPP Cavernoso	100	06.23.2033	
PUBLIC SERVICE CONCESSIONS			
Concession Contract 045/1999			
TPP Figueira (Note 34.2.6)	100	03.27.2019	
HPP São Jorge (Note 34.2.6)	100	07.24.2026	
HPP Gov. Ney Aminthas de Barros Braga (Segredo)	100	09.25.2032	
HPP Gov. José Richa (Salto Caxias)	100	03.20.2033	
Concession Contract 001/2020			
UHE Guaricana	100	07.21.2028	
Authorization - Resolution 278/1999 - WPP Palmas	100	09.29.2029	
Dispatch 182/2002 - Hydroelectric Generating Plant - HGP Melissa, HGP Ptangui and HGP Salto do Vau (only register with ANEEL)	100	-	
Concession Contract 003/2016 - HPP Gov. Pedro Viriato Parigot de Souza (GPS)	100	01.03.2053	
HPP Marumbi - Power generating plant registration: CGH. PH. FR. 001501-6.02	100	-	
Authorization Aneel 5,373/2015 - HGP Chopim I (only register with ANEEL)	100	-	
Concession agreement / authorization of the equity			
UEG Araucária	Authorization 351/1999 - TPP Araucária (20,3% - Copel)	60.9	12.23.2029
Nova Asa Branca I	MME Ordinance 267/2011 - WPP Asa Branca I	100	04.25.2046
Nova Asa Branca II	MME Ordinance 333/2011 - WPP Asa Branca II	100	05.31.2046
Nova Asa Branca III	MME Ordinance 334/2011 - WPP Asa Branca III	100	05.31.2046
Nova Eurus IV	MME Ordinance 273/2011 - WPP Eurus IV	100	04.27.2046
Santa Maria	MME Ordinance 274/2012 - WPP SM	100	05.08.2047
Santa Helena	MME Ordinance 207/2012 - WPP Santa Helena	100	04.09.2047
Ventos de Santo Uriel	MME Ordinance 201/2012 - WPP Santo Uriel	100	04.09.2047
GE Boa Vista	MME Ordinance 276 /2011 - WPP Dreen Boa Vista	100	04.28.2046
GE Farol	MME Ordinance 263 /2011 - WPP Farol	100	04.20.2046
GE Olho D'Água	MME Ordinance 343 /2011 - WPP Dreen Olho D'Água	100	06.01.2046
GE São Bento do Norte	MME Ordinance 310 /2011 - WPP Dreen São Bento do Norte	100	05.19.2046
Esperança do Nordeste	MME Ordinance 183/2015 - WPP Esperança do Nordeste	100	05.11.2050
Paraíso dos Ventos do Nordeste	MME Ordinance 182/2015 - WPP Paraíso dos Ventos do Nordeste	100	05.11.2050
Usina de Energia Eólica Jangada	Resolution 3,257/2011 - WPP GE Jangada	100	01.05.2042
Maria Helena	Resolution 3,259/2011 - WPP GE Maria Helena	100	01.05.2042
Usina de Energia Eólica Potiguar	MME Ordinance 179/2015 - WPP Potiguar	100	05.11.2050
Usina de Energia Eólica Guajiru	Resolution 3,256/2011 - WPP Dreen Guajiru	100	01.05.2042
Usina de Energia Eólica Cutia	Resolution 3,258/2011 - WPP Dreen Cutia	100	01.05.2042
São Bento do Norte I	Ordinance 349/2015 - WPP São Bento do Norte I	100	08.04.2050
São Bento do Norte II	Ordinance 348/2015 - WPP São Bento do Norte II	100	08.04.2050
São Bento do Norte III	Ordinance 347/2015 - WPP São Bento do Norte III	100	08.04.2050
São Miguel I	Ordinance 352/2015 - WPP São Miguel I	100	08.04.2050
São Miguel II	Ordinance 351/2015 - WPP São Miguel II	100	08.04.2050
São Miguel III	Ordinance 350/2015 - WPP São Miguel III	100	08.04.2050
Foz do Chopim	Authorization 114/2000 - SHP Arturo Andreoli	35.77	08.15.2032
SHP Bela Vista (Note 16.5.1)	Resolution 913/2017 - transfer of title under Resolution 7,802/2019	100	01.02.2041
F.D.A. Electricity Generation (Note 34.2.6)	Generation Concession Contract 002/2020	100	12.21.2024
Jandaíra I Energias Renováveis	Ordinance 140/2020 - WPP Jandaíra I	100	04.02.2055
Jandaíra II Energias Renováveis	Ordinance 141/2020 - WPP Jandaíra II	100	04.02.2055
Jandaíra III Energias Renováveis	Ordinance 142/2020 - WPP Jandaíra III	100	04.02.2055
Jandaíra IV Energias Renováveis	Ordinance 139/2020 - WPP Jandaíra IV	100	04.02.2055
EOL Potiguar B 141 SPE S.A.	Ordinance 02/2019 - WPP Vila Maranhão I	100	01.11.2054
EOL Potiguar B 142 SPE S.A.	Ordinance 12/2019 - WPP Vila Maranhão II	100	01.14.2054
EOL Potiguar B 143 SPE S.A.	Ordinance 13/2019 - WPP Vila Maranhão III	100	01.14.2054
EOL Potiguar B 61 SPE S.A.	Ordinance 453/2019 - WPP Ventos de Vila Mato Grosso I	100	12.06.2054
Ventos de Vila Paraíba IV SPE S.A.	Ordinance 10/2019 - WPP Vila Ceará I	100	01.14.2054
EOL Aventura II	Ordinance 209/2018 - Aventura II	100	06.05.2053
EOL Aventura III	Ordinance 220/2018 - Aventura III - REA n° 7.820/2019	100	06.11.2053
EOL Aventura IV	Ordinance 215/2018 - Aventura IV	100	06.05.2053
EOL Aventura V	Ordinance 213/2018 - Aventura V	100	06.05.2053
EOL SRMN I S.A.	Ordinance 196/2018 - Santa Rosa e Novo Mundo I	100	06.04.2053
EOL SRMN II S.A.	Ordinance 194/2018 - Santa Rosa e Novo Mundo II	100	06.04.2053
EOL SRMN III S.A.	Ordinance 197/2018 - Santa Rosa e Novo Mundo III	100	06.04.2053
EOL SRMN IV S.A.	Ordinance 188/2018 - Santa Rosa e Novo Mundo IV	100	06.01.2053
EOL SRMN V S.A.	Ordinance 189/2018 - Santa Rosa e Novo Mundo V - Resolution 7.783/2019	100	06.01.2053

(a) On May 2, 2023 it was granted, through Resolution 14,435, the request to recompose the term of the concession for exploration of the plant in 469 days (process of exclusion of responsibility). The Company awaits the recalculation of the concession term by the CCEE.

Transmission concessions	Interest %	Maturity	Next tariff review
Transmission lines and substations concession agreements			
Contract 060/2001 - Transmission facilities (sundry Transmission lines and Substations) - extended by the 3 rd additive term	100	01.01.2043	2023
Contract 075/2001 - Transmission line 230 kV Bateias - Jaguariaíva	100	08.17.2031	(a)
Contract 006/2008 - Transmission line 230 kV Bateias - Pilarzinho	100	03.17.2038	2023
Contract 027/2009 - Transmission line 525 kV Foz do Iguaçu - Cascavel Oeste	100	11.19.2039	2025
Contract 010/2010 - Transmission line 500 kV Araraquara II - Taubaté	100	10.06.2040	2026
Contract 015/2010 - Substation Cerquilha III 230/138 kV	100	10.06.2040	2026
Contract 022/2012 - Transmission line 230 kV Londrina - Figueira and Transmission line 230 kV Foz do Chopim - Salto Osório	100	08.27.2042	2023
Contract 002/2013 - Transmission line 230 kV Assis - Paraguaçu Paulista II e Substation Paraguaçu Paulista II 230 kV	100	02.25.2043	2023
Contract 005/2014 - Transmission line 230 kV Bateias - Curitiba Norte e Substation Curitiba Norte 230/138 kV	100	01.29.2044	2024
Contract 021/2014 - Transmission line 230 kV Foz do Chopim - Realeza e Substation Realeza 230/138 kV	100	09.05.2044	2025
Contract 022/2014 - Transmission line 500 kV Assis - Londrina	100	09.05.2044	2025
Contract 006/2016 - Transmission line 525 kV Curitiba Leste - Blumenau	100	04.07.2046	2026
Transmission line 230 kV Baixo Iguaçu - Realeza			
Transmission line 230 kV Curitiba Centro - Uberaba			
Substation Medianeira 230/138 kV			
Substation Curitiba Centro 230/138 kV			
Substation Andirá Leste 230/138 kV			
Concession agreement / authorization of the equity			
Costa Oeste Transmissora Contract 001/2012:	100	01.12.2042	2027
Transmission line 230 kV Cascavel Oeste - Umuarama			
Substation Umuarama 230/138 kV			
Caiuá Transmissora Contract 007/2012:	49	05.10.2042	2027
Transmission line 230 kV Umuarama - Guaíra			
Transmission line 230 kV Cascavel Oeste - Cascavel Norte			
Substation Santa Quitéria 230/138/13,8 kV			
Substation Cascavel Norte 230/138/13,8 kV			
Marumbi Transmissora Contract 008/2012:	100	05.10.2042	2027
Transmission line 525 kV Curitiba - Curitiba Leste			
Substation Curitiba Leste 525/230 kV			
Integração Maranhense Contract 011/2012: Transmission line 500 Kv Açailândia - Miranda II	49	05.10.2042	2027
Matrinchã Transmissora Contract 012/2012:	49	05.10.2042	2027
Transmission line 500 kV Paranaíta - Cláudia			
Transmission line 500 kV Cláudia - Paranatinga			
Transmission line 500 kV Paranatinga - Ribeirãozinho			
Substation Paranaíta 500 kV			
Substation Cláudia 500 kV			
Substation Paranatinga 500 kV			
Guaraciaba Transmissora Contract 013/2012:	49	05.10.2042	2027
Transmission line 500 kV Ribeirãozinho - Rio Verde Norte			
Transmission line 500 kV Rio Verde Norte - Marimbondo II			
Substation Marimbondo II 500 kV			
Paranaíba Transmissora Contract 007/2013:	24,5	05.02.2043	2023
Transmission line 500 kV Barreiras II - Rio das Éguas			
Transmission line 500 kV Rio das Éguas - Luziânia			
Transmission line 500 kV Luziânia - Pirapora 2			
Mata de Santa Genebra Contract 001/2014:	50,1	05.14.2044	2024
Transmission line 500 kV Itatiba - Bateias			
Transmission line 500 kV Araraquara 2 - Itatiba			
Transmission line 500 kV Araraquara 2 - Fernão Dias			
Substation Santa Bárbara D'Oeste 440 kV			
Substation Itatiba 500 kV			
Substation Fernão Dias 500/440 kV			
Cantareira Transmissora Contract 019/2014: Transmission line Estreito - Fernão Dias	49	09.05.2044	2025
Uirapuru Transmissora Contract 002/2005: Transmission line 525 kV Ivaiporã - Londrina	100	03.04.2035	(a)

(a) Do not undergo tariff review and RAP reduces to 50% in the 16th year.

3. Basis of Preparation

These individual and consolidated interim financial information have been prepared in accordance with standard CPC 21 - *Demonstração Intermediária*, issued by the Brazilian Accounting Pronouncements Committee (CPC), and IAS 34 - Interim Financial Reporting, issued by the International Accounting Standards Board - IASB, and presented following the standards issued by the Brazilian Securities and Exchange Commission (CVM).

Management declares that all relevant information from the individual and consolidated interim financial information is being evidenced and corresponds to that used in management.

The issuance of these individual and consolidated interim financial statements was authorized by the Board of Directors on May 10, 2023.

3.1 Functional and presentation currency

The individual and the consolidated interim financial information are presented in Brazilian Reais, which is the functional and presentation currency of the Company. Balances herein have been rounded to the nearest thousand, unless otherwise indicated.

3.2 Basis of measurement

The individual and the consolidated interim financial information were prepared based on the historical cost, except for certain financial instruments and investments measured at fair value, as described in the respective accounting policies and notes.

3.3 Use of estimates and judgments

In the preparation of these individual and consolidated interim financial information, Management used judgments, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses of the Company and its subsidiaries. Actual results may differ from those estimates, which are revised on an ongoing basis. Revisions to estimates are recognized prospectively.

The information about the use of estimates and judgments regarding the application of accounting policies adopted that have effect on the amounts recognized in these interim financial statements is the same as that disclosed in Note 3.3 to the financial statements as of December 31, 2022.

3.4 Management's judgment ongoing concern

Management has concluded that there are no material uncertainties that cast doubt on the Company's ability to continue as a going concern. No events or conditions were identified that, individually or collectively, may raise significant doubts on its ability to continue as a going concern.

The main bases of judgment used for such conclusion are: (i) main activities resulting from long-term concessions; (ii) robust equity; (iii) strong operating cash generation, including financial capacity to settle commitments entered into with financial institutions; (iv) historical profitability; and (v) fulfillment of the objectives and targets outlined in the Company's Strategic Planning, which is approved by Management, monitored and reviewed periodically, seeking the continuity of its activities.

4. Significant Accounting Policies

The Company's accounting policies are consistent with those presented in the financial statements as of December 31, 2022.

4.1 Standards applicable to the Company effective January 1, 2023

The following changes, with no significant impact on the Company's financial statements, are effective as of January 1, 2023:

- (i) CPC 26 / IAS 1 and IFRS practical expedient 2: classification of liabilities as current or non-current and change in accounting policy disclosures;
- (ii) CPC 50 / IFRS 17: new standards for insurance contracts, replacing CPC 11 / IFRS 4;
- (iii) CPC 23 / IAS 8: updating of accounting estimates definitions;
- (iv) CPC 32 / IAS 12: amendment to the treatment of deferred tax related to assets and liabilities arising from a single transaction.

5. Cash and Cash Equivalents

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Cash and bank accounts	50	173	284,594	222,641
Financial investments with immediate liquidity	23,625	199,704	2,626,680	2,455,816
	23,675	199,877	2,911,274	2,678,457

These comprise cash on hand, deposits with banks and short-term highly liquid investments, which can be redeemed in cash within 90 days from the investment date. These short-term investments are recorded at cost, plus earnings net of income tax accrued until the closing date of the period and with insignificant risk of change in value.

Financial investments of the Company and its subsidiaries refer to Bank Deposit Certificates - CDBs and Repurchase Agreements, which are the sale of a security with the commitment of the seller (Bank) to repurchase it, and of the purchaser to resell it in the future. Investments, depending on the incidence of IOF and the liquidity period negotiated at the time of contracting, have post-fixed interest rates between 92.0% and 101% of Interbank Deposit Certificate ("CDI").

6. Bonds and Securities

The Company and its subsidiaries hold securities that yield variable interest rates. The term of these securities ranges from 2 to 54 months from the end of the period, however, most of the balance is recorded in noncurrent assets as they refer to funds tied to the financial guarantee of long-term contracts.

Category	Index	Parent Company		Consolidated	
		03.31.2023	12.31.2022	03.31.2023	12.31.2022
Units in Funds (a)	CDI	92	93	436,158	353,454
Bank Deposit Certificates - CDB	96% to 101% of CDI	-	-	65,634	77,602
		92	93	501,792	431,056
	Current	92	93	92	93
	Noncurrent	-	-	501,700	430,963

Interbank Deposit Certificate - CDI

(a) These are mostly reserve accounts intended for the fulfillment of contracts with the BNDES.

7. Trade Accounts Receivable

Consolidated	Balances falling due	Overdue up to 90 days	Overdue for more than 90 days	Total	
				03.31.2023	12.31.2022
Customers					
Residential	365,417	199,157	20,753	585,327	513,096
Industrial	147,342	15,538	43,644	206,524	178,856
Commercial	235,838	47,286	23,506	306,630	260,260
Rural	93,743	23,091	2,703	119,537	101,645
Public Entities	41,307	1,783	243	43,333	39,107
Public lighting	31,212	-	-	31,212	28,328
Public service	41,317	305	702	42,324	39,293
Unbilled - captive costumers	434,490	-	-	434,490	462,426
Energy installments plan - captive customers (7.1)	287,141	40,755	69,697	397,593	403,518
Low income subsidy	31,077	-	-	31,077	28,342
Free consumers	237,116	2,406	3,783	243,305	208,631
Other receivables	67,097	24,815	24,489	116,401	111,436
	2,013,097	355,136	189,520	2,557,753	2,374,938
Concessionaires, permission holder and trading companies					
Bilateral contracts	218,688	1,670	724	221,082	278,148
Regulated contracts	195,107	1,484	7,482	204,073	205,070
CCEE (7.2)	71,308	-	119,665	190,973	196,627
Energy supply	485,103	3,154	127,871	616,128	679,845
Charges from using transmission grid	510,796	3,400	14,878	529,074	530,259
Gas distribution	113,668	2,091	12,252	128,011	138,770
(-) Expected credit losses (7.3)	(15,831)	(17,041)	(220,100)	(252,972)	(271,943)
	3,106,833	346,740	124,421	3,577,994	3,451,869
	Current			3,460,364	3,342,050
	Noncurrent			117,630	109,819

7.1 Energy installments plan – captive customers

The trade accounts receivable renegotiated are discounted to present value as of March 31, 2023, taking into consideration the future value, the maturity dates, the dates of settlement and the discount rate of 1.09% p.m. (1,10% p.m. as of December 31, 2022).

7.2 Electricity Trading Chamber - CCEE

Balance receivable deriving from the positive position in the monthly settlement of the spot market centralized by CCEE. Amounts are received in the second month following the recognition of revenue or offset against future settlements when the result is negative for the subsidiary.

Of the total presented, R\$119,665 refer to the controversial portion resulting from the effects of the injunction for exclusion of responsibility of HPP Colíder. As a result of unforeseeable circumstances and force majeure, the power plant had its commercial start-up delayed, which was initially scheduled for January 2015. The Company is contesting in court, filing a request for exclusion of liability so that the mandatory supply of energy contracted by the plant, in the period in delay, could be postponed. Expected credit losses were recorded in the same amount as the receivable balance, as presented in Note 7.3.

Copel GeT filed an administrative request for the exclusion of liability at Aneel, which was denied, and subsequently, on December 18, 2017, it filed an ordinary lawsuit with a request for advance protection with the Court, requesting the reversal of the agency's decision. On April 6, 2018, the Federal Court of the 1st Region fully granted the preliminary injunction applied for in the interlocutory appeal to suspend the enforcement of any burden or penalty to Copel as a result of noncompliance with the deadlines originally provided for in the Concession Agreement until a final unappealable ruling is rendered. Aneel filed an internal appeal against this decision and is awaiting judgment by the Federal Regional Court. The main action awaits its judgment on the merits since February 25, 2019.

The contracted energy of the plant is 125 MW average. For overdue periods the contract was fulfilled and, due to the fact it is awaiting a decision on the merits of the lawsuit, the Company recognized the revenue limited to the financial covenants of the agreement and the regulatory rules, as well as the cost of energy to cover the contractual guarantee.

7.3 Expected credit losses

Consolidated	Balance as of January 1, 2023	Additions / (Reversals)	Write offs (a)	Balance as of March 31, 2023
Customers				
Residential	62,526	(16,382)	4,016	50,160
Industrial	32,836	(450)	(3,519)	28,867
Commercial	32,040	4,887	(5,849)	31,078
Rural	3,827	(1,773)	898	2,952
Public Entities	536	(556)	308	288
Public lighting	18	1	-	19
Public service	1,950	(142)	(183)	1,625
Unbilled - captives customers	987	(716)	-	271
Adjustment to present value	(2,650)	365	-	(2,285)
	132,070	(14,766)	(4,329)	112,975
Concessionaires, permission holder and trading companies				
CCEE (7.2)	119,665	-	-	119,665
Concessionaries and permission holder	9,827	(167)	(19)	9,641
	129,492	(167)	(19)	129,306
Gas distribution	10,381	350	(40)	10,691
	271,943	(14,583)	(4,388)	252,972

(a) Net losses from recovered invoice balances.

8. Net Sectorial Financial Assets and Liabilities

The Sectorial Financial Assets and Liabilities comprise the differences calculated between the balances considered in the tariff coverage to cover energy costs, charges and other financial components, and the actual costs incurred, resulting in a balance to be received by the distributor or to be refunded to consumers. The current balance consists of amounts approved by Aneel in the 2022 tariff adjustment and amounts that will be ratified in the next tariff events.

Consolidated	Balance as of January 1, 2023	Operating revenues		Financial results	Tariff flags	Balance as of March 31, 2023
		Constitution	Amortization	Updating		
Portion A						
Electricity purchased for resale - Itaipu	819,649	(41,652)	(284,861)	26,882	-	520,018
Electricity purchased for resale - CVA Energ	(582,059)	(106,508)	145,005	(23,140)	-	(566,702)
Transport of energy using the transmission system - basic grid	253,766	132,318	2,350	8,596	-	397,030
Transport of energy purchased from Itaipu	10,706	8,071	2,116	390	-	21,283
ESS	227,329	84,937	(144,083)	5,567	(13,499)	160,251
CDE	200,493	(23,299)	(78,713)	4,530	-	103,011
Proinfa	42,078	(14,329)	(20,376)	543	-	7,916
Other financial components						
Refunds of Pis and Cofins	(765,573)	-	398,275	-	-	(367,298)
Neutrality	98,598	16,434	(22,951)	2,154	-	94,235
Offset of bilateral contracts under CCEAR	(186)	-	97	-	-	(89)
Hydrological risk	(524,806)	(88,649)	160,705	(8,947)	-	(461,697)
Tariff refunds	(175,460)	(28,973)	22,412	(4,302)	-	(186,323)
Overcontracting	436,324	52,233	48,025	16,757	(297)	553,042
Itaipu Bonus	4,943	-	(3,003)	(27)	-	1,913
Water shortage account	(71,188)	-	37,034	-	-	(34,154)
CDE Eletrobras	(184,100)	79,515	-	(5,115)	-	(109,700)
Other	107,629	(3,359)	(59,651)	(298)	-	44,321
	(101,857)	66,739	202,381	23,590	(13,796)	177,057
Current assets	190,699					327,135
Noncurrent assets	190,699					109,045
Current liabilities	(433,914)					(208,178)
Noncurrent liabilities	(49,341)					(50,945)

9. Accounts Receivables - Concessions

Consolidated	03.31.2023	12.31.2022
Power distribution service concession (9.1)	1,560,022	1,442,819
Bonus from the grant of concession agreements under the quota system (9.2)	782,005	766,832
Generation concession agreements (9.3)	70,001	68,642
	2,412,028	2,278,293
	Current	8,563
	Noncurrent	2,403,465
		8,603
		2,269,690

9.1 Power distribution service concession

Balance as of January 1, 2023	1,442,819
Transfers from contract assets (Note 10.1)	91,503
Transfers to other receivables (assets held for disposal)	(4)
Fair value recognition	25,734
Loss on disposal	(30)
Balance as of March 31, 2023	1,560,022

Balance corresponding to the estimated portion of investments made in the public service infrastructure whose useful life exceeds the concession period and which, according to the contractual provision, will be indemnified by the Granting Authority at the end of the concession.

9.2 Bonus from the grant of concession contracts under the quota system

Balance as of January 1, 2023	766,832
Transfers to electricity grid use charges - customers	(21,771)
Interest (Note 30.1)	36,944
Balance as of March 31, 2023	782,005

On January 5, 2016, Copel GeT entered into a 30-year concession agreement of HPP GPS, in accordance with Law No. 12,783/2013, with payment of the Bonus from the Grant - BO to the Granting Authority, amounting to R\$574,827, as per Aneel Invitation to Bid 12/2015.

The amount of the bonus for the grant was recognized as a financial asset due to the unconditional right of Copel GeT to receive the amount paid with inflation adjustment based on IPCA and interest during the concession period.

9.3 Power generation concession contracts

Balance as of January 1, 2023	68,642
Fair value adjustment	1,359
Balance as of March 31, 2023	70,001

Residual balance of the electricity generation assets of HPP GPS and HPP Mourão I. Copel GeT depreciated the plants until 2015, the expiration date of the concessions, and the remaining balance was reclassified to accounts receivable related to the concession and subsequently measured at the best estimate of fair value.

In 2015, Copel GeT expressed to Aneel its interest in receiving the indemnifiable amount, with proof of the realization of the respective investments, and in 2022, it filed the updated indemnifiable amount evaluation report (Note nº 34.2.1 - e).

10. Contract assets

Consolidated	03.31.2023	12.31.2022
Power distribution service concession (10.1)	2,330,452	2,332,171
Piped gas distribution service concession (10.2)	30,750	30,032
Power transmission concession (10.3)	5,417,369	5,310,476
	7,778,571	7,672,679
	Current	220,660
	Noncurrent	7,452,019

10.1 Power distribution service concession contract

Consolidated	Assets	Special liabilities	Total
Balance as of January 1, 2023	2,405,124	(72,953)	2,332,171
Acquisitions	534,600	-	534,600
Customers contributions	-	(57,503)	(57,503)
Transfers to intangible assets (Note 17.1)	(426,493)	42,014	(384,479)
Transfers to accounts receivable - concessions (Note 9.1)	(99,150)	7,647	(91,503)
Loss on disposal	(2,834)	-	(2,834)
Balance as of March 31, 2023	2,411,247	(80,795)	2,330,452

Balance composed of works in progress mainly related to the construction and expansion of substations, distribution lines and networks and measuring equipment, measured at historical cost, net of special liabilities. As these works are concluded, the amounts are transferred to Accounts receivable related to the concessions and Intangible assets, according to the form of remuneration. During the construction phase, loans, financing and debentures costs are capitalized. In the first 3 months of 2023 these costs totaled R\$4,169, at an average rate of 0.09% p.a. (R\$3,788, at an average rate of 0.12% p.a., in the same period of 2022).

10.2 Piped gas distribution service concession contract

Balance as of January 1, 2023	30,032
Acquisitions	2,810
Transfers to intangible assets (Note 17.3)	(2,092)
Balance as of March 31, 2023	30,750

10.3 Transmission service concession contract

	Concession assets	RBSE assets	Total
Balance as of January 1, 2023	3,894,276	1,416,200	5,310,476
Realization of gains/losses in business combinations	181	-	181
Transfers to electricity grid use charges - customers	(107,031)	(59,541)	(166,572)
Transfers to property, plant and equipment	(1,339)	-	(1,339)
Transfers from litigations	245	-	245
Remuneration	173,462	62,524	235,986
Construction revenue	36,013	-	36,013
Construction income	589	-	589
Gain from efficiency (10.3.1)	1,790	-	1,790
Balance as of March 31, 2023	3,998,186	1,419,183	5,417,369

In June 2022, Technical Note No. 85/2022-SGT/Aneel was issued, which dealt with the analysis of the requests for reconsideration on the payment of the financial component and reprofiling of the RBSE Assets, with a monocratic decision (Order No. 1,762/2022) deliberated by a director of Aneel on the subject. This decision was suspended by the collegiate, according to Order No. 1,844/2022, and the terms of that Technical Note are under discussion by the advisors of the Aneel Board of Directors, together with the Superintendence of Tariff Management and Economic Regulation, about the assumptions, methodologies and calculations considered for the formation of this tariff component. More recently, on April 27, 2023, Technical Note No. 85/2023-SGT/Aneel was issued, which presented a technical analysis of the statements about the calculations presented in Technical Note No. 085/2022-SGT/Aneel. Considering that this matter has not yet been deliberated by Aneel Board of Directors, the values approved by Aneel Resolution No. 2,847 of April 22, 2021 are still in effect and appropriate.

10.3.1 Gain (loss) due to efficiency or inefficiency in the implementation and operation of transmission infrastructure

In the construction and operation of the transmission infrastructure, possible positive or negative impacts are expected due to delays and additional costs due to environmental issues, variation in costs, mainly with cables and structures when indexed to foreign currency, additional easement costs and land negotiations, potential earthworks for unforeseen events, early maturity of commercial transactions and RAP revision/readjustment according to the regulatory standards and contractual provisions. Changes in the original project that affect its profitability are recognized directly in the statement of income when incurred, except for the part of RAP related to the operation and maintenance performance of the assets that is recognized as the services are performed.

10.3.2 Assumptions adopted for the calculation of contract assets

	03.31.2023			12.31.2022		
	Concession assets	RBSE assets		Concession assets	RBSE assets	
		Financial	Economic		Financial	Economic
Construction margin	1.65%	N/A	N/A	1.65%	N/A	N/A
Operating and maintenance margin	1.65%	N/A	N/A	1.65%	N/A	N/A
Remuneration rate (a)	9.59% p.a.	8.11% p.a.	11.10% p.a.	9.58% p.a.	8.11% p.a.	11.10% p.a.
Contract correction index	IPCA (b)	IPCA	IPCA	IPCA (b)	IPCA	IPCA
Annual RAP, according to Ratifying Resolution	524,968	91,276	151,560	523,713	91,276	151,560

(a) Average rate of contracts

(b) Contract 075/2001 - LT 230 kV Bateias - Jaguariaíva, from Copel GET, and contract 002/2005 - LT 525 kV Ivaiporã - Londrina, from Uirapuru, are adjusted by the IGPM.

11. Other Receivables

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Fair value in the purchase and sale of power (Note 34.2.12)	-	-	1,572,356	1,081,758
Services in progress (a)	-	-	394,261	369,916
CDE Transfer (11.2)	-	-	85,280	83,649
Reimbursement of coal consumption values by CDE	-	-	61,828	58,367
Credits on purchases of gas (11.1)	-	-	51,019	45,673
Disposals and decommissioning in progress	7	7	41,820	39,768
Advance payments to employees	764	536	30,623	20,768
Credits - gas concession (11.3)	-	-	25,965	32,825
Contractual advances to suppliers	-	-	20,885	12,709
Bonus for voluntary consumption reduction	-	-	2,917	2,917
Employees transferred compensation to be recovered	384	305	1,330	1,261
Other receivables	148	147	82,362	79,221
	1,303	995	2,370,646	1,828,832
	Current	1,284	977	998,199
	Noncurrent	19	18	1,372,447
				931,452

(a) Refers, most of which, to the Research and Development and Energy Efficiency programs, which upon conclusion are offset against the respective liability recorded for this purpose.

11.1 Credits on purchases of gas - Compagas

It refers to the acquisition of contracted and guaranteed gas volumes, higher than those effectively withdrawn and used, for which the contract provides for future compensation. Compagas has the right to use and offset this gas within one year after the expiration of the contract. According to the contractual provisions and consumption perspectives, Compagas estimates to fully compensate the contracted volumes up to 2023. The contracts with Petrobras foresee the right to assign this asset.

11.2 CDE Transfer

Values of the Energy Development Account - CDE to cover tariff discounts on tariffs, defined in Law No. 10,438/2002 and Decree No. 7,891/2013. The values are stipulated in the Annual Tariff Adjustment/Revision and, monthly, the Company estimates the differences to be compensated in the next tariff adjustment.

11.3 Credits - gas concession

Compagas credits recorded to neutralize the economic impacts on the Company's results due to gas price differences and/or difference in margin between the prices contained in the supply tariffs applied to consumers and those billed by suppliers to the concessionaire. The recovery of these values is determined by the Regulatory Agency of Paraná - Agepar, in the process of revising and updating the tariff.

12. Taxes

12.1 Deferred income tax and social contribution

Parent Company	Balance as of January 1, 2023	Recognized in income	Balance as of March 31, 2023
Noncurrent assets			
Provisions for legal claims	273,514	1,266	274,780
Expected credit losses	49,443	-	49,443
Tax losses and negative tax basis	16,271	6,092	22,363
Post-employment benefits	9,125	(29)	9,096
Amortization - concession	5,232	96	5,328
Lease liability	1,635	(30)	1,605
Voluntary retirement program	546	(137)	409
Others	8,393	625	9,018
	364,159	7,883	372,042
(-) Noncurrent liabilities			
Escrow deposits monetary variation	23,867	707	24,574
Right-of-use asset	1,556	(40)	1,516
Financial instruments	4,859	402	5,261
	30,282	1,069	31,351
Net	333,877	6,814	340,691

Consolidated	Balance as of January 1, 2023	Recognized in income	Business combination effects (Note 1.2)	Recognized comprehensive income	Balance as of March 31, 2023
Noncurrent assets					
Provision for allocation of PIS and Cofins credits	629,427	8,730	-	-	638,157
Provisions for legal claims	635,048	(8,847)	4,643	-	630,844
Post-employment benefits	363,297	3,778	-	-	367,075
Impairment of assets	295,789	(15,582)	-	-	280,207
Tax losses and negative tax basis	195,062	(18,797)	-	-	176,265
Research and development and energy efficiency programs	127,083	6,362	-	-	133,445
Social security contributions - injunction on judicial deposit	82,181	2,088	-	-	84,269
Expected credit losses	90,294	(6,306)	-	-	83,988
Lease liability	74,783	(867)	-	-	73,916
Amortization - concession	57,649	1,306	-	-	58,955
Provisions for performance and profit sharing	14,914	16,389	-	-	31,303
Concession contracts	18,702	(267)	-	-	18,435
Voluntary retirement program	479	(70)	-	-	409
Others	173,304	(10,971)	-	-	162,333
	2,758,012	(23,054)	4,643	-	2,739,601
(-) Noncurrent liabilities					
Concession contracts	1,848,548	32,804	209,320	-	2,090,672
Deemed cost of property, plant and equipment	307,687	(4,223)	-	-	303,464
Accelerated depreciation	128,156	6,458	-	-	134,614
Derivative financial instruments	116,638	17,100	-	-	133,738
Escrow deposits monetary variation	72,827	3,266	-	-	76,093
Right-of-use asset	71,877	(1,233)	-	-	70,644
Transaction cost on loans and financing and debentures	30,316	1,603	-	-	31,919
Others	55,346	4,959	-	(96)	60,209
	2,631,395	60,734	209,320	(96)	2,901,353
Net	126,617	(83,788)	(204,677)	96	(161,752)
Assets presented in the Statement of Financial Position	1,644,299				1,637,997
Liabilities presented in the Statement of Financial Position	(1,517,682)				(1,799,749)

12.1.1 Projection for realization of deferred income tax and social contribution:

	Parent Company		Consolidated	
	Assets	Liabilities	Assets	Liabilities
2023	29,984	(810)	374,733	(223,391)
2024	212,492	(1,064)	619,796	(308,072)
2025	7,952	(1,048)	483,237	(244,797)
2026	7,954	(1,050)	119,940	(238,283)
2027	7,956	(1,052)	92,798	(182,666)
2028 to 2030	23,120	(3,170)	208,891	(470,442)
after 2030	82,584	(23,157)	840,206	(1,233,702)
	372,042	(31,351)	2,739,601	(2,901,353)

12.1.2 Unrecognized tax credits

As of March 31, 2023, Company did not recognize income tax and social contribution credits on income tax and social contribution tax losses in the amount of R\$212,564 (R\$197,540, as of December 31, 2022) for not having a reasonable assurance of generation of future taxable profits sufficient to allow the utilization of these tax credits.

12.2 Other taxes recoverable and other tax obligations

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Current assets				
Recoverable ICMS (VAT)	-	-	145,217	128,288
Recoverable PIS/Pasep and Cofins taxes (a)	-	-	1,062,257	1,110,659
Other recoverable taxes	-	-	722	747
	-	-	1,208,196	1,239,694
Noncurrent assets				
Recoverable ICMS (VAT)	-	-	176,452	171,374
Recoverable PIS/Pasep and Cofins taxes (a)	40,131	39,810	2,271,021	2,421,176
Other recoverable taxes	-	-	34,429	34,743
	40,131	39,810	2,481,902	2,627,293
Current liabilities				
ICMS (VAT) payable (Note 12.2.3)	-	-	256,214	149,506
ICMS installment payment (Note 12.2.4)	-	-	10,671	10,437
PIS/Pasep and Cofins payable	213	28,297	37,951	70,423
IRRF on interest on capital	-	-	-	11,372
Special Tax Regularization Program - Pert	-	-	58,400	57,046
Other taxes	1,076	393	4,304	4,822
	1,289	28,690	367,540	303,606
Noncurrent liabilities				
Social security contributions - injunction on judicial deposit	3,792	3,676	248,397	242,248
ICMS installment payment (Note 12.2.4)	-	-	36,073	37,883
Special Tax Regularization Program - Pert	-	-	340,668	347,029
Other taxes	-	-	6,478	6,331
	3,792	3,676	631,616	633,491

(a) The balance contains amounts referring Pis and Cofins credit on ICMS (Notes 12.2.1 and 12.2.2)

12.2.1 Pis and Cofins credit on ICMS - Copel Distribuição

On August 12, 2009, Copel DIS filed for a writ of mandamus No. 5032406-35.2013.404.7000 with the 3rd

Federal Court of Curitiba applying for the granting of an order to stop including ICMS in the PIS and Cofins tax base on June 16, 2020, a final unappealable ruling was handed down by the 2nd Panel of the Federal Regional Court of the 4th Region recognizing the right of Copel DIS to exclude from the PIS and Cofins tax base the full amount of ICMS included in the energy supply and distribution invoices. The ruling also recognized that the limitation period, in this case, is of five years and that, therefore, Copel has the right to recover the amounts that have been paid during the five years preceding the filing of the writ of mandamus until the date of the final unappealable decision.

Based on this favorable decision, Copel DIS recognized the tax credit updated in assets, which has been recovered through offsetting with taxes payable since June 2021, from the qualification of the credit originating from Cofins with the Brazilian Federal Revenue Service. The credit originating from PIS was qualified by the Brazilian Federal Revenue Service on August 25, 2022 and is ready to be used through offsetting.

On May 13, 2021, the Federal Supreme Court concluded the judgment of the motions for clarification filed by the Federal Government in Extraordinary Appeal 574.706/PR, partially granting the following terms: (i) relating to ICMS excluded from the PIS and Cofins calculation basis, the understanding that it is the highlighted ICMS prevailed; and (ii) modulate the effects of the judgment whose production will take place after March 15, 2017, except for the judicial and administrative actions filed up to the date of the session in which the judgment was delivered. Therefore, the final decision on this matter did not impact the final and unappealable decision in favor of Copel DIS, maintaining the treatment and amounts recorded.

The following table shows the movement of the asset:

Balance as of January 1, 2023		3,484,616
Monetary variation		70,299
Offsetting with taxes payable		(241,805)
Balance as of March 31, 2023		3,313,110
	Current	1,125,587
	Noncurrent	2,187,523

The asset balance will continue to be offset against future federal tax debts.

a) Liabilities to be refunded to consumers

The Company recorded a liability to be refunded to consumers related to the recovery of tax credits for the last 10 years, counting from the date of the final and unappealable decision, considering the current legislation, the statute of limitations period defined in the civil code and the jurisprudence of the courts.

On February 09, 2021, Aneel opened Public Consultation No. 05/2021 aimed at discussing how to return tax credits to consumers, proposing that the amounts to be returned for each tariff cycle (credits with the Brazilian Federal Revenue Office, added to any judicial deposits already received by the concessionaire/permissionaire) are deducted from the electricity bill, through apportionment by the set of consumers.

Additionally, Aneel Order No. 361/2021 established that in exceptional situations, in which there is a possibility of a significant tariff increase, part of the PIS and Cofins credits may be used in advance of the conclusion of the public consultation, limited to 20% of the total involved in lawsuits filed by distributors.

The following table shows the movement of the liabilities:

Balance as of January 1, 2023		1,995,158
Monetary variation		51,454
Balance as of March 31, 2023		2,046,612
	Current	815,321
	Noncurrent	1,231,291

The balance of the liability will be refunded to the consumer as the tax credits in the asset are offset.

b) Provision for allocation of PIS and Cofins credits

On June 27, 2022, Federal Law No. 14,385 was enacted, which defines the allocation of mandatory tax amounts collected in excess by the providers of the public electricity distribution service, due to the recognition by the judiciary that ICMS should be excluded from the PIS and Cofins calculation basis.

As detailed earlier in this note, Copel DIS has recognized the right to exclude the full amount of ICMS from the PIS and Cofins calculation basis and has already transferred part of these amounts to consumers, through reductions in the tariff adjustments approved by Aneel.

In this context, despite the lack of regulation of this Law, based on the review of the risk assessment carried out by Management, Copel DIS decided to recognize an additional provision, with no immediate cash effect, referring to the period between the 11th and the 16th year from the date of the final and unappealable decision of the lawsuit.

The Management of Copel DIS understands that the refund to consumers is limited to the tax credit amounts of the last 10 years from the date of the final and unappealable decision and, therefore, is evaluating the appropriate measures to be taken, including legal measures, considering the shelter given to unappealable decisions and applicable limitation periods.

On December 12, 2022, the Brazilian Association of Electric Energy Distributors - Abradee filed a Direct Action of Unconstitutionality - ADI with the Federal Supreme Court - STF, questioning Law No. 14,385/2022, which has not yet been judged. The Company awaits the unfolding of the ADI.

The table below shows the changes in the provision:

Balance as of January 1, 2023		1,851,257
Monetary variation		25,676
Balance as of March 31, 2023		1,876,933

Any allocation of this provision will occur only after the asset's tax credits are offset.

12.2.2 PIS and Cofins credit on ICMS - Compagas

Balance arising from the final and unappealable decision of the lawsuit in which Compagas discussed the exclusion of ICMS from the PIS and Cofins calculation basis. Given the favorable decision, Compagas recorded assets of R\$107,453 in September 2019 and the entire credit was recovered by March 2023.

12.2.3 ICMS on electricity operations

Supplementary Law No. 194/2022 was published on June 23, 2022, prohibiting that ICMS rates be set on electricity transactions at a level higher than on general transactions, considering the essentiality of related goods and services. Furthermore, it set forth that ICMS is not levied on transmission and distribution services and sector charges related to electric energy transactions. In compliance with the law, and after issue of state tax authorities' opinions, the Company implemented the necessary changes in September 2022 to comply with the legislation. However, on February 9, 2023, the Brazilian Supreme Court - STF granted to the States in a preliminary decision, in the records of Direct Action of Unconstitutionality - ADI 7195, the suspension of the article that excluded such items from the taxed portion of the electricity bill. Considering this decision, the Company resumed ICMS taxation on said services and sector charges. On March 3, 2023, the preliminary injunction was approved by the Plenary of the STF.

12.2.4 Incentive installment payment program for ICMS tax credits in the State of Paraná

On September 27, 2022, the Company adhered to the installment payment program for previously recognized ICMS, established by the State of Paraná through State Law No. 20946/2021, regulated by State Decree No. 10766/2022, wherein R\$92,249 debts were entered in its report of tax position, updated until September 2022 with fine, interest and monetary restatement. By adhering to said program, the Company reduced R\$41,696 in charges, with a consolidated balance of R\$50,553 at the adhesion date, to be paid in 60 monthly installments until September 2027, according to the mentioned program regulation. The Company has been paying the monthly installments on a regular basis, restated by the Selic rate.

12.3 Reconciliation of provision for income tax (IRPJ) and social contribution (CSLL)

	Parent Company		Consolidated	
	03.31.2023	03.31.2022	03.31.2023	03.31.2022
Income before IRPJ and CSLL	619,776	649,882	881,101	957,253
(-) Equity in income	(639,855)	(692,949)	(104,087)	(112,782)
	(20,079)	(43,067)	777,014	844,471
IRPJ and CSLL (34%)	6,827	14,643	(264,185)	(287,120)
Tax effects on:				
Interest on equity (JSCP)	-	-	-	1,323
Dividends	-	60	-	60
Non deductible expenses	(13)	(244)	(3,923)	(5,573)
Tax incentives	-	-	767	3,662
Unrecognized tax loss and negative basis of CSLL	-	-	(15,012)	(10,727)
Difference between tax bases of deemed profit and taxable profit	-	-	14,955	10,060
Effect of non taxable monetary variation (Selic) on undue tax payments	-	-	23,902	-
Others	-	-	(2,115)	853
Current IRPJ and CSLL	-	-	(161,823)	(273,849)
Deferred IRPJ and CSLL	6,814	14,459	(83,788)	(13,613)
Effective rate - %	33.9%	33.6%	31.6%	34.0%

13. Prepaid Expenses

Consolidated	03.31.2023	12.31.2022
Program for incentive to alternative energy sources - Proinfa	30,641	30,538
Insurance premiums	27,269	20,919
Others	12,112	8,629
	70,022	60,086
	Current	60,076
	Noncurrent	10

14. Judicial Deposits

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Taxes claims (14.1)	137,230	135,105	452,719	444,134
Labor claims	460	410	114,804	125,862
Civil claims				
Civil claims	-	-	39,789	39,597
Easements	-	-	16,369	14,726
Customers	-	-	4,739	4,862
	-	-	60,897	59,185
Others	3,372	3,232	3,417	3,277
	141,062	138,747	631,837	632,458

14.1 Tax judicial deposits

Of the Consolidated balance on March 31, 2023, R\$249,024 (R\$241,681 on December 31, 2022) refers to the challenge in court of the levy of social security contribution (INSS payable) on certain salary amounts. The liability is recorded under Other Tax Obligations (Note 12.2).

15. Investments

15.1 Changes in investments

Parent Company	Balance as of January 1, 2023	Equity (a)	Equity valuation adjustments	Investment/ AFAC	Amorti- zation	Dividends and JSCP	Balance as of March 31, 2023
Subsidiaries							
Copel GeT	12,790,070	421,237	-	-	-	-	13,211,307
Copel DIS	6,610,274	139,690	-	13,000	-	-	6,762,964
Copel SER	8,635	(817)	-	-	-	-	7,818
Copel COM	418,780	70,504	-	-	-	-	489,284
UEG Araucária (15.2)	55,414	(4,296)	-	-	-	-	51,118
Compagás (15.2)	284,135	13,221	-	-	-	-	297,356
Elejor (15.2)	-	130	(130)	-	-	-	-
Elejor - concession rights	9,990	-	-	-	(189)	-	9,801
	20,177,298	639,669	(130)	13,000	(189)	-	20,829,648
Joint Ventures							
Voltaia São Miguel do Gostoso I (15.3)	115,976	(1,241)	-	-	-	-	114,735
Voltaia São Miguel do Gostoso - authorization rights	8,937	-	-	-	(92)	-	8,845
Solar Paraná	7,156	113	-	-	-	48	7,317
	132,069	(1,128)	-	-	(92)	48	130,897
Associates							
Dona Francisca Energética (15.4)	28,043	1,032	-	-	-	-	29,075
Other	1,934	(1)	-	-	-	-	1,933
	29,977	1,031	-	-	-	-	31,008
	20,339,344	639,572	(130)	13,000	(281)	48	20,991,553

(a) Adjusted equity, resulting from Subsidiaries' capital deficiency

Consolidated	Balance as of January 1, 2023	Equity	Investment/ AFAC	Capital decrease	Amorti- zation	Dividends and JSCP	Balance as of March 31, 2023
Joint Ventures (15.3)							
Voltaia São Miguel do Gostoso I	115,976	(1,241)	-	-	-	-	114,735
Voltaia São Miguel do Gostoso - authorization rights	8,937	-	-	-	(92)	-	8,845
Caiuá	125,297	4,056	-	-	-	-	129,353
Integração Maranhense	192,502	9,450	10,780	-	-	-	212,732
Matrinchá	931,528	26,949	-	-	-	-	958,477
Guaraciaba	467,099	12,092	-	-	-	-	479,191
Paranaíba	263,979	9,352	-	-	-	134	273,465
Mata de Santa Genebra	692,260	22,308	-	-	-	-	714,568
Cantareira	473,369	15,816	-	-	-	-	489,185
Solar Paraná	7,156	113	-	-	-	48	7,317
	3,278,103	98,895	10,780	-	(92)	182	3,387,868
Associates							
Dona Francisca Energética (15.4)	28,043	1,032	-	-	-	-	29,075
Foz do Chopim Energética (15.4)	17,116	4,162	-	-	-	(5,008)	16,270
Other	1,934	(1)	-	-	-	-	1,933
	47,093	5,193	-	-	-	(5,008)	47,278
Investment property	535	-	-	-	(1)	-	534
	3,325,731	104,088	10,780	-	(93)	(4,826)	3,435,680

AFAC - Advance for future capital increase

JSCP - Interest on equity

15.2 Subsidiaries with non-controlling interests

15.2.1 Summarized financial information

Balance as of March 31, 2023	Compagás	Elejor	UEG Araucária
ASSETS	1,082,586	847,010	314,906
Current assets	281,751	231,441	82,545
Noncurrent assets	800,835	615,569	232,361
LIABILITIES	1,082,586	847,010	314,906
Current liabilities	395,791	112,442	46,340
Noncurrent liabilities	103,742	769,004	16,747
Equity	583,053	(34,436)	251,819
STATEMENT OF INCOME			
Net operating revenue	263,251	41,034	-
Operating costs and expenses	(219,345)	(22,273)	(21,760)
Financial results	(4,503)	(19,283)	598
Income tax and social contribution	(13,480)	1,114	-
Net income (loss)	25,923	592	(21,162)
Other comprehensive income	-	(186)	-
Total comprehensive income	25,923	406	(21,162)
STATEMENTS OF CASH FLOWS			
Cash flows from operating activities	53,927	(2,517)	(15,812)
Cash flows from investing activities	(2,809)	(32)	(907)
Cash flows from financing activities	(847)	-	-
TOTAL EFFECTS ON CASH AND CASH EQUIVALENTS	50,271	(2,549)	(16,719)
Cash and cash equivalents at the beginning of the year	61,059	185,916	64,991
Cash and cash equivalents at the end of the year	111,330	183,367	48,272
CHANGE IN CASH AND CASH EQUIVALENTS	50,271	(2,549)	(16,719)

To balance Compagas short-term financial capacity, which has negative net working capital, Management is monitoring and adopting measures to lengthen the debt. The loss recorded at UEG Araucária is due to the absence of revenue, given that the plant was not dispatched in the period, because of the positive hydrological scenario.

15.2.2 Changes in equity attributable to non-controlling shareholders

Participation in capital stock	Compagás 49%	Elejor 30%	UEG Araucária 18.8%	Consolidated
Balance as of January 1, 2023	272,995	(10,451)	51,317	313,861
Net income (loss)	12,701	177	(3,978)	8,900
Other comprehensive income	-	(56)	-	(56)
Balance as of March 31, 2023	285,696	(10,330)	47,339	322,705

15.3 Summarized information on the main joint ventures

	Voltalia	Caiuá	Integração Maranhense	Matrinchã	Guaraciaba	Paranaíba	Mata de Santa Genebra	Cantareira
Balance as of March 31, 2023								
ASSETS	236,407	339,171	616,345	3,012,430	1,607,296	1,988,157	3,726,706	1,856,198
Current assets	11,058	46,965	101,353	468,649	224,029	233,163	687,430	247,730
Cash and cash equivalents	10,957	17,476	33,877	162,610	61,948	63,732	1,002	87,864
Other current assets	101	29,489	67,476	306,039	162,081	169,431	686,428	159,866
Noncurrent assets	225,349	292,206	514,992	2,543,781	1,383,267	1,754,994	3,039,276	1,608,468
LIABILITIES	236,407	339,171	616,345	3,012,430	1,607,296	1,988,157	3,726,706	1,856,198
Current liabilities	2,253	23,499	32,713	227,693	159,349	128,297	142,379	84,730
Financial liabilities	-	6,850	11,489	132,482	45,793	61,981	100,398	60,685
Other current liabilities	2,253	16,649	21,224	95,211	113,556	66,316	41,981	24,045
Noncurrent liabilities	-	51,688	149,483	828,658	470,006	743,672	2,158,043	773,131
Financial liabilities	-	27,404	38,584	576,412	393,432	457,803	1,708,185	412,677
Other noncurrent liabilities	-	24,284	110,899	252,246	76,574	285,869	449,858	360,454
Equity	234,154	263,984	434,149	1,956,079	977,941	1,116,188	1,426,284	998,337
STATEMENT OF INCOME								
Net operating revenue	-	11,912	20,078	102,392	53,922	72,662	133,026	60,070
Operating costs and expenses	(13)	(1,491)	7,266	(7,742)	(4,303)	(5,657)	(11,575)	(1,388)
Financial results	192	(147)	(201)	(15,950)	(10,620)	(12,108)	(53,917)	(9,784)
Equity in earnings of investees	(2,675)	-	-	-	-	-	-	-
Income tax and social contribution	(39)	(1,995)	(7,857)	(23,703)	(14,320)	(16,722)	(23,008)	(16,620)
Net income (loss)	(2,535)	8,279	19,286	54,997	24,679	38,175	44,526	32,278
Other comprehensive income	-	-	-	-	-	-	-	-
Total comprehensive income	(2,535)	8,279	19,286	54,997	24,679	38,175	44,526	32,278
Investment interest - %	49.0	49.0	49.0	49.0	49.0	24.5	50.1	49.0
Investment book value	114,735	129,353	212,732	958,477	479,191	273,465	714,568	489,185

On March 31, 2023, the interest of Copel in the contingent liabilities classified as a possible loss is equivalent to R\$307,680 (R\$413,034 as of December 31, 2022).

15.4 Summarized information of the main associates

Balance as of March 31, 2023	Dona Francisca	Foz do Chopim
ASSETS	171,937	47,832
Current assets	10,544	8,277
Noncurrent assets	161,393	39,555
LIABILITIES	171,937	47,832
Current liabilities	17,955	2,344
Noncurrent liabilities	27,727	-
Equity	126,255	45,488
STATEMENT OF INCOME		
Net operating revenue	16,468	15,050
Operating costs and expenses	(10,223)	(2,990)
Financial results	(1,191)	50
Income tax and social contribution	(575)	(475)
Net income	4,479	11,635
Other comprehensive income	-	-
Total comprehensive income	4,479	11,635
Investment interest - %	23.03	35.77
Investment book value	29,075	16,270

On March 31, 2023, the interest of Copel in the contingent liabilities of its associates is equivalent to R\$2,924 (R\$2,581 as of December 31, 2022).

16. Property, Plant and Equipment

16.1 Property, plant and equipment by asset class

Consolidated		Accumulated		Accumulated		
	Cost	depreciation	03.31.2023	Cost	depreciation	12.31.2022
In service						
Reservoirs, dams and aqueducts	8,200,713	(4,961,888)	3,238,825	8,200,744	(4,925,970)	3,274,774
Machinery and equipment	10,358,881	(3,180,603)	7,178,278	8,951,061	(3,060,695)	5,890,366
Buildings	2,015,245	(1,168,417)	846,828	2,001,801	(1,160,549)	841,252
Land	512,531	(61,637)	450,894	510,681	(59,157)	451,524
Vehicles and aircraft	33,159	(30,942)	2,217	35,457	(33,115)	2,342
Furniture and fixtures	17,135	(11,007)	6,128	17,007	(10,871)	6,136
(-) Impairment (16.4)	(921,141)	-	(921,141)	(785,205)	-	(785,205)
(-) Special Obligations	(748)	359	(389)	(748)	330	(418)
	20,215,775	(9,414,135)	10,801,640	18,930,798	(9,250,027)	9,680,771
In progress						
Cost	402,257	-	402,257	575,080	-	575,080
(-) Impairment (16.4)	(14,879)	-	(14,879)	(186,383)	-	(186,383)
	387,378	-	387,378	388,697	-	388,697
	20,603,153	(9,414,135)	11,189,018	19,319,495	(9,250,027)	10,069,468

On March 25, 2023, the scheduled stoppage for inspection of the generating unit 3 of HPP GBM, a plant belonging to FDA, subsidiary of Copel GET, was concluded. An isolated fault was identified in the upper wear ring of the turbine rotor, so that this generating unit will remain unavailable to carrying out a diagnosis on the cause of the incident and the respective actions for its repair, when the return forecast for this generating unit will be updated. Eventual financial impacts related to non-generation or any reduction in the plant's assured energy can only be estimated after the completion of this work.

16.2 Changes in property, plant and equipment

Consolidated	Balance as of	Additions /		Loss on		Effects of business	Balance as of
	January 1, 2023	Impairment	Depreciation	disposal	Transfers	combination	March 31, 2023
						(Note 1.2)	
In service							
Reservoirs, dams and aqueducts	3,274,774	-	(35,935)	(14)	-	-	3,238,825
Machinery and equipment	5,890,366	-	(95,542)	(91)	244,117	1,139,428	7,178,278
Buildings	841,252	-	(9,135)	(501)	15,212	-	846,828
Land	451,524	-	(2,555)	(202)	2,127	-	450,894
Vehicles and aircraft	2,342	-	(125)	-	-	-	2,217
Furniture and fixtures	6,136	-	(148)	(1)	136	5	6,128
(-) Impairment (16.4)	(785,205)	35,568	-	-	(171,504)	-	(921,141)
(-) Special Obligations	(418)	-	29	-	-	-	(389)
	9,680,771	35,568	(143,411)	(809)	90,088	1,139,433	10,801,640
In progress							
Cost	575,080	39,758	-	(2)	(260,254)	47,675	402,257
(-) Impairment (16.4)	(186,383)	-	-	-	171,504	-	(14,879)
	388,697	39,758	-	(2)	(88,750)	47,675	387,378
	10,069,468	75,326	(143,411)	(811)	1,338	1,187,108	11,189,018

During the construction phase, loans, financing and debentures costs are capitalized. In the first 3 months of 2023 these costs totaled R\$362, at an average rate of 0.007% p.a. (R\$3,491, at an average rate of 0.09% p.a., in the same period of 2022).

16.3 Joint operations - consortiums

The amounts recorded under property, plant and equipment referring to the share of interest of Copel GeT in consortiums are shown below:

Joint operations	Share Copel GeT (%)	Annual average depreciation rate (%)	03.31.2023	12.31.2022
HPP Gov. Jayme Canet Júnior (Mauá) - Consórcio Energético Cruzeiro do Sul	51.0			
In service			859,882	859,882
(-) Accumulated depreciation		2.90	(294,973)	(288,728)
In progress			19,919	19,899
			584,828	591,053
HPP Baixo Iguaçu	30.0			
In service			695,624	693,487
(-) Accumulated depreciation		3.28	(92,976)	(87,278)
In progress			5,711	55,863
			608,359	662,072
			1,193,187	1,253,125

16.4 Impairment of generation segment assets

The assets with impairment balances recorded as of March 31, 2023 are the following:

Consolidated	Property, Plant and Equipment			Value in use
	Cost	Depreciation	Impairment	
HPP Colíder	2,568,864	(336,496)	(603,988)	1,628,380
UEGA	687,240	(390,191)	(108,132)	188,917
Consórcio Tapajós (a)	14,879	-	(14,879)	-
Power plants in Paraná	1,034,055	(113,612)	(209,021)	711,422
	4,305,038	(840,299)	(936,020)	2,528,719

(a) Project under development

The table below shows the changes in the impairment:

Consolidated	Balance as of January 1, 2023	Impairment / Reversal	Transfer	Balance as of March 31, 2023
In service				
HPP Colíder	(632,559)	28,571	-	(603,988)
UEGA	(108,132)	-	-	(108,132)
Power plants in Paraná	(44,514)	6,997	(171,504)	(209,021)
	(785,205)	35,568	(171,504)	(921,141)
In progress				
Consórcio Tapajós	(14,879)	-	-	(14,879)
Power plants in Paraná	(171,504)	-	171,504	-
	(186,383)	-	171,504	(14,879)
	(971,588)	35,568	-	(936,020)

In March 2023, the value in use calculation considered assumptions and budgets of the Company, and the discount rate after taxes that was maintained at 5.71% p.a., which derives from the WACC methodology for the electric energy generation segment. The review of the expected revenue from the sale of energy, which offset increases in operating costs and regulatory charges, and the change in book value allowed the partial reversal of the impairment.

The transfer refers to the accumulated impairment balance of TPP Figueira.

16.5 New plants under construction

16.5.1 SHP Bela Vista

With estimated investment of R\$224,673, this small hydroelectric power plant (SHP), with installed capacity of 29.81 MW and assured energy of 18.61 MW average, was built on the Chopim River, in the municipalities of São João and Verê, located in the southwest region of the State of Paraná.

The participation in the A-6 auction held on August 31, 2018, led to sale of 14.7 MW average in regulated contracts at the original price of R\$195.70/MWh. The energy sale contracts provide for beginning of energy supply on January 1, 2024, with a 30-year term and annual adjustment by reference to IPCA variation.

The works started in August 2019 and the entry into commercial operation of three generating units took place in 2021. The generating center (Stream Diver) has been cleared for the start of test operation as of March 28, 2023.

17. Intangible assets

Consolidated	03.31.2023	12.31.2022
Concession agreement - distribution of electricity (17.1)	7,510,408	7,257,827
Generation concession agreements/ authorization (17.2)	3,009,784	2,252,615
Concession agreement - piped gas distribution (17.3)	713,270	726,107
Other (17.4)	41,255	41,178
	11,274,717	10,277,727

Management did not identify evidence that would justify the need to recognize impairment of intangible assets.

17.1 Power distribution service concession

Consolidated	Intangible asset in service	Special liabilities in service	Total
Balance as of January 1, 2023	10,033,251	(2,775,424)	7,257,827
Transfers from contract assets (Note 10.1)	426,493	(42,014)	384,479
Amortization quotas - concession (a)	(150,826)	39,795	(111,031)
Amortization quotas - PIS/Pasep and Cofins credits	(2,620)	-	(2,620)
Loss on disposal	(18,247)	-	(18,247)
Balance as of March 31, 2023	10,288,051	(2,777,643)	7,510,408

(a) Amortization during the concession period after the transfer to intangible assets in service of useful life of the assets, whichever the lower.

The balance refers to the portion of infrastructure that will be used during concession, net of special liabilities. The special liabilities represent the resources related to the financial participation of consumers, the Federal, State and Municipal Governments, destined for investments in projects related to the concession, and are not onerous liabilities or shareholder credits.

17.2 Generation concession agreements

Consolidated	Concession contract (a)	Concession and authorization rights/ goodwill	Total
Balance as of January 1, 2023	1,530,777	721,838	2,252,615
Effect of acquisition of control (Note 1.2)	-	615,648	615,648
Technical goodwill arising from the business combination (Note 1.2)	-	204,676	204,676
Amortization quotas - concession and authorization (b)	(57,125)	(6,030)	(63,155)
Balance as of March 31, 2023	1,473,652	1,536,132	3,009,784

(a) Includes the balances of use of public asset and hydrological risk renegotiation

(b) Amortization during the concession/authorization as of the start of commercial operations of the enterprises.

17.3 Piped gas distribution service concession

Balance as of January 1, 2023	726,107
Transfers from contract assets (Note 10.2)	2,092
Amortization quotas - concession (a)	(14,929)
Balance as of March 31, 2023	713,270

(a) Amortization by the expected useful life of the asset (30 years for gas distribution operation assets and 10 years for other assets) limited to the final term of the concession.

17.4 Other intangible assets

Assets consisting of software purchased from third parties or generated internally, measured at total acquisition cost minus amortization expenses.

Consolidated			Total
	in service	in progress	
Balance as of January 1, 2023	12,848	28,330	41,178
Business combination effects (Note 1.2)	4	-	4
Acquisitions	-	2,044	2,044
Capitalizations for intangible in service	6,161	(6,161)	-
Amortization quotas (a)	(1,966)	-	(1,966)
Loss on disposal	-	(5)	(5)
Balance as of March 31, 2023	17,047	24,208	41,255

(a) Annual amortization rate: 20%.

18. Payroll, Social Charges and Accruals

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Social security liabilities				
Taxes and social contribution	1,024	1,262	33,043	42,829
Social security charges on paid vacation and 13th salary	837	773	17,381	15,547
	1,861	2,035	50,424	58,376
Labor liabilities				
Payroll, net (a)	-	875	35	47,462
Vacation and 13 th salary	2,483	2,543	93,745	95,930
Provisions for performance and profit sharing	2,170	688	102,664	47,726
Voluntary dismissal program	56	458	497	2,895
Other liabilities	8	6	466	400
	4,717	4,570	197,407	194,413
	6,578	6,605	247,831	252,789

(a) The balance as of December 31, 2022 refers to the provision for the salary adjustment referring to the Collective Labour Agreement approved in January 2023, with retroactive effects to October 2022 (base date of the agreement).

19. Accounts Payable to Suppliers

Consolidated		
	03.31.2023	12.31.2022
Energy power	1,039,114	1,208,733
Materials and supplies	677,003	626,710
Natural gas for resale	82,569	93,696
Charges for use of grid system	289,033	286,331
	2,087,719	2,215,470
	Current	2,090,022
	Noncurrent	125,448

20. Loans and Financing

Contracts	Company	Allocation	Guarantees	Issue Date	Number of installment	Final maturity	Payment of charges	Contractual financial charges p.a.	Effective interest rate p.a.	Contract amount	03.31.2023	12.31.2022
LOCAL CURRENCY Banco do Brasil CCB 265.901.903	Copel DIS	Working capital.	Credit assignment	06.29.2022	2	06.24.2025	Quarterly	DI + spread 1,25%	DI + spread 2,14%	750,000	752,092	751,673
											752,092	751,673
Caixa Econômica Federal Commercial paper (a)	Copel GET	Partial amortization of the 3 rd , 4 th and 5 th debenture issues and meeting various short-term obligations, including energy purchases, regulatory obligations and dividends.	Personal guarantee	09.10.2022	2	09.10.2025	Half-yearly	DI + spread 1,22%	DI + spread 1,31%	1,000,000	1,008,373	1,037,946
											1,008,373	1,037,946
Caixa Econômica Federal 415.855-22/14	Copel DIS	Rural Electricity Program - Luz para Todos.	Own revenue; issue of promissory notes and commercial duplicates.	03.31.2015	120	12.08.2026	Monthly	6.0%	6.0%	16,984	7,185	7,664
											7,185	7,664
Banco do Nordeste do Brasil 35202166127989	Jandaira I	Implementation of Jandaira Wind Complex.	Bank guarantee	05.31.2021	192	06.15.2038	Monthly	2.7086% + IPCA ⁽¹⁾	3.0107% + IPCA	21,687	17,720	17,969
35202164527986	Jandaira II			05.31.2021	192	06.15.2038	Monthly	2.2161% + IPCA ⁽¹⁾ and 2.7086% + IPCA ⁽¹⁾	3.0107% + IPCA	56,421	46,001	46,644
35202162927987	Jandaira III			05.31.2021	192	06.15.2038	Monthly	2.7086% + IPCA ⁽¹⁾	3.0107% + IPCA	65,158	53,098	53,843
35202160027984	Jandaira IV			05.31.2021	192	06.15.2038	Monthly	2.2161% + IPCA ⁽¹⁾ and 2.7086% + IPCA ⁽¹⁾	3.0107% + IPCA	65,421	53,312	54,053
35201915725525	Potiguar B141	Implementation of Vilas Wind Complex.	Fiduciary assignment of credit rights; fiduciary assignment of rights under the O&M contract; fiduciary assignment of rights arising from the authorization; pledge of shares; fiduciary alienation of project machinery and equipment; 100% bank guarantee; fiduciary assignment of the Debt Service Reserve Accounts; fiduciary assignment of the operating reserve account (O&M); Shareholder support agreement	04.04.2019	216	04.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,138	88,969	89,685
35201922425522	Potiguar B142			04.04.2019	216	04.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,213	88,993	89,709
35201926525533	Potiguar B143			04.11.2019	216	04.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,138	88,662	89,376
35201910625534	Ventos de Vila Paraiba IV			04.18.2019	216	05.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,138	90,162	91,004
352020148727169	Potiguar B61			08.11.2020	216	08.15.2040	Monthly	IPCA + 1.4865%	IPCA + 1.4865%	163,886	185,400	186,552
18120185433499	Aventura II	Implementation of Aventura Wind Complex	Bank guarantee	12.28.2018	204	01.15.2039	Monthly	IPCA + 2.5707%	IPCA + 2.5707%	69,338	63,285	-
18120185473500	Aventura III			12.28.2018	204	01.15.2039	Monthly	IPCA + 2.5707%	IPCA + 2.5707%	82,490	75,557	-
18120185483501	Aventura IV			12.28.2018	204	01.15.2039	Monthly	IPCA + 2.5707%	IPCA + 2.5707%	97,887	89,030	-
18120185493502	Aventura V			12.28.2018	204	01.15.2039	Monthly	IPCA + 2.5707%	IPCA + 2.5707%	98,684	90,414	-
18720193955241	SRMN I	Implementation of Santa Rosa & Mundo Novo Wind Complex (SRMN)	Bank guarantee	04.30.2019	252	05.15.2043	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	110,922	119,797	-
18720193965240	SRMN II			04.30.2019	252	05.15.2043	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	97,057	104,159	-
18720193875242	SRMN III			04.30.2019	252	05.15.2043	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	110,922	120,905	-
18720193985243	SRMN IV			04.30.2019	252	05.15.2043	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	110,922	121,889	-
18720193995244	SRMN V			04.30.2019	252	05.15.2043	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	83,192	90,300	-
											1,587,653	718,835
Banco do Brasil - BNDES Transfer 21/02000-0	Copel GeT	Implementation of Mauá HPP.	Revenue from energy sales from the plant.	04.16.2009	179	01.15.2028	Monthly	2.13% above TJLP	2.13% above TJLP	169,500	57,919	60,720
											57,919	60,720

(a) Commercial paper, single series, for public distribution with restricted efforts. Guarantor: Copel. Trustee: Pentágono S.A. DTVM.

(1) - IPCA used in the calculation of interest and not in the update of the principal.

(continued)

Contracts	Company	Allocation	Guarantees	Issue Date	Number of installment	Final maturity	Payment of charges	Contractual financial charges p.a.	Effective interest rate p.a.	Contract amount	03.31.2023	12.31.2022		
BNDES														
820989.1	Copel GeT	Implementation of Mauá HPP.	Revenue from energy sales from the plant.	03.17.2009	179	01.15.2028	Monthly	1.63% above TJLP	1.63% above TJLP	169,500	57,919	60,719		
1120952.1		Implementation of transmission line between Foz do Iguaçu and Cascavel Oeste substations.	Assignment of receivables; revenue from energy transmission services.	12.16.2011	168	04.15.2026	Monthly	1.82% and 1.42% above TJLP	1.82% and 1.42% above TJLP	44,723	10,381	11,186		
1220768.1		Implementation of Cavernoso II SHP.	Revenue from energy sales from the plant.	09.28.2012	192	07.15.2029	Monthly	1.36% above TJLP	1.36% above TJLP	73,122	30,896	32,012		
13211061		Implementation of Colider HPP.	Assignment of receivables		12.04.2013	192	10.15.2031	Monthly	0% and 1.49% above TJLP	6.43% and 7.68%	1,041,155	600,461	615,968	
13210331		Implementation of Cerquilha III substation.			12.03.2013	168	08.15.2028	Monthly	1.49% and 1.89% above TJLP	1.49% and 1.89% above TJLP	17,644	7,194	7,502	
15206041		Implementation of transmission line Assis - Paraguaçu Paulista II.			12.28.2015	168	06.15.2030	Monthly	2.42% above TJLP	9.04%	34,265	15,651	16,139	
15205921		Implementation of transmission lines Londrina - Figueira and Salto Osório - Foz do Chopim.			12.28.2015	168	12.15.2029	Monthly	2.32% above TJLP	8.93%	21,584	9,231	9,542	
18205101		Implementation of Baixo Iguaçu HPP.			11.22.2018	192	06.15.2035	Monthly	1.94% above TJLP	8.50%	194,000	157,247	159,948	
19207901- A+B+E+F+G+H		Implementation of transmission facilities for the line: substation Medianeira; substation Curitiba Centro and Curitiba Uberaba and substation Andará Leste.			06.03.2020	279	12.15.2043	Monthly	IPCA + 4.8165%	IPCA + 4.8570%	206,882	202,709	200,932	
19207901- C+D+H+J		Implementation of transmission facilities for the line: transmission line Curitiba Leste - Blumenau and Baixo Iguaçu - Realeza.			06.03.2020	267	12.15.2043	Monthly	IPCA + 4.8165%	IPCA + 4.8570%	225,230	190,535	188,869	
14205611-C	Copel DIS	Preservation of business, improvements, operating support and general investments in the expansion and consolidation of projects and social investment programs of companies (ISE).			Surety of Copel; assignment of revenues and indemnity rights under the concession.	12.15.2014	113	06.15.2024	Monthly	6.0%	6.0%	78,921	9,798	11,757
14.2.1271.1	Santa Maria	Construction and implementation of wind generating plants.			Pledge of shares; assignment of receivables from energy sales from the project; assignment of machinery and equipment.	06.01.2015	192	08.15.2031	Monthly	1.66% above TJLP	8.26%	71,676	33,247	34,125
14.2.1272.1	Santa Helena					06.01.2015	192	08.15.2031	Monthly	1.66% above TJLP	8.26%	82,973	36,074	37,027
11211521	GE Farol		03.19.2012	192		06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	54,100	28,996	29,888		
11211531	GE Boa Vista		03.19.2012	192		06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	40,050	21,436	22,096		
11211541	GE S.B. do Norte		03.19.2012	192		06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	90,900	48,616	50,112		
11211551	GE Olho D'Água		03.19.2012	192		06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	97,000	51,922	53,519		
18204611	Cutia		10.10.2018	192		07.15.2035	Monthly	2.04% above TJLP	8.37%	619,405	538,621	543,337		
13212221 - A	Costa Oeste	Implementation of transmission line between Cascavel Oeste and Umuarama Sul substations and implementation of Umuarama Sul substation.	Assignment of receivables; 100% of pledged shares.	12.03.2013	168	11.30.2028	Monthly	1.95% + TJLP	1.95% + TJLP	27,634	12,339	12,842		
13212221 - B				12.03.2013	106	09.30.2023	Monthly	3.5%	3.5%	9,086	399	598		
14205851 - A	Marumbi	Implementation of transmission line between Curitiba and Curitiba Leste and implementation of Curitiba Leste substation.		07.08.2014	168	06.30.2029	Monthly	2.00% + TJLP	2.00% + TJLP	33,460	16,380	16,981		
14205851 - B				07.08.2014	106	04.30.2024	Monthly	6.0%	6.0%	21,577	2,454	3,020		
Total local currency											5,495,728	4,694,957		
											Gross debt	5,495,728	4,694,957	
											(-) Transaction cost	(45,686)	(44,594)	
											Net debt	5,450,042	4,650,363	
											Current	336,274	278,838	
											Noncurrent	5,113,768	4,371,525	

DI - Interbank Deposit Rate
 IPCA - Inflation Index
 TJLP - Long term interest rate

20.1 Breakdown of loans and financing by currency and index

Consolidated		03.31.2023	%	12.31.2022	%
	indexes at period end (%)				
Local currency					
TJLP	7.37	1,716,820	31.51	1,755,556	37.75
CDI	13.65	1,745,205	32.02	1,772,718	38.12
IPCA	4.65	1,968,181	36.11	1,099,050	23.63
Without indexer (annual fixed rate)	-	19,836	0.36	23,039	0.50
		5,450,042	100.00	4,650,363	100.00
		5,450,042	100.00	4,650,363	100.00

20.2 Maturity of noncurrent installments

03.31.2023	Consolidated		
	Gross debt	(-) Transaction cost	Net debt
2024	568,385	(6,829)	561,556
2025	1,633,968	(5,845)	1,628,123
2026	262,278	(2,350)	259,928
2027	266,033	(2,351)	263,682
2028	251,782	(2,364)	249,418
After 2028	2,167,938	(16,877)	2,151,061
	5,150,384	(36,616)	5,113,768

20.3 Changes in loans and financing

Consolidated	Total
Balance as of January 1, 2023	4,650,363
Business combination effects (Note 1.2)	875,738
Charges	136,563
Monetary and exchange variations	12,666
Amortization - principal	(59,216)
Payment - charges	(166,072)
Balance as of March 31, 2023	5,450,042

20.4 Covenants

Loans and financing agreements contain clauses that require economic and financial ratios to be maintained within pre-determined parameters, requiring annual fulfillment and other conditions to be complied with, such as not changing the Company's interest in the capital stock of subsidiaries that would represent change of control without prior consent. The non-compliance with the contracted conditions may result in fines or in the declaration of the early maturity of debts.

On December 31, 2022, all financial indicators measured annually were fully met. On March 31, 2023, all other agreed indicators and conditions were fully met.

The financial covenants contained in the agreements are presented below:

Company	Contractual Instrument	Annual financial ratios	Limit
Copel GeT	BNDES Finem No. 820989.1 - Mauá Banco do Brasil No. 21/02000-0 - Mauá	EBITDA / Net financial results	≥ 1.3
	Commercial paper	Debt service coverage ratio Consolidated net debt / Consolidated EBITDA	≥ 1.5 ≤ 3.5
Copel DIS	BNDES Finem No. 14205611	Financial indebtedness / EBITDA	≤ 4.0
Santa Maria	BNDES Finem No. 14212711	Debt service coverage ratio	≥ 1.3
Santa Helena	BNDES Finem No. 14212721		
São Bento Energia, Investimento e Participações	BNDES Assignment Agreement	Debt service coverage ratio	≥ 1.3
GE Boa Vista S.A.	BNDES Finem No. 11211531		
GE Farol S.A.	BNDES Finem No. 11211521		
GE Olho D'Água S.A. GE São Bento do Norte S.A.	BNDES Finem No. 11211551 BNDES Finem No. 11211541		
Cutia	BNDES Finem No. 18204611	Debt service coverage ratio (a)	≥ 1.2
Costa Oeste	BNDES Finem No. 13212221	Debt service coverage ratio	≥ 1.3
Marumbi	BNDES Finem No. 14205851	Debt service coverage ratio	≥ 1.3

Financing for businesses - Finem

(a) financial ratio calculated based on the amounts of the consolidated financial statements of Cutia Empreendimentos Eólicos S.A. The contract establishes that, should the index be in the range between 1.10 and 1.20, the value of the funds invested in the Reserve Account must be complemented so that the total reaches the index of 1.20, within 2 days of the release of the financial statements.

21. Debentures

Company	Issue	Characteristics	Allocation	Guarantees	Issue Date	Number of installment	Final maturity	Payment of charges	Contractual financial charges p.a.	Effective interest rate p.a.	Contract amount	03.31.2023	12.31.2022
Copel	8 th	(a)	Payment of the 6 th issue of debentures and working capital increase	Personal guarantee	06.14.2019	1	06.14.2022	Half-yearly	106.0% of DI	110.93% of DI	500,000	-	-
	3 rd	(a)	Working capital or used to make investments in the issuer.		10.20.2017	3	10.20.2022	Half-yearly	126.0% of DI	131.21% of DI	1,000,000	-	-
	4 th	(a)	Full early redemption of the 4 th issue of the Company's trade promissory notes and partial payment of the 1 st amortization installment of the 2 nd issue of debentures.		07.23.2018	3	07.23.2023	Half-yearly	126.0% of DI	133.77% of DI	1,000,000	343,509	357,573
	5 th	(b)	Reimbursement of expenses related to the construction of the Transmission Lines Araraquara II - Taubaté, Assis - Londrina and Foz do Chopim.		09.25.2018	5	09.15.2025	Half-yearly	IPCA + 7.6475%	IPCA + 8.3295%	290,000	226,542	225,643
	6 th (1 st serie)		Full early redemption of the 5 th issue of the Company's trade promissory notes and partial payment of the 2 nd amortization installment of the 2 nd issue of debentures.		07.15.2019	2	07.15.2024	Half-yearly	109.0% of DI	111.25% of DI	800,000	823,357	852,816
	6 th (2 nd serie)		Reimbursement of expenses related to the Colider HPP and Baixo Iguaçu HPP projects		07.15.2019	1	07.15.2025	Half-yearly	IPCA + 3.90%	IPCA + 4.46%	200,000	254,423	251,363
	7 th (1 st serie)		Reinforcement of the Issuer's working capital; amortization and/or reimbursement of cash of the principal portion of the 3 rd and 4 th issue of debentures.		10.15.2021	2	10.15.2026	Half-yearly	DI + spread 1.38%	DI + spread 1.45%	1,133,363	1,209,050	1,166,982
Copel GeT	7 th (2 nd serie)	(c)	Investments for expansion, renovation or improvement and/or reimbursement of expenses within the scope of the Projects: Improvements of Gov. Bento Munhoz da Rocha Netto HPP; Implementation of the Assets of Lot "E", from Aneel Auction No. 05/2015; Investments in Mata de Santa Genebra Transmissão S.A. and Bela Vista Geração de Energia S.A.	Personal guarantee	10.15.2021	3	10.15.2031	Half-yearly	IPCA + 5.7138%	IPCA + 6.1033%	366,637	412,287	397,825
	8 th (1 st serie)		Acquisition of Santa Rosa & Mundo Novo Wind Complex (SRMN) and Aventura Wind Complexes.		01.15.2023	2	01.15.2030	Half-yearly	DI + spread 1.40%	DI + spread 1.41%	1,100,000	1,126,951	-
	8 th (2 nd serie)		Reimbursement of investment expenses and/or contributions in the scope of the Jandairas I, II, III and IV Wind Power Generating Plants Projects.		01.15.2023	3	01.15.2035	Half-yearly	IPCA +6.8226%	IPCA +7.5817%	200,000	205,449	-
	3 rd	(a)	Working capital or used to make investments in the issuer.		10.20.2017	2	10.20.2022	Half-yearly	126.0% of DI	130.85% of DI	500,000	-	-
	4 th	(a)	Working capital and payment of the 1 st installment of amortization of the 2 nd issue of debentures.		09.27.2018	3	09.27.2023	Half-yearly	DI + spread 2.70%	CDI + 3.96%	1,000,000	334,153	346,895
	5 th (1 st serie)	(c)	Investment for expansion, renovation or improvement and reimbursement of expenses of the Issuer's electricity distribution network linked to concession contract No. 46/1999 of ANEEL.		11.15.2019	3	11.15.2027	Half-yearly	IPCA + 4.20%	IPCA + 4.61%	500,000	638,376	618,209
	5 th (2 nd serie)	(c)	Reinforcement of working capital and recomposition of cash by the final amortization of the 2 nd issue of debentures.		11.15.2019	2	11.15.2022	Half-yearly	DI + spread 1.45%	CDI + 1.65%	350,000	-	-
	6 th (1 st serie)	(c)	Reinforcement of working capital and amortization of the first installment of the principal of the debentures of each of the Issuer's following issues: 3 rd , 4 th and 5 th Issue.	Personal guarantee	06.16.2021	2	06.15.2026	Half-yearly	CDI + spread 1.95%	CDI + 2.02%	1,000,000	1,044,193	1,006,449
	6 th (2 nd serie)	(c)	Investment for expansion, renovation or improvement and reimbursement of expenses of the Issuer's electricity distribution network linked to concession contract No. 46/1999 of ANEEL.		06.16.2021	3	06.15.2031	Half-yearly	IPCA + 4.7742%	IPCA + 5.1564%	500,000	578,954	559,894
	7 th (1 st serie)	(e)	Reinforcement of working capital; redemption of 3 rd issue debentures; amortization of the 2 nd installment of the principal of the 4 th and 5 th issuance.		05.15.2022	2	05.15.2025	Half-yearly	CDI + 1.21%	CDI + 1.28%	300,000	316,256	305,380
	7 th (2 nd serie)	(e)	Investments for expansion, renovation or improvement and/or reimbursement of expenses of the issuer's electricity distribution network, linked to Aneel's Concession Agreement No. 46/1999.		05.15.2022	2	05.15.2027	Half-yearly	CDI + 1.36%	CDI + 1.42%	901,450	950,828	917,789
	7 th (3 rd serie)	(e)	Investments for expansion, renovation or improvement and/or reimbursement of expenses of the issuer's electricity distribution network, linked to Aneel's Concession Agreement No. 46/1999.		05.15.2022	3	05.15.2032	Half-yearly	IPCA + 6.1732%	IPCA + 6.6587%	298,550	312,520	301,830
Brisa Potiguar	2 nd (1 st serie)	(d)	Implementation of wind generating plants.	Real and personal guarantee and pledge of Copel GeT shares.	03.24.2016	192	07.15.2032	Monthly	TJLP + 2.02%	TJLP + 2.02%	147,575	89,368	91,468
	2 nd (2 nd serie)	(d)	Implementation of wind generating plants.		03.24.2016	192	07.15.2032	Monthly	IPCA + 9.87%	IPCA + 10.92%	153,258	125,508	126,067
Cutia	1 st	(b)	Construction and implementation of wind generating plants.	Personal guarantee	03.20.2019	26	12.15.2031	Half-yearly	IPCA + 5.8813%	IPCA + 6.83%	360,000	374,161	360,894
											Gross debt	9,365,885	7,887,077
											(-) Transaction cost	(89,224)	(83,222)
											Net debt	9,276,661	7,803,855
											Current	1,468,414	1,346,347
											Noncurrent	7,808,247	6,457,508

(a) Simple debentures, single series, not convertible into shares, unsecured, for public distribution with restricted placement efforts, according to CVM No. 476. Guarantor: Copel. Trustee: Pentágono S.A. DTVM.

(b) Simple debentures, single series, not convertible into shares, with security interest and additional personal guarantee, for public distribution with restricted efforts, pursuant to CVM Instruction No. 476. Guarantor: Copel. Trustee: Pentágono S.A. DTVM.

(c) Simple debentures, two series, not convertible into shares, unsecured, for public distribution with restricted placement efforts, according to CVM No. 476. Guarantor: Copel. Trustee: Pentágono S.A. DTVM.

(d) Simple debentures, two series, not convertible into shares, issued privately. Companies: Nova Asa Branca I, Nova Asa Branca II, Nova Asa Branca III, Nova Eurús and Ventos de Santo Uriel. Guarantor: Copel. They have no trustee.

(e) Simple debentures, three series, not convertible into shares, unsecured, with additional personal guarantee, for public distribution with restricted placement efforts, pursuant to CVM Instruction No. 476. Guarantor: Copel. Trustee: Pentágono S.A. DTVM.

21.1 Maturity of noncurrent installments

03.31.2023	Consolidated		
	Gross debt	(-) Transaction cost	Net debt
2024	667,583	(10,715)	656,868
2025	1,811,077	(12,551)	1,798,526
2026	1,795,557	(10,286)	1,785,271
2027	724,305	(8,704)	715,601
2028	64,063	(7,123)	56,940
After 2028	2,817,003	(21,962)	2,795,041
	7,879,588	(71,341)	7,808,247

21.2 Changes in debentures

	Consolidated
Balance as of January 1, 2023	7,803,855
Funding	1,300,000
(-) Transaction costs	(11,325)
Charges and monetary variations	332,388
Amortization - principal	(5,688)
Payment - charges	(142,569)
Balance as of March 31, 2023	9,276,661

21.3 Covenants

The issued debentures contain clauses that require the maintenance of certain economic and financial ratios within pre-determined parameters, requiring annual fulfillment and other conditions to be complied with, such as not changing the Company's interest in the capital stock that would represent change of control without prior consent from the debenture holders; not paying out dividends or interest on capital if it is in arrears in relation to honoring any of its financial obligations or not maintaining the financial ratios as determined without prior written consent of the debenture holders. The non-compliance with the contracted conditions may imply the need to request consent from the debenture holders or the declaration of early maturity of the debts.

On December 31, 2022, all financial indicators measured annually were fully met, except for the subsidiaries Ventos de Santo Uriel and Nova Asa Branca III which did not meet the Debt Service Coverage Ratio (ICSD) of 1.3. However, the Company preventively requested and received, on December 30, 2022, according to letter from BNDES AE/DEENE2 No. 061/2022, the commitment of the development banking institution not to declare the early maturity of the debenture deeds, based on the performance of this index in fiscal year 2022. On March 31, 2023, all other agreed indicators and conditions were fully met.

The financial covenants contained in the debenture agreements are presented as follows:

Company	Contractual Instrument	Annual financial ratio	Limit
Copel GeT	4 th issue of Debentures	Consolidated net debt / Consolidated EBITDA Debt service coverage ratio	≤ 3.5 ≥ 1.5
	5 th issue of Debentures		
	6 th issue of Debentures		
	7 th issue of Debentures		
	8 th issue of Debentures		
Copel DIS	4 th issue of Debentures		
	5 th issue of Debentures		
	6 th issue of Debentures		
	7 th issue of Debentures		
Nova Asa Branca I Nova Asa Branca II Nova Asa Branca III Nova Eurus IV Ventos de Santo Uriel	2 nd issue of Debentures	Debt service coverage ratio	≥ 1.3
Cutia	1 st issue of Debentures	Debt service coverage ratio (a)	≥ 1.2

22. Post-employment Benefits

The Company and its subsidiaries sponsor private retirement and pension plans (Unified Plan and Plan III) and Healthcare Plan for medical and dental care ("ProSaúde II" and "ProSaúde III" Plans) for their active employees and their legal dependents. The lifetime sponsorship of the Healthcare Plan for retirees, pensioners and legal dependents is only applied to "Prosaúde II" plan participants. Fundação Copel de Previdência e Assistência is the entity that manages these plans.

22.1 Pension plan

The Unified Plan is a Defined Benefit plan - BD in which the income is predetermined, according to each individual's salary. This plan is closed for new participants since 1998.

The Plan III, the only plan available for new participants, is a Variable Contribution - CV plan in the contributory phase and, after retirement, it becomes a Defined Benefit - BD plan.

22.2 Healthcare Plan

The Company and its subsidiaries allocate resources for the coverage of healthcare expenses incurred by their employees and their dependents, within rules, limits and conditions set in "ProSaúde II" and "ProSaúde III" Plans' regulations. Coverage includes periodic medical exams in both plans and is extended to all retirees and pensioners for life only in the "ProSaúde II" plan.

22.3 Statement of financial position and statement of income

Amounts recognized in liabilities, under Post-employment benefits, are summarized below:

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Pension plans	1	8	685	949
Healthcare plans	26,755	26,839	1,080,573	1,069,088
	26,756	26,847	1,081,258	1,070,037
Current	3,827	2,957	86,404	73,814
Noncurrent	22,929	23,890	994,854	996,223

Amounts recognized in the statement of income are shown below:

	Parent Company		Consolidated	
	03.31.2023	03.31.2022	03.31.2023	03.31.2022
Employees				
Pension plans	565	662	14,245	14,509
Healthcare plan - post employment	801	438	32,532	35,074
Healthcare plan - active employees	395	477	18,893	18,170
	1,761	1,577	65,670	67,753
Management				
Pension plans	163	165	283	295
Healthcare plan	19	17	45	37
	182	182	328	332
	1,943	1,759	65,998	68,085

22.4 Changes in post-employment benefits

	Parent Company	Consolidated
Balance as of January 1, 2023	26,847	1,070,037
Appropriation of actuarial calculation	801	32,532
Appropriation of pension and healthcare contributions	1,211	35,950
Amortizations	(2,103)	(57,261)
Balance as of March 31, 2023	26,756	1,081,258

23. Sectorial Charges Payable

Consolidated	03.31.2023	12.31.2022
Energy Development Account - CDE	37,815	41,122
Global Reversal Reserve - RGR	4,523	5,366
	42,338	46,488

24. Research and Development and Energy Efficiency

In accordance with Law No. 9,991/2000 and supplementary regulations, concession operators and licensees of electric power generation and transmission are required to allocate annually the percentage of 1% of their net operating regulatory revenue to research and development of the electricity sector activities, and the electric power distribution concession operators must segregate this same percentage into the research and development and energy efficiency programs of the electricity sector.

The registered balances of Research and Development - R&D and Energy Efficiency Program - EEP are shown in the table below:

Consolidated	Disbursed and not completed	Balance to be collected	Balance to disburse	Balance as of 03.31.2023	Balance as of 12.31.2022
Research and Development - R&D					
FNDCT	-	8,424	-	8,424	6,588
MME	-	4,213	-	4,213	3,314
R&D	232,225	3,348	28,559	264,132	260,243
	232,225	15,985	28,559	276,769	270,145
Energy efficiency program - EEP					
Procel	-	13,419	-	13,419	11,960
EEP	151,809	743	189,633	342,185	332,653
	151,809	14,162	189,633	355,604	344,613
	384,034	30,147	218,192	632,373	614,758
			Current	376,147	370,244
			Noncurrent	256,226	244,514

National Fund for Scientific and Technological Development - FNDCT

National Program of Electricity Conservation - Procel

24.1 Changes in R&D and EEP balances

Consolidated	FNDCT	MME	R&D	Procel	EEP	Total
Balance as of January 1, 2023	6,588	3,314	260,243	11,960	332,653	614,758
Additions	12,685	6,342	12,688	1,444	5,776	38,935
Performance agreement	-	-	-	-	1,268	1,268
Interest rate (Note 32)	-	-	1,249	15	6,042	7,306
Payments	(10,849)	(5,443)	(2,332)	-	(2,895)	(21,519)
Concluded projects	-	-	(7,716)	-	(659)	(8,375)
Balance as of March 31, 2023	8,424	4,213	264,132	13,419	342,185	632,373

25. Accounts Payable Related to Concessions

Consolidated	Company	Grant	Signature	Closing	Discount rate	Annual Adjustment	03.31.2023	12.31.2022	
HPP Mauá	Copel GeT	06.29.2007	07.03.2007	05.2047	5.65% p.y.	IPCA	21,959	21,587	
HPP Colider	Copel GeT	12.29.2010	01.17.2011	01.2046	7.74% p.y.	IPCA	31,180	30,518	
HPP Baixo Iguaçu	Copel GeT	07.19.2012	08.20.2012	01.2047	7.74% p.y.	IPCA	9,222	9,050	
HPP Guaricana	Copel GeT	03.03.2020	03.03.2020	03.2025	7.74% p.y.	IPCA	2,021	2,200	
HPP Fundão and HPP Santa Clara	Elejor	10.23.2001	10.25.2001	05.2037	11.00% p.y.	IGPM	871,561	874,187	
							935,943	937,542	
							Current	105,228	105,003
							Noncurrent	830,715	832,539

Discount rate applied to calculate present value

Real and net discount rate, compatible with the estimated long-term rate, not being linked to the expectation of return from the project.

Payment to the federal government

Monthly installments equivalent to 1/12 of the annual payment restated, as defined in the concession agreement.

25.1 Changes in accounts payable related to concessions

Balance as of January 1, 2023	937,542
Adjustment to present value	(3,034)
Monetary variations	30,484
Payments	(29,049)
Balance as of March 31, 2023	935,943

26. Right-of-use Asset and Lease Liability

26.1 Right-of-use asset

Consolidated	Balance as of January 1, 2023	Additions	Remeasurement adjustment	Amortization	Loss on disposal	Balance as of March 31, 2023
Real estate	136,489	854	(1,361)	(2,580)	(89)	133,313
Vehicles	113,018	8,301	4,606	(13,633)	-	112,292
Equipment	11,873	112	-	(2,556)	-	9,429
	261,380	9,267	3,245	(18,769)	(89)	255,034

26.2 Lease liability

26.2.1 Changes in lease liability

	Parent Company	Consolidated
Balance as of January 1, 2023	4,809	273,756
Additions	-	9,267
Remeasurement adjustment	21	3,245
Charges	108	5,717
Amortization - principal	(109)	(17,384)
Payment - charges	(108)	(5,711)
Loss on disposal	-	(93)
Balance as of March 31, 2023	4,721	268,797
	Current	456
	Noncurrent	4,265
		66,254
		202,543

The Company defines the discount rate based on the nominal interest rate applied to the last fundraising, disregarding subsidized or incentivized funding. The interest rates applied range from 3.58% to 15.05% p.a.

26.2.2 Maturity of noncurrent installments

2024	38,646
2025	35,606
2026	36,666
2027	10,417
2028	9,864
After 2028	169,194
Undiscounted amounts	300,393
Imputed interest	(97,850)
Lease liabilities balance	202,543

26.2.3 Potential PIS/Cofins recoverable rights

The following table shows the potential PIS/Cofins recoverable rights embedded in the leasing consideration, according to the expected payment periods.

Cash Flows	Nominal value	Present value
Lease consideration	431,449	268,797
Potential Pis/Cofins	32,812	21,339

26.3 Impact of forecast inflation on discounted cash flows

In accordance with CPC 06 (R2) / IFRS 16, in measuring and remeasuring lease liabilities and right-of-use assets, the Company used the discounted cash flow method without considering forecast future inflation, according to the prohibition imposed by the standard.

However, given the current reality of long-term interest rates in the Brazilian economic environment, the table below shows the comparative balances between the information recorded in accordance with CPC 06 (R2) / IFRS 16 and the amount that would be recorded considering forecast inflation:

Consolidated	Balance in accordance with IFRS 16	Inflation projected balance	%
Lease liabilities	268,797	321,470	19.60%
Right to use assets	255,034	291,612	14.34%
Financial expense	5,717	6,849	19.80%
Amortization expense	18,769	20,161	7.42%

26.4 Commitments from leases and rentals

For leases of low value assets, such as computers, printers and furniture, short-term leases, as well as for leases of land for development of wind power generation projects, whose payment is made based on variable remuneration, the amounts are recognized in the statement of income as operating costs and/or expenses (Note 31.6). The balance of commitments from leases and rentals is shown below:

Consolidated	Less than 1 year	1 to 5 years	Over 5 years	03.31.2023
Commitments from leases and rentals	12,328	57,898	297,243	367,469

26.5 Receivables from leases

Consolidated	Less than 1 year	1 to 5 years	Over 5 years	Total 03.31.2023
Facilities sharing	1,393	5,572	18,132	25,097

27. Other Accounts Payable

Consolidated	03.31.2023	12.31.2022
Fair value in the purchase and sale of power (Note 34.2.12)	1,179,010	738,703
Generation deviation - wind projects (Note 34.2.11)	185,368	184,813
Public lighting rate collected	61,488	52,520
Payments/returns to consumers	56,467	50,652
Aneel Order No. 084/2017 provision	39,442	38,145
Obligations to customers in gas sales operations (a)	34,783	33,223
Pledges in guarantee	28,197	29,924
Financial offset for the use of water resources	25,679	28,511
Other liabilities	103,529	90,362
	1,713,963	1,246,853
	Current	601,619
	Noncurrent	645,234

(a) Refers to amounts paid for the purchase of contracted gas volumes not yet taken by customers.

28. Provisions for Legal Claims and Contingent Liabilities

The Company and its subsidiaries are responsible for several legal and administrative proceedings before different courts. Based on assessments made by the Company's legal counsel, Management makes provisions for legal claims in which the losses are rated probable, when the criteria for recognition of provisioning described in Note 4.11 of the financial statements as of December 31, 2022 are met.

The Company's management believes it is impracticable to provide information regarding the timing of any cash outflows related to the lawsuits for which the Company and its subsidiaries are responsible on the date of preparation of the financial statements, in view of the unpredictability and dynamics of the Brazilian judicial, tax and regulatory systems, and that the final resolution depends on the conclusions of the lawsuits. For this reason, this information is not provided.

28.1 Change in provision for legal claims

Parent company	Balance as of January 1, 2023	Income		Balance as of March 31, 2023
		Additions	Reversals	
Tax				
Cofins	123,564	319	-	123,883
Others	35,671	495	-	36,166
	159,235	814	-	160,049
Labor	3,514	543	-	4,057
Employee benefits	745	-	(516)	229
Civil	640,948	2,882	-	643,830
	804,442	4,239	(516)	808,165

Consolidated	Balances as of January 1, 2023	Income			Additions to assets	Settlements	Transfers/ Others	Balances as of March 31, 2023
		Provision for litigations		Construction cost				
		Additions	Reversals	Additions/(Rev.)				
Tax								
Cofins	123,564	319	-	-	-	-	123,883	
Others	78,186	8,313	(5,731)	-	-	(7,731)	86,694	
	201,750	8,632	(5,731)	-	-	(7,731)	210,577	
Labors	536,464	21,875	-	-	-	(32,233)	526,106	
Employee benefits	30,126	1,701	(516)	-	-	(93)	31,218	
Civil								
Civil and administrative claims	958,111	22,345	(4,106)	-	-	(33,695)	942,655	
Easements	138,724	77	-	(15,744)	2,245	18	125,320	
Expropriations and property	154,912	269	(41)	161	8,401	(3)	163,699	
Customers	3,750	43	(1,675)	-	-	-	2,118	
Environmental	5,269	771	(811)	-	-	-	5,229	
	1,260,766	23,505	(6,633)	(15,583)	10,646	(33,680)	1,239,021	
Regulatory	8,493	88	(2,311)	-	-	(18)	6,252	
	2,037,599	55,801	(15,191)	(15,583)	10,646	(73,755)	2,013,174	

28.2 Details of provisions for legal claims and contingent liabilities

The following table shows the details of the provisions for legal claims recorded and, in addition, the amounts of contingent liabilities, which are present obligations arising from past events, but without provisions recognized because it is not probable an outflow of resources that incorporate economic benefits to settle the obligation.

	Description	Parent Company				Consolidated			
		Provisions		Contingent liabilities		Provisions		Contingent liabilities	
		03.31.2023	12.31.2022	03.31.2023	12.31.2022	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Tax									
Cofins	Requirement of the Federal Revenue Service for the period from August 1995 to December 1996, due to the termination of a judicial decision that has recognized the Company's exemption from Cofins.	123,883	123,564	8,596	9,550	123,883	123,564	8,596	9,550
INSS	Tax requirements related to the social security contribution.	31,239	30,899	57,445	56,479	31,239	30,899	111,167	56,790
Federal taxes	Administrative requirements and questions from Receita Federal do Brasil (Federal Revenue Service).	-	-	41,562	47,843	2,157	2,100	42,094	53,682
ICMS (VAT)	Administrative requirements and questions from the State regarding the payment of ICMS (VAT) on the Company's invoices.	-	-	-	-	6,877	4,035	25,583	24,930
IPTU	Tax Requirement on Urban Territorial Property (IPTU) on properties affected by the public electricity service.	4,865	4,738	948	645	8,357	9,332	163,821	152,113
ISS	City halls tax requirement as ISS on construction services provided by third parties.	-	-	-	-	215	181	58,789	56,731
Other	Taxes, fees and other federal, state and municipal taxes in which the Company discusses the levy or not, as well as its bases and amounts for payment	62	34	7,074	63,292	37,849	31,639	116,442	149,518
		160,049	159,235	115,625	177,809	210,577	201,750	526,492	503,314
Labor									
	Charging of overtime, hazardous work, transfer surcharge, equalization / salary adjustment, among others, by employees and former employees of Copel; collection of indemnity installments and others, by ex-employees of contractors and outsourced companies (subsidiary responsibility).	4,057	3,514	2,523	2,479	526,106	536,374	383,670	378,737
Employee benefits									
	Labor claims filed by former retired employees against Fundação Copel, which will consequently cause repercussions for the Company and its wholly-owned subsidiaries, to the extent that additional contributions are required.	229	745	315	311	31,218	30,126	10,835	12,716
Regulatory									
ESBR	ESBR filed Ordinary Lawsuit No. 10426-71.2013.4.01.4100 against ANEEL in the Federal Court of Rondônia, whose ruling: (i) acknowledged the exclusion of liability for the 535-days schedule overrun in the construction of the Jirau Hydropower Station; (ii) declares any obligations, penalties and costs imposed on ESBR as a result of the schedule overrun to be unenforceable, and (iii) annuls ANEEL Resolution 1,732/2013, which had recognized a schedule overrun of only 52 days. An appeal has been brought by ANEEL, pending judgment by the Federal Court of the 1st Region. The practical consequence of the ruling was, at the time it exempted ESBR, to expose the distributors with whom it entered into power trading contracts (CCEARs) to the Short-Term Market and to the high value of the Settlement Price of the Differences (Preço de Liquidação das Diferenças - PLD, in Portuguese) in the period, including Copel DIS. This occurred because the rules for the sale of electricity require that all energy consumed should have a corresponding contractual coverage. If the lawsuits are judged unfavorably against Copel, the amount will be classified as Sectorial Financial Asset to be recovered through tariff rates.	-	-	-	-	-	-	1,138,777	1,130,845
Collider exclusion of liability	Discussion on the value of the Tariff for use of the transmission system - TUST and monetary adjustment on energy values referring to the exclusion of liability period. As a result of the court injunction that excluded the delay period for the Collider HPP from being responsible for the delivery of energy contracted in the Regulated Contracting Environment - ACR, CCEE proceeded to credit, valued to PLD, the energy previously backed to comply with ACR. However, in the event of failure in the lawsuit, the Company must return the amounts credited, updated by the IGPM.	-	-	-	-	-	-	343,033	320,044
Other	Aneel's notifications about possible breaches of regulatory standards	-	-	-	-	6,252	8,493	48,663	45,718
		-	-	-	-	6,252	8,493	1,530,473	1,496,607

(continued)

Description	Parent Company				Consolidated				
	Provisions		Contingent liabilities		Provisions		Contingent liabilities		
	03.31.2023	12.31.2022	03.31.2023	12.31.2022	03.31.2023	12.31.2022	03.31.2023	12.31.2022	
Civil									
Tobacco growers	-	-	-	-	60,620	73,366	61,305	71,237	
Arbitration	631,545	629,056	340,166 ^(a)	338,779	631,551	629,056	340,166 ^(a)	338,779	
Civil and administrative law	12,221	11,831	5,931	5,681	147,509	154,550	532,237	549,115	
Indemnification to third parties (civil)	-	-	-	-	102,908	101,076	100,566	98,940	
Easements	64	61	-	-	125,385	138,841	32,203	31,063	
Expropriations and property	-	-	-	-	163,701	154,943	39,191	38,030	
Consumers	-	-	-	-	2,118	3,758	1,979	1,911	
Environmental	-	-	-	-	5,229	5,266	227,361	216,380	
	643,830	640,948	346,097	344,460	1,239,021	1,260,856	1,335,008	1,345,455	
	808,165	804,442	464,560	525,059	2,013,174	2,037,599	3,786,478	3,736,829	

(a) refers to the estimate of possible loss of a total, monetarily restated, of R\$2,978,999 of the plaintiff's claim.

29. Equity

29.1 Capital

On March 31, 2023, paid in capital is R\$10,800,000 (R\$10,800,000 as of December 31, 2022). Its composition by shares (without par value) and the main shareholders are shown below, already considering the number of shares updated after the split and the conversion period of the UNITS Program ratified and approved by Management in 2021:

03.31.2023	Number of shares in units							
	Common		Class "A" Preferred		Class "B" preferred		Total	
	number of shares	%	number of shares	%	number of shares	%	number of shares	%
State of Paraná	734,298,319	69.66	-	-	115,945,012	6.90	850,243,331	31.07
BNDESPAR	131,161,562	12.44	-	-	524,646,248	31.24	655,807,810	23.96
Free float:								
B3	138,212,290	13.11	681,680	21.79	909,513,430	54.16	1,048,407,400	38.31
NYSE	31,594,714	3.00	-	-	126,378,856	7.53	157,973,570	5.77
Latibex	221,967	0.02	-	-	1,851,143	0.11	2,073,110	0.08
Other shareholders	18,601,608	1.77	2,446,320	78.21	1,000,601	0.06	22,048,529	0.81
	1,054,090,460	100.00	3,128,000	100.00	1,679,335,290	100.00	2,736,553,750	100.00

29.2 Equity valuation adjustments

	Parent company	Consolidated
Balance as of January 1, 2023	593,382	593,382
Realization of equity evaluation adjustment		
Deemed cost of fixed assets	-	(12,422)
Taxes on adjustments	-	4,223
Deemed cost of fixed assets - equity, net of taxes	(8,199)	-
Other adjustments		
Adjustments on financial assets - subsidiaries	-	(282)
Taxes on other adjustments	-	96
Adjustments on financial assets - equity, net of taxes	(130)	-
Attributed to non-controlling interest	-	56
Balance as of March 31, 2023	585,053	585,053

29.3 Earnings per share - basic and diluted

Parent company	03.31.2023	03.31.2022
Basic and diluted numerator		
Basic and diluted earnings allocated by classes of shares, allocated to controlling shareholders		
Common shares	227,376	241,075
Class "A" preferred shares	742	787
Class "B" preferred shares	398,472	422,479
	626,590	664,341
Basic and diluted denominator		
Weighted average of shares (in thousands)		
Common shares	1,054,090,460	1,054,090,460
Class "A" preferred shares	3,128,000	3,128,000
Class "B" preferred shares	1,679,335,290	1,679,335,290
	2,736,553,750	2,736,553,750
Basic and diluted earnings per share attributable to controlling shareholders		
Common shares	0.21571	0.22870
Class "A" preferred shares	0.23728	0.25158
Class "B" preferred shares	0.23728	0.25158

30. Net Operating Revenue

Consolidated	Gross revenues	PIS/Pasep and Cofins	ICMS (VAT)	Sectorial charges	Service tax (ISSQN)	Net revenue	
						03.31.2023	03.31.2022
Electricity sales to final customers	2,459,196	(200,343)	(293,703)	(60,991)	-	1,904,159	2,134,153
Electricity sales to distributors	1,053,029	(140,014)	(3,796)	(16,555)	-	892,664	1,001,675
Use of the main distribution and transmission grid	2,530,819	(219,798)	(183,919)	(630,884)	-	1,496,218	1,262,904
Construction income	531,360	-	-	-	-	531,360	487,063
Fair value of assets from the indemnity for the concession	25,734	-	-	-	-	25,734	42,549
Distribution of piped gas	349,069	(25,613)	(63,335)	-	(3)	260,118	233,089
Result of sectorial financial assets and liabilities	269,120	(24,894)	-	-	-	244,226	324,185
Other operating revenue	192,611	(15,325)	-	-	(1,099)	176,187	102,131
	7,410,938	(625,987)	(544,753)	(708,430)	(1,102)	5,530,666	5,587,749

30.1 Revenue by type and/or class of customers

	03.31.2023	03.31.2022
Electricity sales to final customers	2,459,196	3,948,480
Residential	699,253	1,337,295
Industrial	162,574	332,698
Trade, services and other activities	384,085	765,115
Rural	169,952	318,936
Public entities	52,975	100,067
Public lighting	42,388	105,404
Public service	67,632	129,657
Free consumers	689,505	665,612
Donations and grants	190,832	193,696
Electricity sales to distributors	1,053,029	1,189,609
Bilateral contracts	598,384	727,779
Regulated contracts	296,339	253,423
Electric Energy Trade Chamber - CCEE	121,362	166,488
Effective interest - grant bonus (Note 9.3)	36,944	41,919
Use of the main distribution and transmission grid	2,530,819	2,801,864
Residential	742,262	847,873
Industrial	167,110	373,638
Trade, services and other activities	414,726	530,741
Rural	194,530	191,036
Public entities	60,578	63,597
Public lighting	47,375	52,190
Public service	54,299	59,390
Free consumers	580,225	384,746
Concessionaires and generators	22,761	21,369
Operating and maintenance income - O&M and interest income	246,953	277,284
Construction income	531,360	487,063
Power distribution service concession	489,977	439,969
Power gas distribution service concession	2,991	3,413
Power transmission concession (a)	38,392	43,681
Fair value of assets from the indemnity for the concession	25,734	42,549
Distribution of piped gas	349,069	310,061
Result of sectorial financial assets and liabilities	269,120	357,229
Other operating revenue	192,611	117,843
Leasing and rent (30.2)	114,576	82,691
Fair value in the purchase and sale of power	50,291	-
Income from rendering of services	10,019	22,486
Other income	17,725	12,666
GROSS OPERATING REVENUE	7,410,938	9,254,698
(-) Pis/Pasep and Cofins	(625,987)	(720,425)
(-) ICMS (VAT)	(544,753)	(1,549,414)
(-) Service tax (ISSQN)	(1,102)	(2,410)
(-) Sectorial charges (30.3)	(708,430)	(1,394,700)
NET OPERATING REVENUE	5,530,666	5,587,749

(a) The balance contains the amount of construction revenue, the construction margin and the efficiency gain or loss as detailed in Note 10.3

30.2 Leases and rentals

30.2.1 Revenue from leases and rentals

Consolidated	03.31.2023	03.31.2022
Equipment and structures	114,098	82,304
Facilities sharing	415	333
Real estate	63	54
	114,576	82,691

30.3 Regulatory charges

Consolidated	03.31.2023	03.31.2022
Energy Development Account - "CDE" - Power distribution service concession (30.3.1)	639,590	681,471
Other charges - rate flags (30.3.2)	330	638,575
Research and development and energy efficiency - R&D and EEP	38,935	40,779
Global Reversion Reserve - RGR quota	12,431	12,035
Energy Development Account - "CDE" - Power transmission concession	13,399	18,620
Inspection fee	3,745	3,220
	708,430	1,394,700

30.3.1 Energy Development Account - CDE - power distribution concession

CDE, created by Law no. 10438/2002, amended by Law No. 12783/2013, which aims to promote energy development in the national territory, has as one of its fund sources the tariff charge attributed to end consumers in the tariff processes and periodically paid by the distributor. Annual charge amounts are defined by Aneel through approval resolutions and managed by CCEE.

As of June 2021, the Company began paying CDE Covid Account amounts provided for in Decision No. 939/2021, in the monthly amount of R\$29,032, to repay the loan transaction taken out by CCEE, which intended to cover deficits or anticipate distributor revenues. The repayment will be made over 54 months, from June 2021 to December 2025.

On February 24, 2023, Aneel published Decision No. 510, which confirmed the specific amounts of CDE water shortage (Note 8.1) for payment of the financial transaction contracted to cover the additional costs demanded in the water crisis period, according to Regulatory Resolution No. 1008/2022. The monthly amount determined for Copel DIS is R\$6,454, to be paid to CCEE as of June 2023.

The balance is as follows:

Resolutions	Period	03.31.2023	03.31.2022
"CDE USO"	Quotas (a)	552,493	594,374
	Covid Account (b)	45,861	45,861
		598,354	640,235
"CDE ENERGIA"	Covid Account (b)	41,236	41,236
		639,590	681,471

(a) "CDE Uso": Resolution No. 3,165/2022 (as of jan/23); Resolution No. 3,034/2022 (may-dec/22), Resolution No. 3,004/2021 (jan-apr/22).

(b) "CDE Uso" and "CDE Energia" - Covid Account: Order No. 939/2021.

30.3.2 Tariff flag

The tariff flag system was created by Aneel Regulatory Resolution No. 547/2013, effective from 2015, to indicate whether an increase in the electric energy value to be passed on to end consumers would apply depending on the conditions for electricity generation. As of May 2022, after the improvement of hydric conditions, the green flag is prevailing, with no increase in energy bills.

30.4 Copel DIS annual tariff adjustment

Aneel ratified the result of the 2022 Annual Tariff Adjustment of Copel Distribuição through Approval Resolution No. 3,049/2022, authorizing an average readjustment of 4.90% perceived by consumers (9.89% in the readjustment of June 2021), and which was fully applied to tariffs as of June 24, 2022, with the average readjustment for high voltage consumers being 9.32% and 2.68% for low voltage consumers (respectively, 9.57 % and 10.04% in 2021).

31. Operating Costs and Expenses

Parent company	General and administrative expenses	Other operational income (expenses), net	03.31.2023	03.31.2022
Manageable costs and expenses				
Personnel and management (31.2)	(15,222)	-	(15,222)	(10,376)
Pension and healthcare plans (Note 22.3)	(1,943)	-	(1,943)	(1,759)
Materials	(321)	-	(321)	(239)
Third-party services	(10,671)	-	(10,671)	(6,944)
Credit losses, provisions and reversals (31.4)	-	(3,120)	(3,120)	(22,928)
Other operational income (expenses)	(3,388)	1,215	(2,173)	1,008
	(31,545)	(1,905)	(33,450)	(41,238)
Other				
Depreciation and amortization	(448)	(281)	(729)	(601)
	(31,993)	(2,186)	(34,179)	(41,839)

Consolidated	Operational costs	Selling expenses	General and administrative expenses	Other operational expenses, net	03.31.2023	03.31.2022
Non-manageable costs and expenses						
Electricity purchased for resale (31.1)	(1,820,975)	-	-	-	(1,820,975)	(1,939,498)
Charge of the main distribution and transmission grid	(687,571)	-	-	-	(687,571)	(774,975)
Materials and supplies for power electricity	(6,750)	-	-	-	(6,750)	(85,431)
Natural gas and supplies for gas business	(181,782)	-	-	-	(181,782)	(187,412)
	(2,697,078)	-	-	-	(2,697,078)	(2,987,316)
Manageable costs and expenses						
Personnel and management (31.2)	(292,099)	(1,808)	(131,263)	-	(425,170)	(282,325)
Pension and healthcare plans (Note 22.3)	(44,081)	(183)	(21,734)	-	(65,998)	(68,085)
Materials	(18,356)	(7)	(2,560)	-	(20,923)	(18,236)
Third-party services (31.3)	(171,172)	(594)	(65,791)	-	(237,557)	(167,930)
Credit losses, provisions and reversals (31.4)	36,926	13,841	-	(40,044)	10,723	(115,948)
Other operational costs and expenses, net (31.6)	(57,835)	(12,030)	(18,126)	(14,889)	(102,880)	(93,115)
	(546,617)	(781)	(239,474)	(54,933)	(841,805)	(745,639)
Other						
Depreciation and amortization	(329,926)	-	(16,605)	(6,119)	(352,650)	(320,378)
Construction cost (31.5)	(528,981)	-	-	-	(528,981)	(476,717)
	(858,907)	-	(16,605)	(6,119)	(881,631)	(797,095)
	(4,102,602)	(781)	(256,079)	(61,052)	(4,420,514)	(4,530,050)

31.1 Electricity purchased for resale

Consolidated	03.31.2023	03.31.2022
Purchase of Energy in the Regulated Environment - CCEAR	925,465	870,197
Itaipu Binacional	212,917	350,166
Electric Energy Trade Chamber - CCEE	99,546	69,949
Bilateral contracts	451,943	573,826
Program for incentive to alternative energy sources - Proinfa	91,413	110,487
Micro and mini generators	249,169	179,481
Fair value in the purchase and sale of power	-	21,834
(-) PIS/Pasep/Cofins taxes on electricity purchased for resale	(209,478)	(236,442)
	1,820,975	1,939,498

31.2 Personnel and management

	Parent company		Consolidated	
	03.31.2023	03.31.2022	03.31.2023	03.31.2022
Personnel				
Salaries and management fees (a)	8,925	5,756	277,699	150,102
Social charges on payroll	2,082	1,709	59,254	54,562
Meal and education allowance	429	645	29,056	25,723
Voluntary retirement program	-	(2,087)	2	(7,880)
	11,436	6,023	366,011	222,507
Management				
Salaries and management fees	1,833	1,817	4,542	4,509
Social charges on payroll	446	445	945	936
Other expenses	25	25	72	68
	2,304	2,287	5,559	5,513
Provisions for performance and profit sharing of employees and administrators	1,482	2,066	53,600	54,305
	15,222	10,376	425,170	282,325

(a) In 2023, R\$3,584 were recorded in the Parent Company and R\$138,173 in Consolidated referring to vacation benefit indemnity approved by the Collective Bargaining Agreement on January 19, 2023.

31.3 Third party services

Consolidated	03.31.2023	03.31.2022
Maintenance of electrical system	91,014	64,287
Maintenance of facilities	32,641	20,186
Communication, processing and transmission of data	29,152	24,118
Consumer service / call center	25,234	17,557
Consulting and audit	16,716	9,042
Meter reading and bill delivery	14,514	12,955
Other services	28,286	19,785
	237,557	167,930

31.4 Credit losses, provisions and reversals

	Parent company		Consolidated	
	03.31.2023	03.31.2022	03.31.2023	03.31.2022
Provision for legal claims (Note 28)	3,404	8,186	40,291	64,167
Impairment (reversal of impairment) of assets				
Power generation concession contract (Note 9.3)	-	-	(1,358)	-
Gas operations	-	-	-	1,629
Property, plant and equipment - generation segment (Note 16.4)	-	-	(35,568)	-
Expected credit losses (reversal of losses) - Trade accounts and Other receivables	-	-	(13,841)	51,437
Tax credits estimated losses	-	-	(247)	(1,285)
Provision (reversal) for losses on equity interests	(284)	14,742	-	-
	3,120	22,928	(10,723)	115,948

31.5 Construction costs

Consolidated	03.31.2023	03.31.2022
Materials	311,887	270,208
Third party services	158,870	150,964
Personnel	51,356	43,256
Other	6,868	12,289
	528,981	476,717

31.6 Other operating costs and expenses, net

Consolidated	03.31.2023	03.31.2022
Financial offset for the use of water resources	38,499	20,820
Collection charge	11,935	11,912
Net losses (gains) in the decommissioning and disposal of assets	10,784	18,309
Leasing and rent	9,772	8,172
Insurance	9,329	9,737
Taxes	5,535	12,733
Aneel inspection fee	4,427	4,433
Compensation	4,083	2,865
Donations, contributions, grants, tax incentives (a)	784	234
Advertising and publicity		
<i>Associação das Emissoras de Radiodifusão do Paraná - AERP</i>	3,194	2,853
Publicity	559	613
Sponsorship	497	525
<i>Talento Olímpico Paranaense - TOP</i>	-	122
Other net income, costs and expenses	3,482	(213)
	102,880	93,115

(a) The balance includes the Company's social investments in education, culture, health, sports, among others, including incentive donations used as a tax benefit.

32. Financial Results

	Parent company		Consolidated	
	03.31.2023	03.31.2022	03.31.2023	03.31.2023
Financial income				
Arrears charges on bills	-	-	55,569	76,417
Return on financial investments	3,714	12,164	97,604	87,944
Remuneration of net sectorial assets and liabilities (Note 8)	-	-	25,195	32,129
Income and monetary restatement of judicial deposits	2,101	1,255	16,142	10,378
Interest on taxes to be offset	3,568	1,055	17,691	15,007
Monetary variation and adjustment to present value of accounts payable related to the concession (Note 25.1)	-	-	7,375	1,286
Monetary variation over the Itaipu power purchase	-	-	3,338	29,507
Other financial income	6,168	3,380	26,303	17,434
(-) Pis/Pasep and Cofins taxes on financial income	(627)	(772)	(8,578)	(10,227)
	14,924	17,082	240,639	259,875
(-) Financial expenses				
Monetary and exchange variation and debt charges	-	34,694	466,949	347,730
Monetary variation and adjustment to present value of accounts payable related to the concession (Note 25.1)	-	-	34,825	71,475
Interest on tax installments	-	-	10,561	7,749
Interest on R&D and EEP (Note 24.1)	-	-	7,306	8,045
Interest on lease liabilities (Note 26.2)	108	80	5,717	3,865
Remuneration of net sectorial assets and liabilities (Note 8)	-	-	1,605	3,791
Monetary variation over the Itaipu power purchase	-	-	813	4,600
Other financial expenses	433	2,326	46,002	25,847
	541	37,100	573,778	473,102
Net	14,383	(20,018)	(333,139)	(213,227)

33. Operating Segments

Operating segments are business activities that generate revenues and incur expenses, whose operating results are regularly reviewed by the executive boards of the Company and by key strategic decision-makers responsible for allocating funds and assessing performance.

33.1 Products and services from which the reportable segments have their revenues generated

The Company operates in reportable segments identified by Management, through the chief officers of each business area, taking into consideration the regulatory environments, the strategic business units and the different products and services. These segments are managed separately, since each business and each company require different technologies and strategies.

Until March 31, 2023, all sales have been to customers within the Brazilian territory, in addition, all noncurrent assets are also located in the national territory. The Company and its subsidiaries did not identify any customer who individually accounts for more than 10% of their total net revenue until March 31, 2023.

The Company evaluates the performance of each segment, based on information derived from the accounting records. The accounting policies of the operating segments are the same as those described in Note 4 of the financial statements as of December 31, 2022.

33.2 Company's reportable segments

Power generation and transmission (GET) - its attribution is to produce electricity from hydraulic, wind, and thermal projects (**GER**) and to provide services of transmission and transformation of electric power, being responsible for the construction, operation and maintenance of substations, as well for the energy transmission lines (**TRA**); for managers, the assets and liabilities of the generation and transmission segments are shown on an aggregate basis while their result is presented separately;

Power distribution (DIS) - its attribution is to provide public electricity distribution services, being responsible for the operation and maintenance of the distribution infrastructure, as well as providing related services;

GAS - its attribution is to provide public service of piped natural gas distribution;

Power sale (COM) - its attribution is to trade energy and related services;

Holding and Services - its attribution is the provision of services and participation in other companies.

33.3 Assets by reportable segment

ASSETS	Electric Energy			GAS	Holding and Services	Intersegment operations	Consolidated
	GET	DIS	COM				
03.31.2023							
TOTAL ASSETS	26,656,292	20,881,942	2,265,570	1,082,586	2,241,268	(63,195)	53,064,463
CURRENT ASSETS	3,647,697	5,139,426	1,024,669	281,751	1,250,492	(1,381,513)	9,962,522
NONCURRENT ASSETS	23,008,595	15,742,516	1,240,901	800,835	990,776	1,318,318	43,101,941
Long term assets	6,974,213	8,093,276	1,232,525	74,405	790,887	(217,814)	16,947,492
Investments	3,273,244	532	-	-	161,904	-	3,435,680
Property, plant and equipment	11,174,627	-	568	-	13,823	-	11,189,018
Intangible assets	1,502,555	7,510,408	5,974	713,270	6,378	1,536,132	11,274,717
Right-of-use asset	83,956	138,300	1,834	13,160	17,784	-	255,034

ASSETS	Electric Energy			GAS	Holding and Services	Intersegment operations	Consolidated
	GET	DIS	COM				
12.31.2022							
TOTAL ASSETS	24,917,856	20,538,815	1,808,971	1,083,713	2,244,405	(890,060)	49,703,700
CURRENT ASSETS	3,237,725	4,937,240	990,867	282,714	1,311,618	(1,432,915)	9,327,249
NONCURRENT ASSETS	21,680,131	15,601,575	818,104	800,999	932,787	542,855	40,376,451
Long term assets	6,819,202	8,200,557	809,498	59,505	732,365	(178,982)	16,442,145
Investments	3,163,152	534	-	-	162,045	-	3,325,731
Property, plant and equipment	10,054,763	-	541	-	14,164	-	10,069,468
Intangible assets	1,559,776	7,257,827	6,193	726,107	5,987	721,837	10,277,727
Right-of-use asset	83,238	142,657	1,872	15,387	18,226	-	261,380

33.4 Statement of income by reportable segment

STATEMENT OF INCOME	Electric Energy				GAS	Holding and Services	Inter-segment operations	Consolidated
	GET		DIS	COM				
	GER	TRA						
03.31.2023								
CONTINUING OPERATIONS								
NET OPERATING REVENUE	1,057,632	339,034	3,531,641	1,116,652	263,251	-	(777,544)	5,530,666
Net operating revenue - third-parties	381,030	247,392	3,522,483	1,116,652	263,109	-	-	5,530,666
Net operating revenue - betw een segments	676,602	91,642	9,158	-	142	-	(777,544)	-
OPERATING COSTS AND EXPENSES	(565,888)	(122,653)	(3,238,770)	(1,018,224)	(219,345)	(33,178)	777,544	(4,420,514)
Energy purchased for resale	(25,864)	-	(1,464,757)	(1,008,782)	-	-	678,428	(1,820,975)
Charges for use of the main transmission grid	(159,441)	-	(625,128)	-	-	-	96,998	(687,571)
Personnel and management	(79,813)	(52,976)	(260,812)	(5,471)	(10,863)	(15,235)	-	(425,170)
Pension and healthcare plans	(12,291)	(8,208)	(41,545)	(510)	(1,500)	(1,944)	-	(65,998)
Materials and supplies	(3,050)	(1,370)	(15,960)	(9)	(213)	(321)	-	(20,923)
Raw materials and supplies for generation	(6,878)	-	-	-	-	-	128	(6,750)
Natural gas and supplies for gas business	-	-	-	-	(181,782)	-	-	(181,782)
Third party services	(53,468)	(14,910)	(155,176)	(501)	(3,073)	(11,282)	853	(237,557)
Depreciation and amortization	(206,664)	(3,888)	(124,363)	(714)	(15,775)	(1,246)	-	(352,650)
Provision for litigations	(4,028)	(2,569)	(33,051)	(9)	(15)	(619)	-	(40,291)
Reversal of impairment of assets	36,926	-	-	-	-	-	-	36,926
Other estimated losses, provisions and reversals	(819)	270	15,441	(456)	(350)	2	-	14,088
Construction cost	-	(36,013)	(489,977)	-	(2,991)	-	-	(528,981)
Other operating costs and expenses, net	(50,498)	(2,989)	(43,442)	(1,772)	(2,783)	(2,533)	1,137	(102,880)
EQUITY IN EARNINGS OF INVESTEES	4,162	100,023	-	-	-	(97)	-	104,088
PROFIT (LOSS) BEFORE FINANCIAL INCOME AND TAX	495,906	316,404	292,871	98,428	43,906	(33,275)	-	1,214,240
Financial income	73,980	16,239	115,620	8,631	6,153	23,590	(3,574)	240,639
Financial expenses	(194,812)	(116,539)	(228,155)	(84)	(10,656)	(27,106)	3,574	(573,778)
OPERATING PROFIT (LOSS)	375,074	216,104	180,336	106,975	39,403	(36,791)	-	881,101
Income tax and social contribution	(127,468)	(32,803)	(40,646)	(36,471)	(13,480)	5,257	-	(245,611)
NET INCOME (LOSS)	247,606	183,301	139,690	70,504	25,923	(31,534)	-	635,490

STATEMENT OF INCOME	Electric Energy				GAS	Holding and Services	Inter-segment operations	Consolidated
	GET		DIS	COM				
	GER	TRA						
03.31.2022								
CONTINUING OPERATIONS								
NET OPERATING REVENUES	1,092,719	367,586	3,521,968	1,184,042	253,647	8,014	(840,227)	5,587,749
Net operating revenue - third-parties	380,437	279,595	3,512,572	1,156,511	250,620	8,014	-	5,587,749
Net operating revenue - betw een segments	712,282	87,991	9,396	27,531	3,027	-	(840,227)	-
OPERATING COSTS AND EXPENSES	(642,667)	(95,396)	(3,195,367)	(1,183,305)	(219,506)	(48,778)	854,969	(4,530,050)
Energy purchased for resale	(60,646)	-	(1,442,253)	(1,176,409)	-	-	739,810	(1,939,498)
Charges for use of the main transmission grid	(141,715)	-	(729,815)	-	-	-	96,555	(774,975)
Personnel and management	(55,382)	(34,092)	(165,461)	(3,445)	(9,766)	(14,179)	-	(282,325)
Pension and healthcare plans	(12,275)	(7,968)	(42,945)	(463)	(1,392)	(3,042)	-	(68,085)
Materials and supplies	(2,535)	(1,105)	(14,068)	(12)	(241)	(275)	-	(18,236)
Raw materials and supplies for generation	(88,177)	-	-	-	-	-	2,746	(85,431)
Natural gas and supplies for gas business	-	-	-	-	(187,412)	-	-	(187,412)
Third party services	(39,512)	(9,535)	(108,720)	(960)	(3,417)	(7,811)	2,025	(167,930)
Depreciation and amortization	(197,143)	(3,008)	(108,525)	(77)	(10,550)	(1,075)	-	(320,378)
Provision (reversal) for litigations	(3,542)	(2,003)	(50,338)	(25)	33	(8,292)	-	(64,167)
Impairment of assets	-	-	-	-	(1,629)	-	-	(1,629)
Other estimated losses, provisions and reversals	(1,025)	324	(48,572)	(720)	(159)	(14,742)	14,742	(50,152)
Construction cost	-	(33,335)	(439,969)	-	(3,413)	-	-	(476,717)
Other operating costs and expenses, net	(40,715)	(4,674)	(44,701)	(1,194)	(1,560)	638	(909)	(93,115)
EQUITY IN EARNINGS OF INVESTEES	4,596	109,093	-	-	-	(908)	-	112,781
PROFIT (LOSS) BEFORE FINANCIAL INCOME AND TAX	454,648	381,283	326,601	737	34,141	(41,672)	14,742	1,170,480
Financial income	57,432	14,806	162,138	6,355	10,769	23,348	(14,973)	259,875
Financial expenses	(205,873)	(69,942)	(140,087)	(86)	(7,701)	(64,386)	14,973	(473,102)
OPERATING PROFIT (LOSS)	306,207	326,147	348,652	7,006	37,209	(82,710)	14,742	957,253
Income tax and social contribution	(102,555)	(64,747)	(120,615)	(2,364)	(9,960)	12,779	-	(287,462)
NET INCOME (LOSS)	203,652	261,400	228,037	4,642	27,249	(69,931)	14,742	669,791

33.5 Additions to noncurrent assets by reportable segment

03.31.2023	Electric Energy			GAS	Holding and Services	Consolidated
	GET	DIS	COM			
Contract assets	-	477,097	-	2,810	-	479,907
Property, plant and equipment	75,252	-	45	-	29	75,326
Intangible assets	1,052	-	435	-	557	2,044
Right-of-use asset	234	9,033	-	-	-	9,267

34. Financial Instruments

34.1 Categories and determination of fair value of financial instruments

Consolidated	Note	Level	03.31.2023		12.31.2022	
			Book value	Fair value	Book value	Fair value
Financial assets						
Fair value through profit or loss						
Cash and cash equivalents (a)	5	1	2,911,274	2,911,274	2,678,457	2,678,457
Bonds and securities (b)	6	2	501,792	501,792	431,056	431,056
Accounts receivable - distribution concession (c)	9.1	3	1,560,022	1,560,022	1,442,819	1,442,819
Accounts receivable - generation concession (c)	9.3	3	70,001	70,001	68,642	68,642
Fair value in the purchase and sale of power (d)	11	3	1,572,356	1,572,356	1,081,758	1,081,758
Other temporary investments (e)		1	13,422	13,422	15,372	15,372
Other temporary investments (e)		2	13,380	13,380	10,247	10,247
			6,642,247	6,642,247	5,728,351	5,728,351
Amortized cost						
Collaterals and escrow accounts (a)			178	178	157	157
Trade accounts receivable (a)	7		3,577,994	3,577,994	3,451,869	3,451,869
Sectorial financial assets (a)	8		436,180	436,180	381,398	381,398
Accounts receivable - concessions - bonus from the grant (g)	9.2		782,005	883,199	766,832	866,653
			4,796,357	4,897,551	4,600,256	4,700,077
Fair value through other comprehensive income						
Certified Emission Reductions - CERs (j)			10,399	10,399	10,295	10,295
			10,399	10,399	10,295	10,295
Total financial assets			11,449,003	11,550,197	10,338,902	10,438,723
Financial liabilities						
Fair value through profit or loss						
Fair value in the purchase and sale of power (d)	27	3	1,179,010	1,179,010	738,703	738,703
			1,179,010	1,179,010	738,703	738,703
Amortized cost						
Sectorial financial liabilities (a)	8		259,123	259,123	483,255	483,255
ICMS installment payment (f)	12.2.4		46,744	42,265	48,320	43,419
Special Tax Regularization Program - Pert (f)	12.2		399,068	338,001	404,075	340,025
PIS and Cofins to be refunded to consumers (a)	12.2.1		2,046,612	2,046,612	1,995,158	1,995,158
Accounts payable to suppliers (a)	19		2,087,719	2,087,719	2,215,470	2,215,470
Loans and financing (f)	20		5,495,728	5,239,038	4,694,957	4,171,789
Debentures (h)	21		9,365,885	9,092,840	7,887,077	7,688,396
Accounts payable related to concession (i)	25		935,943	1,051,992	937,542	1,051,710
			20,636,822	20,157,590	18,665,854	17,989,222
Total financial liabilities			21,815,832	21,336,600	19,404,557	18,727,925

Different levels are defined as follows:

Level 1: Obtained from quoted prices (not adjusted) in active markets for identical assets and liabilities;

Level 2: obtained through other variables in addition to quoted prices included in Level 1, which are observable for the assets or liabilities;

Level 3: obtained through assessment techniques which include variables for the assets or liabilities, which however are not based on observable market data.

Determining fair values

- Equivalent to their respective book values due to their nature and terms of realization.
- Fair value is calculated based on information made available by the financial agents and the market values of the bonds issued by the Brazilian government
- Financial assets with fair values similar to book values (Note 4.4 of the financial statements as of December 31, 2022).

- d) The fair values of assets and liabilities are equivalent to their book values (Note 4.15 of the financial statements as of December 31, 2022).
- e) Investments in other companies, stated at fair value, which is calculated according to the price quotations published in an active market, for assets classified as level 1 and determined in view of the comparative assessment model for assets classified as level 2.
- f) The cost of the highest value of the last funding carried out by the Company, CDI + spread of 1.40%, was used as a basic assumption for the discount of the expected payment flows, except for contracts with Banco do Nordeste do Brasil - BNB that have the fair value similar to the book value, in view of the contractual characteristics for the construction of specific infrastructure.
- g) Receivables related to the concession agreement for providing electricity generation services under quota arrangements, having their fair value calculated by expected cash inflows, discounted at the rate established by Aneel auction notice 12/2015 (9.04%).
- h) Calculated according to the quotation of the last trade in the secondary market through the average price of the Unit Price - PU on March 31, 2023, obtained from the Brazilian Association of Financial and Capital Market Entities - Anbima.
- i) The actual pre-tax discount rate of 8.65% p.a. was used, compatible with the rate estimated by the Company for long-term projects.
- j) Financial assets with fair values similar to book values (Note 4.2 of the financial statements as of December 31, 2022).

34.2 Financial risk management

The Company's business activities are exposed to the following risks arising from financial instruments:

34.2.1 Credit risk

Credit risk is the risk of the Company incurring losses due to a customer or counterparty in a financial instrument, resulting from failure in complying with their contractual obligations.

Consolidated		
Exposure to credit risk	03.31.2023	12.31.2022
Cash and cash equivalents (a)	2,911,274	2,678,457
Bonds and securities (a)	501,792	431,056
Pledges and restricted deposits linked (a)	178	157
Trade accounts receivable (b)	3,577,994	3,451,869
Sectorial financial assets (c)	436,180	381,398
Accounts receivable - distribution concession (c)	1,560,022	1,442,819
Accounts receivable - concessions - bonus from the grant (d)	782,005	766,832
Accounts receivable - generation concessions (e)	70,001	68,642
Other temporary investments (f)	26,802	25,619
	9,866,248	9,246,849

- a) The Company manages the credit risk of its assets in accordance with the Management's policy of investing virtually all its funds in federal banking institutions. As a result of legal and/or regulatory requirements, in exceptional circumstances the Company may invest funds in prime private banks.
- b) Risk of losses resulting from difficulties to receive amounts billed to customers related to internal and external factors. To mitigate this type of risk, the Company manages its accounts receivable, detecting customers most likely to default, implementing specific collection policies and suspending the supply and/or recording of energy and the provision of service, as established in contract and regulatory standards.
- c) Management considers the risk of this credit to be reduced, since the agreements signed guarantee the unconditional right to receive cash at the end of the concession to be paid by the Granting Authority, corresponding to the costs and investments not recovered through the tariff.
- d) Management considers the risk of such credit to be low, as the contract for the sale of energy by quotas guarantees the receipt of an Annual Generation Revenue - RAG, which includes the annual amortization of this amount during the concession term.
- e) For the generation concession assets, Aneel published Normative Resolution 596/2013, which deals with the definition of criteria for calculating the New replacement value (VNR), for the purposes of indemnification. In July 2021, Normative Resolution No. 942/2021 was published, later covered by Normative Resolution No. 1027/2022, which regulated the calculation of these values through the presentation of appraisal reports to be prepared by accredited companies. In August 2022, Copel filed with Aneel the assessment reports related to the residual values, with a base date of July 2015, for the HPP Governador Parigot de Souza - GPS and HPP Mourão - MOU, which, since January 2023, are being inspected by the regulatory agency. Management's expectation of indemnification for these assets supports recoverability of the balances recorded.
- f) Risk arising from the possibility of the Company incurring losses due to stock market volatility. This type of risk involves external factors and is being managed through periodic assessments of the variations in the market.

34.2.2 Liquidity risk

The liquidity risk of the Company consists of the possibility of having insufficient funds, cash or other financial assets, to settle obligations on their scheduled maturity dates.

The Company manages liquidity risk by relying on a set of methodologies, procedures and instruments applied to secure ongoing control over financial processes to ensure proper management of risks.

Investments are financed by incurring medium and long-term debt with financial institutions and capital markets.

Short, medium and long-term business projections are made and submitted to Management bodies for evaluation. The budget for the next fiscal year is annually approved.

Medium and long-term business projections cover monthly periods over the next five years. Short-term projections consider daily periods covering only the next 90 days.

The Company permanently monitors the volume of funds to be settled by controlling cash flows to reduce funding costs, the risk involved in the renewal of loan agreements and compliance with the financial investment policy, while concurrently keeping minimum cash levels.

The following table shows the expected undiscounted settlement amounts in each time range. Projections were based on financial indicators linked to the related financial instruments and forecast according to average market expectations as disclosed in the Central Bank of Brazil Focus Report, which provides the average expectations of market analysts for these indicators for the current year and for the next 3 years. From 2027 on, the 2026 indicators are repeated throughout the forecast period.

Consolidated	Interest (a)	Less than 1 month	1 to 3 months	3 months to 1 year	1 to 5 years	Over 5 years	Total
03.31.2023							
Loans and financing	Note 20	52,825	121,861	610,528	3,830,773	3,543,526	8,159,513
Debentures	Note 21	97,845	246,457	1,822,359	7,221,381	4,045,759	13,433,801
Accounts payable related to concession	Rate of return + IGP-M and IPCA	9,690	19,381	87,925	505,839	2,201,398	2,824,233
Accounts payable to suppliers	-	1,793,309	205,504	22,703	66,203	-	2,087,719
PIS and Cofins to be refunded to consumers	Note 12.2.1	-	-	825,000	1,237,005	-	2,062,005
Special Tax Regularization Program - Pert	Selic	4,909	9,928	46,477	287,122	149,387	497,823
ICMS installment payment	Selic	896	1,812	8,464	43,942	-	55,114
Sectorial financial liabilities	Selic	17,529	35,598	169,377	60,733	-	283,237
Lease liability	Note 26	2,524	5,074	21,502	64,255	261,794	355,149
		1,979,527	645,615	3,614,335	13,317,253	10,201,864	29,758,594

(a) Effective interest rate - weighted average.

As disclosed in Notes 20.4 and 21.3, the Company and its subsidiaries have loans and financing agreements and debentures with covenants that if breached may have their payment accelerated.

34.2.3 Market risk

Market risk is the risk that the fair value or the future cash flows of a financial instrument shall oscillate due to changes in market prices, such as currency rates, interest rates and stock price. The purpose of managing this risk is to control exposures within acceptable limits, while optimizing return.

a) Foreign currency risk (US Dollar)

This risk comprises the possibility of losses due to fluctuations in foreign exchange rates, which may reduce assets or increase liabilities denominated in foreign currencies.

The effect of the exchange rate variation resulting from the power purchase agreement with Itaipu is transferred to customers in Copel DIS's next tariff adjustment. The exchange rate risk in the purchase of gas by Compagas is mitigated by the monitoring and transfer of the price variation to customers through tariff, when possible. The Company maintains permanent monitoring of these fluctuations.

Sensitivity analysis of foreign currency risk

The Company has developed a sensitivity analysis to measure the impact of the devaluation of the US dollar on its financial liabilities subject to currency risk.

The valuation of the financial instruments considers the possible effects on profit and loss and equity of the risks evaluated by the Company's Management on the reporting date for the financial instruments, as recommended by CPC 40 (R1) / IFRS 7 - Financial Instruments: Disclosure. Based on the equity position and the notional value of the financial instruments outstanding at the date of these interim financial information, it is estimated that these effects will approximate the amounts stated in the above table in the column for the forecast probable scenario, since the assumptions used by the Company are similar to those previously described.

For the baseline scenario, the accounting balances recorded on the date of these interim financial information were considered and for the probable scenario, the Company considers the balance updated with the exchange rate variation - prevailing at the end of the period (R\$/US\$5.20) based on the median market expectation for 2023 according to the Central Bank of Brazil Focus Report. Additionally, the Company continues to monitor scenarios 1 and 2, which consider a deterioration of 25% and 50%, respectively, in the main risk factor of the financial instrument in relation to the level used in the probable scenario, because of extraordinary events that may affect the economic scenario.

Foreign exchange risk	Risk	Baseline 03.31.2023	Projected scenarios		
			Probable	Scenario 1	Scenario 2
Financial liabilities					
Suppliers					
Itaipu	USD appreciation	(143,285)	(3,373)	(40,038)	(76,702)
Acquisition of gas	USD appreciation	(82,569)	(1,944)	(23,072)	(44,200)
		(225,854)	(5,317)	(63,110)	(120,902)

b) Interest rate and monetary variation risk

This risk comprises the possibility of losses due to fluctuations in interest rates or other indicators, which may reduce financial income or increase financial expenses related to the assets and liabilities raised in the market.

The Company has not entered derivative contracts to cover this risk but has been continuously monitoring interest rates and market indexes to observe any need for contracting.

Sensitivity analysis of interest rate and monetary variation risk

The Company has developed a sensitivity analysis to measure the impact of variable interest rates and monetary variations on its financial assets and liabilities subject to these risks.

The valuation of the financial instruments considers the possible effects on profit and loss and equity of the risks evaluated by the Company's Management on the reporting date for the financial instruments, as recommended by CPC 40 (R1) / IFRS 7 - Financial Instruments: Disclosure. Based on the equity position and the notional value of the financial instruments outstanding at the date of these interim financial information, it is estimated that these effects will approximate the amounts stated in the above table in the column for the forecast probable scenario, since the assumptions used by the Company are similar to those previously described.

For the baseline scenario, the accounting balances recorded on the date of these interim financial information were considered and for the probable scenario, the Company considers the balances updated with the variation of the indicators (CDI/Selic - 12.50%, IPCA - 6.04%, IGP-M - 3.03% and TJLP - 7.12%) estimated as market average projections for 2023 according to the Central Bank of Brazil Focus Report, except TJLP that considers the Company's internal projection. Additionally, the Company continues to monitor scenarios 1 and 2, which consider a deterioration of 25% and 50%, respectively, in the main risk factor of the financial instrument in relation to the level used in the probable scenario, because of extraordinary events that may affect the economic scenario.

Interest rate risk and monetary variation	Risk	Baseline	Projected scenarios		
		03.31.2023	Probable	Scenario 1	Scenario 2
Financial assets					
Bonds and securities	Low CDI/Selic	501,792	47,258	35,565	23,825
Collaterals and escrow accounts	Low CDI/Selic	178	16	12	8
Sectorial financial assets	Low Selic	436,180	40,284	30,323	20,290
Accounts receivable - concessions	Low IPCA	2,342,027	105,312	79,128	52,849
Accounts receivable - generation concessions	Undefined (a)	70,001	-	-	-
		3,350,178	192,870	145,028	96,972
Financial liabilities					
Loans and financing					
Banco do Brasil	High CDI	(752,092)	(69,461)	(86,518)	(103,460)
Banco Itaú	High CDI	(1,008,373)	(93,130)	(115,999)	(138,714)
BNDES	High TJLP	(1,676,611)	(88,787)	(110,750)	(132,623)
BNDES	High IPCA	(393,244)	(17,683)	(22,064)	(26,429)
Banco do Nordeste	High IPCA	(1,587,653)	(71,391)	(89,078)	(106,703)
Banco do Brasil - BNDES Transfer	High TJLP	(57,919)	(3,067)	(3,826)	(4,582)
Other	No risk	(19,836)	-	-	-
Debentures	High CDI/Selic	(6,148,297)	(567,835)	(707,274)	(845,774)
Debentures	High IPCA	(3,128,220)	(140,665)	(175,514)	(210,242)
Debentures	High TJLP	(89,368)	(4,733)	(5,903)	(7,069)
Sectorial financial liabilities	High Selic	(259,123)	(23,932)	(29,808)	(35,646)
ICMS installment payment	High Selic	(46,744)	(4,317)	(5,377)	(6,430)
Special Tax Regularization Program - Pert	High Selic	(399,068)	(36,857)	(45,907)	(54,897)
Accounts payable related to concession	High IGP-M	(871,561)	(19,732)	(24,642)	(29,544)
Accounts payable related to concession	High IPCA	(64,382)	(2,895)	(3,612)	(4,327)
		(16,502,491)	(1,144,485)	(1,426,272)	(1,706,440)

(a) Risk assessment still requires ruling by the Concession grantor.

34.2.4 Electricity shortage risk

Most of the installed capacity in Brazil currently comes from hydroelectric generation, which makes Brazil and the geographic region in which we operate subject to unpredictable hydrological conditions, due to non-cyclical deviations of mean precipitation. Unsatisfactory hydrological conditions may cause, among other things, the implementation of comprehensive programs of electricity savings, such as rationalization or even a mandatory reduction of consumption, which is the case of rationing.

Considering the strong wind generation in the Northeast, biomass generation in the Southeast and the rainy season with affluent natural energies that raised the reservoirs to comfortable values during 2022, it is estimated that the risk of energy shortages in 2023 and 2024 is minimized.

The energy supply guarantee criteria are currently established by the National Energy Policy Council - CNPE through Resolution 29/2019. With reason, the responsible bodies keep the energy deficit risk indicators within the safety margin in all subsystems.

34.2.5 Risk of Generation Scaling Factor - GSF impacts

The Energy Reallocation Mechanism - MRE is a system of redistribution of electric power generated, characteristic of the Brazilian electric sector, which has its existence by the understanding, at the time, that there is a need for a centralized operation associated with a centrally calculated optimal price known as PLD. Since generators have no control over their production, each plant receives a certain amount of virtual energy which can be compromised through contracts. This value, which enables the registration of bilateral contracts, is known as assured energy (GF) and is calculated centrally. Unlike the Settlement price for differences (PLD), which is calculated on a weekly basis, GF, as required by Law, is recalculated every five years, with a limit of increase or decrease, restricted to 5% by revision or 10% in the concession period.

The contracts need to have guarantee. This is done, especially, through the allocation of power generated received from the MRE or purchase. The GSF is the ratio of the entire hydroelectric generation of the MRE participants to the GF sum of all the MRE plants. Basically, the GSF is used to calculate how much each plant will receive from generation to back up its GF. Thus, knowing the GSF of a given month the company will be able to know if it will need to back up its contracts through purchases.

Whenever GSF multiplied by GF is less than the sum of contracts, the company will need to buy the difference in the spot market. However, whenever GSF multiplied by GF is greater than the total contracts, the company will receive the difference to the PLD.

For plants with contracts in the Free Contracting Environment - ACL, the main way to manage the low GSF risk is not to compromise the entire GF with contracts, as well as the timely repurchase of intra-annual energy approaches currently adopted by the Company.

For the contracts in the Regulated Contracting Environment - ACR, Law 13,203/2015 allowed the generators to contract insurance for electricity demand (load), by means of payment of a risk premium. Copel adopted this approach to protect contracts related to energy generated by the HPP Mauá, HPP Baixo Iguaçu, HPP Colíder and SHP Cavernoso II.

For the distribution segment, the effects of the GSF are perceived in the costs associated with quotas of Itaipu, of Angra, of the plants whose concessions were renewed in accordance with Law 12,783/2013 and the plants that renegotiated the hydrological risk in the ACR, in accordance with Law 13,203/2015. This is a financial risk since there is guarantee of neutrality of expenses with energy purchases through a tariff transfer.

The GSF risks are greatly reduced due to the improvement in the hydrological scenario in 2022 concomitant with the low load growth.

34.2.6 Risk of non-renewal of concessions - generation and transmission

The extension of energy generation and transmission concessions, achieved by Law No. 9,074/1995, is regulated by Law No. 12,783/2013, amended by Law No. 14,052/2020, regarding to the deadline for requesting the extension of concessions under the physical guarantee quota system.

According to the mentioned law, the concession operator should request extension of concession at least 36 months before the end date of the contract or act of granting for hydroelectric power plants and electric power transmission enterprises, and 24 months before the end date of the contract or act of granting for thermoelectric plants. The Granting Authority may advance effects of extension by up to 60 months counted as of contract or grant date and may also define initial tariff or revenue, which includes the definition of the tariff or initial revenues for the generation ventures (RAG - Annual Generation Revenue) and transmission ventures (RAP - Permitted Annual Revenue).

Concessions for hydroelectric power generation and electric power transmission may be extended, at the discretion of the Granting Authority, only once, for a period of up to 30 years. Thermoelectric power generation concessions have an extension term limited to 20 years.

In 2018, Decree No. 9.271/2018 was published, amended by Decrees No. 10.135/2019, No. 10.893/2021 and No. 11.307/2022, which regulated the granting of concession contracts in the electricity sector associated with privatization through sale of control by holder of a public service concession for electricity generation, having as one of the conditionings factors the alteration of the exploration regime to Independent Power Producer (IPP). According to the Decree, the manifestation of sale of the concession must take place within up to 42 months from the date of the related formal agreement, and any sale must take place within up to 12 months from the concession end date. If sale of control of the venture does not occur within the specified period, the plant must be subject to auction by the Granting Authority and the same concessionaire can participate in the auction if it meets the qualification conditions.

Some of the generation projects of Copel had their concession period extended due to the effects of the GSF renegotiation, which established the compensation through an extension of the concession period of the plants contemplated by Law No. 13,203/2015, resulting in the approval of the extension period of the concession of these plants through of Ratifying Resolutions No. 2,919/2021 and No. 2,932/2021.

For HPP Governador Bento Munhoz da Rocha Netto - GBM (1,676 MW), whose concession will end in 2024, the Company has not expressed any interest in extending the concession, as internal studies have shown that the extension through early change of the exploration regime would be economically and financially disadvantageous in relation to exploration of the plant under the current regime until concession end. On March 3, 2020, Copel GeT transferred the concession of HPP GBM to the subsidiary F.D.A. Geração de Energia Elétrica S.A. with the purpose of divesting the control of this concessionaire and, thus, allow a new concession grant for 30 years, as provided for in Decree No. 9.271/2018. However, the process of transforming Copel into a “Corporation” is underway, as described in Note 1, which will allow the Company to maintain 100% interest in the HPP GBM. If this corporate transformation of Copel takes place, the concessions of HPP Governador Ney Aminthas de Barros Braga (Segredo) and HPP Governador José Richa (Salto Caxias) will also be renewed.

On November 25, 2022, Copel expressed to the Granting Authority its interest in obtaining a thirty-year concession for these three plants. The analysis of the assumptions used to define the value of the granting bonuses for these three plants, presented in Note 1, is in progress in order to assess the advantage of the operation.

With respect to HPP São Jorge, whose concession ends in 2026, Copel did not express interest in the renewal and intends, at the end of the concession, to request Aneel to convert the granting of concession into granting of registration.

Regarding TPP Figueira concession, which expired in March 2019, the Company awaits the conclusion of the process, which is in progress at Aneel and MME. The plant went through a modernization process that provided direct benefits such as improved energy efficiency and reduced emissions of pollutants in the atmosphere, compared to the old plant. The plant was released for commercial operation on December 7, 2022, through Order No. 3,502/2022.

According to the Law No. 14,052/2020, the Company may express its intention to extend the concession of the HPP Apucarantina until January 2024, and the HPP Guaricana and HPP Chaminé until July and August 2025, respectively. If the Company does not express an interest in the extension of the current regime at its final term, be granted to the Company in the condition of registration, and the other concessions, at their final term, must be returned to the Granting Authority.

Regarding the transmission segment, the only Copel GeT concession to expire in the next ten years is the Concession Contract No. 75/2001, referring to Transmission Line Bateias-Jaguariaíva 230 kV, which will expire on August 17, 2031.

Additionally, regarding the extension of transmission concession contracts, on December 29, 2022 Decree No. 11,314 was published, determining that the extension of transmission concessions may be carried out only when the bidding process is unfeasible or results in damage to the public interest and will be carried out without the advance indemnity of the assets linked to the provision of the service, conditioned to the acceptance by the concessionaire in relation to the revenue and other conditions of the amendment to be prepared by Aneel.

34.2.7 Risk on non-renewal of concessions - distribution of electricity

The fifth amendment to Copel DIS concession contract No. 46/1999 imposes economic and financial efficiency covenants and quality indicators that, if not complied with, may result in termination of the concession, in accordance with the provisions of the contract, particularly the right to full defense and adversary system.

On November 17, 2020, Aneel approved Normative Resolution No. 896, consolidated by Normative Resolution No. 948/2021, which establishes the indicators and procedures for monitoring efficiency in relation to the continuity of supply and the economic-financial management of public electricity distribution service concessions from the year 2021.

Indicators and penalties

Year	Indicator	Criteria	Penalties
From 2021	Economic - financial efficiency	in the base year	Capital Increase (a) Limitation on distribution of dividends and interest on capital Restrictive regime for contracts with related parties
		2 consecutive years	Concession termination
	Quality Indicators	in the base year	Results plan
		2 consecutive years or 3 of the previous 5 calendar years	Limitation on distribution of dividends and interest on capital
		3 consecutive years	Concession termination

(a) Within 180 days from the end of each fiscal year, in the totality of the insufficiency that occurs to reach the Minimum Economic and Financial Sustainability Parameter.

Targets set for Copel Distribuição

Year	Economic and Financial Management	Realized	Quality - limits		Quality - performed	
			DECI	FECI	DECI	FECI
2022	{Net Debt / [EBITDA (-) QRR ≥ 0]} ≤ 1 / (1,11 * Selic)	Achieved	9.19	6.80	7.98	5.29
2023	{Net Debt / [EBITDA (-) QRR ≥ 0]} ≤ 1 / (1,11 * Selic)	-	8.69	6.39	-	-

Net Debt: Gross debt deducted from financial assets, with the exception of financial assets and financial liabilities in administrative or judicial discussion. The accounts that make up the gross debt and financial assets are defined in the attachment VIII to Aneel Resolution No 948/2021.

QRR: Regulatory Reinstatement Share or Regulatory Depreciation Expense. This value will be the one defined in the last Periodic Tariff Review, updated by the variation of the Regulatory Portion B and calculated on a pro rata basis.

Recurring EBITDA: Earnings Before Interest (Financial Result), Taxes (Income Taxes), Depreciation and Amortization.

34.2.8 Risk of non-extension of the gas distribution concession

Upon termination of the concession by the end of the contractual term, the assets linked to the gas distribution services will revert to the Granting Authority, the State of Paraná, and the Company will be compensated for the assets related to the concession that have not yet been amortized, evaluated at their book value monetarily restated up to that date.

34.2.9 Risk of overcontracting and undercontracting of electricity

Under the current regulatory model, the agreement for purchase of electric power by distributors is regulated by Law 10,484/2014 and Decree 5,163/2004, which determine that the purchase of energy must be in the volume necessary to serve 100% of the distributor market.

The difference between the costs remunerated by the tariff and those effectively incurred in the power purchases are fully passed on to captive consumers, as long as the distributor presents a contracting level between 100% and 105% of its market, plus the amounts of involuntary overcontracting recognized by the regulator.

Copel DIS estimates ending the year with a contracting level of 117.5%, but considers that it has sufficient amounts of "involuntary over-contracting" to accommodate the estimated contracting for the year. Thus, there is no risk of penalization for overcontracting.

34.2.10 Gas shortage risk

The natural gas market in Paraná, made up of Compagas consumers (non-thermoelectric market) and the Araucária Thermoelectric Power Plant (UEG Araucária), is supplied by contracts with Petrobras that use the transport infrastructure of the Brazil-Bolivia gas pipeline (Gasbol). Compagas signed a contract with Petrobras for the supply of natural gas, effective from 2022 to 2025, which will make it possible to meet the demand that was not contracted for 2022, as well as part of the estimated demand between 2023 and 2025. UEG Araucária, meanwhile, negotiates and signs short-term natural gas contracts because of its merchant operation regime.

In the current situation of the natural gas sector in Brazil, the Novo Mercado de Gás program, coordinated by the Ministry of Mines and Energy, aims to open the natural gas market to make it dynamic, competitive, integrated with the electrical and industrial sectors. The supply of natural gas is growing and coming from diverse sources, and the great challenge for the sector still focuses on enabling new producers and traders to access infrastructure and the consumer market, currently served mostly by Petrobras. Finally, the new gas law, Law No. 14.134/2021, represents another important step in opening the Brazilian gas market, in order to make it more competitive and with greater potential for expansion.

A possible shortage in the supply of gas could result in losses for Copel due to a reduction in revenue from the natural gas distribution service by Compagas or penalties for non-compliance with the obligations contained in the concession contract. Furthermore, in this scenario, UEG Araucária would probably be kept out of operation. However, the Company considers this risk to be low in view of the situation of the *Novo Mercado de Gás* and the enactment of Law No. 14,134/2021.

34.2.11 Risk of non-performance of wind farms

The power generation purchase and sale contracts for wind power are subject to performance clauses, which provide for a minimum annual and four-year generation of the assured energy committed in the auction. Ventures are subject to climatic factors associated with wind velocity uncertainties. Non-compliance with what is stated in the agreement may jeopardize future revenues of the Company. The balance recorded in liabilities referring to the non-performance is demonstrated in note 27.

34.2.12 Risk related to price of power purchase and sale transactions

The Company operates in the electricity purchase and sale market to achieve results with variations in the price of electricity, respecting the risk limits pre-established by Management. This activity, therefore, exposes the Company to the risk by the volatility of future electricity prices.

Future electricity purchase and sale transactions are recognized at fair value through profit or loss, based on the difference between the contracted price and the market price of operations on the balance sheet date.

The table below shows the notional values of the electricity commercialization contracts on the date of these interim financial information, which have an average maturity of 125 months for purchase contracts and 24 months for sales contracts:

	Purchase	Sale
2023	485,210	491,274
2024	709,159	826,362
2025	698,514	810,863
2026	694,343	748,766
2027	628,018	633,293
2028 to 2040	3,621,647	4,669,632
	6,836,891	8,180,190

The fair value was estimated using the prices defined internally by the Company, which represented the best estimate of the future market price. The discount rate used is based on the NTN-B rate of return disclosed by Anbima on March 31, 2023, without inflation, adjusted for credit risk and additional project risk.

The balances referring to these outstanding transactions at the date of these interim financial information are stated below.

Consolidated	Assets	Liabilities	Net
Current	356,361	(322,821)	33,540
Noncurrent	1,215,995	(856,189)	359,806
	1,572,356	(1,179,010)	393,346

Sensitivity analysis of energy purchase and sale operations

The Company developed a sensitivity analysis to measure the impact of changes in future prices. For the base scenario, the accounting balances recorded on the date of these interim financial information were considered and for the probable scenario, the Company considers the balances updated with the market price curve and NTN-B rate on March 31, 2023. Additionally, the Company continues to monitor scenarios 1 and 2, which consider the 25% and 50% rise or fall applied to future prices considered in the probable scenario, because of extraordinary events that may affect the economic scenario.

Consolidated	Price variation	Baseline 03.31.2023	Projected scenarios		
			Probable	Scenario 1	Scenario 2
Unrealized gains (losses) on energy purchase and sale operations	Increase	393,346	393,346	324,471	255,597
	Decrease	393,346	393,346	462,219	531,093

34.2.13 Counterparty risk in the energy market

Since free energy market still does not have a counterparty acting as guarantor of all agreements (clearing house), there is a bilateral risk of default. Thus, the Company is exposed to the risk of failure in the supply of energy contracted by the buyer/seller. In the event of such failure, the Company is obliged to sell/acquire energy at the spot market price, being further subject to regulatory penalties and loss of amounts paid.

The Company follows a policy that establishes limits for possible operations with each counterparty, after analyzing its credit worthiness, maturity and history.

In addition, even if our policy is more restrictive and the counterparties present good financial condition, the Company is exposed to systemic events in which the default of one agent ends up affecting other energy trading companies in a "domino effect" until reaching the Company's counterparties.

34.3 Capital management

The Company seeks to keep a strong capital base to maintain the trust of investors, creditors and market and ensure the future development of the business. Management also strives to maintain a balance between the highest possible returns with more adequate levels of borrowings and the advantages and the assurance afforded by a healthy capital position. Thus, it maximizes the return for all stakeholders in its operations, optimizing the balance of debts and equity.

The Company monitors capital by using an index represented by adjusted consolidated net debt divided by adjusted consolidated EBITDA (Earnings before interest, taxes, depreciation and amortization), for the last twelve months. The corporate limit established in the debt deeds provides for the annual maintenance of the index below 3.5, and the eventual expectation of non-compliance of that indicator gives rise to actions by the Management to correct the course of the calculations until the end of each year.

34.3.1 Debt to equity ratio:

Indebtedness	Parent company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Loans and financing	-	791,779	5,495,728	3,738,269
Debentures	-	502,400	9,365,885	8,240,769
(-) Cash and cash equivalents	(23,675)	(199,877)	(2,911,274)	(2,678,457)
(-) Bonds and securities	(92)	(93)	(501,792)	(431,056)
Net debt	(23,767)	1,094,209	11,448,547	8,869,525
Equity	21,443,824	20,817,364	21,766,529	21,131,225
Debt to equity ratio	-	0.05	0.53	0.42

35. Related Party Transactions

35.1 Balances with related parties

The table below shows the balances of Related Parties highlighted in specific lines of the Statements of Financial Position:

	Parent Company		Consolidated	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022
Current assets				
Subsidiaries				
Structure sharing (35.1.1)	4,751	-	1,430	1,135
Copel DIS - loan (35.1.2)	213,331	-	-	-
Jandaíra wind complex - loan agreement (35.1.3)	52,133	47,404	-	-
Current liabilities				
Subsidiaries				
Structure sharing (35.1.1)	2,349	1,838	-	-
Noncurrent liabilities				
Subsidiaries				
Elejor advance	5,851	5,851	-	-

35.1.1 Structure sharing

Balances mainly refer to contracts for sharing personnel and management expenses entered between Copel and its direct and indirect subsidiaries.

35.1.2 Loan agreement - Copel DIS

On February 27, 2023, a loan agreement was signed between Copel and Copel DIS, with the approval of limits plus IOF and interest of CDI + 1.40% p.a., to provide resources for financing the company activities and business. The contract is valid until February 27, 2025. Of the overall approved amount of R\$400,000, the amount of R\$211,000 was transferred and the financial income for the period ended as of March 31, 2023 is R\$1,741.

35.1.3 Loan agreement - Jandaíra Complex

On May 17, 2022, a loan agreement was signed between Copel and the companies of the Jandaíra Wind Complex, with the approval of limits plus IOF and interest of CDI + 1.38% p.a., to provide resources for financing the company activities and business. The contracts are valid until May 17, 2024. Of the overall approved amount of R\$49,400, the amount of R\$49,087 was transferred and the financial income for the period ended as of March 31, 2023 is R\$1,833.

35.2 Other related party transactions

The table below shows the balances arising from other transactions with related parties carried out by the Company:

Consolidated Related parties / Nature of operation	Assets		Liabilities		Revenue		Cost / Expense	
	03.31.2023	12.31.2022	03.31.2023	12.31.2022	03.31.2023	03.31.2022	03.31.2023	03.31.2022
Controlling shareholder								
State of Paraná - dividends payable	-	-	109,777	109,777	-	-	-	-
Energia Solidária Program (a)	-	9,735	-	-	-	-	-	-
Tarifa Rural Noturna Program (a)	2,547	8,353	-	-	-	-	-	-
Employees transferred (b)	429	305	-	-	-	-	-	-
Meteorological System of Paraná - Simepar (c)	-	-	1,140	298	-	-	(2,480)	(1,901)
Entities with significant influence (d)								
BNDES and BNDESPAR - dividends payable	-	-	76,684	76,684	-	-	-	-
Financing (Note 20)	-	-	2,062,421	2,097,606	-	-	(49,570)	(47,612)
Debentures - Compagás	-	-	-	-	-	-	-	-
Debentures - wind farms (Note 21)	-	-	214,173	216,811	-	-	(7,726)	(8,423)
State of Paraná investee								
Sanepar (e)	-	-	147	448	-	-	(545)	(1,903)
Use of water taken from plants' reservoirs	-	-	-	-	485	234	-	-
Joint ventures								
Voltalia São Miguel do Gostoso (f)								
Dividends	1,032	1,032	-	-	-	-	-	-
Caiuá Transmissora de Energia (g) (h) (i)								
Dividends	5,486	5,486	-	-	-	-	-	-
Integração Maranhense Transmissora (h) (i)								
Dividends	6,885	6,885	-	-	-	-	(720)	(605)
Matrinchá Transmissora de Energia (h) (i)								
Dividends	41,577	41,577	-	-	-	-	(5,488)	(3,722)
Guaraciaba Transmissora de Energia (h) (i)								
Dividends	49,966	50,137	-	-	-	-	(2,748)	(1,618)
Paranaíba Transmissora de Energia (h) (i)								
Dividends	9,644	5,400	-	-	-	-	(3,531)	(2,402)
Cantareira Transmissora de Energia (h) (i)								
Dividends	9,254	9,254	-	-	-	-	(2,694)	(1,913)
Mata de Santa Genebra Transmissão (h) (i) (j)								
Dividends	13,333	13,333	-	-	-	-	(5,893)	(4,121)
Associates								
Dona Francisca Energética S.A. (k)								
Dividends	56	852	-	-	-	-	(4,062)	(3,936)
Foz do Chopim Energética Ltda. (l)								
Dividends	302	302	-	-	906	810	-	-
Key management staff								
Fees and social security charges (Note 31.2)	-	-	-	-	-	-	(5,559)	(5,513)
Pension and healthcare plans (Note 22.3)	-	-	-	-	-	-	(328)	(332)
Other related parties								
Fundação Copel								
Administrative property rental	-	-	100,982	102,410	-	-	(2,894)	(2,908)
Pension and healthcare plans (Note 22.3)	-	-	1,081,258	1,070,037	-	-	-	-
Lactec (m)								
Dividends	3	3	1,633	1,131	116	152	(784)	(562)
Tecpar (n)								
Dividends	-	-	-	-	513	323	-	-
Celepar (n)								
Dividends	-	-	-	-	278	-	-	-
Assembleia Legislativa do Paraná (n)								
Dividends	-	-	-	-	80	78	-	-
Portos do Paraná (n)								
Dividends	-	-	-	-	1,041	368	-	-

- a) *Energia Solidária* Program, created by state law No. 20.943/2021, replacing the *Luz Fraterna* Program, establishes the payment of electricity consumption to benefit low-income families, residing in the State of Paraná, whose properties - consumer units - are used exclusively for residential purposes, whether in urban or rural areas, and fulfill the requirements established in articles 2 and 3 of this law.

In March 2018, the amount of R\$159,274 was settled. The principal interest, fine and monetary restatement totaled R\$158,849. For these charges on electricity bills for the period of September 2010 to June 2015, a lawsuit was filed against the State of Paraná on November 5, 2018, relating to the payment of invoices under the State Law No. 14,087/2003. We highlight that despite the negotiations

maintained by Management, seeking to settle this debt, uncertainties still exist regarding the realization of this asset and, therefore, this asset was not recognized, in compliance with the current accounting standards. For the tax treatment, as determined by the Brazilian Federal Revenue Office in the Normative Instruction No. 1,753/2017, the Company has taxed this revenue. Copel and the State of Paraná appealed the decision. The case is expected to be processed and sent to the Court of Justice of Paraná, for judgment at the appeal level. Management reinforces that it is making all necessary efforts and taking all appropriate measures to preserve the Company's interests.

Tarifa Rural Noturna Program, regulated by Decree No. 1,288/2019, provides for the payment to Copel Distribuição, by the State Government, of the amount corresponding to 60% of the active electricity tariff and of the charges resulting from this service, including the additional tariff flag, owned by the beneficiary consumers, included in the denominated night period consumption, as specified in the decree.

- b)** Reimbursement of wages and social charges for employees transferred to the Paraná State Government. Balances presented are net of expected credit loss.
- c)** The Sistema Meteorológico do Paraná - Simepar is a supplementary unit of the Independent Social Service Paraná Technology, linked to the State Department of Science, Technology and Higher Education. Simepar has contracts with Copel for services of weather forecast, meteorological reports, ampacity analysis, mapping and analyses of winds and atmospheric discharges.
- d)** BNDES is the parent company of BNDES Participações S.A. - BNDESPAR, which owns Copel shares (Note 29.1). On December 22, 2018, the shareholder agreement between the State of Paraná and BNDESPAR, signed on December 22, 1998, was ended. BNDES and BNDESPAR acquired all the debentures issued by the subsidiaries Nova Asa Branca I, Nova Asa Branca II, Nova Asa Branca III, Nova Eurus IV and Ventos de Santo Uriel.
- e)** Basic sanitation provided by Sanepar.
- f)** Contracts for connection to the transmission system signed by Copel GeT, Costa Oeste, Marumbi and Uirapuru, with maturities between 2031 and 2048.
- g)** Operation and maintenance services agreement provided by Copel GeT, maturing on May 10, 2026. Transmission System Connection Agreement - CCT executed by Copel DIS, expiring by the end of the concession agreement of the distribution or transmission company, whichever takes place first.
- h)** Charges for use of the transmission system due by Copel GeT, FDA, UEG Araucária and wind farms.
- i)** Copel DIS maintains a Contract for the Use of Transmission System (Cust) with ONS and power transmission concession operators whose subject matter is the contracting of Transmission System Use Amount (Must). Contracting is permanent and is regulated by Aneel Normative Resolution 666/2015. Amounts are defined for four subsequent years, with annual reviews.

- j) Agreements entered by Copel GeT: for operation and maintenance services, maturing on February 1, 2028, and facility sharing, maturing on January 1, 2043.
- k) Connection to the transmission system contracts entered by Copel GeT, Costa Oeste, Marumbi and Uirapuru, maturing on between the years 2031 and 2048. Power purchase and sale agreement made by Copel GeT, maturing on March 31, 2025.
- l) Contracts entered into by Copel GeT: for operation and maintenance, maturing on May 23, 2025, and connection to the transmission system, maturing on January 1, 2043.
- m) The Institute of Technology for Development (Lactec) is a Public Interest Civil Society Organization (OSCIP), of which Copel is an associate. Lactec has service and R&D contracts with Copel GeT, FDA. UEG Araucária and Copel DIS, which are subjected to prior or later control and approval by Aneel. Copel COM provides services and sells energy to the institute.
- n) Energy sale agreement signed between Copel COM and: Institute of Technology of Paraná – Tecpar (public company of the State Government that supports innovation and economic and social development in Paraná and Brazil), Information Technology Company of Paraná - Celepar (mixed capital company that is part of the indirect administration of the Paraná State Government), Portos do Paraná (port complex that operates as a public company of the State Government, subordinated to the Infrastructure and Logistics Secretary of State) and Assembleia Legislativa do Paraná (legislative assembly of the State).

The relevant transactions with related parties are shown above. Transactions arising from operations in a regulated environment are billed according to the criteria and definitions established by the regulatory agents and other transactions are recorded according to the market prices practiced by the Company.

Copel's direct and indirect subsidiaries have short and long-term energy purchase and sale agreements entered with each other, carried out in accordance with the criteria and definitions of the regulated environment. Both the balances of existing transactions and the balances of commitments are eliminated from each other when preparing the Company's consolidated financial statements.

In addition, Copel GeT has energy purchase commitments with Dona Francisca in the amount of R\$43,999 (R\$47,935 on December 31, 2022), and Copel COM has energy sale commitments signed with agencies and / or entities related to the Paraná State Government, totaling R\$23,307 (R\$25,050 on December 31, 2022).

Regarding the compensation of key management personnel, the Company does not have additional obligations beyond the short-term benefits disclosed in the table above and in the notes referenced.

35.3 Guarantees awarded to related parties

Sureties and guarantees granted by Copel to its subsidiaries for financing and debentures are informed in Notes 20 and 21.

Copel provided financial guarantees, in the form of corporate guarantee letter, for power purchase and transport agreements made by Copel GeT and its subsidiaries, in the total amount of R\$4,449 (R\$4,449 on December 31, 2022) and made by Copel COM (Copel Mercado Livre), in the amount of R\$550,565 (R\$329,725 on December 31, 2022).

Sureties and guarantees granted by Copel and Copel GeT for financing, and debentures of joint ventures are reported below:

Company	Operation	Final maturity	Amount approved	Balance (a)	Interest %	Amount guarantees
(1) Caiuá Transmissora	Financing BNDES	02.15.2029	84,600	25,012	49.0	(b)
(2) Cantareira Transmissora	Debentures	08.15.2032	100,000	87,056	49.0	(b)
(3)	Financing	09.15.2032	426,834	362,867		(b)
(4) Guaraciaba Transmissora	Financing BNDES	01.15.2031	440,000	285,179	49.0	(b)
(5)	Debentures	12.15.2030	118,000	123,654		(b)
(6)	Financing BNDES	06.15.2029	691,440	285,517		(b)
(7) Matrinchá Transmissora	Debentures (2 nd)	06.15.2029	180,000	214,431	49.0	(b)
(8)	Debentures (3 rd)	12.15.2038	135,000	155,966		(c)
(9) IMTE Transmissora	Financing	02.12.2029	142,150	45,298	49.0	(b)
(10) Mata de Santa Genebra	Debentures (2 nd)	11.15.2030	210,000	1,716,857	50.1	860,145
(11)	Debentures (3 rd)	11.15.2041	1,500,000	0		
(12) Paranaíba Transmissora	Financing	10.15.2030	606,241	401,985	24.5	(b)
(13)	Debentures	03.15.2028	120,000	90,096		(b)
						860,145

(a) Gross debt balance, discounted from restricted cash that is already guaranteed by the companies themselves.

(b) For these contracts, the corporate guarantee and/or the letter of guarantee were exonerated, leaving only the pledge of Copel GeT shares.

(c) The guarantees to be provided in the 3rd issue will only be presented after the maturity of the Debentures of the 2nd issue and the Financing with BNDES.

Corporate guarantee provided by Copel: (10) (11)

Operation guarantee: pledge of shares held by Copel Get in the ventures.

36. Commitments

The main commitments related to long-term contracts not yet incurred, and therefore not recognized in these interim financial information, are as follows:

Consolidated	03.31.2023	12.31.2022
Energy purchase and transportation contracts	116,914,978	108,768,267
Acquisition of assets for electricity distribution	1,474,426	1,187,336
Gas purchase contracts	3,659,906	3,875,135

37. Insurance

The specification by risk modality and effective date of the main insurance policies can be seen below:

Policy	End of term	Insured amount
Operational risks - Cutia and Bento Miguel	03.29.2024	2,209,803
Named perils	08.24.2023	2,130,270
Operational risks - HPP Baixo Iguaçu	05.31.2023	2,042,375
Operational risks - HPP Colíder	12.01.2023	1,892,320
Operational risks - HPP Governador Jayme Canet Junior	01.21.2024	1,594,472
Operational risks - Ventos de Serra do Mel II e IV	11.28.2023	1,075,284
Fire - owned and rented facilities	08.24.2023	854,464
Operational risks - Brisa Potiguar	06.27.2023	766,454
Operational risks - UEG Araucária (a)	05.31.2024	744,222
Operational risks - Elejor	09.07.2023	728,426

(a) The insured amount of operational risks - UEG Araucária has been translated from USD into BRL, with the current rate R\$5.0804 as of March 31, 2023.

In addition to the insurance policies listed above, the Company and its subsidiaries take out other insurance policies with lower values, such as: Directors and Officers liability (D&O), general civil liability, court award payment guarantee, sundry perils, national and international transportation, life, aircraft and vehicles. Additionally, the Company has an indemnity contract, in addition to the D&O insurance. The guarantee insurances taken out by the subsidiaries, joint ventures and associates have Copel and/or Copel GeT as a guarantor, within the limits of their share of interest in each project.

38. Additional information to the Statement of Cash Flows

38.1 Transactions not involving cash

Of the total additions of contract assets (shown in Notes 10.1 and 10.2) and acquisitions of property, plant and equipment (shown in Note 16.2), R\$146,540 (R\$194,224 as of March 31, 2022) and R\$3,555 (R\$31,321 as of March 31, 2022), respectively, represent the amount of purchases made in installments and not settled through the end of the reporting period.

According to Note 26, the additions and remeasurement adjustment occurred in right-of-use assets totaled R\$12,512 (R\$35,819 as of March 31, 2022), with a corresponding entry in lease liabilities.

The mentioned transactions did not involve cash and, for this reason, are not being presented in the statement of cash flows.

Curitiba, May 10, 2023

Cassio Santana da Silva
Acting Chief Executive Officer
Chief Business Development Officer

Ana Letícia Feller
Chief Business Management Officer

Adriano Rudek de Moura
Chief Financial and Investor
Relations Officer

Vicente Loiácono Neto
Chief Governance, Risk and
Compliance Officer

Eduardo Vieira de Souza Barbosa
Chief Legal and Regulatory Officer

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

COMMENTS ON PERFORMANCE

As of March 31, 2023

in thousands of Brazilian reais

1 New projects

1.1 Generation segment

On January 30, 2023, the acquisition of Santa Rosa & Mundo Novo (SRMN) and Aventura Wind Complexes, with 260.4 MW of installed capacity, from EDP Renováveis Brasil S/A, for R\$1,005 million, was concluded. The project has long-term financing (maturing up to 2043) contracted with Banco do Nordeste (BNB), with rates of IPCA + 2.19% p.a. (Aventura Complex) and IPCA + 1.98% p.a. (Santa Rosa & Mundo Novo Complex).

Wind Farms	Installed Capacity (1) (MW)	Assured Energy (MW med)	Commercial Operation	Energy Sold					End of Authorization
				Auction	Amount (average MW)	Price (2) (R\$/Mwh)	Start of Supply	End of Supply	
Aventura II Aventura III Aventura IV Aventura V	105,0	65,0	since Jul/21	A-6/2017	53,6	130,98	Jan/23	Dec/42	2053
SRMN I SRMN II SRMN III SRMN IV SRMN V	155,4	92,8	since Dec/21 ³ and Feb/22 ⁴	A-6/2017	67,1	133,68	Jan/23	Dec/42	2052 ³ 2053 ⁴
Total	260,4	157,8			120,7	132,48			

¹ Total of 62 Vestas wind turbines, model V150

² Data-base Mar/23

³ SRMN IV and V

⁴ SRMN I, SRMN II and SRMN III

1.2 Distribution segment

Transformation Program (*Programa Transformação*) - broad investment plan with the objective of modernizing, automating and renovating the distribution grid and private communication network with standardized technologies to service automation equipment. Among the expected benefits are the strengthening of rural grid to reduce disconnections and guarantee support for the growth of agribusiness in the State of Paraná, reduction of costs with O&M and commercial services and improvement in the control of DEC (System Average Interruption Duration Index) and FEC (Customer Average Interruption Duration Index) indicators. The program consists of 3 pillar projects to achieve the objectives:

- **Paraná Tri-phase (*Paraná Trifásico*):** represents the improvement and renewal of rural distribution grid in the Company's concession area, with the implementation of a three-phase grid and creation of redundancy in the main rural branches. By the end of March 2023, 185,000 rural customers had already benefited, along 11,667 km of lines.

- **Smart Grid (*Rede Elétrica Inteligente*):** intends to implement a private communication network with standardized technology to service all automation equipment in the distribution grid and advanced metering infrastructure. By the end of March 2023, 458,000 smart meters had been installed.
- **Total Reliability (*Confiabilidade Total*):** aims to ensure modernity in the operations of the energy system based on the following premises: maintain full communication between teams and the availability of equipment on the grid, implement automation in special equipment, maintain the entire municipality of the concession with a substation or special key and expand the grid circuits and Self-Healing equipment. By the end of March 2023, the project had completed 78.9% of the planned schedule.

The Transformation Program encompasses the construction of approximately 25,000 km of new lines, 15,000 new automated points and the implementation of smart grid technology in the state of Paraná.

Compact and Protected Grid - implementation of compact grid predominantly in urban areas with a high degree of afforestation in the vicinity of distribution grid and protected grid exclusively in rural areas. Compact grid avoids cutting and pruning trees and improves the quality of supply, as it reduces the number of disconnections. Protected grid also improves the quality and reliability of the system as it avoids interruptions due to contact with vegetation or other objects and bad weather. At the end of March 2023, the extension of the compact and protected grid installed was 24,463 km (19,767 km in March 2022), an increase of 4,696 km, or 23.76%, in twelve months.

Isolated Secondary Grid - investment in isolated low voltage secondary grid (127/220V), which have significant advantages over the conventional overhead grid, such as: improving the indicators DEC and FEC; hinder energy theft, improve environmental conditions, reduce pruning areas, increase safety, reduce voltage drop across the grid and increase the life of transformers by reducing the number short circuits in the network, among others. At the end of March 2023, the extension of isolated secondary distribution grid installed was 22,104 km (21,119 km in March 2022), an increase of 985 km, or 4.66%, in twelve months.

2 Energy Market

Market behavior - Energy generation by Copel Geração e Transmissão S.A. and its wind farms in 1Q23 was 6,430 GWh (3,626 GWh in 1Q22). The increase is due, for hydroelectric plants, to improved weather conditions in the Southern Region and, for wind plants, to the start of commercial operation of Jandaíra and the acquisition of the Aventura and SRMN wind complexes.

Copel group energy flow

Energy Flow (GWh)		January through March 2023	
Own generation		6.430	43,3%
Energy received		8.408	56,7%
CCEAR	3.358		
Itaipu	1.174		
Dona Francisca	33		
CCEE (MCP)	-		
Angra	215		
CCGF	1.216		
MRE	14		
Elejor	10		
Proinfa	101		
Other ¹	2.287		
Availability		14.838	
Captive Market		5.150	34,7%
Concessionaires²		22	0,1%
Electricity sales to distributor CCEE³		47	0,3%
Assignment MCSD EN⁴		48	0,3%
CCEE (MVE)		-	0,0%
Free Customers		2.927	19,7%
Energy Supplied		6.310	42,5%
Bilateral Agreements		2.964	
CCEAR		1.129	
CER		226	
CCEE(MCP)		1.006	
MRE		985	
Losses and differences		334	2,3%
Basic Network Losses		135	
Distribution Losses ⁵		281	
Allocation of contracts in the GC		66	
Wind Farms Contracts ⁶		(148)	

CCEAR: Energy Purchase Agreements in the Regulated Market.

CER: Reserve Energy Agreements.

CCEE (MVE): Financial settlement of energy surpluses from the distributor to the free market through the Surplus Sale Mechanism

CCEE (MCP): Electric Power Trade Chamber (Short-term market).

MRE: Energy Reallocation Mechanism.

CG: Center of gravity of the Submarket (difference between billed and energy received from CG).

¹ Other: Energy purchased by Copel Comercialização and Copel Distribuição.

² Electricity sales to concessionaires and licensees with own market of less than 500GWh/year.

³ Electricity sales to the agent distributor of CCEE through a Regulated Bilateral Contract - CBR.

⁴ Assignments MCSD EN - Contractual assignments to other distributors through the Mechanism for Compensation of Surpluses and Deficits (MCSD)

⁵ Considers the Mini and Micro Distributed Generation (MMGD) effects .

⁶ Considers losses and the volume of energy not delivered, referring to availability contracts, which provide for subsequent reimbursement.

It does not consider the energy produced by TPP Araucária sold in the MCP (Short Term Market) or through bilateral contracts.

Copel Group energy sale

Segment	GWh		
	Jan - Mar 2023	Jan - Mar 2022	Variation
Copel Distribuição			
Captive Market¹	5.150	5.319	-3,2%
Residential	2.254	2.267	-0,6%
Industrial	474	516	-8,1%
Commercial	1.167	1.207	-3,3%
Rural	640	712	-10,1%
Other	614	618	-0,6%
Concessionaries and Licensees	22	23	-4,3%
CCEE (Cessões MCSD EN)	48	52	-7,7%
CCEE (MVE)	-	173	-
CCEE (MCP)	435	120	262,5%
Total Copel Distribuição	5.655	5.687	-0,6%
Copel Geração e Transmissão			
CCEAR (Copel Distribuição)	33	31	6,5%
CCEAR (other concessionaries)	569	567	0,4%
Free Customers	-	-	-
Bilateral Agreements (Copel Mercado Livre)	3.492	3.692	-5,4%
Bilateral Agreements ²	153	150	2,0%
CCEE (MCP) ³	313	56	458,9%
Total Copel Geração e Transmissão	4.560	4.496	1,4%
Wind Farms Complex			
CCEAR (Copel DIS)	22	8	175,0%
CCEAR (other concessionaries)	560	318	76,1%
CER (c)	226	226	-
Bilateral Agreements (Copel Mercado Livre)	122	79	54,4%
Bilateral Agreements ²	144	102	41,2%
CCEE (MCP) ³	112	72	55,6%
Total Wind Farms Complex	1.186	805	47,3%
Copel Comercialização			
Free Customers	2.927	2.922	0,2%
Bilateral Agreements (Copel)	-	97	-
Bilateral Agreements ²	2.820	3.080	-8,4%
CCEE (MCP) ³	146	66	121,2%
Total Copel Comercialização	5.893	6.165	-4,4%
Total	17.294	17.153	0,8%

Note: Not considering the energy from MRE (Energy Relocation Mechanism) and the energy from TPP Araucária sold in the CCEE Spot Market.

¹ For the billed market, the Offset Energy from Mini and Micro Distributed Generation (MMGD) is discounted.

² Includes Short Term Sales Agreements.

³ Does not consider negative amounts.

CCEE: Electric Power Trade Chamber / CCEAR: Energy Purchase Agreements in the Regulated Market / MCP: Spot Market / CER: Agreements Reserve Energy.

Copel Distribuição Grid Market (TUSD): Comprising the captive market, supply to concessionaires and permissionaires within the State of Paraná and all the free customers existing in its concession area, had a 1.1% reduction in electricity consumption in 1Q23. The billed grid market, which considers offset energy from Mini and Micro Distributed Generation - MMGD, decreased 3.0% in the quarter, considering the Availability

Cost. The volume of offset energy, which is the surplus of MMGD generation offset in billing, grew 57.9% in the quarter, with highlight to the growth in the Residential (59.7%), Industrial (44.2%) and Rural (82.4%) classes. The number of consumers who signed up for MMGD reached 249,709 in March 2023, an amount 93.2% higher than in March 2022. The result of 1Q23 is due to the consumption of electric energy of the classes:

- i. Rural, with a reduction of 8.6%, due mainly to the reduction in consumption with Agriculture, Livestock and Related Services by 8.3%, justified by the reduction in the number of consumers and the significant increase in the rainfall index in the state in the period, which reduces the need for pumping water to irrigate crops;
- ii. Residential with a reduction of 0.6%, due mainly to the reduction in the average consumption in the period, from 186.4 kWh/month to 181.5 kWh/month, due to the milder temperatures in comparison to the previous year, especially in the month of January, despite the increase of 2.1% in the number of consumer units;
- iii. Commercial, with a reduction of 0.5%, mainly due to the reduction of 2.0% in the Retail Commerce consumption, representing 31.7% of the class consumption, and reduction of 4.6% in the Health Care Activities consumption, representing 4% of the class, partially compensated by the increase of 4.9% in the Wholesale Commerce consumption, except vehicles, representing 14.7% of the class; and
- iv. Industrial, with an increase of 0.1%, due, mainly, to the growth of consumption in the Manufacture of Food Products in 4.8%, representing 38.0% of the class consumption, partially offset by the reduction of consumption in the Manufacture of Wood Products in 23.0%, representing 6.9% of the class consumption.

Copel Distribuição Captive Market: reduction of 3.2% in electricity consumption in the first quarter of 2023. The billed captive market, which considers MMGD offset energy, showed a reduction of 6.5% compared to the previous period.

Number of consumers: the number of final consumers (captive customers of Copel Distribuição and free customers served by Copel GeT, Copel Comercialização and other suppliers within Copel Distribuição concession area) billed in March 2023 was 5,035,748, representing a growth of 1.7% compared to the same period of the previous year.

Segment	Mar 2023	Mar 2022	Variation
Residential	4.149.386	4.064.683	2,1%
Industrial	68.411	70.230	-2,6%
Commercial	431.819	423.646	1,9%
Rural	329.257	338.366	-2,7%
Others	54.146	52.878	2,4%
Total Captive Market	5.033.019	4.949.803	1,7%
Grid Supply (a)	7	7	-
Free Customers (b)	2.722	2.394	13,7%
Total geral	5.035.748	4.952.204	1,7%

(a) Total grid supply in the captive market (concessionaires and licensees) and free.

(b) All free customers served at the Copel Distribuição concession area.

3 Management

Employees

Employees	Mar 2023	Mar 2022
Copel and subsidiaries		
Copel Holding	84	89
Copel Geração e Transmissão	1.490	1.528
Copel Distribuição	4.246	4.323
Copel Telecomunicações	-	-
Copel Comercialização	43	49
	5.863	5.989
Subsidiaries with non-controlling interests		
Compagás	132	133
Elejor	7	7
UEG Araucária	14	15
	153	155

4 Capital Market

In 2023, on [B]3, ON shares (CPLE3) were present in 100% of the trading sessions, closing the period at R\$6.24, with a negative variation of 9.17%; PNB shares (CPLE6) were present in 100% of the trading sessions, closing the period at R\$6.94, with a negative variation of 12.26%. In the same period the IBOVSPA had a negative variation of 7.16%. The UNITS (CPLE11) were present in 85% of the trading sessions closing the period at R\$34.11, with a negative variation of 11.38%.

On the New York Stock Exchange (NYSE), the UNITS (ELP) were present in 100% of the trading sessions, closing the period at US\$6.72, with a negative variation of 7.05%. The DOW JONES index had a positive variation of 0.16% in the period.

On LATIBEX (Latin American Securities Market in Euros), linked to the Madrid Stock Exchange, PNB shares are traded under the code XCOP, were present in 47% of the trading sessions, closing the period at €1.22, with negative variation of 10.29%. In the same period the LATIBEX index had a negative variation of 3.24%. In this period, UNITS under the code XCOPU were present in 2% of the trading sessions, closing the period at €6.45, with no variation.

The following table summarizes the behavior of Copel's shares in the first quarter of 2023:

Stock Performance (Jan - Mar 2023)	ON		PNB		UNIT	
	Total	Daily average	Total	Daily average	Total	Daily average
B3						
Number of Trades	860.153	13.440	5.478.784	85.606	855.679	13.370
Volume Traded	377.635.000	5.900.547	3.930.775.600	61.418.369	126.033.300	1.969.270
Trading Value (R\$ thousand)	2.468.790	38.575	28.462.611	444.728	4.473.292	69.895
Presence in Trading Sessions	64	100%	64	100%	64	100%
Nyse						
Volume Traded	-	-	-	-	221.407.731	3.459.496
Trading Value (US\$ thousand)	-	-	-	-	1.528.508	23.883
Presence in Trading Sessions	-	-	-	-	64	100%
Latibex						
Volume Traded	-	-	535.658	17.855	6.701	6.701
Trading Value (€ thousand)	-	-	709	24	52	52
Presence in Trading Sessions	-	-	30	47%	1	2%

5 Tariffs

Retail Tariffs

Average Retail Tariffs (a) - R\$/MWh	Mar 2023	Mar 2022	Variation
Industrial	503,86	533,92	-5,6%
Residential	529,50	535,12	-1,1%
Commercial	607,35	634,04	-4,2%
Rural	571,89	590,01	-3,1%
Other	410,91	405,30	1,4%
Average Tariff for Electricity and Use of the Grid (R\$/MWh)	586,37	592,33	-1,0%
Average Demand Tariff (R\$/kW)	30,08	29,70	1,3%

(a) Without ICMS and Pis/Cofins. Does not consider tariff flags.

Purchase tariffs

Electricity Purchase Tariffs* - R\$/MWh	Mar 2023	Mar 2022	Variation
Itaipu (a)	189,58	274,54	-30,9%
Auction 2010 - H30	290,05	259,53	11,8%
Auction 2010 - T15 (b)	185,46	405,65	-54,3%
Auction 2011 - H30	298,96	267,57	11,7%
Auction 2011 - T15 (b)	237,59	205,88	15,4%
Auction 2012 - T15 (b)	171,88	161,44	6,5%
Auction 2016 - T20 (b)	219,77	207,68	5,8%
Angra	328,91	335,41	-1,9%
Contract of physical guarantee quotas - CCGF (c)	146,89	114,83	27,9%
Santo Antonio	185,53	166,05	11,7%
Jirau	163,25	146,11	11,7%
Other auctions (d)	207,59	208,42	-0,4%
Average	194,14	200,43	-3,1%

(a) Furnas transport charge not included.

(b) Auction average price according to bilateral payment to sellers. Does not include contracting effects accounted for by CCEE.

(c) Contract of physical guarantee quotas of the HPP that had their concessions extended under the terms of Law 12.783/13.

(d) Products average price. Proinfra not included.

* The table has been updated for all periods as new calculation methodology for average prices, a result of the 4th phase of the Public Hearing 78/2011 Aneel, approved on March 28, 2016.

Supply tariffs

Electricity Supply Tariffs - R\$/MWh	Mar 2023	Mar 2022	Variation
Auction - CCEAR 2011-2040 (UHE Mauá)	278,00	252,48	10,1%
Auction - CCEAR 2013-2042 (Cavernoso II)	302,00	275,87	9,5%
Auction - CCEAR 2015 - 2044 (Colíder)	212,00	192,29	10,3%
Auction - CCEAR 2018 - 2048 (Baixo Iguaçu)	221,00	202,37	9,2%
Concession holders in the State of Paraná	263,00	235,12	11,9%

(a) With PIS/COFINS. Net of ICMS.

6 Economic and financial results

Revenues (Note 30)

Net operating revenue accrued until March 2023, of R\$5,530,666, was 1.0% lower than the R\$5,587,749 recorded in the same period in 2022.

This variation was mainly due to the following facts:

- 10.8% decrease in revenue from electricity sales to final customers, mainly due the Periodical Tariff Readjustment (RTP) of 2022, which reduced the energy tariff by 9.58% (11.32% in 2021), the reduction in energy consumption (load), considering that the wire market of Copel Distribuição is being affected by the Mini and Micro Distributed Generation - MMDG;

- b) 10.9% decrease in revenue from electricity sales to distributors, mainly due to the lower volume of energy sold in bilateral contracts by Copel Mercado Livre, the absence of TPP Araucária dispatch in 1Q23, compared to 238 GWh dispatched in 1Q22, and lower margin with energy sales of Elejor when comparing the periods;
- c) 18.56% reduction in revenue from the use of the main distribution and transmission grid, mainly due to the readjustment of 16.55% in the use tariff in 2022, partially offset by the 3.0% reduction in the grid market billed of Copel Distribuição and by the reduction of inflation indexes that correct the assets of the transmission contracts;
- d) 9,1% increase in construction income mainly due to investments in the energy distribution segment;
- e) 11,6% increase in distribution of piped gas revenue basically due to the tariff readjustment approved in January 2023 that improved the distribution margin in the captive market;
- f) 24.7% reduction in the result of sectoral financial assets and liabilities, due to the lower constitution of portion A assets;
- g) 72.5% increase in other operating revenues mainly due to the increase in revenue from leases and rental of equipment and infrastructure and from the mark-to-market of Copel Comercialização contracts.

Operating Costs and Expenses (Note 31)

Total operating costs and expenses of R\$4,420,514 through March 2023, were 2.4% lower than the R\$4,530,050 recorded in the same period of 2022. The main highlights were:

- a) 6.1% reduction in Electricity purchased for resale, mainly due to the reduction in energy purchases due to the improvement in the hydrological scenario and lower dollar variation on purchases from Itaipu, offset by the increase in energy purchases from micro and mini generators;
- b) 11.3% reduction in Charge of the main distribution and transmission grid mainly due to the reduction in the System Services Charges (ESS) as a result of the reduction in thermal dispatch in the comparison between the periods, offset by the readjustment of the contracts for the use of the grid and the higher value of the Reserve Energy Charge (EER);
- c) 50.6% increase in Personnel and Management compensation mainly due to the vacation benefit indemnity approved in the Collective Bargaining Agreement;
- d) 14.7% and 41.5% increases in material and third-party services, mainly due the higher costs with maintenance of the electric system and installations, partial reflex of new assets, and increase of expenses with customer service/call center and consulting for the acquisition process of the Aventura and Santa Rosa & Mundo Novo Wind Complexes;
- e) 92.1% reduction in materials and supplies for power electricity due to the Araucária TPP not being dispatched, as a result of the good hydrological scenario;

- f) 10.1% increase in depreciation and amortization mainly due to the start of commercial of Jandaíra Wind Complex, TPP Figueira, the acquisition of the Aventura and Santa Rosa & Mundo Novo Wind Complexes and the increase in investments by Copel Distribuição;
- g) variation of R\$126,671 in credit losses, provisions and reversals resulting mainly from the reversal of impairment and the decrease in expected credit losses due to the increase in bill recoveries and cuts by Copel Distribuição;
- h) 11.0% increase in construction costs mainly due to investments in the energy distribution segment.
- i) 10.5% increase in other operating costs and expenses, due to the higher amount of financial compensation for the use of water resources, partially offset by the decrease in taxes and losses from the deactivation and disposal of assets.

Equity in earnings of investees

The equity in earnings of investees until March 2023 was 7.7% lower than the amount recorded in the same period in 2022, due to the negative result of the equity in the electric energy transmission joint ventures, due to the reduction of inflation indexes that correct the transmission contract assets.

Financial Results (Note 32)

The variation of 56.2% in the financial result of March 2023 compared to the same period of 2022 is mainly due to the higher expense of monetary variation and debt charges.

Net income

The net income for the period was R\$635,490, lower by 5.1% than in the same period of the previous year, of R\$669.791, mainly due to the impact of lower inflation rates on the transmission assets, no dispatch of TPP Araucária, lower selling price of energy at Elejor, increase of financial expenses, higher depreciation of new assets, partially offset by the lower purchase of energy, improvement of Portion B of Copel Distribuição, performance of wind farms and entry into operation of new assets (Jandaíra, Aventura and SRMN wind complexes).

EBITDA

The EBITDA (earnings before interest, taxes, depreciation and amortization) is a non-accounting measure prepared by the Company, reconciled with its financial statements, in accordance with the provisions of CVM Resolution 156/2022. It is not a measure recognized by accounting practices adopted in Brazil or international accounting standards, does not have a standard meaning and cannot be comparable to measures with similar titles provided by other companies. The Company discloses it because it is used to measure its performance.

Consolidated				
	03.31.2023	03.31.2022	Variation	12.31.2022
Ebitda Calculation - continued operations				
Net income from continuing operations	635,490	669,791	-5.12%	1,149,321
Deferred IRPJ and CSLL	83,788	13,613	515.50%	(628,389)
Provision for IRPJ and CSLL	161,823	273,849	-40.91%	429,267
Financial expenses (income), net	333,139	213,227	56.24%	1,966,037
Ebit	1,214,240	1,170,480	3.74%	2,916,236
Depreciation and amortization	352,650	320,378	10.07%	1,300,982
Ebitda	1,566,890	1,490,858	5.10%	4,217,218
Attributed to shareholders of the parent company	1,532,519	1,457,343	5.16%	4,091,473
Attributed to non-controlling shareholders	34,371	33,515	2.55%	125,745
Ebitda Margin Calculation				
Ebitda	1,566,890	1,490,858	5.10%	4,217,218
Net operating revenues - ROL	5,530,666	5,587,749	-1.02%	21,927,721
Ebitda Margin% (Ebitda ÷ ROL)	28.3%	26.7%	6.0%	19.2%

The EBITDA cannot be considered separately or as a substitute of net income or operating income, as an indicator of operating performance or cash flow, or to measure the liquidity or the ability to debt payment.

COMPOSITION OF GROUPS RESPONSIBLE FOR GOVERNANCE

BOARD OF DIRECTORS

Chairman	MARCEL MARTINS MALCZEWSKI
Executive Secretary	MARCO ANTÔNIO BARBOSA CÂNDIDO
Members	CARLOS BIEDERMANN FERNANDO TADEU PEREZ LUCIA MARIA MARTINS CASASANTA MARCO ANTONIO BOLOGNA JORGE EDUARDO MARTINS MORAES MARIA CARMEN WESTERLUND MONTERA FAUSTO AUGUSTO DE SOUZA

STATUTORY AUDIT COMMITTEE

Chairman and financial expert	CARLOS BIEDERMANN
Member	MARCO ANTÔNIO BARBOSA CÂNDIDO
External Member	LUIZ CLAUDIO MAIA VIEIRA

SUPERVISORY BOARD

Chairman	DEMETRIUS NICHELE MACEI
Sitting Members	HARRY FRANÇÓIA JÚNIOR JOSÉ PAULO DA SILVA FILHO VICTOR PINA DIAS MARCO AURELIO SANTOS CARDOSO
Deputy Members	ROBERTO ZANINELLI COVELO TIZON OTAMIR CESAR MARTINS VERÔNICA PEIXOTO COELHO MARCOS AURÉLIO DO NASCIMENTO DE LIMA ALEXANDRE MACHADO DE SOUZA

EXECUTIVE BOARD

Chief Executive Officer	DANIEL PIMENTEL SLAVIERO
Chief Business Management Officer	ANA LETÍCIA FELLER
Chief Financial and Investor Relations Officer	ADRIANO RUDEK DE MOURA
Chief Business Development Officer	CASSIO SANTANA DA SILVA
Chief Legal and Institutional Relations Officer	EDUARDO VIEIRA DE SOUZA BARBOSA
Chief Governance, Risk and Compliance Officer	VICENTE LOIÁCONO NETO
Assistant Officer	DAVID CAMPOS

ACCOUNTANT

CRC-PR-043819/O-0 RONALDO BOSCO SOARES

Information about this report:

Investor relations: Phone: +55 (41) 3222-2027
ri@copel.com

(Convenience Translation into English from the Original Previously Issued in Portuguese)

REPORT ON REVIEW OF INTERIM FINANCIAL INFORMATION

To the Management and Shareholders of
Companhia Paranaense de Energia - COPEL

Introduction

We have reviewed the accompanying individual and consolidated interim financial information of Companhia Paranaense de Energia - COPEL ("Company"), included in the Quarterly Information Form (ITR) for the quarter ended March 31, 2023, which comprises the statement of financial position as of March 31, 2023, and the related statements of income, of comprehensive income, of changes in equity and of cash flows for the three-month period then ended, including the explanatory notes.

Management is responsible for the preparation of the individual and consolidated interim financial information in accordance with technical pronouncement CPC 21 (R1) and international standard IAS 34 - Interim Financial Reporting, issued by the International Accounting Standards Board - IASB, as well as for the presentation of such information in accordance with the standards issued by the Brazilian Securities and Exchange Commission (CVM), applicable to the preparation of Quarterly Information (ITR). Our responsibility is to express a conclusion on this interim financial information based on our review.

Scope of review

We conducted our review in accordance with Brazilian and international standards on review of interim financial information (NBC TR 2410 and ISRE 2410 - Review of Interim Financial Information Performed by the Independent Auditor of the Entity, respectively). A review of interim financial information consists of making inquiries, primarily of persons responsible for financial and accounting matters, and applying analytical and other review procedures. A review is substantially less in scope than an audit conducted in accordance with the standards on auditing and, consequently, does not enable us to obtain assurance that we would become aware of all significant matters that might be identified in an audit. Accordingly, we do not express an audit opinion.

Conclusion on the individual and consolidated interim financial information

Based on our review, nothing has come to our attention that causes us to believe that the accompanying individual and consolidated interim financial information included in the ITR referred to above is not prepared, in all material respects, in accordance with technical pronouncement CPC 21 (R1) and international standard IAS 34 applicable to the preparation of ITR, and presented in accordance with the standards issued by the CVM.

Other matters

Statements of value added

The interim financial information referred to above includes the individual and consolidated statements of value added (DVA) for the three-month period ended March 31, 2023 prepared under the responsibility of the Company's Management and disclosed as supplemental information for purposes of the international standard IAS 34. These statements were subject to review procedures performed together with the review of the Quarterly Information (ITR) to reach a conclusion on whether they are reconciled with the interim financial information and the accounting records, as applicable, and whether their form and content are in accordance with the criteria set out in technical pronouncement CPC 09 - Statement of Value Added. Based on our review, nothing has come to our attention that causes us to believe that such statements of value added were not prepared, in all material respects, in accordance with the criteria set out in technical pronouncement CPC 09 and consistently with the individual and consolidated interim financial information taken as a whole.

The accompanying individual and consolidated interim financial information have been translated into English for the convenience of readers outside Brazil.

Curitiba, May 10, 2023

DELOITTE TOUCHE TOHMATSU
Auditores Independentes Ltda.

Jonas Dal Ponte
Engagement Partner

SUPERVISORY BOARD'S OPINION
ON THE INTERIM FINANCIAL STATEMENTS FOR THE FIRST QUARTER OF YEAR 2023

The undersigned members of the Fiscal Council of Companhia Paranaense de Energia - Copel, within their legal and statutory attributions and responsibilities, have reviewed the Interim Financial Statements for the 1st quarter of 2023 approved by the Board of Directors of the Company in a meeting held on this date. The drafts were received and individually analyzed by the board members prior to the meeting and previously discussed with Management and the independent auditors. Based on the work carried out during the quarter, the analyzes made, the monitoring of the discussions about internal controls and the clarifications provided by Management and the independent auditors, also considering the "Report on Review of Individual and Consolidated Interim Financial Information for the Three Months Period Ending March 31, 2023", of the independent auditor, Deloitte Touche Tohmatsu Auditores Independentes Ltda., issued without reservations, the Supervisory Board record that they have not become aware of any fact or evidence that is not reflected in the Interim Financial Statements for the quarter ended March 31, 2023 and they express their opinion that such statements may be disclosed.

Curitiba, May 10, 2023

DEMETRIUS NICHELE MACEI
Chairman

HARRY FRANÇÓIA JÚNIOR

JOSÉ PAULO DA SILVA FILHO

MARCO AURELIO SANTOS CARDOSO

VICTOR PINA DIAS

STATEMENT

By this document, the Executive Board members of Companhia Paranaense de Energia - Copel, mixed capital company, with registered office at José Izidoro Biazetto, 158, Mossunguê, Curitiba - PR, enrolled in the National Registry of Legal Entities (CNPJ) No. 76.483.817/0001-20, for the purpose of the provisions of CVM Instruction No. 80/2022, state that:

(i) We have reviewed, discussed and agree with the opinions expressed in the audit report of Deloitte Touche Tohmatsu Auditores Independentes Ltda. related to the interim financial statements of Copel as of March 31, 2023; and

(ii) We have reviewed, discussed and agree with the interim financial statements of Copel as of March 31, 2023.

In witness whereof, we sign this document.

Curitiba, May 10, 2023

Cassio Santana da Silva
Acting Chief Executive Officer
Chief Business Development Officer

Ana Letícia Feller
Chief Business Management Officer

Adriano Rudek de Moura
Chief Financial and Investor
Relations Officer

Vicente Loiácono Neto
Chief Governance, Risk and
Compliance Officer

Eduardo Vieira de Souza Barbosa
Chief Legal and Regulatory Officer