

## **Companhia Paranaense de Energia**

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

State Registration 10146326-50

Publicly-Held Company - CVM 1431-1

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# **INTERIM FINANCIAL INFORMATION**

## **September / 2022**

## CONTENTS

<b>INTERIM FINANCIAL INFORMATION.....</b>	<b>3</b>
Statements of Financial Position.....	3
Statements of Income.....	5
Statements of Income - Third Quarter Movement .....	6
Statements of Comprehensive Income .....	7
Statements of Comprehensive Income - Third Quarter Movement.....	7
Statements of Changes in Equity.....	8
Statements of Cash Flows.....	9
Statements of Added Value .....	11
<b>NOTES TO THE INTERIM FINANCIAL INFORMATION .....</b>	<b>13</b>
1 Operations .....	13
2 Concessions and Authorizations .....	17
3 Basis of Preparation.....	19
4 Significant Accounting Policies.....	21
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.....	26
10 Contract assets.....	27
11 Other Receivables .....	29
12 Taxes.....	30
13 Prepaid Expenses .....	35
14 Judicial Deposits .....	35
15 Investments .....	36
16 Property, Plant and Equipment.....	39
17 Intangible assets .....	42
18 Payroll, Social Charges and Accruals.....	43
19 Accounts Payable to Suppliers.....	44
20 Loans and Financing.....	45
21 Debentures .....	49
22 Post-employment Benefits .....	51
23 Sectorial Charges Payable.....	53
24 Research and Development and Energy Efficiency .....	53
25 Accounts Payable Related to Concessions .....	54
26 Right-of-use Asset and Lease Liability .....	54
27 Other Accounts Payable .....	56
28 Provisions for Legal Claims and Contingent Liabilities.....	57
29 Equity.....	61
30 Net Operating Revenue .....	63
31 Operating Costs and Expenses.....	66
32 Financial Results.....	70
33 Operating Segments .....	71
34 Financial Instruments .....	74
35 Related Party Transactions.....	87
36 Commitments.....	92
37 Insurance.....	93
38 Additional information to the Statement of Cash Flows.....	93
39 Discontinued operations.....	93
40 Subsequent Events.....	94
<b>COMMENTS ON PERFORMANCE .....</b>	<b>96</b>
1 New projects .....	96
2 Energy Market .....	99
3 Management.....	102
4 Capital Market.....	102
5 Tariffs.....	103
6 Economic and financial results .....	104
<b>COMPOSITION OF GROUPS RESPONSIBLE FOR GOVERNANCE.....</b>	<b>108</b>
<b>INDEPENDENT AUDITOR'S REPORT.....</b>	<b>109</b>
<b>SUPERVISORY BOARD'S OPINION .....</b>	<b>111</b>
<b>STATEMENT.....</b>	<b>112</b>

## INTERIM FINANCIAL INFORMATION

### Statements of Financial Position

as of September 30, 2022, and December 31, 2021

All amounts expressed in thousands of Brazilian reais

ASSETS	Note	Parent Company		Consolidated	
		09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>CURRENT ASSETS</b>					
Cash and cash equivalents	5	122,769	626,052	4,329,330	3,472,845
Bonds and securities	6	91	91	91	16,121
Collaterals and escrow accounts		-	-	54	182
Trade accounts receivable	7	-	-	3,437,247	4,433,193
Dividends receivable		388,284	1,558,212	31,742	68,162
Sectorial financial assets	8	-	-	13,828	383,740
Accounts receivable - concessions	9	-	-	9,090	5,121
Contract assets	10	-	-	204,971	148,488
Other current receivables	11	1,473	1,150	802,556	749,816
Inventories		-	-	200,843	197,779
Income tax and social contribution receivable		11,379	3,991	239,169	151,912
Other current recoverable taxes	12.2	-	-	1,337,892	1,508,864
Prepaid expenses	13	961	528	55,664	53,649
Receivable from related parties	35	24,817	5,374	933	-
		<b>549,774</b>	<b>2,195,398</b>	<b>10,663,410</b>	<b>11,189,872</b>
<b>NONCURRENT ASSETS</b>					
<b>Long Term Assets</b>					
Bonds and securities	6	-	-	420,589	344,937
Other temporary investments		26,899	19,985	26,899	19,985
Collaterals and escrow accounts		-	-	-	142,764
Trade accounts receivable	7	-	-	102,103	82,233
Judicial deposits	14	137,391	131,519	639,799	591,131
Sectorial financial assets	8	-	-	41,485	383,740
Accounts receivable - concessions	9	-	-	2,422,229	2,261,684
Contract assets	10	-	-	7,372,267	6,739,560
Other noncurrent receivables	11	19	7,658	669,876	916,606
Income tax and social contribution receivable		25,000	30,000	46,234	153,850
Deferred income tax and social contribution	12.1	165,198	165,484	1,536,023	963,259
Other noncurrent recoverable taxes	12.2	39,497	38,659	2,716,199	3,143,546
Prepaid expenses	13	-	-	27	27
Receivable from related parties	35	-	150,572	-	-
		<b>394,004</b>	<b>543,877</b>	<b>15,993,730</b>	<b>15,743,322</b>
<b>Investments</b>	15	<b>20,484,889</b>	<b>21,144,478</b>	<b>3,292,344</b>	<b>3,042,134</b>
<b>Property, plant and equipment</b>	16	<b>4,725</b>	<b>4,112</b>	<b>10,176,664</b>	<b>10,142,591</b>
<b>Intangible assets</b>	17	<b>4,702</b>	<b>3,473</b>	<b>9,464,516</b>	<b>9,215,560</b>
<b>Right-of-use asset</b>	26	<b>4,725</b>	<b>3,165</b>	<b>263,482</b>	<b>204,056</b>
		<b>20,893,045</b>	<b>21,699,105</b>	<b>39,190,736</b>	<b>38,347,663</b>
<b>TOTAL ASSETS</b>		<b>21,442,819</b>	<b>23,894,503</b>	<b>49,854,146</b>	<b>49,537,535</b>

The notes are an integral part of this interim financial information

## Statements of Financial Position

as of September 30, 2022, and December 31, 2021 (continuation)

All amounts expressed in thousands of Brazilian reais

LIABILITIES	Note	Parent Company		Consolidated	
		09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>CURRENT LIABILITIES</b>					
Payroll, social charges and accruals	18	8,152	36,454	276,718	604,810
Accounts payable to related parties	35	1,541	2,292	-	-
Accounts payable to suppliers	19	7,523	3,353	2,075,981	2,585,735
Income tax and social contribution payable		7,933	1,813	139,626	63,946
Other taxes due	12.2	295	34,956	213,187	440,933
Loans and financing	20	-	321,157	240,062	579,770
Debentures	21	-	501,716	2,226,643	2,144,485
Dividend payable		9,428	260,995	94,647	330,947
Post-employment benefits	22	255	229	71,175	68,836
Sectorial charges payable	23	-	-	42,717	198,386
Research and development and Energy efficiency	24	-	-	276,868	292,495
Accounts payable related to concession	25	-	-	106,052	104,963
Sectorial financial liabilities	8	-	-	659,649	139,770
Lease liability	26	430	301	55,569	47,240
Other accounts payable	27	540	548	433,645	370,383
PIS and Cofins to be refunded to consumers	12.2.1	-	-	3,738	7,294
		<b>36,097</b>	<b>1,163,814</b>	<b>6,916,277</b>	<b>7,979,993</b>
<b>NONCURRENT LIABILITIES</b>					
Accounts payable to related parties	35	5,851	5,851	-	-
Accounts payable to suppliers	19	-	-	125,309	125,249
Deferred income tax and social contribution	12.1	-	-	1,473,826	1,364,828
Other taxes due	12.2	3,610	3,260	635,477	594,810
Loans and financing	20	-	468,970	4,425,296	3,098,674
Debentures	21	-	-	6,444,823	6,003,132
Post-employment benefits	22	33,967	13,922	1,274,011	1,226,338
Research and development and Energy efficiency	24	-	-	347,971	334,602
Accounts payable related to concession	25	-	-	844,998	798,996
Sectorial financial liabilities	8	-	-	47,812	153,409
Lease liability	26	4,484	2,957	219,191	165,494
Other accounts payable	27	39,461	50,943	446,022	599,909
PIS and Cofins to be refunded to consumers	12.2.1	-	-	1,930,857	3,319,501
Provision for allocation of PIS and Cofins credits	12.2.1	-	-	1,835,971	-
Provisions for legal claims	28	349,630	347,762	1,556,029	1,597,365
		<b>437,003</b>	<b>893,665</b>	<b>21,607,593</b>	<b>19,382,307</b>
<b>EQUITY</b>					
<b>Attributable to controlling shareholders</b>					
Capital	29.1	10,800,000	10,800,000	10,800,000	10,800,000
Equity valuation adjustments	29.2	408,448	426,170	408,448	426,170
Legal reserve		1,457,087	1,457,087	1,457,087	1,457,087
Profit retention reserve		7,785,092	7,785,092	7,785,092	7,785,092
Additional dividends proposed from the non-capitalized earning reserve	0	-	1,368,675	-	1,368,675
Accumulated profit		519,092	-	519,092	-
		<b>20,969,719</b>	<b>21,837,024</b>	<b>20,969,719</b>	<b>21,837,024</b>
<b>Attributable to non-controlling interests</b>	15.2.2	-	-	<b>360,557</b>	<b>338,211</b>
		<b>20,969,719</b>	<b>21,837,024</b>	<b>21,330,276</b>	<b>22,175,235</b>
<b>TOTAL LIABILITIES &amp; EQUITY</b>		<b>21,442,819</b>	<b>23,894,503</b>	<b>49,854,146</b>	<b>49,537,535</b>

The notes are an integral part of this interim financial information

## Statements of Income

for the nine-month periods ended September 30, 2022, and 2021

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		09.30.2022	09.30.2021	09.30.2022	09.30.2021
<b>CONTINUING OPERATIONS</b>					
<b>NET OPERATING REVENUE</b>	30	-	-	16,301,037	17,390,595
<b>Operating costs</b>	31	-	-	(12,511,814)	(13,559,889)
<b>GROSS OPERATING PROFIT</b>		-	-	3,789,223	3,830,706
<b>Other operational expenses / income</b>					
Selling expenses	31	-	-	(155,038)	(144,281)
General and administrative expenses	31	(83,743)	(82,118)	(597,372)	(623,521)
Hydrological Risk Renegotiation - GSF	31	-	-	-	1,570,543
Other operational income (expenses), net	31	(5,659)	(49,131)	(205,626)	(100,553)
Provision for allocation of PIS and Cofins credits	12.2.1	-	-	(810,563)	-
Equity in earnings of investees	15	681,243	3,194,795	330,115	278,966
		<b>591,841</b>	<b>3,063,546</b>	<b>(1,438,484)</b>	<b>981,154</b>
<b>PROFIT BEFORE FINANCIAL RESULTS AND TAXES</b>		<b>591,841</b>	<b>3,063,546</b>	<b>2,350,739</b>	<b>4,811,860</b>
<b>Financial results</b>	32				
Financial income		48,925	273,847	779,988	718,570
Financial expenses		(109,324)	(49,140)	(1,464,690)	(838,754)
Update of provision for allocation of PIS and Cofins credits	12.2.1	-	-	(1,011,370)	-
		<b>(60,399)</b>	<b>224,707</b>	<b>(1,696,072)</b>	<b>(120,184)</b>
<b>OPERATING PROFIT</b>		<b>531,442</b>	<b>3,288,253</b>	<b>654,667</b>	<b>4,691,676</b>
<b>INCOME TAX AND SOCIAL CONTRIBUTION</b>	12.3				
Current		(33,990)	74,364	(590,076)	(450,474)
Deferred		(6,722)	16,942	461,220	(778,328)
		<b>(40,712)</b>	<b>91,306</b>	<b>(128,856)</b>	<b>(1,228,802)</b>
<b>NET INCOME FROM CONTINUING OPERATIONS</b>		<b>490,730</b>	<b>3,379,559</b>	<b>525,811</b>	<b>3,462,874</b>
<b>DISCONTINUED OPERATIONS</b>					
Net income from discontinued operations	39	-	1,185,376	-	1,189,557
<b>NET INCOME</b>		<b>490,730</b>	<b>4,564,935</b>	<b>525,811</b>	<b>4,652,431</b>
Attributed to shareholders of the parent company arising from continuing operations		-	-	490,730	3,379,559
Attributed to shareholders of the parent company due to discontinued operations		-	-	-	1,185,376
Attributed to non-controlling shareholders resulting from continuing operations	15.2.2	-	-	35,081	87,496
<b>BASIC AND DILUTED EARNING PER SHARE ATTRIBUTED TO CONTROLLING SHAREHOLDERS - CONTINUING OPERATIONS - Expressed in Brazilian Reais</b>	29.3				
Common shares		0.16894	1.10858		
Class "A" Preferred shares		0.18583	1.27410		
Class "B" Preferred shares		0.18583	1.33648		
<b>BASIC AND DILUTED EARNING PER SHARE ATTRIBUTED TO CONTROLLING SHAREHOLDERS - Expressed in Brazilian Reais</b>	29.3				
Common shares		0.16894	1.51897		
Class "A" Preferred shares		0.18583	1.72553		
Class "B" Preferred shares		0.18583	1.78791		

The notes are an integral part of this interim financial information

## Statements of Income - Third Quarter Movement

for the three-month periods ended September 30, 2022, and 2021

in thousands of reais

	Note	Parent Company		Consolidated	
		07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>CONTINUING OPERATIONS</b>					
<b>NET OPERATING REVENUE</b>	30	-	-	5,454,722	6,977,783
<b>OPERATING COSTS</b>	31	-	-	(4,374,017)	(5,854,961)
<b>GROSS OPERATING PROFIT</b>		-	-	1,080,705	1,122,822
<b>Other operational expenses / income</b>					
Selling expenses	31	-	-	(41,505)	(48,779)
General and administrative expenses	31	(31,542)	(43,002)	(218,632)	(230,024)
Hydrological Risk Renegotiation - GSF	31	-	-	-	1,570,543
Other operational income (expenses), net	31	6,480	(15,159)	(37,128)	(34,631)
Equity in earnings of investees		424,182	1,652,193	8,909	126,161
		<b>399,120</b>	<b>1,594,032</b>	<b>(288,356)</b>	<b>1,383,270</b>
<b>PROFIT BEFORE FINANCIAL RESULTS AND TAXES</b>		<b>399,120</b>	<b>1,594,032</b>	<b>792,349</b>	<b>2,506,092</b>
<b>Financial results</b>	32				
Financial income		11,800	56,070	249,202	211,859
Financial expenses		(18,347)	(19,173)	(453,248)	(322,332)
		<b>(6,547)</b>	<b>36,897</b>	<b>(204,046)</b>	<b>(110,473)</b>
<b>OPERATING PROFIT</b>		<b>392,573</b>	<b>1,630,929</b>	<b>588,303</b>	<b>2,395,619</b>
<b>INCOME TAX AND SOCIAL CONTRIBUTION</b>	12.3				
Current		(30,012)	85,351	(201,805)	(98,858)
Deferred		351	7,304	(8,107)	(550,123)
		<b>(29,661)</b>	<b>92,655</b>	<b>(209,912)</b>	<b>(648,981)</b>
<b>NET INCOME FROM CONTINUING OPERATIONS</b>		<b>362,912</b>	<b>1,723,584</b>	<b>378,391</b>	<b>1,746,638</b>
<b>DISCONTINUED OPERATIONS</b>					
Net income from discontinued operations		-	1,105,518	-	1,105,961
<b>NET INCOME</b>		<b>362,912</b>	<b>2,829,102</b>	<b>378,391</b>	<b>2,852,599</b>
Attributed to shareholders of the parent company arising from continuing operations		-	-	362,912	1,723,584
Attributed to shareholders of the parent company due to discontinued operations		-	-	-	1,105,518
Attributed to non-controlling shareholders resulting from continuing operations	15.2.2	-	-	15,479	23,497
<b>BASIC AND DILUTED EARNING PER SHARE ATTRIBUTED TO CONTROLLING SHAREHOLDERS - CONTINUING OPERATIONS - Expressed in Brazilian Reais</b>	29.3				
Common shares		0.12494	0.53527		
Class "A" Preferred shares		0.13743	0.64345		
Class "B" Preferred shares		0.13743	0.70583		
<b>BASIC AND DILUTED EARNING PER SHARE ATTRIBUTED TO CONTROLLING SHAREHOLDERS - Expressed in Brazilian Reais</b>	29.3				
Common shares		0.12494	0.91801		
Class "A" Preferred shares		0.13743	1.06447		
Class "B" Preferred shares		0.13743	1.12685		

The notes are an integral part of this interim financial information

## Statements of Comprehensive Income

for the nine-month periods ended September 30, 2022, and 2021

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		09.30.2022	09.30.2021	09.30.2022	09.30.2021
<b>NET INCOME</b>		<b>490,730</b>	<b>4,564,935</b>	<b>525,811</b>	<b>4,652,431</b>
<b>Other comprehensive income</b>					
<b>Items that will never be reclassified to profit or loss</b>					
Gain (losses) on actuarial liabilities	29.2				
Post employment benefits		(18,928)	(2,688)	(60)	-
Post employment benefits - equity		23,132	(14,047)	-	-
Taxes on other comprehensive income		6,436	914	10,700	(15,821)
<b>Total other comprehensive income, net of taxes</b>		<b>10,640</b>	<b>(15,821)</b>	<b>10,640</b>	<b>(15,821)</b>
<b>TOTAL COMPREHENSIVE INCOME</b>		<b>501,370</b>	<b>4,549,114</b>	<b>536,451</b>	<b>4,636,610</b>
Attributable to controlling shareholders - continuing operations				501,370	3,363,738
Attributable to controlling shareholders - discontinued operations				-	1,185,376
Attributed to non-controlling shareholders - continuing operations				35,081	87,496

The notes are an integral part of this interim financial information

## Statements of Comprehensive Income - Third Quarter Movement

for the three-month periods ended September 30, 2022, and 2021

in thousands of reais

	Parent Company		Consolidated	
	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>NET INCOME</b>	<b>362,912</b>	<b>2,829,102</b>	<b>378,391</b>	<b>2,852,599</b>
<b>Other comprehensive income</b>				
<b>Items that will never be reclassified to profit or loss</b>				
Gain (losses) on actuarial liabilities				
Post employment benefits	(18,928)	-	(60)	-
Post employment benefits - equity	23,132	-	-	-
Taxes on other comprehensive income	6,436	-	10,700	-
<b>Total other comprehensive income, net of taxes</b>	<b>10,640</b>	<b>-</b>	<b>10,640</b>	<b>-</b>
<b>TOTAL COMPREHENSIVE INCOME</b>	<b>373,552</b>	<b>2,829,102</b>	<b>389,031</b>	<b>2,852,599</b>
Attributed to shareholders of the parent company arising from continuing operations			373,552	1,723,584
Attributed to shareholders of the parent company due to discontinued operations			-	1,105,518
Attributed to non-controlling shareholders resulting from continuing operations			15,479	23,497

The notes are an integral part of this interim financial information

## Statements of Changes in Equity

for the nine-month periods ended September 30, 2022, and 2021

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, 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		-	-	-	-	-	-	490,730	490,730	35,081	525,811
Other comprehensive income		-	-	-	-	-	-	-	-	-	-
Actuarial gain, net of taxes	29.2	-	-	10,640	-	-	-	-	10,640	-	10,640
Total comprehensive income		-	-	10,640	-	-	-	490,730	501,370	35,081	536,451
Realization - deemed cost, net of taxes	29.2	-	(28,362)	-	-	-	-	28,362	-	-	-
Deliberation of additional dividends proposed	29.4	-	-	-	-	-	(1,368,675)	-	(1,368,675)	-	(1,368,675)
Interest on equity (JSCP)	15.2.2	-	-	-	-	-	-	-	-	(12,735)	(12,735)
Balance as of September 30, 2022		10,800,000	605,427	(196,979)	1,457,087	7,785,092	-	519,092	20,969,719	360,557	21,330,276

The notes are an integral part of this interim financial information

	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, 2021		10,800,000	680,364	(327,015)	1,209,458	6,088,855	1,507,449	-	19,959,111	291,407	20,250,518
Net Income		-	-	-	-	-	-	4,564,935	4,564,935	87,496	4,652,431
Other comprehensive income											
Actuarial losses, net of taxes		-	-	(15,821)	-	-	-	-	(15,821)	-	(15,821)
Total comprehensive income		-	-	(15,821)	-	-	-	4,564,935	4,549,114	87,496	4,636,610
Realization - deemed cost, net of taxes		-	(35,467)	-	-	-	-	35,467	-	-	-
Realization - actuarial loss		-	-	(33,205)	-	33,205	-	-	-	-	-
Deliberation of additional dividends proposed		-	-	-	-	-	(1,507,449)	-	(1,507,449)	(25,920)	(1,533,369)
Interest on equity (JSCP)		-	-	-	-	-	-	(239,636)	(239,636)	-	(239,636)
Dividends		-	-	-	-	-	-	(1,197,003)	(1,197,003)	-	(1,197,003)
Balance as of September 30, 2021		10,800,000	644,897	(376,041)	1,209,458	6,122,060	-	3,163,763	21,564,137	352,983	21,917,120

The notes are an integral part of this interim financial information



## Statements of Cash Flows

for the nine-month periods ended September 30, 2022, and 2021

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		09.30.2022	09.30.2021	09.30.2022	09.30.2021
CASH FLOWS FROM OPERATIONAL ACTIVITIES					
Net income from continuing operations		490,730	3,379,559	525,811	3,462,874
Net income (loss) from discontinued operations		-	1,185,376	-	1,189,557
Net income		490,730	4,564,935	525,811	4,652,431
Adjustments to reconcile net income for the period with cash generation from operating activities:					
Unrealized monetary and exchange variation and debt charges - net		50,211	(199,907)	974,008	547,032
Interest - bonus from the grant of concession agreements under the quota system	9.3	-	-	(89,157)	(96,458)
Remuneration of transmission concession contracts	10.3	-	-	(582,687)	(824,674)
Provision for allocation of PIS and Cofins credits	12.2.1	-	-	1,821,933	-
Income tax and social contribution	12.3	33,990	(74,364)	590,076	450,474
Deferred income tax and social contribution	12.3	6,722	(16,942)	(461,220)	778,328
Equity in earnings of investees	15.1	(660,973)	(3,243,238)	(330,115)	(215,789)
Appropriation of post-employment benefits obligations	22.4	4,941	4,760	195,276	174,556
Creation for research and development and energy efficiency programs	24.1	-	-	117,001	141,011
Recognition of fair value of assets from the indemnity for the concession	30	-	-	(57,876)	(97,588)
Sectorial financial assets and liabilities result	30	-	-	(1,332,293)	(1,845,082)
Depreciation and amortization	31	1,872	1,728	964,379	773,797
Net operating estimated losses, provisions and reversals	31.4	4,845	37,927	231,345	98,691
Result do Hydrological Risk Renegotiation - GSF	31	-	-	-	(1,570,543)
Realization of added value in business combinations	10.3	-	-	(541)	(541)
Fair value in energy purchase and sale operations	30.1 and 31.1	-	-	4,139	(1,323)
Derivatives fair value	32	-	-	2,907	17,224
Loss on disposal of accounts receivable related to concession		-	-	26,698	100
Loss on disposal of contract assets	10.1	-	-	5,971	4,403
Loss on disposal of property, plant and equipment	16.2	51	-	978	11,523
Loss on disposal of intangible assets	17.1 and 17.4	-	-	36,675	21,391
Result of write-offs of use rights of assets and liabilities of leases - net	26.1 and 26.2	-	(1)	(102)	(140)
Net income for the period from discontinued operations	39	-	(1,185,376)	-	(1,189,557)
		(67,611)	(110,478)	2,643,206	1,829,266
Decrease (increase) in assets					
Trade accounts receivable		-	-	1,375,783	(325,963)
Dividends and interest on own capital received		2,483,051	1,637,648	59,336	57,700
CRC transferred to the Government of the State of Paraná		-	1,646,614	-	1,646,614
Judicial deposits		281	439	(17,788)	(133,580)
Sectorial financial assets		-	-	953,947	731,702
Other receivables		7,316	(1,291)	66,601	(20,955)
Inventories		-	-	(3,064)	(15,244)
Income tax and social contribution recoverable		(24,416)	(87,833)	(63,886)	(137,380)
Other taxes recoverable		40,451	291	214,466	(176,818)
Prepaid expenses		(433)	(905)	(2,015)	(5,266)
Related parties		155,946	(6,110)	(933)	-
		2,662,196	3,188,853	2,582,447	1,620,810
Increase (decrease) in liabilities					
Payroll, social charges and accruals		(28,302)	18,630	(200,773)	(215,494)
Related parties		(751)	(346)	-	-
Suppliers		4,170	52	(443,356)	385,858
Other taxes		(6,572)	93,111	452,393	463,157
Post-employment benefits	22.4	(3,798)	(4,242)	(145,323)	(138,825)
Sectorial charges due		-	-	(155,669)	161,340
Research and development and energy efficiency	24.1	-	-	(143,436)	(159,673)
Payable related to the concession	25.1	-	-	(78,769)	(65,037)
Other accounts payable		(20,861)	38,618	45,154	(44,560)
Provisions for legal claims	28.1	(163)	(27,411)	(159,815)	(130,730)
		(56,277)	118,412	(829,594)	256,036
CASH GENERATED BY OPERATING ACTIVITIES		2,538,308	3,196,787	4,396,059	3,706,112
Income tax and social contribution paid		(27,870)	(201)	(355,133)	(411,540)
Loans and financing - interest due and paid	20.3	(52,704)	(26,515)	(264,920)	(131,327)
Debentures - interest due and paid	21.2	(28,358)	(9,845)	(541,204)	(248,556)
Charges for lease liabilities paid	26.2	(302)	(165)	(15,376)	(4,690)
Charges on loans granted/obtained from related parties		4,895	(10,055)	-	-
NET CASH GENERATED BY OPERATING ACTIVITIES FROM CONTINUING OPERATIONS		2,433,969	3,150,006	3,219,426	2,909,999
NET CASH GENERATED BY OPERATING ACTIVITIES FROM DISCONTINUED OPERATIONS	39	-	-	-	35,620
NET CASH GENERATED FROM OPERATING ACTIVITIES		2,433,969	3,150,006	3,219,426	2,945,619

(continued)

## Statements of Cash Flows

for the nine-month periods ended September 30, 2022, and 2021 (continuation)

All amounts expressed in thousands of Brazilian reais

	Note	Parent Company		Consolidated	
		09.30.2022	09.30.2021	09.30.2022	09.30.2021
<b>CASH FLOWS FROM INVESTMENT ACTIVITIES</b>					
Financial investments		(6,914)	3,926	76,356	(17,498)
Loans and financing granted to related parties		(124,400)	-	-	-
Receipt of loans and financing granted to related parties		100,000	33,899	-	-
Additions to contract assets		-	-	(1,492,471)	(1,101,835)
Acquisitions of subsidiaries - effect on cash	1.1.1	-	-	(18,031)	-
Additions in investments	15.1	(4,829)	(203,200)	(4,829)	(30,970)
Capital reduction of investees	15.1	-	82,330	61,537	-
Additions to property, plant and equipment		(1,070)	(520)	(457,442)	(139,095)
Additions to intangible assets	17.4	(1,485)	(1,098)	(6,244)	(1,337)
<b>NET CASH GENERATED (USED) BY INVESTMENT ACTIVITIES FROM CONTINUING OPERATIONS</b>					
		<b>(38,698)</b>	<b>(84,663)</b>	<b>(1,841,124)</b>	<b>(1,290,735)</b>
NET CASH GENERATED BY INVESTMENT ACTIVITIES FROM DISCONTINUED OPERATIONS	39	-	2,506,837	-	2,444,352
<b>NET CASH GENERATED (USED) FROM INVESTING ACTIVITIES</b>		<b>(38,698)</b>	<b>2,422,174</b>	<b>(1,841,124)</b>	<b>1,153,617</b>
<b>CASH FLOWS FROM FINANCING ACTIVITIES</b>					
Loans and financing obtained from third parties	20.3	-	-	1,891,201	51,000
Transaction costs of loans and financing obtained from third parties	20.3	-	-	(19,781)	-
Issue of debentures	21.2	-	-	1,500,000	1,500,000
Transaction costs in the issuing of debentures	21.2	-	-	(14,445)	-
Payments of principal - loans and financing	20.3	(774,899)	-	(940,584)	(150,669)
Payments of principal - debentures	21.2	(500,000)	(300,000)	(1,271,900)	(1,093,538)
Amortization of principal of lease liabilities	26.2	(274)	(236)	(42,927)	(38,039)
Amortization of principal of related parties liabilities		-	(280,000)	-	-
Dividends and interest on own capital paid		(1,623,381)	(2,431,603)	(1,623,381)	(2,451,399)
<b>NET CASH USED BY FINANCING ACTIVITIES FROM CONTINUING OPERATIONS</b>					
		<b>(2,898,554)</b>	<b>(3,011,839)</b>	<b>(521,817)</b>	<b>(2,182,645)</b>
NET CASH USED BY FINANCING ACTIVITIES FROM DISCONTINUED OPERATIONS	39	-	-	-	(1,850)
<b>NET CASH USED FROM FINANCING ACTIVITIES</b>		<b>(2,898,554)</b>	<b>(3,011,839)</b>	<b>(521,817)</b>	<b>(2,184,495)</b>
<b>TOTAL EFFECTS ON CASH AND CASH EQUIVALENTS</b>		<b>(503,283)</b>	<b>2,560,341</b>	<b>856,485</b>	<b>1,914,741</b>
Cash and cash equivalents at the beginning of the period	5	626,052	42,700	3,472,845	3,222,768
Cash and cash equivalents at the end of the period	5	122,769	2,603,041	4,329,330	4,853,273
Cash and cash equivalents variations from discontinued operations	39	-	-	-	284,236
<b>CHANGE IN CASH AND CASH EQUIVALENTS</b>		<b>(503,283)</b>	<b>2,560,341</b>	<b>856,485</b>	<b>1,914,741</b>

Notes are an integral part of these interim financial reporting

## Statements of Added Value

for the nine-month periods ended September 30, 2022, and 2021

All amounts expressed in thousands of Brazilian reais

ADDED VALUE TO DISTRIBUTE	Parent Company		Consolidated	
	09.30.2022	09.30.2021	09.30.2022	09.30.2021
<b>Income</b>				
Sale of energy, services and other income	-	-	21,561,199	21,741,492
Construction income	-	-	1,711,816	1,643,108
Fair value of indemnifiable concession assets	-	-	57,876	97,588
Sectorial financial assets and liabilities result	-	-	1,332,293	1,845,084
Hydrological Risk Renegotiation - GSF	-	-	-	1,570,543
Other income	7,186	26	54,858	92,073
Expected credit losses	-	-	(107,970)	(129,705)
	<b>7,186</b>	<b>26</b>	<b>24,610,072</b>	<b>26,860,183</b>
<b>( - ) Supplies acquired from third parties</b>				
Energy purchased for resale	-	-	6,627,800	7,838,471
Charges for use of the main transmission grid ( - ) ESS and ERR	-	-	1,558,050	1,363,657
Materials, supplies and third parties services	29,995	17,253	782,064	1,845,512
Natural gas and supplies for gas operations	-	-	899,271	460,975
Construction costs	-	-	1,529,896	1,482,123
Loss / Recovery of assets	7,980	38	85,325	54,583
Impairment	-	-	11,024	(110,518)
Provision for allocation of PIS and Cofins credits	-	-	810,563	-
Other supplies	24,563	58,805	241,429	159,342
	<b>62,538</b>	<b>76,096</b>	<b>12,545,422</b>	<b>13,094,145</b>
<b>( = ) GROSS ADDED VALUE</b>	<b>(55,352)</b>	<b>(76,070)</b>	<b>12,064,650</b>	<b>13,766,038</b>
<b>( - ) Depreciation and amortization</b>	<b>1,872</b>	<b>1,726</b>	<b>964,379</b>	<b>773,797</b>
<b>( = ) NET ADDED VALUE</b>	<b>(57,224)</b>	<b>(77,796)</b>	<b>11,100,271</b>	<b>12,992,241</b>
<b>( + ) Transferred added value</b>				
Equity in earnings of investees	681,243	3,194,795	330,115	278,966
Financial income	48,925	273,847	779,988	718,570
Other Income	848	837	270,874	176,463
	<b>731,016</b>	<b>3,469,479</b>	<b>1,380,977</b>	<b>1,173,999</b>
<b>Added value from discontinued operations</b>	<b>-</b>	<b>1,792,910</b>	<b>-</b>	<b>1,964,096</b>
	<b>673,792</b>	<b>5,184,593</b>	<b>12,481,248</b>	<b>16,130,336</b>

(continued)

## Statements of Added Value

for the nine-month periods ended September 30, 2022, and 2021 (continuation)

All amounts expressed in thousands of Brazilian reais

DISTRIBUTION OF ADDED VALUE	Parent Company				Consolidated			
	09.30.2022	%	09.30.2021	%	09.30.2022	%	09.30.2021	%
<b>Personnel</b>								
Salaries and management fees	21,364		9,248		608,098		601,698	
Private pension and health plans	4,683		2,471		200,337		184,646	
Meal and education allowance	1,425		1,437		74,511		76,299	
Social security charges - FGTS	1,432		532		37,438		37,549	
Voluntary retirement program	(2,087)		21,540		(8,926)		14,392	
Provisions for profit sharing	665		9,360		66,407		246,334	
	<b>27,482</b>	<b>4.1</b>	<b>44,588</b>	<b>0.9</b>	<b>977,865</b>	<b>7.9</b>	<b>1,160,918</b>	<b>7.2</b>
<b>Government</b>								
Federal								
Tax	70,132		(86,836)		1,243,624		2,262,477	
Sectorial charges	-		-		3,727,788		2,915,182	
State	24		28		3,537,271		3,474,188	
Municipal	107		6		9,649		11,887	
	<b>70,263</b>	<b>10.4</b>	<b>(86,802)</b>	<b>(1.7)</b>	<b>8,518,332</b>	<b>68.2</b>	<b>8,663,734</b>	<b>53.7</b>
<b>Third Parties</b>								
Interest	85,135		46,914		1,411,871		831,673	
Update of provision for allocation of PIS and Cofins credits	-		-		1,011,370		-	
Leasing and rent	182		168		32,639		14,852	
Donations, subsidies and contributions	-		7,256		3,360		32,189	
	<b>85,317</b>	<b>12.7</b>	<b>54,338</b>	<b>1.0</b>	<b>2,459,240</b>	<b>19.7</b>	<b>878,714</b>	<b>5.4</b>
<b>Shareholders</b>								
Accumulated profits	490,730		3,379,559		490,730		3,375,378	
Non controlling interests	-		-		35,081		87,496	
	<b>490,730</b>	<b>72.8</b>	<b>3,379,559</b>	<b>65.2</b>	<b>525,811</b>	<b>4.2</b>	<b>3,462,874</b>	<b>21.5</b>
<b>Distributed added value from discontinued operations</b>	-	-	<b>1,792,910</b>	<b>34.6</b>	-	-	<b>1,964,096</b>	<b>12.2</b>
	<b>673,792</b>	<b>100.0</b>	<b>5,184,593</b>	<b>100.0</b>	<b>12,481,248</b>	<b>100.0</b>	<b>16,130,336</b>	<b>100.0</b>

The notes are an integral part of this interim financial information

## **NOTES TO THE INTERIM FINANCIAL INFORMATION**

**As of September 30, 2022**

**All amounts expressed in thousands of Brazilian reais**

### **1 Operations**

Companhia Paranaense de Energia (Copel or Company), with its head office located at José Izidoro Biazetto, 158, Bloco A, Curitiba - 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 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 has participations in consortiums, in private sector and mixed-capital companies for the purpose of engaging in activities, mainly in the areas of energy and natural gas.

#### **1.1 Equity interests of Copel**

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 September 30, 2022, there were no changes, acquisitions or disposals in relation to the equity interests of December 31, 2021. On October 6, 2022, Copel GeT entered into an agreement for the acquisition of the Santa Rosa & Mundo Novo and Aventura Wind Complexes, according to Note 40.3.

### 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) (a)	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
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
Uirapuru 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. (b)	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 Paraíba IV SPE S.A.	Serra do Mel/RN	Production of electricity from wind sources	100.0	Serra do Mel

(a) On May 19, 2022, the Brazilian Securities and Exchange Commission (CVM) granted the registration of Copel DIS as a publicly-held company in category "B".

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

### Vilas Wind Complex

According to Note 1.2 of the financial statements as of December 31, 2021, of Copel GeT, on November 30, 2021, the Company concluded the acquisition of 100% of the Vilas Wind Power Complex and preliminarily measured the fair value of the identified assets acquired and the liabilities assumed on the date of acquisition.

On September 30, 2022, the provisional amounts of the business combination were revised. The following table presents the fair value of net assets acquired updated after the final adjustments of the business combination:

	Adjusted book value (a)	Fair value adjustment	Fair value at the acquisition date
<b>Assets identified</b>	<b>901,059</b>	<b>301,102</b>	<b>1,202,161</b>
Cash and cash equivalents	76,350	-	76,350
Bonds and securities	13,236	-	13,236
Trade accounts receivable	23,585	-	23,585
Other receivables	341	-	341
Income tax and social contribution	476	-	476
Other recoverable taxes	64	-	64
Prepaid expenses	24	-	24
Property, plant and equipment	754,557	-	754,557
Intangible assets	10,275	301,102	311,377
Right-of-use asset	22,151	-	22,151
<b>Liabilities assumed</b>	<b>605,893</b>	<b>102,375</b>	<b>708,268</b>
Suppliers	11,229	-	11,229
Income tax and social contribution	117	-	117
Other taxes due	2,905	-	2,905
Deferred income tax and social contribution	3,191	102,375	105,566
Loans and financing	539,671	-	539,671
Lease liability	22,379	-	22,379
Other accounts payable	26,401	-	26,401
<b>Net assets acquired</b>	<b>295,166</b>	<b>198,727</b>	<b>493,893</b>

(a) Book value of investees adjusted to the Company's practices before the allocation of fair value in the business combination.

The following table shows the variation of values in relation to the preliminary values recognized on November 30, 2021, and the final values updated on September 30, 2022:

	Preliminary value	Adjustments	Final value
Consideration amount	597,684	(1,416)	596,268
(-) Fair value of net assets acquired	503,463	(9,570)	493,893
<b>Goodwill</b>	<b>94,221</b>	<b>8,154</b>	<b>102,375</b>

The revision of the provisional amounts of the business combination was reflected in the measurement of the fair value and goodwill, with no impact on results of Copel GeT. Of the total paid for the operation, Copel GeT disbursed R\$578,236 in November 2021 and the remaining balance, of R\$18,031, during 2022.

### 1.1.2 Joint Ventures

Joint ventures	Headquarters	Main activity	Interest	
			%	Investor
Voltalia 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)

Joint operations - Consortiums	Consortium members	Interest (%)
Consórcio Energético Cruzeiro do Sul (Note 16.3)	Copel GeT	51.0
	Eletrosul Centrais Elétricas S.A.	49.0
Consórcio Empreendedor Baixo Iguaçu (Note 16.3)	Copel GeT	30.0
	Geração Céu Azul S.A (subsidiary of Neoenergia S.A.)	70.0
Consórcio Copel Energia a Gás Natural (a)	Copel	49.0
	Shell Brasil Petróleo Ltda.	51.0

#### a) **Consórcio Copel Energia a Gás Natural**

Created in July 2020 to develop technical, economic-financial and socio-environmental feasibility studies of natural gas thermoelectric generation projects. The object planned for the consortium is under development.



## 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 5th addendum to the contract	100	07.07.2045
Elejor	Contract 125/2001 - HPP Fundão	70	06.11.2040
	Contract 125/2001 - HPP Santa Clara	70	05.10.2040
	Authorization - SHP Fundão I and SHP Santa Clara I - 753/2002 and 757/2002	70	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	07.06.2024
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 is a party to a concession agreement entered into with the Concession Grantor, the State of Paraná, which determines the validity of 30 years as of July 6, 1994.

On December 7, 2017, the State of Paraná published Complementary Law 205, introducing a new interpretation to the end of the concession that occurred on January 20, 2019. There was an understanding among the shareholders that the law could be challenged and Compagas filed a lawsuit, due to the unconstitutionality of the Law. Provisional protection was granted to Compagas recognizing the validity of the maturity clause provided for in the contract. On December 1, 2020, Supplementary Law No. 227 was issued, revoking article 15 of Supplementary Law No. 205/17, maintaining the expiration of the current concession on July 6, 2024.

On July 23, 2021, the Secretary of Planning and Structuring Projects of the State of Paraná submitted for public consultation the State Plan for the Piped Gas Distribution Sector, covering the proposal to extend the concession of Compagas for 30 years, counted from July 6, 2024. The proposal includes the execution of a new concession agreement, with a change in the tariff structure of the price concession by cost to a ceiling tariff. On February 22, 2022, a Public Hearing was held via videoconference to obtain suggestions and contributions to the State Gas and Concession Extension Plan. Compagas, with its shareholders, is following the evolution of the theme and carrying out the necessary internal analyses to support future deliberations.

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

Copel GeT	Interest %	Maturity	
ONEROUS CONCESSION BY THE USE OF PUBLIC PROPERTY - UBP			
Generation Concession Contract 001/2007 - HPP Gov. Jayme Canet Júnior (Mauá)	51	05.27.2047	
Generation Concession Contract 001/2011 - HPP Colíder	100	01.30.2046	
Authorization - Ordinance 133/2011 - SHP Cavernoso II	100	12.06.2050	
Generation Concession Contract 002/2012 - HPP Baixo Iguaçu	30	12.03.2049	
Generation Concession Contract 007/2013			
HPP Apucarantina	100	01.27.2027	
HPP Chaminé	100	08.02.2028	
HPP Derivação do Rio Jordão	100	06.21.2032	
HPP Cavernoso	100	06.23.2033	
PUBLIC SERVICE CONCESSIONS			
Generation 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	
Generation 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 Pitangui and HGP Salto do Vau (only register with ANEEL)	100	-	
Generation Concession Contract 003/2016 - HPP Gov. Pedro Viriato Parigot de Souza (GPS)	100	01.03.2053	
HPP Marumbi - Power generating plant registration: CGH. PH. PR. 001501-6.02	100	-	
Authorization Anel 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 Eurús IV	MME Ordinance 273/2011 -WPP Eurús 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 contract 002/2020	100	12.21.2024
Jandaíra I Energias Renováveis (Note 16.5.2)	Ordinance 140/2020 - WPP Jandaíra I	100	04.02.2055
Jandaíra II Energias Renováveis (Note 16.5.2)	Ordinance 141/2020 - WPP Jandaíra II	100	04.02.2055
Jandaíra III Energias Renováveis (Note 16.5.2)	Ordinance 142/2020 - WPP Jandaíra III	100	04.02.2055
Jandaíra IV Energias Renováveis (Note 16.5.2)	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

Copel GeT	Interest %	Maturity	Next tariff review
<b>Transmission lines and substations concession agreements</b>			
<b>Contract 060/2001</b> - Transmission facilities (sundry Transmission lines and Substations) - extended by the 3 <sup>rd</sup> additive term	100	01.01.2043	2023
<b>Contract 075/2001</b> - Transmission line 230 kV Bateias - Jaguariaíva	100	08.17.2031	(a)
<b>Contract 006/2008</b> - Transmission line 230 kV Bateias - Pilarzinho	100	03.17.2038	2023
<b>Contract 027/2009</b> - Transmission line 525 kV Foz do Iguaçu - Cascavel Oeste	100	11.19.2039	2025
<b>Contract 010/2010</b> - Transmission line 500 kV Araraquara II - Taubaté	100	10.06.2040	2026
<b>Contract 015/2010</b> - Substation Cerquilha III 230/138 kV	100	10.06.2040	2026
<b>Contract 022/2012</b> - Transmission line 230 kV Londrina - Figueira and Transmission line 230 kV Foz do Chopim - Salto Osório	100	08.27.2042	2023
<b>Contract 002/2013</b> - Transmission line 230 kV Assis - Paraguaçu Paulista II e Substation Paraguaçu Paulista II 230 kV	100	02.25.2043	2023
<b>Contract 005/2014</b> - Transmission line 230 kV Bateias - Curitiba Norte e Substation Curitiba Norte 230/138 kV	100	01.29.2044	2024
<b>Contract 021/2014</b> - Transmission line 230 kV Foz do Chopim - Realeza e Substation Realeza 230/138 kV	100	09.05.2044	2025
<b>Contract 022/2014</b> - Transmission line 500 kV Assis - Londrina	100	09.05.2044	2025
<b>Contract 006/2016</b> - 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 Andará Leste 230/138 kV			
<b>Concession agreement / authorization of the equity</b>			
<b>Costa Oeste Transmissora</b> <b>Contract 001/2012:</b>	100	01.12.2042	2027
Transmission line 230 kV Cascavel Oeste - Umuarama			
Substation Umuarama 230/138 kV			
<b>Caiuá Transmissora</b> <b>Contract 007/2012:</b>	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			
<b>Marumbi Transmissora</b> <b>Contract 008/2012:</b>	100	05.10.2042	2027
Transmission line 525 kV Curitiba - Curitiba Leste			
Substation Curitiba Leste 525/230 kV			
<b>Integração Maranhense</b> <b>Contract 011/2012:</b>	49	05.10.2042	2027
<b>Matrinchã Transmissora</b> <b>Contract 012/2012:</b>	49	05.10.2042	2027
Transmission line 500 kV Paranaíba - Cláudia			
Transmission line 500 kV Cláudia - Paranatinga			
Transmission line 500 kV Paranatinga - Ribeirãozinho			
Substation Paranaíba 500 kV			
Substation Cláudia 500 kV			
Substation Paranatinga 500 kV			
<b>Guaraciaba Transmissora</b> <b>Contract 013/2012:</b>	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			
<b>Paranaíba Transmissora</b> <b>Contract 007/2013:</b>	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			
<b>Mata de Santa Genebra</b> <b>Contract 001/2014:</b>	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			
<b>Cantareira Transmissora</b> <b>Contract 019/2014:</b>	49	09.05.2044	2025
<b>Uirapuru Transmissora</b> <b>Contract 002/2005:</b>	100	03.04.2035	(a)
Transmission line 525 kV Ivaiporã - Londrina			

(a) Do not undergo tariff review and RAP reduces to 50% in the 16<sup>th</sup> 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 consolidated interim financial information was approved by the Board of Directors on November 10, 2022.

### **3.1 Functional and presentation currency**

The individual and 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 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.

Estimates and assumptions are reviewed continuously and these revisions are recognized prospectively.

Information about the use of estimates and judgment referring to the adoption of accounting policies that impact the amounts recognized in the interim financial information is the same as that disclosed in note 3.4 to the financial statements for the year ended December 31, 2021.

### **3.4 Management judgment on going concern**

Management has concluded that there are no material uncertainties that cast doubt on the Company 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 a 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 set forth in the Company Strategic Planning, which is approved by Management, monitored and reviewed periodically, seeking the continuity of its activities.

## 4 Significant Accounting Policies

The accounting policies of the Company are consistent with those presented in the financial statements for the year ended December 31, 2021.

### 4.1 Standards applicable to the Company effective January 1, 2022

As of January 1, 2022, the following changes are in effect, with no significant impact on the financial statements of the Company:

- (i) CPC 25 / IAS 37: specification of costs to fulfill the onerous contract;
- (ii) CPC 27 / IAS 16: definitions of resources before their intended use;
- (iii) CPC 15 / IFRS 3: update of the standard, in view of the changes in the Conceptual Framework;
- (iv) Annual improvements to the 2018 - 2020 IFRS cycle: comprise amendments to CPC 37 / IFRS 1, CPC 48 / IFRS 9, IFRS 16/ CPC 06 e CPC 29 / IAS 41.

## 5 Cash and Cash Equivalents

	Parent Company		Consolidated	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
Cash and bank accounts	4	163	228,565	231,372
Financial investments with immediate liquidity	122,765	625,889	4,100,765	3,241,473
	<b>122,769</b>	<b>626,052</b>	<b>4,329,330</b>	<b>3,472,845</b>

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. Temporary short-term investments are recorded at cost at the reporting date, plus net earnings accrued. Cash and cash equivalents are subject to an insignificant risk of change in value.

Financial investments of the Company 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 have post-fixed interest rates between 77.0% and 101.5% of Interbank Deposit Certificate ("CDI").

## 6 Bonds and Securities

The Company holds securities that yield variable interest rates. The term of these securities ranges from 6 to 57 months from the end of the reporting period.

Category	Index	Parent Company		Consolidated	
		09.30.2022	12.31.2021	09.30.2022	12.31.2021
Units in Funds (a)	CDI	91	91	345,149	284,852
Bank Deposit Certificates - CDB	96% to 101% of CDI	-	-	75,531	61,635
National Treasury Bills - LTN	10.92% p.a.	-	-	-	14,571
		<b>91</b>	<b>91</b>	<b>420,680</b>	<b>361,058</b>
	<b>Current</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>16,121</b>
	<b>Noncurrent</b>	<b>-</b>	<b>-</b>	<b>420,589</b>	<b>344,937</b>

Interbank Deposit Certificate - CDI

(a) These are fixed income funds in the Parent Company and reserve accounts intended to comply with contracts with BNDES.

## 7 Trade Accounts Receivable

Consolidated	Balances falling due	Overdue up to 90 days	Overdue for more than 90 days	Total 09.30.2022	Total 12.31.2021
<b>Customers</b>					
Residential	309,920	184,726	35,745	530,391	858,070
Industrial	131,902	16,527	42,825	191,254	329,910
Commercial	183,693	40,717	26,484	250,894	442,902
Rural	79,078	18,489	4,376	101,943	151,459
Public Entities	34,109	1,551	351	36,011	58,532
Public lighting	27,714	-	-	27,714	55,943
Public service	39,214	981	523	40,718	62,350
Unbilled - captives	617,307	-	-	617,307	948,418
Energy installments plan - captives customers (7.1)	335,565	41,022	29,853	406,440	343,667
Low income subsidy - Eletrobras	24,424	-	-	24,424	17,712
Free consumers	212,435	2,503	2,442	217,380	174,495
Other receivables	83,869	29,878	29,963	143,710	157,526
Bonus for voluntary consumption reduction (7.4)	(2,940)	-	-	(2,940)	(134,890)
	<b>2,076,290</b>	<b>336,394</b>	<b>172,562</b>	<b>2,585,246</b>	<b>3,466,094</b>
<b>Concessionaires, permission holder and trading companies</b>					
Bilateral contracts	238,998	894	259	240,151	210,632
Regulated contracts	198,330	7	5,317	203,654	223,237
CCEE (7.2)	88,042	-	119,665	207,707	467,529
<b>Energy supplies</b>	<b>525,370</b>	<b>901</b>	<b>125,241</b>	<b>651,512</b>	<b>901,398</b>
<b>Charges from using transmission grid</b>	<b>413,915</b>	<b>6,365</b>	<b>13,283</b>	<b>433,563</b>	<b>362,070</b>
<b>Gas distribution</b>	<b>135,152</b>	<b>3,047</b>	<b>10,831</b>	<b>149,030</b>	<b>90,465</b>
<b>(-) Expected credit losses (7.3)</b>	<b>(14,318)</b>	<b>(22,646)</b>	<b>(243,037)</b>	<b>(280,001)</b>	<b>(304,601)</b>
	<b>3,136,409</b>	<b>324,061</b>	<b>78,880</b>	<b>3,539,350</b>	<b>4,515,426</b>
	<b>Current</b>			<b>3,437,247</b>	<b>4,433,193</b>
	<b>Noncurrent</b>			<b>102,103</b>	<b>82,233</b>

### 7.1 Energy installments plan - captive customers

The trade accounts receivable renegotiated are discounted to present value as of September 30, 2022, taking into consideration the future value, the maturity dates, the dates of settlement and the discount rate of 1.10% p.m.

## **7.2 Electricity Trading Chamber - CCEE**

Balance receivable deriving from the positive position in the monthly settlement of the spot market centralized by the Electric Energy Commercialization Chamber - 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 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. The main action awaits its judgment on the merits.

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, 2022	Additions / (Reversals)	Write offs	Balance as of September 30, 2022
<b>Customers</b>				
Residential	50,268	89,999	(80,355)	59,912
Industrial	42,431	(8,760)	7,333	41,004
Commercial	58,294	22,859	(46,475)	34,678
Rural	2,960	4,268	(2,807)	4,421
Public Entities	381	373	(56)	698
Public lighting	11	6	-	17
Public service	(27)	2,156	(122)	2,007
Unbilled - captives customers	2,474	(392)	-	2,082
Adjustment to present value	(1,504)	(389)	-	(1,893)
	<b>155,288</b>	<b>110,120</b>	<b>(122,482)</b>	<b>142,926</b>
<b>Concessionaires, permission holder and trading companies</b>				
CCEE (7.2)	119,665	-	-	119,665
Concessionaries and permission holder	19,763	(7,790)	(4,318)	7,655
	<b>139,428</b>	<b>(7,790)</b>	<b>(4,318)</b>	<b>127,320</b>
<b>Gas distribution</b>	<b>9,885</b>	<b>408</b>	<b>(538)</b>	<b>9,755</b>
	<b>304,601</b>	<b>102,738</b>	<b>(127,338)</b>	<b>280,001</b>

### 7.4 Incentive program for the voluntary reduction of electricity consumption

Due to the water scarcity scenario in the last years, the Federal Government proposed the creation of the Incentive Program for the Voluntary Reduction of Electricity Consumption, within the scope of the Chamber of Exceptional Rules for Hydro Energy Management (CREG), to encourage consumers to reduce their energy consumption and thus avoid contracting more expensive plants.

To be entitled to the bonus, the consumer should reduce his electricity consumption in the months from September to December 2021, in such a way that the total consumptions in this period were at least 10% lower than the total consumption for the same period of 2020. Consumers who reached the reduction target received a bonus of R\$0.50 per kilowatt-hour (kWh) of the total energy saved from September to December 2021, compared to the same period of 2020, limited to 20% of the energy saved.

The program has been covered by the System Service Charges (ESS). The bonus credited to the invoices of eligible consumers in January, February and March 2022 is being reimbursed to distributors by CCEE. Considering that the value of the bonus is no longer an account receivable from consumers and became credit with the CCEE, the amount initially recorded in the Trade Accounts Receivable item was reclassified to the Other Receivables item (Note 11).

## 8 Net Sectorial Financial Assets and Liabilities

Sector financial assets and liabilities comprise the differences 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 receivable by the distributor or to be reimbursed 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	Operating revenues		Financial results	Tariff	Statement of	Balance as of
	January 1, 2022	Constitution	Amortization	Updating	flags	Financial Position	September 30, 2022
						Constitution	
<b>Portion A</b>							
Electricity purchased for resale - Itaipu	1,286,966	270,009	(629,706)	78,318	-	-	1,005,587
Electricity purchased for resale - CVA Energ	(475,842)	(436,208)	284,155	(28,315)	41,116	-	(615,094)
Transport of energy using the transmission system - basic grid	180,521	80,833	(154,680)	8,375	-	-	115,049
Transport of energy purchased from Itaipu	14,018	(651)	(13,939)	485	-	-	(87)
ESS	531,280	359,658	(180,110)	30,596	(443,689)	-	297,735
CDE	(18,786)	389,551	(123,068)	16,854	-	-	264,551
Proinfa	10,501	75,079	(32,858)	4,495	-	-	57,217
<b>Other financial components</b>							
Refunds of Pis and Cofins (b)	(337,350)	-	766,602	-	-	(1,593,100)	(1,163,848)
Neutrality	81,177	76,988	(58,509)	2,905	-	-	102,561
Offset of CCEAR bilateral contracts	(184)	(239)	288	(148)	-	-	(283)
Hydrological risk	(604,152)	(374,975)	409,878	(21,814)	-	-	(591,063)
Tariff refunds	(198,997)	(41,161)	79,272	(8,262)	-	-	(169,148)
Overcontracting	(78,596)	364,171	5,294	4,000	(63,605)	-	231,264
Itaipu Bonus	(26,451)	46,915	(3,237)	(4,542)	-	(4,713)	7,972
Water shortage account (a)	-	-	39,915	(2,293)	-	(145,844)	(108,222)
CDE Eletrobras (b)	-	85,699	-	(6,476)	-	(335,511)	(256,288)
Others	110,196	88,543	(41,216)	14,127	-	(1,701)	169,949
	<b>474,301</b>	<b>984,212</b>	<b>348,081</b>	<b>88,305</b>	<b>(466,178)</b>	<b>(2,080,869)</b>	<b>(652,148)</b>
<b>Current assets</b>	<b>383,740</b>						<b>13,828</b>
<b>Noncurrent assets</b>	<b>383,740</b>						<b>41,485</b>
<b>Current liabilities</b>	<b>(139,770)</b>						<b>(659,649)</b>
<b>Noncurrent liabilities</b>	<b>(153,409)</b>						<b>(47,812)</b>

#### a) Water shortage account

Decree No. 10,939/2022 provided for measures to address the financial impacts on the electricity sector arising from the situation of water scarcity, authorizing the contracting of a financial transaction to cover the costs arising from this scenario and the deferrals applied in previous tariff processes. On March 15, 2022, Aneel approved Normative Resolution No 1,008, which presents the criteria and procedures for managing the Water shortage account and on May 3, 2022, Aneel Order No. 1,177 fixed the amounts of resources to be transferred to distributors. On September 05, 2022, Copel DIS received the amount of R\$145,844, recognizing a negative financial component in the same amount, updated by the Selic rate since the credit date, as provided for in Aneel Normative Resolution No 1,008/2022. Aneel will approve specific quotas for the CDE, called “CDE Escassez Hídrica”, to be collected from 2023, based on the tariff processes.

#### b) Annual tariff adjustment

In the annual tariff adjustment process of Copel DIS, according to Aneel Ratifying Resolution No. 3,049/2022 (Note 30.4), R\$1,593,100 was considered because of a lawsuit filed by the Company regarding the exclusion of ICMS from the PIS/Cofins calculation basis (Note 12.2.1).

Also, given the privatization of Centrais Elétricas Brasileiras S.A. - Eletrobrás it was determined that 50% of the added value from the bonus for the concession contracts renewed for the Eletrobrás hydroelectric plants were transferred to the tariff reasonableness. In June 2022, in the tariff adjustment process of Copel DIS, R\$318,060 were transferred in benefit of the consumer, resource that was received by Copel DIS on July 29, 2022.

## 9 Accounts Receivables - Concessions

Consolidated	09.30.2022	12.31.2021
Power distribution service concession (9.1)	1,348,274	1,200,708
Piped gas distribution service concession (9.2)	255,416	233,026
Bonus from the grant of concession agreements under the quota system (9.3)	759,321	730,851
Generation concession agreements (9.4)	68,308	102,220
	<b>2,431,319</b>	<b>2,266,805</b>
	<b>Current</b>	<b>5,121</b>
	<b>Noncurrent</b>	<b>2,261,684</b>

### 9.1 Power distribution service concession

<b>Balance as of January 1, 2022</b>	<b>1,200,708</b>
Transfers from contract assets (Note 10.1)	103,896
Transfers to other receivables (assets held for disposal)	(1,297)
Fair value recognition	45,045
Loss on disposal	(78)
<b>Balance as of September 30, 2022</b>	<b>1,348,274</b>

The distribution concession agreement amount is measured at fair value and its collection is assured by the Concession Grantor through an indemnity upon the return of these assets at the end of the concession period.

### 9.2 Piped gas distribution service concession

<b>Balance as of January 1, 2022</b>	<b>233,026</b>
Transfers from contract assets (Note 10.2)	8,960
Transfers from intangible assets (Note 17.3)	768
Fair value recognition	12,831
Loss on disposal	(169)
<b>Balance as of September 30, 2022</b>	<b>255,416</b>

### 9.3 Bonus from the grant of concession agreements under the quota system

<b>Balance as of January 1, 2022</b>	<b>730,851</b>
Transfers to electricity grid use charges - customers	(60,687)
Interest (Note 30.1)	89,157
<b>Balance as of September 30, 2022</b>	<b>759,321</b>

On January 5, 2016, Copel GeT entered into a 30-year concession agreement of HPP GPS, under Law No. 12,783/2013, with payment of the Bonus from the Grant - BO to the Concession Grantor, 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.

#### 9.4 Power generation concession contract

<b>Balance as of January 1, 2022</b>	<b>102,220</b>
Remuneration	1,934
Fair value adjustment	(35,846)
<b>Balance as of September 30, 2022</b>	<b>68,308</b>

Residual balance refers to 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 balances were reclassified to accounts receivable linked to the concession and subsequently measured at the best estimate of fair value.

On December 17, 2015, Copel GeT expressed to Aneel its interest in receiving the indemnifiable amount, with proof of the respective investments, and on July 22, 2022, it filed the updated valuation report of the indemnifiable amount.

### 10 Contract assets

<b>Consolidated</b>	<b>09.30.2022</b>	<b>12.31.2021</b>
Power distribution service concession (10.1)	2,271,156	1,798,195
Piped gas distribution service concession (10.2)	27,694	29,815
Power transmission concession (10.3)	5,278,388	5,060,038
	<b>7,577,238</b>	<b>6,888,048</b>
	<b>Current</b>	<b>204,971</b>
	<b>Noncurrent</b>	<b>7,372,267</b>
		<b>148,488</b>
		<b>6,739,560</b>

#### 10.1 Power distribution service concession contract

<b>Consolidated</b>	<b>Assets</b>	<b>Special liabilities</b>	<b>Total</b>
<b>Balance as of January 1, 2022</b>	<b>1,851,866</b>	<b>(53,671)</b>	<b>1,798,195</b>
Acquisitions	1,538,653	-	1,538,653
Customers contributions	-	(176,629)	(176,629)
Provision for legal claims added to the cost of the works	2,054	-	2,054
Transfers to intangible assets (Note 17.1)	(916,469)	135,219	(781,250)
Transfers to accounts receivable - concessions (Note 9.1)	(123,622)	19,726	(103,896)
Loss on disposal	(5,971)	-	(5,971)
<b>Balance as of September 30, 2022</b>	<b>2,346,511</b>	<b>(75,355)</b>	<b>2,271,156</b>

Balance composed of works in progress mainly related to the construction and expansion of substations, lines and distribution networks, measured at historical cost, net of special liabilities. As these works are completed, the amounts are transferred to Accounts receivable related to the concessions and Intangible assets, according to the form of remuneration.

## 10.2 Piped gas distribution service concession contract

<b>Balance as of January 1, 2022</b>	<b>29,815</b>
Acquisitions	9,072
Transfers to intangible assets (Note 17.3)	(2,233)
Transfers to accounts receivable - concessions (Note 9.2)	(8,960)
<b>Balance as of September 30, 2022</b>	<b>27,694</b>

## 10.3 Transmission service concession contract

	Concession assets	RBSE assets	Total
<b>Balance as of January 1, 2022</b>	<b>3,632,386</b>	<b>1,427,652</b>	<b>5,060,038</b>
Realization of gains/losses in business combinations	541	-	541
Transfers to electricity grid use charges - customers	(289,059)	(153,836)	(442,895)
Transfers to property, plant and equipment	(484)	-	(484)
Transfers from litigations	(1,351)	-	(1,351)
Remuneration	381,134	152,412	533,546
Construction revenue	79,852	-	79,852
Construction income	1,301	-	1,301
Gain from efficiency (10.3.1)	47,840	-	47,840
<b>Balance as of September 30, 2022</b>	<b>3,852,160</b>	<b>1,426,228</b>	<b>5,278,388</b>

### 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. On June 21, 2022, Aneel approved the 2<sup>nd</sup> tariff review of the Costa Oeste and Marumbi contracts, resulting in a gain of R\$30,654.

### 10.3.2 Assumptions adopted for the calculation of contract assets

	09.30.2022		12.31.2021	
	Concession assets	RBSE assets	Concession assets	RBSE assets
Construction margin	1.65%	N/A	1.65%	N/A
Operating and maintenance margin	1.65%	N/A	1.65%	N/A
Remuneration rate (a)	9.58% p.a.	9.45% p.a.	9.56% p.a.	9.54% p.a.
Contract correction index	IPCA (b)	IPCA	IPCA (b)	IPCA
Annual RAP, according to Ratifying Resolution	513,997	242,836	456,499	192,288

(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	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
Fair value in the purchase and sale of power (Note 34.2.12)	-	-	735,304	855,775
Services in progress (a)	-	7,658	363,552	319,179
CDE Transfer (11.2)	-	-	89,821	68,999
Credits on purchases of gas (11.1)	-	-	51,614	73,229
Reimbursement of coal consumption values by CDE	-	-	61,430	33,107
Disposals and decommissioning in progress	7	-	34,469	42,509
Advance payments to employees	742	645	30,243	20,141
Advance payments to suppliers (b)	-	-	12,949	15,528
Bonus for voluntary consumption reduction (Note 7.4)	-	-	2,917	134,892
Derivatives fair value - forward contract	-	-	-	2,907
Other receivables	743	505	90,133	100,156
	<b>1,492</b>	<b>8,808</b>	<b>1,472,432</b>	<b>1,666,422</b>
Current	<b>1,473</b>	<b>1,150</b>	<b>802,556</b>	<b>749,816</b>
Noncurrent	<b>19</b>	<b>7,658</b>	<b>669,876</b>	<b>916,606</b>

(a) This item refers to services currently in progress within the Company, most of which are related to the Research and Development and Energy Efficiency programs, which upon conclusion are offset against the respective liability recorded for this purpose.

(b) Advances to suppliers provided on contractual clauses.

### 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. The Company reviewed the estimated recoverable value of the ship or pay credit to be offset and recorded impairment, as shown in note 31.4.

### 11.2 CDE Transfer

Values of the Energy Development Account - CDE to cover discounts on tariffs, defined in Law No. 10,438/2002 and Decree No. 7,891/2013. The amount of the transfer approved in the tariff adjustment of Copel DIS for the period from June 2022 to May 2023, in accordance with Aneel Ratifying Resolution No 3.049/2022, was R\$47,684 monthly (R\$47,661 between June 2021 and May 2022). An estimate of differences to be compensated in the next tariff adjustment, in June 2023, has been constituted monthly, totaling R\$9,566 on September 30, 2022, referring to the months from June to September 2022.

## 12 Taxes

### 12.1 Deferred income tax and social contribution

Parent Company				
	Balance as of January 1, 2022	Recognized in income	Recognized comprehensive income	Balance as of September 30, 2022
<b>Noncurrent assets</b>				
Provisions for legal claims	119,434	801	-	120,235
Expected credit losses	49,443	-	-	49,443
Post-employment benefits	4,808	386	6,436	11,630
Amortization - concession	4,851	286	-	5,137
Voluntary retirement program	5,140	(4,358)	-	782
Others	8,536	(190)	-	8,346
	<b>192,212</b>	<b>(3,075)</b>	<b>6,436</b>	<b>195,573</b>
<b>(-) Noncurrent liabilities</b>				
Escrow deposits monetary variation	22,989	2,092	-	25,081
Financial instruments	2,943	2,351	-	5,294
Transaction cost on loans and financing and debentures	796	(796)	-	-
	<b>26,728</b>	<b>3,647</b>	<b>-</b>	<b>30,375</b>
<b>Net</b>	<b>165,484</b>	<b>(6,722)</b>	<b>6,436</b>	<b>165,198</b>

  

Consolidated					
	Balance as of January 1, 2022	Recognized in income	Other (a)	Recognized comprehensive income	Balance as of September 30, 2022
<b>Noncurrent assets</b>					
Provision for allocation of PIS and Cofins credits	-	624,230	-	-	624,230
Provisions for legal claims	504,461	(11,989)	-	-	492,472
Post-employment benefits	429,260	16,895	-	10,700	456,855
Impairment of assets	302,397	(3,451)	-	-	298,946
Tax losses and negative tax basis	123,010	38,066	-	-	161,076
Research and development and energy efficiency programs	138,849	(9,446)	-	-	129,403
Expected credit losses	98,712	(7,026)	-	-	91,686
Social security contributions - injunction on judicial deposit	74,743	5,678	-	-	80,421
Amortization - concession	52,429	3,915	-	-	56,344
Provisions for performance and profit sharing	114,593	(92,767)	-	-	21,826
Concession contracts	19,769	(802)	-	-	18,967
Voluntary retirement program	24,308	(21,359)	-	-	2,949
Others	158,086	4,251	-	-	162,337
	<b>2,040,617</b>	<b>546,195</b>	<b>-</b>	<b>10,700</b>	<b>2,597,512</b>
<b>(-) Noncurrent liabilities</b>					
Concession contracts	1,803,098	62,858	8,154	-	1,874,110
Deemed cost of property, plant and equipment	326,497	(14,611)	-	-	311,886
Accelerated depreciation	102,324	19,777	-	-	122,101
Derivative financial instruments	105,504	(1,407)	-	-	104,097
Escrow deposits monetary variation	65,119	7,731	-	-	72,850
Transaction cost on loans and financing and debentures	28,036	4,609	-	-	32,645
Others	11,608	6,018	-	-	17,626
	<b>2,442,186</b>	<b>84,975</b>	<b>8,154</b>	<b>-</b>	<b>2,535,315</b>
<b>Net</b>	<b>(401,569)</b>	<b>461,220</b>	<b>(8,154)</b>	<b>10,700</b>	<b>62,197</b>
Assets presented in the Statement of Financial Position	963,259				1,536,023
Liabilities presented in the Statement of Financial Position	(1,364,828)				(1,473,826)

(a) Effects of the business combination (Note 1.1.1).

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

	Parent Company		Consolidated	
	Assets	Liabilities	Assets	Liabilities
2022	4,523	(251)	167,491	(50,918)
2023	8,846	(1,003)	200,050	(287,333)
2024	8,488	(1,003)	415,131	(287,954)
2025	8,487	(1,003)	465,137	(211,644)
2026	8,488	(1,003)	110,175	(178,647)
2027 to 2029	24,943	(3,010)	249,716	(455,178)
2030 to 2032	131,798	(23,102)	989,812	(1,063,641)
	<b>195,573</b>	<b>(30,375)</b>	<b>2,597,512</b>	<b>(2,535,315)</b>

### 12.1.2 Unrecognized tax credits

As of September 30, 2022, Company did not recognize income tax and social contribution credits on income tax and social contribution tax losses in the amount of R\$121,990 (R\$68,826, as of December 31, 2021) for not having, 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	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>Current assets</b>				
Recoverable ICMS (VAT)	-	-	122,349	111,101
Recoverable PIS/Pasep and Cofins taxes (a)	-	-	1,214,688	1,396,645
Other recoverable taxes	-	-	855	1,118
	-	-	<b>1,337,892</b>	<b>1,508,864</b>
<b>Noncurrent assets</b>				
Recoverable ICMS (VAT)	-	-	171,684	141,951
Recoverable PIS/Pasep and Cofins taxes (a)	39,497	38,659	2,510,077	2,967,756
Other recoverable taxes	-	-	34,438	33,839
	<b>39,497</b>	<b>38,659</b>	<b>2,716,199</b>	<b>3,143,546</b>
<b>Current liabilities</b>				
ICMS (VAT) payable (Note 12.2.3)	-	-	123,058	290,627
ICMS installment payment (Note 12.2.4)	-	-	10,212	-
PIS/Pasep and Cofins payable	-	34,726	10,895	42,340
IRRF on interest on capital	-	-	-	33,592
Special Tax Regularization Program - Pert	-	-	55,713	52,168
Other taxes	295	230	13,309	22,206
	<b>295</b>	<b>34,956</b>	<b>213,187</b>	<b>440,933</b>
<b>Noncurrent liabilities</b>				
Social security contributions - injunction on judicial deposit	3,610	3,260	236,831	220,108
ICMS installment payment (Note 12.2.4)	-	-	39,611	-
Special Tax Regularization Program - Pert	-	-	352,848	369,526
Other taxes	-	-	6,187	5,176
	<b>3,610</b>	<b>3,260</b>	<b>635,477</b>	<b>594,810</b>

(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 3<sup>rd</sup> 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 2<sup>nd</sup> Panel of the Federal Regional Court of the 4<sup>th</sup> 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 until September 30, 2022:

<b>Balance as of January 1, 2022</b>	<b>4,355,265</b>
Monetary variation	220,949
Offsetting with taxes payable	(890,141)
<b>Balance as of September 30, 2022</b>	<b>3,686,073</b>
	<b>Current</b>
	<b>1,260,769</b>
	<b>Noncurrent</b>
	<b>2,425,304</b>

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

#### **a) Liabilities to be refunded to consumers**

The Company, with the support of its legal advisors, 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. In the tariff adjustment of June 24, 2022, the total of R\$1,593,100 was considered as a financial item, so this balance was transferred to the sectorial financial liabilities account, as shown in the following table:

<b>Balance as of January 1, 2022</b>	<b>3,326,795</b>
Monetary variation	200,900
(-) Transfer to sectorial financial liabilities (Note 8)	(1,593,100)
<b>Balance as of September 30, 2022</b>	<b>1,934,595</b>

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 and supported by the opinions of legal advisors, Copel DIS decided to recognize an additional provision, with no immediate cash effect, referring to the period between the 11<sup>th</sup> and the 16<sup>th</sup> 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.

The table below shows the changes in the provision until September 30, 2022:

<b>Balance as of January 1, 2022</b>	<b>-</b>
Provision for allocation of PIS and Cofins credits	810,563
Monetary variation	1,011,370
<b>Balance as of June 30, 2022</b>	<b>1,821,933</b>
Monetary variation	14,038
<b>Balance as of September 30, 2022</b>	<b>1,835,971</b>

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 resulting from the final and unappealable decision of the lawsuit records in which Compagas discussed the exclusion of ICMS from the PIS and Cofins calculation basis. Due to the favorable ruling, Compagas recorded, in September 2019, the credit right of R\$107,453. Part of these credits has already been recovered, so that the updated balance as of September 30, 2022, is R\$49,699 (R\$75,192, as of December 31, 2021).

### 12.2.3 ICMS on electricity operations

On June 23, 2022, Complementary Law No. 194/2022 was published, which prohibited the establishment of ICMS rates on electric energy operations at a higher level than operations in general, considering the essentiality of related goods and services. Furthermore, it established that ICMS is not levied on transmission and distribution services and sectoral charges linked to electricity operations. In compliance with the law, and after pronouncements from the state tax authorities, the Company implemented the necessary changes to comply with the legislation.

### 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 of ICMS tax credits, established by the State of Paraná through State Law No. 20,946/2021, regulated by the State Decree No. 10,766/2022, in which it recorded debts totaling R\$92,249 in its tax situation report, updated through September 2022 with fine, interest, and monetary restatement charges. With the adhesion, the Company obtained the benefit of R\$41,696 related to the reduction in charges, leaving a consolidated debt balance of R\$50,553, which will be paid in 60 consecutive monthly installments updated by the Selic rate.

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

	Parent Company			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Income before IRPJ and CSLL</b>	<b>531,442</b>	<b>3,288,253</b>	<b>392,573</b>	<b>1,630,929</b>
(-) Equity in income	(419,988)	(3,169,560)	(296,515)	(1,649,746)
	<b>111,454</b>	<b>118,693</b>	<b>96,058</b>	<b>(18,817)</b>
<b>IRPJ and CSLL (34%)</b>	<b>(37,894)</b>	<b>(40,356)</b>	<b>(32,659)</b>	<b>6,397</b>
<b>Tax effects on:</b>				
Interest on equity (JSCP)	-	127,101	-	81,476
Dividends	205	435	57	188
Non deductible expenses	(3,111)	(3,320)	2,890	(2,778)
Tax incentives	71	7,434	47	7,366
Others	17	12	4	6
<b>Current IRPJ and CSLL</b>	<b>(33,990)</b>	<b>74,364</b>	<b>(30,012)</b>	<b>85,351</b>
<b>Deferred IRPJ and CSLL</b>	<b>(6,722)</b>	<b>16,942</b>	<b>351</b>	<b>7,304</b>
Effective rate - %	36.5%	-76.9%	30.9%	492.4%

	Consolidated			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Income before IRPJ and CSLL</b>	<b>654,667</b>	<b>4,691,676</b>	<b>588,303</b>	<b>2,395,619</b>
(-) Equity in income	(330,115)	(278,967)	(8,909)	(126,161)
	<b>324,552</b>	<b>4,412,709</b>	<b>579,394</b>	<b>2,269,458</b>
<b>IRPJ and CSLL (34%)</b>	<b>(110,348)</b>	<b>(1,500,321)</b>	<b>(196,994)</b>	<b>(771,616)</b>
<b>Tax effects on:</b>				
Interest on equity (JSCP)	4,331	127,101	1,525	81,476
Dividends	205	435	57	187
Non deductible expenses	(15,318)	(4,881)	(9,340)	3,367
Tax incentives	10,501	27,362	4,689	20,558
Unrecognized tax loss and negative basis of CSLL	(52,951)	(21,453)	(22,214)	(102,286)
Setting up and/or offset of income tax and social contribution losses of prior years	-	107,556	-	107,556
Difference between tax bases of deemed profit and taxable profit	31,426	36,386	8,028	9,882
Others	3,298	(987)	4,337	1,895
<b>Current IRPJ and CSLL</b>	<b>(590,076)</b>	<b>(450,474)</b>	<b>(201,805)</b>	<b>(98,858)</b>
<b>Deferred IRPJ and CSLL</b>	<b>461,220</b>	<b>(778,328)</b>	<b>(8,107)</b>	<b>(550,123)</b>
Effective rate - %	39.7%	27.8%	36.2%	28.6%

## 13 Prepaid Expenses

Consolidated	09.30.2022	12.31.2021
Program for incentive to alternative energy sources - Proinfra	35,730	35,837
Insurance premiums	19,932	17,692
Others	29	147
	<b>55,691</b>	<b>53,676</b>
	<b>Current</b>	<b>55,664</b>
	<b>Noncurrent</b>	<b>27</b>
		<b>53,649</b>
		<b>27</b>

## 14 Judicial Deposits

	Parent Company		Consolidated	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>Taxes claims (14.1)</b>	<b>133,594</b>	<b>127,797</b>	<b>436,675</b>	<b>405,739</b>
<b>Labor claims</b>	<b>517</b>	<b>495</b>	<b>139,755</b>	<b>106,376</b>
<b>Civil claims</b>				
Civil claims	-	-	40,688	53,438
Easements	-	-	14,328	18,407
Customers	-	-	5,026	3,867
	-	-	<b>60,042</b>	<b>75,712</b>
<b>Others</b>	<b>3,280</b>	<b>3,227</b>	<b>3,327</b>	<b>3,304</b>
	<b>137,391</b>	<b>131,519</b>	<b>639,799</b>	<b>591,131</b>

## 14.1 Tax judicial deposits

Of the consolidated balance on September 30, 2022, R\$235,252 (R\$218,143 on December 31, 2021) refers to the challenge in a 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, 2022	Equity	Equity valuation adjustments	Investment/ AFAC	Amorti- zation	Dividends and JSCP	Balance as of September 30, 2022	
<b>Subsidiaries</b>								
Copel GeT	12,662,224	1,132,857	(2,694)	-	-	(857,729)	12,934,658	
Copel DIS	7,558,556	(554,041)	(5,371)	-	-	(454,260)	6,544,884	
Copel SER	-	(21,783)	31,409	-	-	-	9,626	
Copel Energia	389,863	58,503	(212)	-	-	(17,833)	430,321	
UEG Araucária (15.2)	109,737	(17,970)	-	-	-	-	91,767	
Compagás (15.2)	259,031	58,016	-	-	-	(13,255)	303,792	
Elejor (15.2)	-	-	-	-	-	-	-	
Elejor - concession rights	10,744	-	-	-	(566)	-	10,178	
	<b>20,990,155</b>	<b>655,582</b>	<b>23,132</b>	<b>-</b>	<b>(566)</b>	<b>(1,343,077)</b>	<b>20,325,226</b>	
<b>Joint Ventures</b>								
Voltalia São Miguel do Gostoso I (15.3)	108,990	217	-	4,829	-	-	114,036	
Voltalia São Miguel do Gostoso - authorization rights	9,304	-	-	-	(275)	-	9,029	
Solar Paraná	7,035	262	-	-	-	-	7,297	
	<b>125,329</b>	<b>479</b>	<b>-</b>	<b>4,829</b>	<b>(275)</b>	<b>-</b>	<b>130,362</b>	
<b>Associates</b>								
Dona Francisca Energética (15.4)	27,057	4,914	-	-	-	(4,605)	27,366	
Other	1,937	(2)	-	-	-	-	1,935	
	<b>28,994</b>	<b>4,912</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(4,605)</b>	<b>29,301</b>	
	<b>21,144,478</b>	<b>660,973</b>	<b>23,132</b>	<b>4,829</b>	<b>(841)</b>	<b>(1,347,682)</b>	<b>20,484,889</b>	
<b>Consolidated</b>								
	Balance as of January 1, 2022	Equity	Investment/ AFAC	Capital decrease	Amorti- zation	Dividends and JSCP	Other (a)	Balance as of September 30, 2022
<b>Joint Ventures (15.3)</b>								
Voltalia São Miguel do Gostoso I	108,990	217	4,829	-	-	-	-	114,036
Voltalia São Miguel do Gostoso - authorization rights	9,304	-	-	-	(275)	-	-	9,029
Caiuá	106,977	17,238	-	-	-	-	-	124,215
Integração Maranhense	166,563	27,882	-	-	-	-	-	194,445
Matrinchã	811,771	119,542	-	-	-	(964)	-	930,349
Guaraciaba	407,615	51,700	-	-	-	-	-	459,315
Paranaíba	226,923	21,058	-	-	-	-	-	247,981
Mata de Santa Genebra	710,989	40,645	-	(61,537)	-	-	-	690,097
Cantareira	437,330	31,799	-	-	-	-	-	469,129
Solar Paraná	7,035	262	-	-	-	-	-	7,297
	<b>2,993,497</b>	<b>310,343</b>	<b>4,829</b>	<b>(61,537)</b>	<b>(275)</b>	<b>(964)</b>	<b>-</b>	<b>3,245,893</b>
<b>Associates</b>								
Dona Francisca Energética (15.4)	27,057	4,914	-	-	-	(4,605)	-	27,366
Foz do Chopim Energética (15.4)	19,102	14,860	-	-	-	(17,347)	-	16,615
Other	1,937	(2)	-	-	-	-	-	1,935
	<b>48,096</b>	<b>19,772</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(21,952)</b>	<b>-</b>	<b>45,916</b>
<b>Investment property</b>	<b>541</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(4)</b>	<b>-</b>	<b>(2)</b>	<b>535</b>
	<b>3,042,134</b>	<b>330,115</b>	<b>4,829</b>	<b>(61,537)</b>	<b>(279)</b>	<b>(22,916)</b>	<b>(2)</b>	<b>3,292,344</b>

(a) Transfer of assets destined for disposal.

## 15.2 Subsidiaries with non-controlling interests

### 15.2.1 Summarized financial information

Balance as of June 30, 2022	Compagás	Elejor	UEG Araucária
<b>ASSETS</b>	<b>1,009,171</b>	<b>841,904</b>	<b>532,523</b>
Current assets	612,852	205,334	138,796
Noncurrent assets	396,319	636,570	393,727
<b>LIABILITIES</b>	<b>1,009,171</b>	<b>841,904</b>	<b>532,523</b>
Current liabilities	316,649	112,319	62,209
Noncurrent liabilities	96,856	783,917	18,261
Equity	595,666	(54,332)	452,053
<b>STATEMENT OF INCOME</b>			
Net operating revenue	935,162	150,033	98,475
Operating costs and expenses	(798,976)	(63,616)	(196,305)
Financial results	19,820	(106,735)	10,246
Income tax and social contribution	(42,249)	6,931	(940)
<b>Net income (loss)</b>	<b>113,757</b>	<b>(13,387)</b>	<b>(88,524)</b>
Other comprehensive income	-	-	-
<b>Total comprehensive income</b>	<b>113,757</b>	<b>(13,387)</b>	<b>(88,524)</b>
<b>STATEMENTS OF CASH FLOWS</b>			
Cash flows from operating activities	192,227	36,484	(55,701)
Cash flows from investing activities	(9,146)	(7,100)	(133,045)
Cash flows from financing activities	(2,079)	-	(101)
<b>TOTAL EFFECTS ON CASH AND CASH EQUIVALENTS</b>	<b>181,002</b>	<b>29,384</b>	<b>(188,847)</b>
Cash and cash equivalents at the beginning of the year	210,641	148,031	298,572
Cash and cash equivalents at the end of the year	391,643	177,415	109,725
<b>CHANGE IN CASH AND CASH EQUIVALENTS</b>	<b>181,002</b>	<b>29,384</b>	<b>(188,847)</b>

The loss recorded at Elejor is due to the monetary update on Accounts payable related to concession, which increased significantly because of the IGPM increase (Note 25).

### 15.2.2 Changes in equity attributable to non-controlling shareholders

	Compagás 49%	Elejor 30%	UEG Araucária 18,8%	Consolidated
<b>Participation in capital stock</b>				
<b>Balance as of January 1, 2022</b>	<b>248,869</b>	<b>(12,285)</b>	<b>101,627</b>	<b>338,211</b>
Net income (loss)	55,740	(4,016)	(16,643)	35,081
Dividends	(12,735)	-	-	(12,735)
<b>Balance as of September 30, 2022</b>	<b>291,874</b>	<b>(16,301)</b>	<b>84,984</b>	<b>360,557</b>

### 15.3 Summarized information on the main joint ventures

	Voltalia	Caiuá	Integração Maranhense	Matrinchã	Guaraciaba	Paranaíba	Mata de Santa Genebra	Cantareira
<b>Balance as of September 30, 2022</b>								
<b>ASSETS</b>	<b>235,126</b>	<b>324,212</b>	<b>593,231</b>	<b>2,902,195</b>	<b>1,561,091</b>	<b>1,899,338</b>	<b>3,345,626</b>	<b>1,788,669</b>
<b>Current assets</b>	<b>11,457</b>	<b>36,817</b>	<b>86,905</b>	<b>421,136</b>	<b>213,826</b>	<b>218,308</b>	<b>551,381</b>	<b>221,228</b>
Cash and cash equivalents	11,277	10,155	23,236	116,057	53,945	48,273	22,100	61,589
Other current assets	180	26,662	63,669	305,079	159,881	170,035	529,281	159,639
<b>Noncurrent assets</b>	<b>223,669</b>	<b>287,395</b>	<b>506,326</b>	<b>2,481,059</b>	<b>1,347,265</b>	<b>1,681,030</b>	<b>2,794,245</b>	<b>1,567,441</b>
<b>LIABILITIES</b>	<b>235,126</b>	<b>324,212</b>	<b>593,231</b>	<b>2,902,195</b>	<b>1,561,091</b>	<b>1,899,338</b>	<b>3,345,626</b>	<b>1,788,669</b>
<b>Current liabilities</b>	<b>2,398</b>	<b>11,844</b>	<b>54,014</b>	<b>139,714</b>	<b>112,045</b>	<b>83,572</b>	<b>187,926</b>	<b>69,099</b>
Financial liabilities	-	7,375	13,201	126,183	41,659	59,011	150,296	56,609
Other current liabilities	2,398	4,469	40,813	13,531	70,386	24,561	37,630	12,490
<b>Noncurrent liabilities</b>	<b>-</b>	<b>58,868</b>	<b>142,390</b>	<b>863,810</b>	<b>511,667</b>	<b>803,597</b>	<b>1,780,258</b>	<b>762,165</b>
Financial liabilities	-	30,322	43,097	612,882	408,275	482,880	1,678,555	429,356
Other noncurrent liabilities	-	28,546	99,293	250,928	103,392	320,717	101,703	332,809
<b>Equity</b>	<b>232,728</b>	<b>253,500</b>	<b>396,827</b>	<b>1,898,671</b>	<b>937,379</b>	<b>1,012,169</b>	<b>1,377,442</b>	<b>957,405</b>
<b>STATEMENT OF INCOME</b>								
Net operating revenue	-	52,326	86,764	429,119	215,789	168,267	315,055	136,195
Operating costs and expenses	(51)	(3,816)	(4,199)	(25,776)	(24,928)	(15,389)	(53,185)	(8,719)
Financial results	945	(1,388)	(1,944)	(46,380)	(28,608)	(37,505)	(138,963)	(29,177)
Equity in earnings of investees	(1,203)	-	-	-	-	-	-	-
Income tax and social contribution	(193)	(11,943)	(23,719)	(113,002)	(56,743)	(29,422)	(41,779)	(33,404)
<b>Net income (loss)</b>	<b>(502)</b>	<b>35,179</b>	<b>56,902</b>	<b>243,961</b>	<b>105,510</b>	<b>85,951</b>	<b>81,128</b>	<b>64,895</b>
Other comprehensive income	-	-	-	-	-	-	-	-
<b>Total comprehensive income</b>	<b>(502)</b>	<b>35,179</b>	<b>56,902</b>	<b>243,961</b>	<b>105,510</b>	<b>85,951</b>	<b>81,128</b>	<b>64,895</b>
Investment interest - %	49.0	49.0	49.0	49.0	49.0	24.5	50.1	49.0
Investment book value	114,036	124,215	194,445	930,349	459,315	247,981	690,097	469,129

On September 30, 2022, the interest of Copel in the commitments assumed by its joint ventures is equivalent to R\$2,732 and in contingent liabilities classified as a possible loss is R\$287,475 (R\$250,262 on December 31, 2021), of which the amount of R\$178,312 (R\$187,243 on December 31, 2021) refers to the Mata de Santa Genebra.

In June 2022, Copel GeT recorded R\$133,922 in equity in earnings of investees resulting from the effects of the tariff review of Caiuá, Integração Maranhense, Matrinchã and Guaraciaba.

## 15.4 Summarized information of the main associates

Balance as of September 30, 2022	Dona Francisca	Foz do Chopim
<b>ASSETS</b>	<b>176,719</b>	<b>50,035</b>
Current assets	10,788	9,779
Noncurrent assets	165,931	40,256
<b>LIABILITIES</b>	<b>176,719</b>	<b>50,035</b>
Current liabilities	23,053	3,584
Noncurrent liabilities	34,828	-
Equity	118,838	46,451
<b>STATEMENT OF INCOME</b>		
Net operating revenue	49,961	57,791
Operating costs and expenses	(22,879)	(14,676)
Financial results	(3,791)	395
Income tax and social contribution	(1,952)	(1,965)
<b>Net income</b>	<b>21,339</b>	<b>41,545</b>
Other comprehensive income	-	-
<b>Total comprehensive income</b>	<b>21,339</b>	<b>41,545</b>
Investment interest - %	23.03	35.77
Investment book value	27,366	16,615

As of September 30, 2022, the interest of Copel in the contingent liabilities of its associates is equivalent to R\$2,525 (R\$2,166 as of December 31, 2021).

## 16 Property, Plant and Equipment

### 16.1 Property, plant and equipment by asset class

Consolidated	Cost	Accumulated depreciation	09.30.2022	Cost	Accumulated depreciation	12.31.2021
<b>In service</b>						
Reservoirs, dams and aqueducts	8,195,044	(4,890,447)	3,304,597	8,161,702	(4,776,639)	3,385,063
Machinery and equipment	8,423,649	(3,084,035)	5,339,614	8,409,689	(2,840,114)	5,569,575
Buildings	1,993,113	(1,151,805)	841,308	1,993,695	(1,125,862)	867,833
Land	509,647	(56,621)	453,026	508,164	(49,046)	459,118
Vehicles and aircraft	34,085	(33,015)	1,070	33,871	(32,756)	1,115
Furniture and fixtures	16,935	(10,744)	6,191	16,400	(10,966)	5,434
(-) Impairment (16.4)	(710,509)	-	(710,509)	(710,509)	-	(710,509)
(-) Special Obligations	(747)	299	(448)	(792)	290	(502)
	<b>18,461,217</b>	<b>(9,226,368)</b>	<b>9,234,849</b>	<b>18,412,220</b>	<b>(8,835,093)</b>	<b>9,577,127</b>
<b>In progress</b>						
Cost	1,129,197	-	1,129,197	752,846	-	752,846
(-) Impairment (16.4)	(187,382)	-	(187,382)	(187,382)	-	(187,382)
	<b>941,815</b>	<b>-</b>	<b>941,815</b>	<b>565,464</b>	<b>-</b>	<b>565,464</b>
	<b>19,403,032</b>	<b>(9,226,368)</b>	<b>10,176,664</b>	<b>18,977,684</b>	<b>(8,835,093)</b>	<b>10,142,591</b>

## 16.2 Changes in property, plant and equipment

Consolidated	Balance as of January 1, 2022	Additions / Impairment	Depreciation	Loss on disposal	Transfers	Balance as of September 30, 2022
<b>In service</b>						
Reservoirs, dams and aqueducts	3,385,063	-	(113,808)	-	33,342	3,304,597
Machinery and equipment	5,569,575	-	(244,603)	(53)	14,695	5,339,614
Buildings	867,833	-	(26,827)	(306)	608	841,308
Land	459,118	-	(7,575)	(518)	2,001	453,026
Vehicles and aircraft	1,115	-	(289)	-	244	1,070
Furniture and fixtures	5,434	-	(434)	(95)	1,286	6,191
(-) Impairment (16.4)	(710,509)	-	-	-	-	(710,509)
(-) Special Obligations	(502)	-	93	-	(39)	(448)
	<b>9,577,127</b>	<b>-</b>	<b>(393,443)</b>	<b>(972)</b>	<b>52,137</b>	<b>9,234,849</b>
<b>In progress</b>						
Cost	752,846	428,010	-	(6)	(51,653)	1,129,197
(-) Impairment (16.4)	(187,382)	-	-	-	-	(187,382)
	<b>565,464</b>	<b>428,010</b>	<b>-</b>	<b>(6)</b>	<b>(51,653)</b>	<b>941,815</b>
	<b>10,142,591</b>	<b>428,010</b>	<b>(393,443)</b>	<b>(978)</b>	<b>484</b>	<b>10,176,664</b>

## 16.3 Joint operations - consortiums

The amounts recorded in the fixed assets are proportional to Copel GeT participation in the assets of the plants, as stated below:

Joint operations	Share Copel GeT (%)	Annual average depreciation rate (%)	09.30.2022	12.31.2021
<b>HPP Gov. Jayme Canet Júnior (Mauá) - Consórcio Energético Cruzeiro do Sul</b>	<b>51.0</b>			
In service			859,924	859,926
(-) Accumulated depreciation		2.90	(276,282)	(263,792)
In progress			21,605	20,527
			<b>605,247</b>	<b>616,661</b>
<b>HPP Baixo Iguaçu</b>	<b>30.0</b>			
In service			692,611	692,395
(-) Accumulated depreciation		3.28	(81,550)	(64,519)
In progress			54,516	56,027
			<b>665,577</b>	<b>683,903</b>
			<b>1,270,824</b>	<b>1,300,564</b>

## 16.4 Estimated losses for impairment of assets in the generation segment

The projects with impairment balances recorded on September 30, 2022, are the following:

Consolidated	Property, Plant and Equipment			Value in use
	Cost	Depreciation	Impairment	
HPP Colíder	2,504,231	(303,264)	(639,529)	1,561,438
Consórcio Tapajós (a)	14,879	-	(14,879)	-
Power plants in Paraná	1,039,048	(124,391)	(243,483)	671,174
	<b>3,558,158</b>	<b>(427,655)</b>	<b>(897,891)</b>	<b>2,232,612</b>

(a) Project under development



There was no impairment movement until September 30, 2022. In the first half of 2021, the reversal of impairment totaling R\$138,777 was recorded, resulting mainly from the revision of assumptions of UEG Araucária due to the increase in the plant's demand because of unfavorable hydrological conditions that year, as detailed in Note 18.4 of the financial statements as of December 31, 2021.

## **16.5 New plants under construction**

### **16.5.1 SHP Bela Vista**

With an estimated investment of R\$224,673, this small hydroelectric power plant (SHPP), with an installed capacity of 29.81 MW and a physical guarantee 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 Paraná State.

The participation in the A-6 auction held on August 31, 2018, led to the sale of 14.7 MW average in regulated contracts at the original price of R\$195.70/MWh. The energy sale contracts provide for the 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, with the entry into commercial operation of the first and second and third generation units on June 12, 2021, July 10, 2021, and August 15, 2021, respectively. The entry into commercial operation of the fourth unit is scheduled to take place by the end of 2022.

### **16.5.2 Jandaíra Wind Complex**

With an estimated investment of R\$411,610 this wind farm, with an installed capacity of 90.1 MW and a physical guarantee of 47.6 MW average, is being built in the municipalities of Pedra Preta and Jandaíra, in the Rio Grande do Norte State.

The participation in the new power generation auction A-6, held on October 18, 2019, led to the sale of 14.4 MW average in regulated contracts at the original price of R\$98.00/MWh. The energy sale contracts provided for beginning of energy supply on January 1, 2025, with a 20-year term and annual adjustment by reference to IPCA variation.

In all, 26 wind turbines will be installed, divided into four wind farms, and a substation and a 16 km transmission line will also be built next to the farms to drain the electricity to be generated for the National Interconnected System - SIN.

With all the necessary licenses in hand, the civil works began in the first week of January 2021. From October 15, 2022 to the date of issue of these financial statements, 21 generating units totaling 72.76 MW of installed capacity started commercial operation. The other 5 wind turbines are operating under test. The entry into commercial operation of the entire project is expected to occur in a staggered manner until the end of 2022.

## 17 Intangible assets

Consolidated	09.30.2022	12.31.2021
Concession agreement - distribution of electricity (17.1)	7,030,319	6,596,184
Generation concession agreements/ authorization (17.2)	2,315,760	2,473,858
Concession agreement - piped gas distribution (17.3)	68,282	96,145
Others (17.4)	50,155	49,373
	<b>9,464,516</b>	<b>9,215,560</b>

Management has not identified evidence that would justify the need for recognition of impairment of intangible assets.

### 17.1 Power distribution service concession

Consolidated	Intangible asset in service	Special liabilities in service	Total
<b>Balance as of January 1, 2022</b>	<b>9,330,317</b>	<b>(2,734,133)</b>	<b>6,596,184</b>
Transfers from contract assets (Note 10.1)	916,469	(135,219)	781,250
Transfers to other receivables	(398)	-	(398)
Amortization quotas - concession (a)	(418,132)	114,279	(303,853)
Amortization quotas - PIS/Pasep and Cofins credits	(7,870)	-	(7,870)
Loss on disposal	(34,994)	-	(34,994)
<b>Balance as of September 30, 2022</b>	<b>9,785,392</b>	<b>(2,755,073)</b>	<b>7,030,319</b>

(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 the 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
<b>Balance as of January 1, 2022</b>	<b>1,759,286</b>	<b>714,572</b>	<b>2,473,858</b>
Effect of acquisition of control of Vilas Complex (Note 1.1.1)	-	23,982	23,982
Technical goodwill arising from the business combination - Vilas Complex (Note 1.1.1)	-	8,154	8,154
Amortization quotas - concession and authorization (b)	(171,391)	(18,843)	(190,234)
<b>Balance as of September 30, 2022</b>	<b>1,587,895</b>	<b>727,865</b>	<b>2,315,760</b>

(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

<b>Balance as of January 1, 2022</b>	<b>96,145</b>
Transfers from contract assets (Note 10.2)	2,233
Transfers to accounts receivable - concessions (Note 9.2)	(768)
Amortization quotas - concession	(29,138)
Loss on disposal	(190)
<b>Balance as of September 30, 2022</b>	<b>68,282</b>

The publication of Complementary Law 205/2017 brought a new interpretation regarding the expiration date of the Compagas concession, which generated a practice adjustment between the accounting records at Compagas, which maintained the expiration date provided for in the concession agreement as a basis, for 2024, and at Copel, which now considers the expiration date provided for by law, in 2019, as the basis for accounting. As of Complementary Law 227/2020, which determined that the expiration date should be in 2024, the difference generated by the practice adjustment made since December 2017 is recorded in intangible assets and will be amortized until the end of the concession.

### 17.4 Other intangible assets

<b>Consolidated</b>	<b>in service</b>	<b>in progress</b>	<b>Total</b>
<b>Balance as of January 1, 2022</b>	<b>22,242</b>	<b>27,131</b>	<b>49,373</b>
Acquisitions	-	6,244	6,244
Capitalizations for intangible in service	5,227	(5,227)	-
Amortization quotas (a)	(3,971)	-	(3,971)
Loss on disposal	-	(1,491)	(1,491)
<b>Balance as of September 30, 2022</b>	<b>23,498</b>	<b>26,657</b>	<b>50,155</b>

(a) Annual amortization rate: 20%.

## 18 Payroll, Social Charges and Accruals

	<b>Parent Company</b>		<b>Consolidated</b>
	<b>09.30.2022</b>	<b>12.31.2021</b>	<b>12.31.2021</b>
<b>Social security liabilities</b>			
Taxes and social contribution	1,014	2,214	46,245
Social security charges on paid vacation and 13th salary	1,045	1,413	17,792
	<b>2,059</b>	<b>3,627</b>	<b>64,037</b>
<b>Labor liabilities</b>			
Payroll, net	559	-	-
Vacation and 13 <sup>th</sup> salary	3,315	4,656	107,471
Provisions for performance and profit sharing	1,059	14,455	364,701
Voluntary dismissal program	1,152	13,716	68,601
Other liabilities	8	-	-
	<b>6,093</b>	<b>32,827</b>	<b>540,773</b>
	<b>8,152</b>	<b>36,454</b>	<b>604,810</b>

## 19 Accounts Payable to Suppliers

<b>Consolidated</b>	<b>09.30.2022</b>	<b>12.31.2021</b>
Energy power	1,217,200	1,303,386
Materials and supplies	589,369	770,629
Natural gas for resale	106,943	60,121
Charges for use of grid system	287,778	576,848
	<b>2,201,290</b>	<b>2,710,984</b>
	<b>Current</b>	<b>2,075,981</b>
	<b>Noncurrent</b>	<b>125,309</b>
		<b>125,249</b>

## 20 Loans and Financing

Consolidated													
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	09.30.2022	12.31.2021	
FOREIGN CURRENCY													
National Treasury Department (STN - <i>Secretaria do Tesouro Nacional</i> )													
Par Bond (a)	Copel	Debt negotiation	Guarantees deposited	05.20.1998	1	04.11.2024	Half-yearly	6.0% + 0.20%	6.0% + 0.20%	17,315	-	89,058	
Discount Bond (a)				05.20.1998	1	04.11.2024	Half-yearly	1% + 0.20%	1% + 0.20%	12,082	-	61,514	
Total foreign currency											-	-	150,572
LOCAL CURRENCY													
Banco do Brasil													
CCB 306.401.381 (b)	Copel HOL	Working capital.	Credit assignment	07.21.2015	2	03.25.2023	Quarterly	135.00% of DI	145.46% of DI	640,005	-	641,207	
CCB 265.901.903	Copel DIS			06.29.2022	2	06.24.2025	Quarterly	DI + spread 1,25%	DI + spread 2,14%	750,000	751,673	-	
											751,673	641,207	
Caixa Econômica Federal													
Commercial paper	Copel GET	Partial amortization of the 3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> 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	1,002,783	-	
												1,002,783	-
Caixa Econômica Federal													
415.855-22/14	Copel DIS	Rural Electricity Program - <i>Luz para Todos</i> .	Own revenue; issue of promissory notes and commercial duplicates.	03.31.2015	120	12.08.2026	Monthly	6.0%	6.0%	16,984	8,142	9,580	
											8,142	9,580	
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 <sup>(1)</sup>	3.0107% + IPCA	21,687	17,437	7,312	
35202164527986	Jandaira II			05.31.2021	192	06.15.2038	Monthly	2.2161% + IPCA <sup>(1)</sup> and 2.7086% + IPCA <sup>(1)</sup>	3.0107% + IPCA	56,421	47,232	18,424	
35202162927987	Jandaira III			05.31.2021	192	06.15.2038	Monthly	2.7086% + IPCA <sup>(1)</sup>	3.0107% + IPCA	65,158	54,519	21,645	
35202160027984	Jandaira IV			05.31.2021	192	06.15.2038	Monthly	2.2161% + IPCA <sup>(1)</sup> and 2.7086% + IPCA <sup>(1)</sup>	3.0107% + IPCA	65,421	54,739	22,058	
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	90,840	94,781	
35201922425522	Potiguar B142			04.04.2019	216	04.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,213	90,865	94,809	
35201926525533	Potiguar B143			04.11.2019	216	04.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,138	90,536	94,453	
35201910625534	Ventos de Vila Paraiba IV			04.18.2019	216	05.15.2039	Monthly	IPCA + 2.3323%	IPCA + 2.3323%	92,138	92,202	96,237	
352020148727169	Potiguar B61			08.11.2020	216	08.15.2040	Monthly	IPCA + 1.4865%	IPCA + 1.4865%	163,886	188,196	176,324	
											726,566	626,043	
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	63,509	72,109	
											63,509	72,109	

(a) On March 10, 2022, the debt was redeemed in advance, net of the collateral and escrow deposits.  
 (b) Debt renegotiated in March 2021, with changes in the amortization dates and the amount of financial charges.  
 (c) 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)

Consolidated													
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	09.30.2022	12.31.2021	
<b>BNDES</b>													
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	63,509	72,109	
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	11,988	14,431	
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	33,126	36,593	
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	631,453	680,413	
13210331		Implementation of Cerquillo 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	7,809	8,758	
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	16,625	18,151	
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	9,852	10,822	
18205101		Implementation of Baixo Iguaçu HPP.		11.22.2018	192	06.15.2035	Monthly	1.94% above TJLP	8.50%	194,000	162,655	171,447	
19207901 - A+B+E+F+G+H		Implementation of transmission facilities for the line: substation Medianeira; substation Curitiba Centro and Curitiba Uberaba and substation Andirá Leste.		06.03.2020	279	12.15.2043	Monthly	IPCA + 4.8165%	IPCA + 4.8570%	206,882	202,145	185,532	
19207901 - C+D+I+J		Implementation of transmission facilities for the line: transmission line Curitiba Leste - Blumenal and Baixo Iguaçu - Realeza.		06.03.2020	267	12.15.2043	Monthly	IPCA + 4.8165%	IPCA + 4.8570%	225,230	190,014	162,773	
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	13,715	19,595	
14.2.1271.1	Santa Maria	Construction and implementation of wind generating plants.	Surety of Copel; pledge of shares; assignment of receivables and revenues.	06.01.2015	192	08.15.2031	Monthly	1.66% above TJLP	8.26%	71,676	35,001	37,771	
14.2.1272.1	Santa Helena			06.01.2015	192	08.15.2031	Monthly	1.66% above TJLP	8.26%	82,973	37,977	40,983	
11211521	GE Farol		Pledge of shares; assignment of receivables from energy sales from the project; assignment of machinery and equipment.	03.19.2012	192	06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	54,100	30,778	33,570	
11211531	GE Boa Vista			03.19.2012	192	06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	40,050	22,754	24,818	
11211541	GE S.B. do Norte			03.19.2012	192	06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	90,900	51,604	56,287	
11211551	GE Olho D'Água			03.19.2012	192	06.15.2030	Monthly	2.34% above TJLP	2.34% above TJLP	97,000	55,112	60,113	
18204611	Cutia		Pledge of shares; assignment of receivables.	10.10.2018	192	07.15.2035	Monthly	2.04% above TJLP	8.37%	619,405	548,077	563,569	
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	13,343	14,898	
13212221 - B				12.03.2013	106	09.30.2023	Monthly	3.5%	3.5%	9,086	798	1,396	
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	17,580	19,444	
14205851 - B				07.08.2014	106	04.30.2024	Monthly	6.0%	6.0%	21,577	3,585	5,285	
</													

DI - Interbank Deposit Rate

IPCA - Inflation Index

TJLP - Long term interest rate

## 20.1 Breakdown of loans and financing by currency and index

Consolidated		09.30.2022	%	12.31.2021	%
<b>Foreign currency - change in currencies in the period (%)</b>					
U.S. Dollar	(3.31)	-	-	150,572	4.09
		-	-	<b>150,572</b>	<b>4.09</b>
<b>Local currency - indexes at period end (%)</b>					
TJLP	7.01	1,794,236	38.46	1,916,561	52.11
CDI	13.65	1,735,880	37.21	639,555	17.39
TR	0.18	-	-	-	-
IPCA	4.09	1,109,003	23.77	935,900	25.44
Without indexer (annual fixed rate)	-	26,239	0.56	35,856	0.97
		<b>4,665,358</b>	<b>100.00</b>	<b>3,527,872</b>	<b>95.91</b>
		<b>4,665,358</b>	<b>100.00</b>	<b>3,678,444</b>	<b>100.00</b>

## 20.2 Maturity of noncurrent installments

Consolidated			
09.30.2022	Gross debt	(-) Transaction cost	Net debt
2023	60,478	(2,230)	58,248
2024	607,496	(8,901)	598,595
2025	1,604,416	(5,667)	1,598,749
2026	230,387	(2,171)	228,216
2027	232,068	(2,172)	229,896
After 2027	1,728,438	(16,846)	1,711,592
	<b>4,463,283</b>	<b>(37,987)</b>	<b>4,425,296</b>

## 20.3 Changes in loans and financing

Parent Company			
	Foreign currency	Local currency	Total
<b>Balance as of January 1, 2022</b>	<b>150,572</b>	<b>639,555</b>	<b>790,127</b>
Charges	953	50,901	51,854
Monetary and exchange variations	(14,378)	-	(14,378)
Amortization - principal	(134,894)	(640,005)	(774,899)
Payment - charges	(2,253)	(50,451)	(52,704)
<b>Balance as of September 30, 2022</b>	<b>-</b>	<b>-</b>	<b>-</b>

Consolidated			
	Foreign currency	Local currency	Total
<b>Balance as of January 1, 2022</b>	<b>150,572</b>	<b>3,527,872</b>	<b>3,678,444</b>
Effect of acquisition of control of Vilas Complex (Note 1.1.1)	-	25,398	25,398
Funding	-	1,891,201	1,891,201
(-) Transaction costs	-	(19,781)	(19,781)
Charges	953	280,461	281,414
Monetary and exchange variations	(14,378)	28,564	14,186
Amortization - principal	(134,894)	(805,690)	(940,584)
Payment - charges	(2,253)	(262,667)	(264,920)
<b>Balance as of September 30, 2022</b>	<b>-</b>	<b>4,665,358</b>	<b>4,665,358</b>

## 20.4 Covenants

The loan and financing agreements contain covenants 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 interest of the Company in the capital stock of the subsidiaries that would represent a change of control without prior consent. Failing to fulfill these conditions may lead to early maturity of the debts and/or fines.

As of December 31, 2021, all financial indicators measured annually have been fully met. As of September 30, 2022, all other ratios and covenants have been 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 GE Boa Vista S.A. GE Farol S.A. GE Olho D'Água S.A. GE São Bento do Norte S.A.	BNDES Assignment Agreement BNDES Finem No. 11211531 BNDES Finem No. 11211521 BNDES Finem No. 11211551 BNDES Finem No. 11211541	Debt service coverage ratio	≥ 1.3
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



## 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	09.30.2022	12.31.2021
Copel	8 <sup>th</sup>	(a)	Payment of the 6 <sup>th</sup> 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	-	502,400
	3 <sup>rd</sup>	(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	357,491	339,767
	4 <sup>th</sup>		Full early redemption of the 4 <sup>th</sup> issue of the Company's trade promissory notes and partial payment of the 1 <sup>st</sup> amortization installment of the 2 <sup>nd</sup> issue of debentures.		07.23.2018	3	07.23.2023	Half-yearly	126.0% of DI	133.77% of DI	1,000,000	343,668	690,311
Copel GeT	5 <sup>th</sup>	(b)	Reimbursement of expenses related to the construction of the Transmission Lines Araraquara II - Taubaté, Assis - Londrina and Foz do Chopim.	Personal guarantee	09.25.2018	5	09.15.2025	Half-yearly	IPCA + 7.6475%	IPCA+ 8.3295%	290,000	219,188	284,483
	6 <sup>th</sup> (1 <sup>st</sup> serie)	(c)	Full early redemption of the 5 <sup>th</sup> issue of the Company's trade promissory notes and partial payment of the 2 <sup>nd</sup> amortization installment of the 2 <sup>nd</sup> issue of debentures.		07.15.2019	2	07.15.2024	Half-yearly	109.0% of DI	111.25% of DI	800,000	824,049	825,358
	6 <sup>th</sup> (2 <sup>nd</sup> 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	246,310	237,650
	7 <sup>th</sup> (1 <sup>st</sup> serie)		Reinforcement of the Issuer's working capital; amortization and/or reimbursement of cash of the principal portion of the 3 <sup>rd</sup> and 4 <sup>th</sup> issue of debentures.		10.15.2021	2	10.15.2026	Half-yearly	DI + spread 1.38%	DI + spread 1.45%	1,133,363	1,206,719	1,148,216
	7 <sup>th</sup> (2 <sup>nd</sup> serie)		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.		10.15.2021	3	10.15.2031	Half-yearly	IPCA + 5.7138%	IPCA + 6.1033%	366,637	399,108	374,658
Copel DIS	3 <sup>rd</sup>	(a)	Working capital or used to make investments in the issuer.	Personal guarantee	10.20.2017	2	10.20.2022	Half-yearly	126.0% of DI	130.85% of DI	500,000	268,118	254,824
	4 <sup>th</sup>		Working capital and payment of the 1 <sup>st</sup> installment of amortization of the 2 <sup>nd</sup> issue of debentures.		09.27.2018	3	09.27.2023	Half-yearly	DI + spread 2.70%	CDI + 3.96%	1,000,000	333,948	684,185
	5 <sup>th</sup> (1 <sup>st</sup> 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	618,034	584,489
	5 <sup>th</sup> (2 <sup>nd</sup> serie)		Reinforcement of working capital and recomposition of cash by the final amortization of the 2 <sup>nd</sup> issue of debentures.		11.15.2019	2	11.15.2022	Half-yearly	DI + spread 1.45%	CDI + 1.65%	350,000	184,597	177,187
	6 <sup>th</sup> (1 <sup>st</sup> serie)		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 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> Issue.		06.16.2021	2	06.15.2026	Half-yearly	CDI + spread 1.95%	CDI + 2.02%	1,000,000	1,044,146	1,005,102
	6 <sup>th</sup> (2 <sup>nd</sup> serie)		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	560,427	529,366
	7 <sup>th</sup> (1 <sup>st</sup> serie)	(e)	Reinforcement of working capital; redemption of 3 <sup>rd</sup> issue debentures; amortization of the 2 <sup>nd</sup> installment of the principal of the 4 <sup>th</sup> and 5 <sup>th</sup> issuance.		05.15.2022	2	05.15.2025	Half-yearly	CDI + 1.21%	CDI + 1.28%	300,000	312,565	-
	7 <sup>th</sup> (2 <sup>nd</sup> serie)				05.15.2022	2	05.15.2027	Half-yearly	CDI + 1.36%	CDI + 1.42%	901,450	939,621	-
	7 <sup>th</sup> (3 <sup>rd</sup> serie)		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	302,782	-
Brisa Potiguar	2 <sup>nd</sup> (1 <sup>st</sup> 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	93,564	100,240
2 <sup>nd</sup> (2 <sup>nd</sup> serie)			03.24.2016	192	07.15.2032	Monthly	IPCA + 9.87%	IPCA+ 10.92%	153,258	127,929	131,630		
Cutia	1 <sup>st</sup>	(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	377,950	370,903
Gross debt												8,760,214	8,240,769
(-) Transaction cost												(88,748)	(93,152)
Net debt												8,671,466	8,147,617
Current												2,226,643	2,144,485
Noncurrent												6,444,823	6,003,132

(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 Eurus 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

09.30.2022	Consolidated		
	Gross debt	(-) Transaction cost	Net debt
2023	18,880	(3,649)	15,231
2024	669,596	(13,361)	656,235
2025	1,792,198	(11,436)	1,780,762
2026	1,786,856	(9,168)	1,777,688
2027	715,751	(7,584)	708,167
After 2027	1,530,004	(23,264)	1,506,740
	<b>6,513,285</b>	<b>(68,462)</b>	<b>6,444,823</b>

### 21.2 Changes in debentures

	Parent Company	Consolidated
<b>Balance as of January 1, 2022</b>	<b>501,716</b>	<b>8,147,617</b>
Funding	-	1,500,000
(-) Transaction costs	-	(14,445)
Charges and monetary variations	26,642	851,398
Amortization - principal	(500,000)	(1,271,900)
Payment - charges	(28,358)	(541,204)
<b>Balance as of September 30, 2022</b>	<b>-</b>	<b>8,671,466</b>

### 21.3 Covenants

The debentures issued contain covenants 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 interest of the Company in the capital stock that would represent a 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 the prior written consent of the debenture holders. Failing to fulfill these conditions may result in the early maturity of the debentures and regulatory penalties.

As of December 31, 2021, all financial indicators measured annually have been fully met. As of September 30, 2022, all other ratios and covenants have been fully met.

The financial covenants contained in debentures agreements are presented as follows:

Company	Contractual Instrument	Annual financial ratio	Limit
Copel GeT	3 <sup>rd</sup> issue of Debentures	Consolidated net debt / Consolidated ebitda Debt service coverage ratio	≤ 3.5 ≥ 1.5
	4 <sup>th</sup> issue of Debentures		
	5 <sup>th</sup> issue of Debentures		
	6 <sup>th</sup> issue of Debentures		
	7 <sup>th</sup> issue of Debentures		
Copel DIS	3 <sup>rd</sup> issue of Debentures	Debt service coverage ratio	≥ 1.3
	4 <sup>th</sup> issue of Debentures		
	5 <sup>th</sup> issue of Debentures		
	6 <sup>th</sup> issue of Debentures		
	7 <sup>th</sup> issue of Debentures		
Nova Asa Branca I Nova Asa Branca II Nova Asa Branca III Nova Eurus IV Ventos de Santo Uriel	2 <sup>nd</sup> issue of Debentures	Debt service coverage ratio	≥ 1.2
Cutia	1 <sup>st</sup> issue of Debentures	Debt service coverage ratio (a)	≥ 1.2

(a) financial ratio calculated based on the amounts of the consolidated financial statements of Cutia Empreendimentos Eólicos S.A.

## 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

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

Plan III is a Variable Contribution plan - CV, being the only plan available for new participants.

### 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 Balance sheet and statement of income

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

	Parent Company		Consolidated	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
Pension plans	20	12	762	965
Healthcare plans	34,202	14,139	1,344,424	1,294,209
	<b>34,222</b>	<b>14,151</b>	<b>1,345,186</b>	<b>1,295,174</b>
<b>Current</b>	<b>255</b>	<b>229</b>	<b>71,175</b>	<b>68,836</b>
<b>Noncurrent</b>	<b>33,967</b>	<b>13,922</b>	<b>1,274,011</b>	<b>1,226,338</b>

Amounts recognized in the statement of income are shown below:

	Parent Company			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Employees</b>				
Pension plans	1,641	585	487	322
Healthcare plan - post employment	1,312	689	437	267
Healthcare plan - active employees	1,186	932	351	403
	<b>4,139</b>	<b>2,206</b>	<b>1,275</b>	<b>992</b>
<b>Management</b>				
Pension plans	493	245	164	83
Healthcare plan	51	20	17	(6)
	<b>544</b>	<b>265</b>	<b>181</b>	<b>77</b>
	<b>4,683</b>	<b>2,471</b>	<b>1,456</b>	<b>1,069</b>

  

	Consolidated			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Employees</b>				
Pension plans	41,806	41,928	13,525	13,800
Healthcare plan - post employment	105,220	87,379	35,074	29,125
Healthcare plan - active employees	52,337	54,303	16,834	18,414
	<b>199,363</b>	<b>183,610</b>	<b>65,433</b>	<b>61,339</b>
<b>Management</b>				
Pension plans	863	943	284	295
Healthcare plan	111	93	38	17
	<b>974</b>	<b>1,036</b>	<b>322</b>	<b>312</b>
	<b>200,337</b>	<b>184,646</b>	<b>65,755</b>	<b>61,651</b>

## 22.4 Changes in post-employment benefits

	Parent Company	Consolidated
<b>Balance as of January 1, 2022</b>	<b>14,151</b>	<b>1,295,174</b>
Appropriation of actuarial calculation	1,312	105,220
Appropriation of pension and healthcare contributions	3,629	90,056
Adjustment related to actuarial (gains) loss (a)	18,928	59
Amortizations	(3,798)	(145,323)
<b>Balance as of September 30, 2022</b>	<b>34,222</b>	<b>1,345,186</b>

## 23 Sectorial Charges Payable

Consolidated	09.30.2022	12.31.2021
Energy Development Account - CDE	36,505	41,786
Global Reversal Reserve - RGR	6,212	8,834
Tariff flags (Note 30.3.2)	-	147,766
	<b>42,717</b>	<b>198,386</b>

## 24 Research and Development and Energy Efficiency

By 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 recorded balances of the 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 09.30.2022	Balance as of 12.31.2021
<b>Research and Development - R&amp;D</b>					
FNDCT	-	6,800	-	6,800	7,584
MME	-	3,400	-	3,400	3,790
R&D	227,374	1,339	35,022	263,735	286,029
	<b>227,374</b>	<b>11,539</b>	<b>35,022</b>	<b>273,935</b>	<b>297,403</b>
<b>Energy efficiency program - EEP</b>					
Procel	-	6,475	-	6,475	19,883
EEP	121,327	2,363	220,739	344,429	309,811
	<b>121,327</b>	<b>8,838</b>	<b>220,739</b>	<b>350,904</b>	<b>329,694</b>
	<b>348,701</b>	<b>20,377</b>	<b>255,761</b>	<b>624,839</b>	<b>627,097</b>
Current				<b>276,868</b>	<b>292,495</b>
Noncurrent				<b>347,971</b>	<b>334,602</b>

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
<b>Balance as of January 1, 2022</b>	<b>7,584</b>	<b>3,790</b>	<b>286,029</b>	<b>19,883</b>	<b>309,811</b>	<b>627,097</b>
Additions	29,287	14,643	29,115	8,428	33,711	115,184
Performance agreement	-	-	-	-	1,817	1,817
Interest rate (Note 32)	-	-	5,057	1,185	17,935	24,177
Transfers	-	-	-	(3,685)	3,685	-
Payments	(30,071)	(15,033)	(5,838)	(19,336)	(10,325)	(80,603)
Concluded projects	-	-	(50,628)	-	(12,205)	(62,833)
<b>Balance as of September 30, 2022</b>	<b>6,800</b>	<b>3,400</b>	<b>263,735</b>	<b>6,475</b>	<b>344,429</b>	<b>624,839</b>

## 25 Accounts Payable Related to Concessions

Consolidated	Company	Grant	Signature	Closing	Discount rate	Annual Adjustment	09.30.2022	12.31.2021
HPP Mauá	Copel GeT	06.29.2007	07.03.2007	05.2047	5.65% p.y.	IPCA	21,363	20,495
HPP Colider	Copel GeT	12.29.2010	01.17.2011	01.2046	7.74% p.y.	IPCA	30,223	27,376
HPP Baixo Iguaçu	Copel GeT	07.19.2012	08.20.2012	01.2047	7.74% p.y.	IPCA	8,939	8,595
HPP Guaricana	Copel GeT	03.03.2020	03.03.2020	03.2025	7.74% p.y.	IPCA	2,388	2,894
HPP Fundação and HPP Santa Clara	Elejor	10.23.2001	10.25.2001	05.2037	11.00% p.y.	IGPM	888,137	844,599
							<b>951,050</b>	<b>903,959</b>
							<b>Current</b>	<b>106,052</b>
							<b>Noncurrent</b>	<b>844,998</b>
								<b>104,963</b>
								<b>798,996</b>

### 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

<b>Balance as of January 1, 2022</b>	<b>903,959</b>
Additions	1,854
Adjustment to present value	40,858
Monetary variations	85,002
Payments	(80,623)
<b>Balance as of September 30, 2022</b>	<b>951,050</b>

## 26 Right-of-use Asset and Lease Liability

### 26.1 Right-of-use asset

Consolidated	Balance as of January 1, 2022	Additions	Remeasurement adjustment	Amortization	Loss on disposal	Balance as of September 30, 2022
Real estate	120,929	23,892	2,279	(7,947)	(953)	138,200
Vehicles	67,833	73,041	2,755	(31,818)	-	111,811
Equipment	15,294	3,094	1,536	(6,453)	-	13,471
	<b>204,056</b>	<b>100,027</b>	<b>6,570</b>	<b>(46,218)</b>	<b>(953)</b>	<b>263,482</b>

## 26.2 Lease liability

### 26.2.1 Changes in the lease liability

	Parent Company	Consolidated
<b>Balance as of January 1, 2022</b>	<b>3,258</b>	<b>212,734</b>
Additions	1,346	100,027
Remeasurement adjustment	583	6,570
Charges	303	14,787
Amortization - principal	(274)	(42,927)
Payment - charges	(302)	(15,376)
Loss on disposal	-	(1,055)
<b>Balance as of September 30, 2022</b>	<b>4,914</b>	<b>274,760</b>
	<b>Current</b>	<b>430</b>
	<b>Noncurrent</b>	<b>4,484</b>
		<b>55,569</b>
		<b>219,191</b>

The Company defines the discount rate based on the interest rate applied to the last debentures fundraising, disregarding subsidized or incentivized funding. The interest rates applied range from 3.58% to 14.87% p.a.

### 26.2.2 Maturity of noncurrent installments

2023	14,427
2024	50,516
2025	33,309
2026	33,708
2027	9,879
After 2027	178,910
<b>Undiscounted amounts</b>	<b>320,749</b>
Imputed interest	(101,558)
<b>Lease liabilities balance</b>	<b>219,191</b>

### 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	445,350	274,760
<b>Potencial Pis/Cofins</b>	<b>33,899</b>	<b>21,793</b>

## 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	274,760	323,989	17.92%
Right to use assets	263,482	298,285	13.21%
Financial expense	14,717	18,361	24.76%
Amortization expense	46,218	50,275	8.78%

## 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 leases of land for the 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	09.30.2022
Commitments from leases and rentals	11,318	44,040	226,998	282,356

## 26.5 Receivables from leases

Consolidated	Less than 1 year	1 to 5 years	Over 5 years	Total 09.30.2022
Facilities sharing	1,031	4,122	15,773	20,926

## 27 Other Accounts Payable

Consolidated	09.30.2022	12.31.2021
Fair value in the purchase and sale of power (Note 34.2.12)	429,136	545,468
Generation deviation - wind projects (Note 34.2.11)	153,056	108,031
Payments/returns to consumers	48,688	45,579
Public lighting rate collected	45,426	32,895
Aneel Order No. 084/2017 provision	37,365	34,113
Obligations to customers in gas sales operations (a)	29,117	35,130
Financial offset for the use of water resources	27,755	12,066
Pledges in guarantee	27,379	35,285
Investment acquisition	294	46,361
Other liabilities	81,451	75,364
	<b>879,667</b>	<b>970,292</b>
	<b>Current</b>	<b>370,383</b>
	<b>Noncurrent</b>	<b>599,909</b>

(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 legal counsel of the Company, 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 to the financial statements as of December 31, 2021, are met.

The Company Management believes it is impracticable to provide information regarding the timing of any cash outflows related to the lawsuits for which the Company is responsible on the date of preparation of the financial statements, given 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, 2022	Income		Settlements	Balance as of September 30, 2022
		Additions	Reversals		
<b>Tax</b>					
Cofins	110,059	9,814	-	-	119,873
Others	34,149	1,239	-	(152)	35,236
	<b>144,208</b>	<b>11,053</b>	<b>-</b>	<b>(152)</b>	<b>155,109</b>
<b>Labor</b>	<b>2,437</b>	<b>958</b>	<b>-</b>	<b>(11)</b>	<b>3,384</b>
<b>Employee benefits</b>	<b>587</b>	<b>2,338</b>	<b>(31)</b>	<b>-</b>	<b>2,894</b>
<b>Civil</b>	<b>175,356</b>	<b>14,308</b>	<b>(1,421)</b>	<b>-</b>	<b>188,243</b>
<b>Regulatory</b>	<b>25,174</b>	<b>-</b>	<b>(25,174)</b>	<b>-</b>	<b>-</b>
	<b>347,762</b>	<b>28,657</b>	<b>(26,626)</b>	<b>(163)</b>	<b>349,630</b>

Consolidated	Balances as of January 1, 2022	Income			Additions (Reversals) to assets	Settlements	Transfers/ Others	Balances as of September 30, 2022
		Provision for litigations		Construction cost				
		Additions	Reversals	Additions				
<b>Tax</b>								
Cofins	110,059	9,814	-	-	-	-	-	119,873
Others	71,056	12,563	(820)	-	-	(5,224)	(5,991)	71,584
	<b>181,115</b>	<b>22,377</b>	<b>(820)</b>	<b>-</b>	<b>-</b>	<b>(5,224)</b>	<b>(5,991)</b>	<b>191,457</b>
<b>Labors</b>	<b>569,756</b>	<b>75,834</b>	<b>(2,772)</b>	<b>-</b>	<b>-</b>	<b>(81,211)</b>	<b>-</b>	<b>561,607</b>
<b>Employee benefits</b>	<b>37,148</b>	<b>13,270</b>	<b>(2,204)</b>	<b>-</b>	<b>-</b>	<b>(173)</b>	<b>-</b>	<b>48,041</b>
<b>Civil</b>								
Civil and administrative claims	433,437	111,289	(2,036)	-	-	(50,200)	-	492,490
Easements	138,069	1,475	(90)	4,567	(462)	(612)	-	142,947
Expropriations and property	125,028	236	(8,113)	4,209	(12,228)	(5,317)	-	103,815
Customers	3,755	2,087	(618)	-	-	(1,486)	-	3,738
Environmental	5,902	127	(56)	-	-	-	-	5,973
	<b>706,191</b>	<b>115,214</b>	<b>(10,913)</b>	<b>8,776</b>	<b>(12,690)</b>	<b>(57,615)</b>	<b>-</b>	<b>748,963</b>
<b>Regulatory</b>	<b>103,155</b>	<b>2,211</b>	<b>(83,813)</b>	<b>-</b>	<b>-</b>	<b>(15,592)</b>	<b>-</b>	<b>5,961</b>
	<b>1,597,365</b>	<b>228,906</b>	<b>(100,522)</b>	<b>8,776</b>	<b>(12,690)</b>	<b>(159,815)</b>	<b>(5,991)</b>	<b>1,556,029</b>

## **28.2 Details of provisions for legal claims and contingent liabilities**

The table below shows the details of the provisions for registered litigation and, in addition, the amounts of contingent liabilities that are present obligations arising from past events for which no provisions are recognized because it is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation.

	Description	Parent Company				Consolidated			
		Provisions		Contingent liabilities		Provisions		Contingent liabilities	
		09.30.2022	12.31.2021	09.30.2022	12.31.2021	09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>Tax</b>									
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.	119,873	110,059	9,103	7,914	119,873	110,059	9,103	7,914
INSS	Tax requirements related to the social security contribution.	30,561	29,813	117,466	107,840	30,561	29,813	117,466	107,840
Federal taxes	Administrative requirements and questions from Receita Federal do Brasil (Federal Revenue Service).	-	-	47,231	45,602	1,857	1,721	52,953	77,058
ICMS (VAT)	Administrative requirements and questions from the State regarding the payment of ICMS (VAT) on the Company's invoices.	-	-	-	-	4,145	-	24,653	43,346
IPTU	Tax Requirement on Urban Territorial Property (IPTU) on properties affected by the public electricity service.	4,651	-	632	-	8,306	-	136,154	118,981
ISS	City halls tax requirement as ISS on construction services provided by third parties.	-	-	-	-	182	170	55,494	83,536
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	24	4,336	6,190	6,404	26,533	39,352	94,334	122,314
		<b>155,109</b>	<b>144,208</b>	<b>180,622</b>	<b>167,760</b>	<b>191,457</b>	<b>181,115</b>	<b>490,157</b>	<b>560,989</b>
<b>Labor</b>	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).	<b>3,384</b>	<b>2,437</b>	<b>2,625</b>	<b>3,606</b>	<b>561,607</b>	<b>569,756</b>	<b>372,587</b>	<b>275,230</b>
<b>Employee benefits</b>	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.	<b>2,894</b>	<b>587</b>	-	-	<b>48,041</b>	<b>37,148</b>	<b>12,939</b>	<b>3,524</b>
<b>Regulatory</b>									
Aneel Order nº 288/2002	Legal actions against Aneel Dispatch No. 288/2002 involving the companies Companhia Estadual de Energia Elétrica - CEEE and Dona Francisca Energética S.A.	-	25,174	-	-	-	82,670	-	-
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-day 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.	-	-	-	-	-	-	1,140,191	1,066,486
Colíder 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 Colíder 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	295,931
Other	Aneel's notifications about possible breaches of regulatory standards	-	-	-	-	5,961	20,485	47,958	38,099
		<b>-</b>	<b>25,174</b>	<b>-</b>	<b>-</b>	<b>5,961</b>	<b>103,155</b>	<b>1,531,182</b>	<b>1,400,516</b>

(continued)

	Description	Parent Company				Consolidated			
		Provisions		Contingent liabilities		Provisions		Contingent liabilities	
		09.30.2022	12.31.2021	09.30.2022	12.31.2021	09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>Civil</b>									
Tobacco growers	Actions whose main cause is the lack of electricity causing loss of production.	-	-	-	-	79,392	79,092	74,794	68,104
Arbitration	Discussion by arbitration under secrecy and confidentiality, in the discovery phase, with no decision having been handed down to date.	176,572	165,158	732,791	670,704	176,572	165,158	732,791	670,704
PIS / Cofins credit	Contingent liability related to the allocation of PIS and Cofins tax credits recognized by the Company. With the enactment of Law No. 14,385/2022, the Management of Copel and its legal advisors reassessed the risk and Copel DIS recorded the provision, as detailed in Note 12.2.1.	-	-	-	-	-	-	-	1,775,347
Civil and administrative law	Other actions involving billing, supposed irregular procedures, administrative contracts and contractual fines, indemnity for accidents with the electric power network and accident with vehicles.	11,671	10,198	5,514	6,639	136,712	131,519	600,794	383,597
Indemnification to third parties (civil)	Actions for indemnity for resulting from damages caused during the construction of power plants. The execution of the sentence began without the previously determined accounting expertise. In the 1 <sup>st</sup> degree, Copel challenged the execution and presented an insurance policy as a guarantee until a decision on the performance of an expert examination and excess of the value. As there was still no favorable position on the merits, the risk was reassessed with a change in the provisioned balance.	-	-	-	-	99,814	57,663	97,818	29,592
Easements	Discussion between the amount determined by Copel for payment and the amount claimed by the property owner and/or when the owner's documentation supporting title to the property may not be registered (when probate proceedings are still in progress, properties have no registry number with the land registry, etc.), intervention in third-party adverse possession, either as a confronter, or in case of a property where there are areas of easement of passage, in order to preserve the limits and boundaries of expropriated areas.	-	-	-	-	142,947	138,075	26,191	29,100
Expropriations and property	Discussion between the amount assessed by Copel for payment and the amount claimed by the owner, and / or when the owner's documentation does not present conditions for registration (inventories in progress, properties without registration, among others); actions for repossession of real estate owned by the concessionaire; intervention in the adverse possession of third parties, as a confrontant, in order to preserve the limits and confrontations of the expropriated areas.	-	-	-	-	103,815	93,679	87,881	70,198
Indemnification to third parties (expropriations)	Expropriation lawsuit for construction of electric substation and expropriation of property flooded of power plant, settled in the second quarter of 2022.	-	-	-	-	-	31,348	-	-
Consumers	Lawsuits seeking compensation for damages caused in household appliances, industrial and commercial machines, lawsuits claiming damages for pain and suffering caused by service interruption and lawsuits filed by industrial consumers, challenging the lawfulness of the increase in electricity prices while Plano Cruzado (anti-inflation economic plan) was in effect and claiming reimbursement for the amounts paid by the Company.	-	-	-	-	3,738	3,755	1,870	3,964
Environmental	Public civil and class actions whose purpose is to obstruct the progress of environmental licensing for new projects or to recover permanent preservation areas located around the hydroelectric power plant dams unlawfully used by private individuals. If the outcome of the lawsuits is unfavorable to the Company, Management estimates only the cost to prepare new environmental studies and to recover the areas owned by Copel GeT. They also include the Commitment Agreements (Termos de Ajuste de Conduta - TAC, in Portuguese), which refer to the commitments agreed-upon and approved between the Company and the relevant bodies, for noncompliance with any condition provided for by the Installation and Operating Licenses.	-	-	-	-	5,973	5,902	220,616	206,647
		<b>188,243</b>	<b>175,356</b>	<b>738,305</b>	<b>677,343</b>	<b>748,963</b>	<b>706,191</b>	<b>1,842,755</b>	<b>3,237,253</b>
		<b>349,630</b>	<b>347,762</b>	<b>921,552</b>	<b>848,709</b>	<b>1,556,029</b>	<b>1,597,365</b>	<b>4,249,620</b>	<b>5,477,512</b>

## 29 Equity

### 29.1 Capital

On September 30, 2022, paid-in capital is R\$10,800,000 (R\$10,800,000 as of December 31, 2021). It includes shares (with no par value), and the main shareholders are presented below, already considering the adjusted number of shares after the split approved by Management:

Shareholders	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
Eletrobras	15,307,740	1.45	-	-	-	-	15,307,740	0.56
Free float:								
B3	135,423,006	12.86	667,230	21.33	898,657,796	53.52	1,034,748,032	37.82
NYSE	34,377,015	3.26	-	-	137,508,060	8.19	171,885,075	6.28
Latibex	223,667	0.02	-	-	1,760,243	0.10	1,983,910	0.07
City Halls	1,783,930	0.17	93,260	2.98	34,710	-	1,911,900	0.07
Other shareholders	1,515,221	0.14	2,367,510	75.69	783,221	0.05	4,665,952	0.17
	<b>1,054,090,460</b>	<b>100.00</b>	<b>3,128,000</b>	<b>100.00</b>	<b>1,679,335,290</b>	<b>100.00</b>	<b>2,736,553,750</b>	<b>100.00</b>

### 29.2 Equity valuation adjustments

	Parent company	Consolidated
<b>Balance as of January 1, 2022</b>	<b>426,170</b>	<b>426,170</b>
<b>Actuarial liabilities (a)</b>		
Post employment benefits	(18,928)	(60)
Taxes on adjustments	6,436	10,700
Post employment benefits - equity in the earnings of investees, net of taxes.	23,132	-
<b>Realization of equity evaluation adjustment</b>		
Deemed cost of fixed assets	-	(42,973)
Taxes on adjustments	-	14,611
Deemed cost of fixed assets - equity in the parent company, net of taxes	(28,362)	-
<b>Balance as of September 30, 2022</b>	<b>408,448</b>	<b>408,448</b>

### 29.3 Earnings per share - basic and diluted

Parent company	Continuing operations	Total 09.30.2022	Continuing operations	Discontinued operations	Total 09.30.2021
<b>Basic and diluted numerator</b>					
Basic and diluted earnings allocated by classes of shares, allocated to controlling shareholders:					
Common shares	178,075	178,075	1,350,360	499,896	1,850,256
Class "A" preferred shares	581	581	4,059	1,438	5,497
Class "B" preferred shares	312,074	312,074	2,025,140	684,042	2,709,182
	<b>490,730</b>	<b>490,730</b>	<b>3,379,559</b>	<b>1,185,376</b>	<b>4,564,935</b>
<b>Basic and diluted denominator</b>					
Weighted average of shares (in thousands):					
Common shares	1,054,090,460	1,054,090,460	1,218,093,751	1,218,093,751	1,218,093,751
Class "A" preferred shares	3,128,000	3,128,000	3,185,750	3,185,750	3,185,750
Class "B" preferred shares	1,679,335,290	1,679,335,290	1,515,274,249	1,515,274,249	1,515,274,249
	<b>2,736,553,750</b>	<b>2,736,553,750</b>	<b>2,736,553,750</b>	<b>2,736,553,750</b>	<b>2,736,553,750</b>
<b>Basic and diluted earnings per share attributable to controlling shareholders</b>					
Common shares	0.16894	0.16894	1.10858	0.41039	1.51897
Class "A" preferred shares	0.18583	0.18583	1.27410	0.45143	1.72553
Class "B" preferred shares	0.18583	0.18583	1.33648	0.45143	1.78791

  

Parent company	Continued operations	07.01.2022 to 09.30.2022	Continued operations	Discontinued operations	07.01.2021 to 09.30.2021
<b>Basic and diluted numerator</b>					
Basic and diluted earnings allocated by classes of shares, allocated to controlling shareholders:					
Common shares	131,693	131,693	652,004	466,218	1,118,222
Class "A" preferred shares	430	430	2,050	1,341	3,391
Class "B" preferred shares	230,789	230,789	1,069,530	637,959	1,707,489
	<b>362,912</b>	<b>362,912</b>	<b>1,723,584</b>	<b>1,105,518</b>	<b>2,829,102</b>
<b>Basic and diluted denominator</b>					
Weighted average of shares (in thousands):					
Common shares	1,054,090,460	1,054,090,460	1,218,093,751	1,218,093,751	1,218,093,751
Class "A" preferred shares	3,128,000	3,128,000	3,185,750	3,185,750	3,185,750
Class "B" preferred shares	1,679,335,290	1,679,335,290	1,515,274,249	1,515,274,249	1,515,274,249
	<b>2,736,553,750</b>	<b>2,736,553,750</b>	<b>2,736,553,750</b>	<b>2,736,553,750</b>	<b>2,736,553,750</b>
<b>Basic and diluted earnings per share attributable to controlling shareholders</b>					
Common shares	0.12494	0.12494	0.53527	0.38274	0.91801
Class "A" preferred shares	0.13743	0.13743	0.64345	0.42102	1.06447
Class "B" preferred shares	0.13743	0.13743	0.70583	0.42102	1.12685

### 29.4 Additional dividend proposed

On April 29, 2022, the General Meeting approved the payment of the additional dividends proposed recorded on December 31.2021, in the amount of R\$1,368,675.

## 30 Net Operating Revenue

Consolidated	Gross revenues	PIS/Pasep and Cofins	ICMS (VAT)	Sectorial charges	Service tax (ISSQN)	Net revenue	
						09.30.2022	09.30.2021
Electricity sales to final customers	9,095,527	(679,912)	(1,756,708)	(911,970)	-	5,746,937	5,334,816
Electricity sales to distributors	3,478,218	(486,347)	(15,037)	(45,447)	-	2,931,387	4,318,090
Use of the main distribution and transmission grid	7,687,821	(578,279)	(1,595,416)	(1,981,721)	-	3,532,405	3,864,584
Construction income	1,600,833	-	-	-	-	1,600,833	1,383,117
Fair value of assets from the indemnity for the concession	57,876	-	-	-	-	57,876	97,588
Distribution of piped gas	1,211,188	(90,428)	(210,668)	-	(63)	910,029	503,953
Result of sectorial financial assets and liabilities	1,332,293	(123,237)	-	-	-	1,209,056	1,674,415
Other operating revenue	358,474	(40,926)	-	-	(5,034)	312,514	214,032
	<b>24,822,230</b>	<b>(1,999,129)</b>	<b>(3,577,829)</b>	<b>(2,939,138)</b>	<b>(5,097)</b>	<b>16,301,037</b>	<b>17,390,595</b>

Consolidated	Gross revenues	PIS/Pasep and Cofins	ICMS (VAT)	Sectorial charges	Service tax (ISSQN)	Net revenue	
						07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Electricity sales to final customers	2,309,820	(184,992)	(310,455)	(64,298)	-	1,750,075	1,882,078
Electricity sales to distributors	1,183,233	(169,456)	(4,373)	(12,395)	-	997,009	1,958,982
Use of the main distribution and transmission grid	2,347,367	(207,216)	(322,386)	(645,799)	-	1,171,966	1,436,361
Construction income	566,463	-	-	-	-	566,463	512,311
Fair value of assets from the indemnity for the concession	(19,429)	-	-	-	-	(19,429)	28,869
Distribution of piped gas	463,091	(33,242)	(81,260)	-	(2)	348,587	198,287
Result of sectorial financial assets and liabilities	584,626	(54,078)	-	-	-	530,548	885,127
Other operating revenue	124,293	(13,464)	-	-	(1,326)	109,503	75,768
	<b>7,559,464</b>	<b>(662,448)</b>	<b>(718,474)</b>	<b>(722,492)</b>	<b>(1,328)</b>	<b>5,454,722</b>	<b>6,977,783</b>

### 30.1 Revenue by type and/or class of customers

Consolidated	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Electricity sales to final customers</b>	<b>9,095,527</b>	<b>8,594,116</b>	<b>2,309,820</b>	<b>3,366,473</b>
Residential	2,793,129	2,821,690	619,881	1,145,364
Industrial	789,135	863,936	193,318	359,536
Trade, services and other activities	1,589,140	1,482,354	335,669	593,260
Rural	629,224	599,268	135,702	237,055
Public entities	210,489	176,798	46,345	74,780
Public lighting	210,687	228,465	43,101	99,685
Public service	287,660	277,376	66,088	114,484
Free consumers	2,025,048	1,641,537	694,158	582,408
Donations and grants	561,015	502,692	175,558	159,901
<b>Electricity sales to distributors</b>	<b>3,478,218</b>	<b>5,019,792</b>	<b>1,183,233</b>	<b>2,259,255</b>
Bilateral contracts	2,169,128	1,792,257	727,251	682,776
Regulated contracts	774,293	756,220	266,282	249,099
Electric Energy Trade Chamber - CCEE	445,640	2,374,857	178,689	1,291,070
Effective interest - grant bônus (Note 9.3)	89,157	96,458	11,011	36,310
<b>Use of the main distribution and transmission grid</b>	<b>7,687,821</b>	<b>7,402,031</b>	<b>2,347,367</b>	<b>2,618,924</b>
Residential	2,274,814	2,207,361	715,428	771,159
Industrial	1,064,130	1,079,017	317,250	398,643
Trade, services and other activities	1,403,265	1,276,928	426,523	446,905
Rural	508,292	461,828	165,640	156,415
Public entities	175,885	142,005	56,242	52,628
Public lighting	153,001	158,677	48,817	55,240
Public service	172,119	159,128	56,908	57,375
Free consumers	1,246,963	1,056,057	484,028	387,185
Concessionaires and generators	63,644	56,885	21,276	21,867
Operating and maintenance income - O&M and interest income	625,708	804,145	55,255	271,507
<b>Construction income</b>	<b>1,600,833</b>	<b>1,383,117</b>	<b>566,463</b>	<b>512,311</b>
Power distribution service concession	1,493,455	1,188,952	530,166	426,694
Power gas distribution service concession	9,039	8,648	2,723	2,979
Power transmission concession (a)	98,339	185,517	33,574	82,638
<b>Fair value of assets from the indemnity for the concession</b>	<b>57,876</b>	<b>97,588</b>	<b>(19,429)</b>	<b>28,869</b>
<b>Distribution of piped gas</b>	<b>1,211,188</b>	<b>672,564</b>	<b>463,091</b>	<b>264,719</b>
<b>Result of sectorial financial assets and liabilities</b>	<b>1,332,293</b>	<b>1,845,084</b>	<b>584,626</b>	<b>975,346</b>
<b>Other operating revenue</b>	<b>358,474</b>	<b>234,410</b>	<b>124,293</b>	<b>89,447</b>
Leasing and rent (30.2)	270,029	178,525	98,000	68,288
Fair value in the purchase and sale of power	-	1,323	-	(18,090)
Income from rendering of services	48,413	49,659	9,929	30,023
Other income	40,032	4,903	16,364	9,226
<b>GROSS OPERATING REVENUE</b>	<b>24,822,230</b>	<b>25,248,702</b>	<b>7,559,464</b>	<b>10,115,344</b>
(-) Pis/Pasep and Cofins	(1,999,129)	(2,030,512)	(662,448)	(838,344)
(-) ICMS (VAT)	(3,577,829)	(3,509,195)	(718,474)	(1,268,227)
(-) Service tax (ISSQN)	(5,097)	(4,775)	(1,328)	(1,878)
(-) Sectorial charges (30.3)	(2,939,138)	(2,313,625)	(722,492)	(1,029,112)
<b>NET OPERATING REVENUE</b>	<b>16,301,037</b>	<b>17,390,595</b>	<b>5,454,722</b>	<b>6,977,783</b>

(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	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Equipment and structures	268,736	177,956	97,559	68,042
Facilities sharing	1,117	417	377	206
Real estate	176	152	64	40
	<b>270,029</b>	<b>178,525</b>	<b>98,000</b>	<b>68,288</b>

## 30.3 Regulatory charges

Consolidated	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Energy Development Account - "CDE" - Power distribution service concession (30.3.1)	2,009,649	1,299,982	660,613	437,736
Other charges - rate flags (30.3.2)	724,405	807,519	554	518,157
Research and development and energy efficiency - R&D and EEP	115,353	138,786	39,774	56,869
Global Reversion Reserve - RGR quota	29,672	32,338	5,603	2,622
Energy Development Account - "CDE" - Power transmission concession	49,714	25,890	10,967	9,551
Inspection fee	10,345	9,110	4,981	4,177
	<b>2,939,138</b>	<b>2,313,625</b>	<b>722,492</b>	<b>1,029,112</b>

### 30.3.1 Energy Development Account - "CDE" - power distribution service concession

The CDE, created by Law 10,438/2002 and amended by Law 12,783/2013, has among its sources of funds, in order to meet its objectives, the quotas paid by agents that negotiate energy with final consumers, through a charge included in the tariffs. The Company makes payments for the "CDE USO" charge, intended to cover the objectives of CDE set forth by law. The annual quotas for each distributor are defined by Aneel through resolutions enacted by it.

As of June 2021, the Company began to pay monthly the quota related to the CDE Covid Account in the amount of R\$29,032, segregated between "CDE USO" and "CDE ENERGIA". This charge, provided for in Order 939/2021, is passed on in the tariff to consumers, and is intended to amortize the credit operation contracted by CCEE in the management of the Covid Account, under the terms of Normative Resolution No. 885/2020.

The balance is as follows:

Resolutions	Period	09.30.2022
<b>CDE USO</b>		
Resolution No. 3,034/2022	May to December	955,861
Resolution No. 3,004/2021	January to April	792,498
Order No. 939/2021	From June 2021	137,583
		<b>1,885,942</b>
<b>CDE ENERGIA</b>		
Order No. 939/2021	From June 2021	123,707
		<b>2,009,649</b>

Resolutions	Period	09.30.2021
<b>CDE USO</b>		
Resolution No. 2,814/2020	January	163,844
Resolution No. 2,814/2021	February	157,767
Resolution No. 2,834/2021	March and April	277,844
Resolution No. 2,864/2021	May to September	584,398
Order No. 939/2021	June to September	61,148
		<b>1,245,001</b>
<b>CDE ENERGIA</b>		
Order No. 939/2021	June to September	54,981
		<b>1,299,982</b>

### 30.3.2 Tariff flag

The tariff flag system was established by Aneel Normative Resolution No. 547/2013, effective from 2015, to indicate the incidence or not of an increase in the value of energy to be passed on to the final consumer depending on the conditions for generating electricity.

The water crisis scenario prevailed until the first quarter of 2022, with the application of the red flag and water shortage flag modalities to cover higher energy generation costs. As of the second quarter of 2022, after improving water conditions, the application of the green flag has been prevailing, with no increase in energy bills.

### 30.4 Annual Tariff Adjustment - Copel DIS

Aneel approved the result of the 2022 Annual Tariff Adjustment of Copel DIS through Aneel Ratifying Resolution No. 3,049, of June 21, 2022, authorizing the average adjustment of 4.90% perceived by consumers (9.89% in the June 2021 adjustment by Aneel Ratifying Resolution No. 2,886, of June 22, 2021), which was fully applied to tariffs as of June 24, 2022, with the average adjustment of 9.32% for high voltage consumers and 2.68% for low voltage consumers (9.57% and 10.04%, respectively, in 2021).

## 31 Operating Costs and Expenses

Consolidated	Operational costs	Selling expenses	General and administrative expenses	Other operational expenses, net	09.30.2022	09.30.2021
Electricity purchased for resale (31.1)	(6,024,123)	-	-	-	(6,024,123)	(7,141,896)
Charge of the main distribution and transmission grid	(1,881,960)	-	-	-	(1,881,960)	(1,622,807)
Personnel and management (31.2)	(509,345)	(5,257)	(250,896)	-	(765,498)	(981,927)
Pension and healthcare plans (Note 22.3)	(136,361)	(846)	(63,130)	-	(200,337)	(184,646)
Materials	(58,468)	(5)	(7,050)	-	(65,523)	(50,042)
Materials and supplies for power electricity	(109,767)	-	-	-	(109,767)	(1,156,450)
Natural gas and supplies for gas business	(701,924)	-	-	-	(701,924)	(360,069)
Third-party services (31.3)	(421,638)	(4,633)	(144,673)	-	(570,944)	(495,909)
Depreciation and amortization	(903,229)	(1)	(42,030)	(19,119)	(964,379)	(773,797)
Credit losses, provisions and reversals (31.4)	(11,024)	(107,970)	-	(112,351)	(231,345)	(61,323)
Construction cost (31.5)	(1,582,346)	-	-	-	(1,582,346)	(1,351,173)
Hydrological risk renegotiation (GSF)	-	-	-	-	-	1,570,543
Other operational costs and expenses, net (31.6)	(171,629)	(36,326)	(89,593)	(74,156)	(371,704)	(248,205)
	<b>(12,511,814)</b>	<b>(155,038)</b>	<b>(597,372)</b>	<b>(205,626)</b>	<b>(13,469,850)</b>	<b>(12,857,701)</b>

Consolidated	Operational costs	Selling expenses	General and administrative expenses	Other operational expenses, net	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Electricity purchased for resale (31.1)	(2,166,216)	-	-	-	(2,166,216)	(3,479,170)
Charge of the main distribution and transmission grid	(603,545)	-	-	-	(603,545)	(490,835)
Personnel and management (31.2)	(164,679)	(1,782)	(83,832)	-	(250,293)	(353,151)
Pension and healthcare plans (Note 22.3)	(44,644)	(276)	(20,835)	-	(65,755)	(61,651)
Materials	(18,015)	(3)	(2,321)	-	(20,339)	(17,734)
Materials and supplies for power electricity	(22,837)	-	-	-	(22,837)	(551,727)
Natural gas and supplies for gas business	(263,509)	-	-	-	(263,509)	(141,705)
Third-party services (31.3)	(154,381)	(1,735)	(50,230)	-	(206,346)	(173,510)
Depreciation and amortization	(301,421)	-	(14,542)	(6,544)	(322,507)	(262,306)
Credit losses, provisions and reversals (31.4)	(1,329)	(25,563)	-	(28,616)	(55,508)	(89,840)
Construction cost (31.5)	(560,101)	-	-	-	(560,101)	(478,620)
Hydrological risk renegotiation (GSF)	-	-	-	-	-	1,570,543
Other operational costs and expenses, net (31.6)	(73,340)	(12,146)	(46,872)	(1,968)	(134,326)	(68,146)
	<b>(4,374,017)</b>	<b>(41,505)</b>	<b>(218,632)</b>	<b>(37,128)</b>	<b>(4,671,282)</b>	<b>(4,597,852)</b>

Parent company	General and administrative expenses	Other operational income (expenses), net	09.30.2022	09.30.2021
Personnel and management (31.2)	(27,894)	-	(27,894)	(44,249)
Pension and healthcare plans (Note 22.3)	(4,683)	-	(4,683)	(2,471)
Materials	(539)	-	(539)	(285)
Third-party services	(29,454)	-	(29,454)	(16,966)
Depreciation and amortization	(1,031)	(841)	(1,872)	(1,726)
Credit losses, provisions and reversals (31.4)	-	(4,845)	(4,845)	(37,926)
Other operational income (expenses)	(20,142)	27	(20,115)	(27,626)
	<b>(83,743)</b>	<b>(5,659)</b>	<b>(89,402)</b>	<b>(131,249)</b>

Parent company	General and administrative expenses	Other operational income (expenses), net	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Personnel and management (31.2)	(9,624)	-	(9,624)	(31,954)
Pension and healthcare plans (Note 22.3)	(1,456)	-	(1,456)	(1,069)
Materials	(102)	-	(102)	(101)
Third-party services	(10,540)	-	(10,540)	(3,408)
Depreciation and amortization	(361)	(280)	(641)	(592)
Credit losses, provisions and reversals (31.4)	-	7,460	7,460	(6,938)
Other operational income (expenses)	(9,459)	(700)	(10,159)	(14,099)
	<b>(31,542)</b>	<b>6,480</b>	<b>(25,062)</b>	<b>(58,161)</b>

### 31.1 Electricity purchased for resale

Consolidated	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Purchase of Energy in the Regulated Environment - CCEAR	2,620,554	2,773,986	916,205	1,148,113
Itaipu Binacional	1,092,451	1,329,657	378,077	440,650
Electric Energy Trade Chamber - CCEE	302,469	1,574,299	135,902	1,120,529
Bilateral contracts	1,939,807	1,813,336	755,703	941,637
Program for incentive to alternative energy sources - Proinfa	330,146	203,312	108,635	67,691
Micro and mini generators	477,941	222,155	153,676	91,258
Fair value in the purchase and sale of power	4,139	-	(13,254)	-
(-) PIS/Pasep/Cofins taxes on electricity purchased for resale	(743,384)	(774,849)	(268,728)	(330,708)
	<b>6,024,123</b>	<b>7,141,896</b>	<b>2,166,216</b>	<b>3,479,170</b>

### 31.2 Personnel and management

	Parent company			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Personnel</b>				
Employee compensation	15,671	5,671	4,894	2,939
Social charges on payroll	5,333	2,025	1,756	1,066
Meal and education allowance	1,425	1,437	385	649
Voluntary retirement program	(2,087)	21,540	-	21,540
	<b>20,342</b>	<b>30,673</b>	<b>7,035</b>	<b>26,194</b>
<b>Management</b>				
Management fees	5,482	3,389	1,832	1,132
Social charges on payroll	1,339	761	447	253
Other expenses	66	66	21	21
	<b>6,887</b>	<b>4,216</b>	<b>2,300</b>	<b>1,406</b>
<b>Provisions for performance and profit sharing of employees and administrators</b>	<b>665</b>	<b>9,360</b>	<b>289</b>	<b>4,354</b>
	<b>27,894</b>	<b>44,249</b>	<b>9,624</b>	<b>31,954</b>

	Consolidated			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Personnel</b>				
Employee compensation	454,017	465,638	147,947	152,584
Social charges on payroll	163,163	163,422	53,140	53,421
Meal and education allowance	74,511	76,299	24,178	25,470
Voluntary retirement program	(8,926)	14,392	(400)	14,392
	<b>682,765</b>	<b>719,751</b>	<b>224,865</b>	<b>245,867</b>
<b>Management</b>				
Management fees	13,377	12,917	4,403	4,357
Social charges on payroll	2,754	2,735	907	882
Other expenses	195	190	67	56
	<b>16,326</b>	<b>15,842</b>	<b>5,377</b>	<b>5,295</b>
<b>Provisions for performance and profit sharing of employees and administrators</b>	<b>66,407</b>	<b>246,334</b>	<b>20,051</b>	<b>101,989</b>
	<b>765,498</b>	<b>981,927</b>	<b>250,293</b>	<b>353,151</b>

### 31.3 Third-party services

Consolidated				
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Maintenance of electrical system	231,572	203,308	80,066	64,530
Maintenance of facilities	71,147	83,170	26,356	29,177
Communication, processing and transmission of data	67,977	47,972	20,862	17,153
Consumer service	54,017	45,483	20,862	17,229
Meter reading and bill delivery	40,200	39,692	13,363	13,850
Consulting and audit	39,556	26,236	15,239	5,679
Other services	66,475	50,048	29,598	25,892
	<b>570,944</b>	<b>495,909</b>	<b>206,346</b>	<b>173,510</b>

### 31.4 Credit losses, provisions and reversals

Parent company				
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Provision for legal claims (Note 28)	(4,526)	12,692	1,087	4,496
Provision for losses on equity interests	9,371	25,234	(8,547)	2,442
	<b>4,845</b>	<b>37,926</b>	<b>(7,460)</b>	<b>6,938</b>

  

Consolidated				
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Provision for legal claims (Note 28)	115,834	76,106	28,955	41,637
Impairment of assets				
Power generation concession contract	9,395	(2,604)	1,329	-
Gas operations (Note 11.1)	1,629	15,688	-	15,688
Property, plant and equipment - generation segment	-	(123,602)	-	-
Expected credit losses (Trade accounts and Other receivables)	107,970	92,342	25,563	32,310
Tax credits estimated losses	(3,483)	3,393	(339)	205
	<b>231,345</b>	<b>61,323</b>	<b>55,508</b>	<b>89,840</b>

### 31.5 Construction costs

Consolidated				
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
Materials	895,045	778,900	315,335	272,879
Third party services	529,998	439,418	193,593	156,429
Personnel	130,439	113,130	43,372	39,155
Others (a)	26,864	19,725	7,801	10,157
	<b>1,582,346</b>	<b>1,351,173</b>	<b>560,101</b>	<b>478,620</b>

(a) The balance of 2021 includes the reversal amount of provisions for legal claims, in the total amount of R\$ 6,921.

### 31.6 Other operating costs and expenses, net

Consolidated			07.01.2022	07.01.2021
	09.30.2022	09.30.2021	to 09.30.2022	to 09.30.2021
Financial offset for the use of water resources	97,246	66,793	41,436	25,090
Net losses (gains) in the decommissioning and disposal of assets	26,637	(4,628)	(2,960)	(20,266)
Fair value of power generation concession assets	26,451	-	45	-
Collection charge	36,172	38,215	12,078	12,379
Taxes	66,623	30,008	43,229	11,014
Insurance	31,420	25,059	10,761	8,521
Leasing and rent	30,094	13,937	13,253	8,562
Compensation	12,026	36,972	3,762	11,026
Donations, contributions, grants, tax incentives (a)	3,360	32,151	1,927	30,593
Advertising and publicity				
Associação das Emissoras de Radiodifusão do Paraná - AERP	8,644	8,518	2,949	2,832
Publicity	9,108	7,901	4,688	3,773
Sponsorship	1,739	400	624	226
Talentos Olímpicos Paranaense - TOP	3,887	3,972	2,987	1,494
Other net income, costs and expenses	18,297	(11,093)	(453)	(27,098)
	<b>371,704</b>	<b>248,205</b>	<b>134,326</b>	<b>68,146</b>

(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			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Financial income</b>				
Return on financial investments	30,799	22,596	5,842	21,959
Interest and monetary variation of CRC transfer (a)	-	255,777	-	32,522
Other financial income	20,212	8,651	6,404	4,214
(-) Pis/Pasep and Cofins taxes on financial income	(2,086)	(13,177)	(446)	(2,625)
	<b>48,925</b>	<b>273,847</b>	<b>11,800</b>	<b>56,070</b>
<b>( - ) Financial expenses</b>				
Monetary and exchange variation and debt charges	77,543	40,657	3,968	17,843
PIS/Pasep/Cofins taxes on interest on capital	24,188	28	11,810	-
Interest and monetary variation of CRC transfer (a)	-	1,788	-	-
Other financial expenses	7,593	6,667	2,569	1,330
	<b>109,324</b>	<b>49,140</b>	<b>18,347</b>	<b>19,173</b>
<b>Net</b>	<b>(60,399)</b>	<b>224,707</b>	<b>(6,547)</b>	<b>36,897</b>

(a) The balance of the Account for Compensation of Income and Losses - CRC was settled by the Paraná State Government on August 10, 2021, as detailed in Note 8 of the Financial Statements of December 31, 2021.

	Consolidated			
	09.30.2022	09.30.2021	07.01.2022 to 09.30.2022	07.01.2021 to 09.30.2021
<b>Financial income</b>				
Interest and monetary variation of CRC transfer (a)	-	255,777	-	32,522
Arrears charges on bills	225,332	247,187	62,275	72,784
Return on financial investments	338,618	85,540	124,973	53,941
Monetary variation over the Itaipu power purchase	41,374	33,000	2,041	199
Remuneration of net sectorial assets and liabilities (Note 8)	97,984	18,007	22,224	8,873
Recognition of tax credit (Note 12.2.1)	26,790	14,826	8,989	6,170
Exchange variation on loan collateral	-	10,518	-	10,507
Monetary variation and adjustment to present value of accounts payable related to the concession (Note 25.1)	2,877	3,434	(318)	1,175
Other financial income	78,939	82,611	39,432	35,039
(-) Pis/Pasep and Cofins taxes on financial income	(31,926)	(32,330)	(10,414)	(9,351)
	<b>779,988</b>	<b>718,570</b>	<b>249,202</b>	<b>211,859</b>
<b>( - ) Financial expenses</b>				
Monetary and exchange variation and debt charges	1,106,596	555,579	341,402	247,651
Monetary variation and adjustment to present value of accounts payable related to the concession (Note 25.1)	128,737	164,556	8,667	24,763
Monetary variation over the Itaipu power purchase	26,424	44,614	11,890	17,989
Derivatives fair value - forward contract	2,907	17,224	-	9,813
Interest on R&D and EEP (Note 24.1)	24,177	9,143	7,976	3,796
Interest and monetary variation of CRC transfer (a)	-	1,788	-	-
Remuneration of net sectorial assets and liabilities (Note 8)	9,679	1,725	2,383	785
PIS/Pasep/Cofins taxes on interest on capital	24,188	28	11,810	-
Other financial expenses	141,982	44,097	69,120	17,535
	<b>1,464,690</b>	<b>838,754</b>	<b>453,248</b>	<b>322,332</b>
	<b>(684,702)</b>	<b>(120,184)</b>	<b>(204,046)</b>	<b>(110,473)</b>
(-) Update of provision for destination of PIS and Cofins credits (Note 12.2.1)	1,011,370	-	-	-
<b>Net</b>	<b>(1,696,072)</b>	<b>(120,184)</b>	<b>(204,046)</b>	<b>(110,473)</b>

(a) The balance of the Account for Compensation of Income and Losses - CRC was settled by the Paraná State Government on August 10, 2021, as detailed in Note 8 of the Financial Statements of December 31, 2021.

### 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 requires different technologies and strategies.

Until September 30, 2022, all sales have been to customers within the Brazilian territory, in addition, all noncurrent assets are also located in the national territory. The Company did not identify any customer who individually accounts for more than 10% of their total net revenue until September 30, 2022.

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 on December 31, 2021.

### 33.2 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 the 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				
09.30.2022							
<b>TOTAL ASSETS</b>	<b>25,280,376</b>	<b>21,057,125</b>	<b>1,467,044</b>	<b>1,009,171</b>	<b>1,454,235</b>	<b>(413,805)</b>	<b>49,854,146</b>
<b>CURRENT ASSETS</b>	<b>3,449,149</b>	<b>5,860,223</b>	<b>882,626</b>	<b>612,852</b>	<b>661,021</b>	<b>(802,461)</b>	<b>10,663,410</b>
<b>NON-CURRENT ASSETS</b>	<b>21,831,227</b>	<b>15,196,902</b>	<b>584,418</b>	<b>396,319</b>	<b>793,214</b>	<b>388,656</b>	<b>39,190,736</b>
Long term assets	6,829,047	8,025,347	576,272	312,690	589,581	(339,207)	15,993,730
Investments	3,132,147	535	-	-	159,663	(1)	3,292,344
Property, plant and equipment	10,156,942	-	488	-	19,234	-	10,176,664
Intangible assets	1,626,190	7,030,319	5,745	68,282	6,116	727,864	9,464,516
Right-of-use asset	86,901	140,701	1,913	15,347	18,620	-	263,482

ASSETS	Electric Energy			GAS	Holding and Services	Reclassifications (a)	Intersegment operations	Consolidated
	GET	DIS	COM					
12.31.2021								
<b>TOTAL ASSETS</b>	<b>24,844,335</b>	<b>20,804,701</b>	<b>1,519,017</b>	<b>827,901</b>	<b>3,243,736</b>	<b>(1,451,159)</b>	<b>(250,996)</b>	<b>49,537,535</b>
<b>CURRENT ASSETS</b>	<b>3,316,406</b>	<b>6,448,051</b>	<b>755,227</b>	<b>355,500</b>	<b>2,356,145</b>	<b>(652,886)</b>	<b>(1,388,571)</b>	<b>11,189,872</b>
<b>NON-CURRENT ASSETS</b>	<b>21,527,929</b>	<b>14,356,650</b>	<b>763,790</b>	<b>472,401</b>	<b>887,591</b>	<b>(798,273)</b>	<b>1,137,575</b>	<b>38,347,663</b>
Long term assets	6,639,545	7,664,328	757,873	362,649	694,197	(129,077)	(246,193)	15,743,322
Investments	2,887,272	540	-	-	154,322	-	-	3,042,134
Property, plant and equipment	10,123,352	-	305	-	18,934	(651,458)	651,458	10,142,591
Intangible assets	1,799,391	6,596,184	4,038	96,145	5,230	(8,202)	722,774	9,215,560
Right-of-use asset	78,369	95,598	1,574	13,607	14,908	(9,536)	9,536	204,056

(a) Reclassifications arising from the divestment process of Copel Telecomunicações (Note 39).



### 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						
09.30.2022								
CONTINUING OPERATIONS								
NET OPERATING REVENUE	3,084,826	878,533	10,315,857	3,659,025	935,162	8,014	(2,580,380)	16,301,037
Net operating revenue - third-parties	1,043,298	610,397	10,287,737	3,419,590	932,001	8,014	-	16,301,037
Net operating revenue - between segments	2,041,528	268,136	28,120	239,435	3,161	-	(2,580,380)	-
OPERATING COSTS AND EXPENSES	(1,973,879)	(245,485)	(10,153,660)	(3,597,348)	(798,976)	(91,445)	2,580,380	(14,280,413)
Energy purchased for resale	(292,594)	-	(4,433,361)	(3,579,136)	-	-	2,280,968	(6,024,123)
Charges for use of the main transmission grid	(441,205)	-	(1,734,129)	-	-	-	293,374	(1,881,960)
Personnel and management	(154,207)	(93,101)	(445,379)	(9,240)	(32,245)	(31,326)	-	(765,498)
Pension and healthcare plans	(36,591)	(23,359)	(127,278)	(1,329)	(4,170)	(7,610)	-	(200,337)
Materials and supplies	(9,667)	(4,079)	(50,059)	(37)	(1,084)	(597)	-	(65,523)
Raw materials and supplies for generation	(112,718)	-	-	-	-	-	2,951	(109,767)
Natural gas and supplies for gas business	-	-	-	-	(701,924)	-	-	(701,924)
Third party services	(141,780)	(27,837)	(362,280)	(2,186)	(10,408)	(31,770)	5,317	(570,944)
Depreciation and amortization	(583,984)	(10,325)	(334,669)	(255)	(31,717)	(3,429)	-	(964,379)
Provision (reversal) for litigations	(12,860)	703	(107,976)	44	17	4,238	-	(115,834)
Impairment of assets	(9,395)	-	-	-	(1,629)	-	-	(11,024)
Other estimated losses, provisions and reversals	(840)	2,035	(103,731)	(1,548)	(408)	5	-	(104,487)
Construction cost	-	(79,852)	(1,493,455)	-	(9,039)	-	-	(1,582,346)
Provision for allocation of PIS and Cofins credits	-	-	(810,563)	-	-	-	-	(810,563)
Other operating costs and expenses, net	(178,038)	(9,670)	(150,780)	(3,661)	(6,369)	(20,956)	(2,230)	(371,704)
EQUITY IN EARNINGS OF INVESTEEES	14,860	309,864	-	-	-	5,391	-	330,115
PROFIT (LOSS) BEFORE FINANCIAL								
INCOME AND TAX	1,125,807	942,912	162,197	61,677	136,186	(78,040)	-	2,350,739
Financial income	151,970	44,698	455,471	23,492	39,543	70,573	(5,759)	779,988
Financial expenses	(513,617)	(204,329)	(551,306)	(236)	(19,723)	(181,238)	5,759	(1,464,690)
Update of provision for allocation of PIS and Cofins credits	-	-	(1,011,370)	-	-	-	-	(1,011,370)
OPERATING PROFIT (LOSS)	764,160	783,281	(945,008)	84,933	156,006	(188,705)	-	654,667
Income tax and social contribution	(276,076)	(130,810)	390,967	(26,430)	(42,249)	(44,258)	-	(128,856)
NET INCOME (LOSS)	488,084	652,471	(554,041)	58,503	113,757	(232,963)	-	525,811

STATEMENT OF INCOME	Electric Energy				TEL (a)	GAS	Holding and Services	Reclassifications (a)	Inter-segment operations	Consolidated
	GET		DIS	COM						
	GER	TRA								
09.30.2021										
CONTINUING OPERATIONS										
NET OPERATING REVENUES	4,410,203	1,175,370	10,786,833	3,284,977	243,611	562,747	16,238	(228,379)	(2,861,005)	17,390,595
Net operating revenue - third-parties	2,645,719	899,074	10,745,682	2,542,399	228,379	541,483	16,238	(228,379)	-	17,390,595
Net operating revenue - between segments	1,764,484	276,296	41,151	742,578	15,232	21,264	-	-	(2,861,005)	-
OPERATING COSTS AND EXPENSES	(1,614,485)	(326,819)	(9,917,998)	(3,214,793)	(222,883)	(458,425)	(143,074)	81,805	2,958,971	(12,857,701)
Energy purchased for resale	(864,001)	-	(5,588,253)	(3,197,593)	-	-	-	-	2,507,951	(7,141,896)
Charges for use of the main transmission grid	(385,215)	-	(1,531,254)	-	-	-	-	-	293,662	(1,622,807)
Personnel and management	(178,570)	(106,993)	(564,331)	(10,927)	(39,365)	(27,058)	(54,683)	-	-	(981,927)
Pension and healthcare plans	(32,438)	(20,637)	(116,336)	(1,150)	(6,289)	(3,703)	(4,093)	-	-	(184,646)
Materials and supplies	(7,305)	(3,018)	(38,463)	(15)	(965)	(939)	(304)	965	2	(50,042)
Raw materials and supplies for generation	(1,175,859)	-	-	-	-	-	-	-	19,409	(1,156,450)
Natural gas and supplies for gas business	-	-	-	-	-	(360,069)	-	-	-	(360,069)
Third party services	(122,976)	(23,855)	(337,693)	(2,269)	(38,690)	(10,827)	(17,816)	38,690	19,527	(495,909)
Depreciation and amortization	(425,094)	(7,985)	(304,034)	(158)	(77,901)	(30,804)	(2,440)	1,893	72,726	(773,797)
Provision (reversal) for litigations	(6,949)	1,335	(55,541)	(216)	4,845	63	(14,798)	(4,845)	-	(76,106)
Impairment of assets	126,361	(155)	-	-	5,156	(15,688)	-	(5,156)	-	110,518
Other estimated losses, provisions and reversals	(547)	(2,746)	(131,926)	(174)	(8,612)	2,294	(25,234)	8,612	25,235	(133,098)
Construction cost	-	(153,573)	(1,188,952)	-	-	(8,648)	-	-	-	(1,351,173)
Hydrological risk renegotiation (GSF)	1,570,543	-	-	-	-	-	-	-	-	1,570,543
Other operating costs and expenses, net	(112,435)	(9,192)	(61,215)	(2,291)	(61,062)	(3,046)	(23,706)	41,646	20,459	(210,842)
EQUITY IN EARNINGS OF INVESTEEES	11,371	259,538	-	-	-	-	8,057	-	-	278,966
PROFIT (LOSS) BEFORE FINANCIAL INCOME AND TAX	2,807,089	1,108,089	868,835	70,184	20,728	104,322	(118,779)	(146,574)	97,966	4,811,860
Financial income	76,498	11,016	341,876	10,224	19,183	11,796	278,472	(19,180)	(11,315)	718,570
Financial expenses	(363,649)	(103,380)	(256,356)	(140)	(44,928)	(6,143)	(120,401)	44,928	11,315	(838,754)
OPERATING PROFIT (LOSS)	2,519,938	1,015,725	954,355	80,268	(5,017)	109,975	39,292	(120,826)	97,966	4,691,676
Income tax and social contribution	(721,056)	(234,290)	(310,585)	(27,327)	(6,284)	(41,392)	89,210	47,648	(24,726)	(1,228,802)
NET INCOME (LOSS) FROM CONTINUING OPERATIONS	1,798,882	781,435	643,770	52,941	(11,301)	68,583	128,502	(73,178)	73,240	3,462,874
Result of discontinued operations	-	-	-	-	-	-	1,116,379	73,178	-	1,189,557
NET INCOME (LOSS)	1,798,882	781,435	643,770	52,941	(11,301)	68,583	1,244,881	-	73,240	4,652,431

(a) TEL segment discontinued in 2021; reclassifications arising from the divestment process of Copel Telecomunicações (Note 39).

### 33.5 Additions to noncurrent assets by reportable segment

09.30.2022	Electric Energy			GAS	Holding and Services	Consolidated
	GET	DIS	COM			
Contract assets	-	1,362,024	-	9,072	-	<b>1,371,096</b>
Property, plant and equipment	426,683	-	219	-	1,108	<b>428,010</b>
Intangible assets	2,897	-	1,816	-	1,531	<b>6,244</b>
Right-of-use asset	16,066	76,659	227	4,319	2,756	<b>100,027</b>

## 34 Financial Instruments

### 34.1 Categories and determination of the fair value of financial instruments

Consolidated	Note	Level	09.30.2022		12.31.2021	
			Book value	Fair value	Book value	Fair value
<b>Financial assets</b>						
<b>Fair value through profit or loss</b>						
Cash and cash equivalents (a)	5	1	4,329,330	4,329,330	3,472,845	3,472,845
Bonds and securities (b)	6	1	-	-	14,571	14,571
Bonds and securities (b)	6	2	420,680	420,680	346,487	346,487
Accounts receivable - distribution concession (c)	9.1 and 9.2	3	1,603,690	1,603,690	1,433,734	1,433,734
Accounts receivable - generation concession (c)	9.4	3	68,308	68,308	102,220	102,220
Derivatives fair value - forward contracts (d)	11	3	-	-	2,907	2,907
Fair value in the purchase and sale of power (d)	11	3	735,304	735,304	855,775	855,775
Other temporary investments (e)		1	14,403	14,403	14,072	14,072
Other temporary investments (e)		2	12,496	12,496	5,913	5,913
			<b>7,184,211</b>	<b>7,184,211</b>	<b>6,248,524</b>	<b>6,248,524</b>
<b>Amortized cost</b>						
Collaterals and escrow accounts (a)			54	54	182	182
Collateral and escrow deposits - STN			-	-	142,764	115,643
Trade accounts receivable (a)	7		3,539,350	3,539,350	4,515,426	4,515,426
Sectorial financial assets (a)	8		55,313	55,313	767,480	767,480
Accounts receivable - concessions - bonus from the grant (g)	9.3		759,321	858,696	730,851	828,673
			<b>4,354,038</b>	<b>4,453,413</b>	<b>6,156,703</b>	<b>6,227,404</b>
<b>Total financial assets</b>			<b>11,538,249</b>	<b>11,637,624</b>	<b>12,405,227</b>	<b>12,475,928</b>
<b>Financial liabilities</b>						
<b>Fair value through profit or loss</b>						
Fair value in the purchase and sale of power (d)	27	3	429,136	429,136	545,468	545,468
			<b>429,136</b>	<b>429,136</b>	<b>545,468</b>	<b>545,468</b>
<b>Amortized cost</b>						
Sectorial financial liabilities (a)	8		707,461	707,461	293,179	293,179
ICMS installment payment (f)	12.2.4		49,823	46,493	-	-
Special Tax Regularization Program - Pert (f)	12.2		408,561	350,791	421,694	361,080
PIS and Cofins to be refunded to consumers (a)	12.2.1		1,934,595	1,934,595	3,326,795	3,326,795
Accounts payable to suppliers (a)	19		2,201,290	2,201,290	2,710,984	2,710,984
Loans and financing (f)	20		4,712,173	4,212,999	3,738,269	3,313,645
Debentures (h)	21		8,760,214	8,625,346	8,240,769	8,240,769
Accounts payable related to concession (i)	25		951,050	1,067,794	903,959	1,009,867
			<b>19,725,167</b>	<b>19,146,769</b>	<b>19,635,649</b>	<b>19,256,319</b>
<b>Total financial liabilities</b>			<b>20,154,303</b>	<b>19,575,905</b>	<b>20,181,117</b>	<b>19,801,787</b>

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

### **Determining fair values**

- a) Equivalent to their respective book values due to their nature and terms of realization.
- b) 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.
- c) Financial assets with fair values similar to book values (Note 4.4 to the financial statements as of December 31, 2021).
- d) The fair values of assets and liabilities are equivalent to their book values (Note 4.15 to the financial statements as of December 31, 2021).
- 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 given 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 1.22%, is used as a basic assumption for the discount of the expected payment flows.
- 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) Fair value calculated according to the quotation of the last trade in the secondary market through the average price of the Unit Price (PU) for September 30, 2022, obtained from the Brazilian Association of Financial and Capital Markets (Anbima).
- i) Actual net discount rate of 8.88% p.a. was used, compatible with the estimated rate for long-term projects of the Company.

### **34.2 Financial risk management**

The Company 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.

<b>Consolidated</b>		
<b>Exposure to credit risk</b>	<b>09.30.2022</b>	<b>12.31.2021</b>
Cash and cash equivalents (a)	4,329,330	3,472,845
Bonds and securities (a)	420,680	361,058
Pledges and restricted deposits linked (a)	54	142,946
Trade accounts receivable (b)	3,539,350	4,515,426
Sectorial financial assets (c)	55,313	767,480
Accounts receivable - distribution concession (d)	1,603,690	1,433,734
Accounts receivable - concessions - Bonus from the grant (e)	759,321	730,851
Accounts receivable - generation concessions (f)	68,308	102,220
Other temporary investments (g)	26,899	19,985
	<b>10,802,945</b>	<b>11,546,545</b>

- a) The Company manages the credit risk of its assets in accordance with the Management policy of investing virtually all of 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 the classes of consumers most likely to default, implementing specific collection policies and suspending the supply and/or recording of energy and the provision of the service, as established in the contract and regulatory standards.
- c) Management considers the risk of this credit to be reduced, since the signed agreements ensure the unconditional right to receive cash at the end of the concession to be paid by the Concession Grantor, corresponding to the costs not recovered through the tariff.
- d) Management considers the risk of this credit to be reduced, since the signed agreements ensure the unconditional right to receive cash at the end of the concession to be paid by the Concession Grantor, referring to investments in infrastructure not recovered through the tariff.
- e) 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.
- f) For the generation concession assets, Aneel published Normative Resolution 596/2013, which deals with the definition of criteria for calculating the New replacement value (*Valor novo de reposição* - VNR), for the purposes of indemnification. In July 2021, Normative Resolution No. 942/2021 was published, regulating the calculation of these amounts through the presentation of appraisal reports to be prepared by accredited companies. In August 2022, Copel filed with Aneel the appraisal reports related to residual values, with a base date of July 2015, for the HPPs Governador Parigot de Souza - GPS and Mourão - MOU, which are awaiting inspection and subsequent validation by the agency regulatory. Management expectation of indemnification for these assets supports recoverability of the balances recorded.

- g) 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 assessment 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 2026 on, the 2025 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
<b>09.30.2022</b>							
Loans and financing	Note 20	32,645	100,034	529,798	3,583,827	2,242,487	6,488,791
Debentures	Note 21	729,472	422,230	1,728,483	6,627,016	2,466,290	11,973,491
Accounts payable related to concession	Rate of return + IGP-M and IPCA	9,662	19,335	87,177	513,657	2,287,384	2,917,215
Accounts payable to suppliers	-	1,907,701	201,178	25,991	66,420	-	2,201,290
PIS and Cofins to be refunded to consumers	-	-	-	204,239	1,590,324	357,912	2,152,475
Special Tax Regularization Program - Pert	Selic	4,679	9,473	44,440	274,245	184,650	517,487
ICMS installment payment	Selic	843	1,714	8,135	50,876	-	61,568
Sectorial financial liabilities	Selic	55,564	112,934	537,020	56,876	-	762,394
Lease liability	Note 26	8,191	15,115	59,026	186,067	369,647	638,046
		<b>2,748,757</b>	<b>882,013</b>	<b>3,224,309</b>	<b>12,949,308</b>	<b>7,908,370</b>	<b>27,712,757</b>

As disclosed in Notes 20.4 and 21.3, the Company 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 prices. 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 Eletrobras (Itaipu) is transferred to customers in the next tariff adjustment of Copel DIS.

The exchange rate risk posed by the purchase of gas arises from the possibility of Compagas reporting losses on the fluctuations in foreign exchange rates, increasing the amount in Reais of the accounts payable related to the gas acquired from Petrobras. This risk is mitigated by the monitoring and transfer of the price fluctuation through tariff, when possible. The Company monitors these fluctuations on an ongoing basis.

#### **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 loans and financing 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 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.

The baseline scenario takes into account the existing balances on the date of these interim financial information and the probable scenario assumes a variation in the foreign exchange rate - prevailing at the end of the period (R\$/US\$5.20) based on the median market expectation for 2022 according to the Focus Report, issued by the Central Bank of Brazil. 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 concerning the level used in the probable scenario, because of extraordinary events that may affect the economic scenario.

Foreign exchange risk	Risk	Baseline	Projected scenarios		
		09.30.2022	Probable	Scenario 1	Scenario 2
Financial liabilities					
Suppliers					
Eletrobras (Itaipu)	USD appreciation	(249,324)	9,527	(50,422)	(110,371)
Acquisition of gas	USD appreciation	(106,943)	4,087	(21,627)	(47,341)
		(356,267)	13,614	(72,049)	(157,712)

#### 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 financial expenses or increase the 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 Management on the reporting date for the financial instruments, as recommended by CPC 40 / 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.

The baseline scenario takes into account the existing balances on the date of these interim financial information and the probable scenario assumes balances reflecting varying indicators (CDI/Selic - 13.75%, IPCA - 5.60%, IGP-M - 7.01% and TJLP - 6.96%) estimated as market average projections for 2022 according to the Focus Report of the Central Bank of Brazil, except TJLP that consider the internal projection of the Company. 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 concerning 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		
		09.30.2022	Probable	Scenario 1	Scenario 2
<b>Financial assets</b>					
Bonds and securities	Low CDI/SELIC	420,680	13,770	10,448	7,057
Collaterals and escrow accounts	Low CDI/SELIC	54	2	1	1
Sectorial financial assets	Low Selic	55,313	1,811	1,374	927
Accounts receivable - concessions	Low IPCA	2,363,011	32,409	24,430	16,370
Accounts receivable - generation concessions	Undefined (a)	68,308	-	-	-
		<b>2,907,366</b>	<b>47,992</b>	<b>36,253</b>	<b>24,355</b>
<b>Financial liabilities</b>					
Loans and financing					
Banco do Brasil	High CDI	(751,673)	(24,604)	(30,404)	(36,077)
Banco Itaú	High CDI	(1,002,783)	(32,824)	(40,560)	(48,129)
BNDES	High TJLP	(1,749,243)	(29,687)	(36,882)	(43,990)
BNDES	High IPCA	(392,159)	(5,379)	(6,690)	(7,988)
Banco do Nordeste	High IPCA	(726,566)	(9,965)	(12,394)	(14,800)
Banco do Brasil - BNDES Transfer	High TJLP	(63,509)	(1,078)	(1,339)	(1,597)
Other	No risk	(26,240)	-	-	-
Debentures	High CDI/SELIC	(5,814,922)	(190,337)	(235,201)	(279,089)
Debentures	High IPCA	(2,851,728)	(39,112)	(48,646)	(58,087)
Debentures	High TJLP	(93,564)	(1,588)	(1,973)	(2,353)
Sectorial financial liabilities	High Selic	(707,461)	(23,157)	(28,615)	(33,955)
ICMS installment payment	High Selic	(49,823)	(1,631)	(2,015)	(2,391)
Special Tax Regularization Program - Pert	High Selic	(408,561)	(13,373)	(16,525)	(19,609)
Accounts payable related to concession	High IGP-M	(888,137)	(15,171)	(18,847)	(22,479)
Accounts payable related to concession	High IPCA	(62,913)	(863)	(1,073)	(1,281)
		<b>(15,589,282)</b>	<b>(388,769)</b>	<b>(481,164)</b>	<b>(571,825)</b>

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

#### 34.2.4 Electricity shortage risk

Most of 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.

Between September 2020 and August 2021, the National Interconnected System had the worst record of Affluent Natural Energies in the aggregate of its uses. The Ministry of Mines and Energy and other bodies in the sector acted to mitigate the risk of rationing, with emphasis on maximizing thermoelectric dispatch out of the order of the merit of cost and relaxing restrictions on the system hydroelectric operation. The improvement in storage levels observed in recent months has cooled public policies to face the water crisis introduced in 2021 and the bodies responsible for the sector began to adopt less severe measures in the operation of the system, however, maintaining the optimization of water resources to guarantee the full load handling.



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

The Electricity Sector Monitoring Committee (CMSE) has maintained the energy deficit risk indicators within the safety margin (maximum risk of 5%) in all subsystems.

#### 34.2.5 Risk of GSF (Generation Scaling Factor) 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 Physical Guarantee (GF) and is also calculated centrally. Unlike 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 an energy physical guarantee basis. 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 difference valued at the PLD will be received.

The low inflows that have been recorded since 2014, as well as problems with delays in the expansion of the transmission system have resulted in low GSF values, resulting in heavy losses for the companies holding MRE participating hydroelectric projects until the year 2021. In 2022, intense rains and the recovery of reservoirs made it possible to reduce losses with GSF this year.

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 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 HPPs Mauá, Baixo Iguaçu, Colíder and SHPP Cavernoso II.

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

#### 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, which was amended by Law No. 14,052/2020, regarding the deadline for requesting an extension of concessions.

According to the new law, the concession operator should request an extension of concession at least 36 months before the end date of the contract or the concession granting act to hydroelectric power generation and electric power transmission and distribution plants, and at least 24 months for thermoelectric plants. The Concession Grantor 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 and transmission ventures (RAG - Annual Generation Revenue and RAP - Permitted Annual Revenue, respectively).

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 and No. 10,893/2021, which regulated the granting of concession contracts in the electricity sector associated with privatization through the sale of control by the 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 the 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 the 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.

Regarding electric power generation plants, we highlight below the Company's position on the eventual renewal of contracts.

For HPP Governador Bento Munhoz da Rocha Netto (HPP 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 an early change of the exploration regime would be economically and financially disadvantageous concerning the 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, in case the studies carried out by Copel GeT indicate the advantage of the operation.

Concerning 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 the HPP Figueira concession, which expired in March 2019, the Company awaits the conclusion of the related Aneel and MME procedural steps to execute any amendment to the Concession Agreement. 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. Aneel Order No. 1,047/2022 authorized the test operation of the new generating unit.

According to the new law, the Company may express its intention to extend the concession of the HPP Apucarantina until January 2024, and the HPPs Guaricana and 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 Concession Grantor.

Regarding the transmission concessions of Copel to expire in the next ten years, Concession Agreement No. 75/2001, referring to the Transmission line 230 kV Bateias-Jaguariaíva, will expire on August 17, 2031. Since there is still no information about the conditions for an eventual renewal, there is no position regarding the interest in extending this concession.

#### 34.2.7 Risk of non-renewal of concessions - distributions of electricity

The fifth amendment to Copel DIS concession contract No. 46/1999 imposes economic and financial efficiency covenants and indicators that consider the duration and frequency of service interruptions (DECi and FECi). Failure to comply with the conditions will result in termination of the concession (clause eighteen, subclause one), with due regard for 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. 948/2001, which establishes the indicators and procedures for monitoring the efficiency about 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	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 defined for Copel Distribuição as of 2021

Year	Economic and Financial Management	Realized	Quality - limits		Quality (Performed)	
			DECi	FECi	DECi	FECi
2021	{Net Debt / [EBITDA (-) QRR ≥ 0]} ≤ 1 / (1,11 * Selic)	Achieved	9.29	6.84	7.20	4.76

**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.

According to Aneel Technical Note No. 068/2021 and Authorizing Resolution No. 10,231/2021, as of 2022, the quality targets consider the indicators DEC (Equivalent Duration of Interruption per Consumer Unit) and FEC (Equivalent Frequency of Interruption by Consumer Unit). The targets defined for Copel DIS for the year 2022 are 9.19 for DEC and 6.80 for FEC. The calculation and disclosure of results occur annually, in the Regulatory Financial Statements.

### 34.2.8 Risk of non-extension of the gas distribution concession

In the event of termination of the concession at the end of the contractual term, Compagas will be entitled to compensation for investments made in the last 10 years prior to the end of the concession at their depreciated replacement value, according to the contractual clause.

### 34.2.9 Risk of overcontracting and undercontracting of electricity

Under the current regulatory model, the agreement for the 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 actually 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 expects to end the year with a contracting level of 111.4%. Despite the index above 105%, the Company considers that it has amount of “involuntary overcontracting” sufficient to accommodate the estimated contracting for the year. Thus, there is no forecast of risk of penalty 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, which uses the transport infrastructure of 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, on the other hand, negotiates and enters into short-term natural gas contracts based on its merchant operating 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 sector. The supply of natural gas is growing and comes from diversified sources, and the major challenge for the sector is still focused 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, to make it more competitive and with greater potential for expansion.

An eventual shortage in the supply of gas could result in losses to 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 agreement. Furthermore, in this scenario, UEG Araucária would probably be kept out of operation. However, the Company considers this risk low given of the *Novo Mercado de Gas* scenario 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 physical guarantee 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 the 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 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.

Based on the notional amounts of R\$7,689.086 (R\$7,530,281 as of December 31, 2021) for electricity purchase contracts and R\$8,212.350 (R\$7,881,880 as of December 31, 2021) for electricity sales contracts, outstanding at the date of these interim financial information, 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 September 30, 2022, 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	174,775	(149,723)	25,052
Noncurrent	560,529	(279,413)	281,116
	<b>735,304</b>	<b>(429,136)</b>	<b>306,168</b>

### 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 balances updated with the market price curve and NTN-B on September 30, 2022, were considered. 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 09.30.2022	Projected scenarios		
			Probable	Scenario 1	Scenario 2
Unrealized gains (losses) on energy purchase and sale operations	Increase	306,168	306,169	328,175	350,182
	Decrease	306,168	306,169	284,159	262,151

#### 34.2.13 Counterparty risk in the energy market

Since the 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 must sell/buy 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 conditions, 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 counterparties of the Company.

#### 34.2.14 Coronavirus pandemic

Intending to mitigate the risk of possible impacts of a worsening of the coronavirus pandemic, the Company monitors contracts and suppliers, monitors the liquidity in the energy market and the short-term energy price, as well as participates in negotiations with the competent authorities for the implementation of guidelines ensuring maintenance of economic and financial sustainability of the entire chain of electric energy generation, transmission, commercialization and distribution in Brazil.

### 34.3 Capital management

The Company seeks to keep a strong capital base to maintain the trust of investors, creditors and the 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	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
Loans and financing	-	791,779	4,712,173	3,738,269
Debentures	-	502,400	8,760,214	8,240,769
(-) Cash and cash equivalents	122,769	626,052	4,329,330	3,472,845
(-) Bonds and securities	91	91	420,680	361,058
<b>Net debt</b>	<b>(122,860)</b>	<b>668,036</b>	<b>8,722,377</b>	<b>8,145,135</b>
Equity	20,969,719	21,837,024	21,330,276	22,175,235
<b>Debt to equity ratio</b>	<b>(0.01)</b>	<b>0.03</b>	<b>0.41</b>	<b>0.37</b>

## 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	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021
<b>Subsidiaries</b>				
Structure sharing (35.1.1)	-	5,374	933	-
Jandaíra wind complex - loan agreement (35.1.3)	24,817	-	-	-
<b>Noncurrent assets</b>				
<b>Subsidiaries</b>				
Copel DIS - STN (a)	-	150,572	-	-
<b>Current liabilities</b>				
<b>Subsidiaries</b>				
Structure sharing (35.1.1)	1,541	2,292	-	-
<b>Noncurrent liabilities</b>				
<b>Subsidiaries</b>				
Elejor advance	5,851	5,851	-	-

(a) Balance related to financing with the National Treasury Department (STN) settled on March 10, 2022.

### 35.1.1 Structure Sharing

Balances refer mainly to personnel and management expense-sharing agreements entered between Copel and its direct and indirect subsidiaries.

### 35.1.2 Loan agreement - Copel DIS

On November 18, 2021, a loan agreement was signed between Copel and Copel DIS, valid for 12 months, with approval of limits plus IOF (tax on financial transactions) and interest (DI + 1.75% p.a.), to provide resources to finance the activities and businesses of the Company. The contract was settled on June 15, 2022, and the amount of financial income in the period ended on September 30, 2022 is R\$5,000.

### 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 Power Complex, with approval of limits plus IOF and interest of CDI + 1.38% p.a., to provide resources to finance the activities and businesses of the Company. The contracts are valid until May 17, 2024. Of the total approved amount of R\$49,400, R\$24,400 was transferred and the financial income for the period ended on September 30, 2022 is R\$365.

## 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	
	09.30.2022	12.31.2021	09.30.2022	12.31.2021	09.30.2022	09.30.2021	09.30.2022	09.30.2021
<b>Controlling shareholder</b>								
State of Paraná - dividends payable	-	-	-	916,379	-	-	-	-
CRC Transfer (Note 32 - a)	-	-	-	-	-	253,990	-	-
Energia Solidária Program (a)	18,761	5,590	-	-	-	-	-	-
Tarifa Rural Noturna Program (a)	8,797	10,378	-	-	-	-	-	-
Employees transferred (b)	577	19	-	-	-	-	-	-
Meteorological System of Paraná - Simepar (c)	-	-	1,146	938	-	-	(5,840)	(8,533)
<b>Entities with significant influence (d)</b>								
BNDP and BNDESPAR - dividends payable	-	-	-	733,939	-	-	-	-
Financing (Note 20)	-	-	2,138,551	2,216,516	-	-	(146,155)	(125,085)
Debentures - Compagás	-	-	-	-	-	-	-	(299)
Debentures - wind farms (Note 21)	-	-	220,750	231,071	-	-	(21,445)	(23,338)
<b>State of Paraná investee</b>								
Sanepar (e)	-	-	449	436	-	-	(5,709)	(6,125)
Use of water taken from plants' reservoirs	-	-	-	-	485	237	-	-
<b>Joint ventures</b>								
Voltalia São Miguel do Gostoso (f)	-	-	-	-	73	64	-	-
Dividends	1,032	1,032	-	-	-	-	-	-
Caiuá Transmissora de Energia (g) (h) (i)	313	279	1,400	1,144	2,681	2,431	(9,640)	(12,947)
Dividends	-	2,150	-	-	-	-	-	-
Integração Maranhense Transmissora (h) (i)	-	-	240	183	-	-	(1,971)	(1,689)
Dividends	-	2,274	-	-	-	-	-	-
Matrinchã Transmissora de Energia (h) (i)	-	-	1,338	1,065	-	-	(11,599)	(10,003)
Dividends	-	10,091	-	-	-	-	-	-
Guaraciaba Transmissora de Energia (h) (i)	-	-	640	489	-	-	(5,125)	(4,598)
Dividends	27,198	27,198	-	-	-	-	-	-
Paranaíba Transmissora de Energia (h) (i)	-	-	863	726	-	-	(7,646)	(6,786)
Dividends	2,486	4,973	-	-	-	-	-	-
Cantareira Transmissora de Energia (h) (i)	-	-	656	596	-	-	(6,005)	(4,612)
Dividends	-	6,718	-	-	-	-	-	-
Mata de Santa Genebra Transmissão (h) (i) (j)	3,235	1,473	1,468	1,245	14,449	14,385	(12,714)	(8,923)
Dividends	-	13,614	-	-	-	-	-	-
<b>Associates</b>								
Dona Francisca Energética S.A. (k)	16	15	1,312	2,745	127	114	(12,065)	(12,215)
Dividends	852	86	-	-	-	-	-	-
Foz do Chopim Energética Ltda. (l)	313	518	-	-	2,556	2,200	-	-
<b>Key management staff</b>								
Fees and social security charges (Note 31.2)	-	-	-	-	-	-	(2,300)	(15,842)
Pension and healthcare plans (Note 22.3)	-	-	-	-	-	-	(181)	(1,036)
<b>Other related parties</b>								
Fundação Copel	-	-	-	-	-	-	-	-
Administrative property rental	-	-	101,977	84,367	-	-	(7,977)	(4,666)
Pension and healthcare plans (Note 22.3)	-	-	1,345,186	1,295,174	-	-	-	-
Lactec (m)	3	5	1,739	2,385	463	444	(3,216)	(3,598)
Tecpar (n)	-	-	-	-	1,492	1,484	-	-
Celepar (o)	-	-	-	-	431	-	(10)	(6)

- a) The *Energia Solidária* Program, established by state law No. 20,943/2021, replacing the *Luz Fraterna* Program, defines 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<sup>nd</sup> and 3<sup>rd</sup> 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. The Company filed an appeal in September 2022. The lawsuit awaits the deadline for an eventual appeal by the State of Paraná, the processing and remittance of the case records to the Court of Justice of State of Paraná, for judgment on appeal. Management further emphasizes that it is making all necessary efforts and taking all necessary measures to preserve the interests of the Company.

The *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 30.1). 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)** Connection to the transmission system contracts signed by Copel GeT, Costa Oeste, Marumbi and Uirapuru, maturing 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, 2023, 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 between 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), in 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 the Paraná Institute of Technology - Tecpar (public company of the State Government of Paraná that supports innovation and economic and social development in Paraná and Brazil).
- o)** Energy sale agreement and service agreements entered with the Paraná Information Technology Company - Celepar (mixed capital company that is part of the indirect administration of the State Government of Paraná).

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.

Direct and indirect subsidiaries of Copel have short and long-term energy purchase and sale agreements entered into with each other, carried out under the criteria and definitions of the regulated environment. Both the balances of the transactions and the commitments are eliminated between themselves when preparing the consolidated financial statements of the Company.

In addition, Copel GeT has energy purchase commitments with Dona Francisca, in the amount of R\$51,959 (R\$63,899 as of December 31, 2021), and Copel COM has energy sale commitments signed with agencies and/or entities related to the State Government of Paraná, totaling R\$25,607 (R\$31,309 as of December 31, 2021).

Concerning 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 a 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\$4,339 as of December 31, 2021) and made by Copel COM (Copel Mercado Livre), in the amount of R\$329,725 (R\$192,707 as of December 31, 2021).

The sureties and guarantees granted by Copel and Copel GeT for financing and debentures of the joint ventures are shown below:

Company	Operation	Final maturity	Amount approved	Balance (a)	Interest %	Amount guarantees
(1) Caiuá Transmissora	Financing BNDES	02.15.2029	84,600	28,938	49.0	(b)
(2) Cantareira Transmissora	Debentures	08.15.2032	100,000	88,383	49.0	(b)
(3)	Financing	09.15.2032	426,834	375,046		(b)
(4) Guaraciaba Transmissora	Financing BNDES	01.15.2031	440,000	297,366	49.0	(b)
(5)	Debentures	12.15.2030	118,000	129,207		(b)
(6)	Financing BNDES	06.15.2029	691,440	322,582		(b)
(7) Matrinchã Transmissora	Debentures (2 <sup>nd</sup> )	06.15.2029	180,000	220,843	49.0	(b)
(8)	Debentures (3 <sup>rd</sup> )	12.15.2038	135,000	151,357		(c)
(9) IMTE Transmissora	Financing	02.12.2029	142,150	50,758	49.0	(b)
(10)	Debentures (2 <sup>nd</sup> )	11.15.2030	210,000	214,847	50.1	107,638
(11) Mata de Santa Genebra	Debentures (3 <sup>rd</sup> )	11.15.2041	1,500,000	1,439,753		721,316
(12) Paranaíba Transmissora	Financing	10.15.2030	606,241	418,132	24.5	(b)
(13)	Debentures	03.15.2028	120,000	94,214		(b)
						<b>828,954</b>

(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 3<sup>rd</sup> issue will only be presented after the maturity of the Debentures of the 2<sup>nd</sup> 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 this interim financial information, are as follows:

Consolidated	09.30.2022	12.31.2021
Energy purchase and transportation contracts	113,677,450	132,307,398
Additions to property, plant and equipment		
Construction of Jandaira wind farm complex	6,123	147,682
Acquisition of assets for electricity distribution	1,298,239	1,374,177
Gas purchase contracts	2,134,388	1,841,767

## 37 Insurance

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

Consolidated Policy	End of term	Insured amount
Operational risks - Cutia and Bento Miguel	03.29.2023	2,196,012
Named perils	08.24.2023	2,130,270
Operational risks - HPP Baixo Iguaçu	05.31.2023	2,042,375
Operational risks - HPP Colíder	12.01.2022	1,892,320
Operational risks - HPP Governador Jayme Canet Junior	01.22.2023	1,594,472
Fire - owned and rented facilities	08.24.2023	854,464
Operational risks - Brisa Potiguar	06.27.2023	766,454
Operational risks - Elejor	03.11.2023	728,426
Operational risks - UEG Araucária (a)	11.30.2022	677,350
Operational risks - São Bento	06.27.2023	512,885

(a) The insured amount of operational risks - UEG Araucária have been translated from USD into BRL, with the current rate R\$5.4066 as of September 30, 2022.

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 insurance taken out by the subsidiaries, joint ventures and associates have Copel and/or Copel GeT as 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\$119,343 (R\$109,995 as of September 30, 2021) and R\$3,816 (R\$15,728 as of September 30, 2021), respectively, represent the amount of purchases made in installments and not settled through the end of the reporting period.

As described in Note 26, the additions and remeasurement adjustment occurred in right-of-use assets totaled R\$106,597 (R\$109,863 as of September 30, 2021), 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.

## 39 Discontinued operations

On August 3, 2021, the Company concluded the sale of 100% of the interest in Copel Telecomunicações S.A., with the receipt of the updated amount and the transfer of assets and liabilities and the direction of the business to the buyer, Bordeaux Fundo de Investimento em Participações Multistrategy.

In 2021, income, costs and expenses as well as cash flow changes resulting from these assets and liabilities were presented on separate lines, as a discontinued operation, both in the Statement of Income and in the Statement of Cash Flows and in the Statement of Added Value, in compliance with the requirements of CPC 31/ IFRS 5.

## **40 Subsequent Events**

### **40.1 Dividends**

On October 19, 2022, according to Material Fact 03/22, Copel's Board of Directors decided to submit for approval at the Extraordinary General Meeting, to be held on November 21, 2022, the distribution of dividends in the form of interest on equity ("JCP"), in the gross amount of R\$970,000, in line with the Dividend Policy of the Company.

### **40.2 Grant bonus - HPP GBM**

According to Notice to the Market 21/22, the Interministerial Ordinance MME/ME No. 2/2022 of October 07, 2022, established the minimum value for granting electricity power generation concession for HPP Governador Bento Munhoz da Rocha Netto in the amount of R\$1,830,548. This amount will still be analyzed by the Federal Audit Court ("TCU"). The definition of the grant bonus constitutes a step in the process of obtaining a new concession agreement for a period of up to 30 years, through the sale of control of the FDA, as described in Note 34.2.6. Copel GeT will analyze the assumptions linked to the definition of this bonus to continue the process, including the sale of control of the FDA, through auction, within a period of up to 12 months before the the date of the current concession agreement, which expires on December 21, 2024.

### **40.3 Acquisition of the Aventura and Santa Rosa & Mundo Novo Wind Complexes**

According to Material Fact 02/22 disclosed on October 6, 2022, Copel GeT entered a contract for the acquisition of 100% of the Santa Rosa & Mundo Novo and Aventura Wind Complexes, currently owned by EDP Renováveis Brasil S/A., totaling 260.4 MW of installed capacity. The acquisition is part of the Company's strategy for growth in renewable energy, expands the diversification of the power generation portfolio and is fully in line with the Investment Policy. The total value of the transaction (Enterprise Value) is R\$1,803 million, with an Equity Value of approximately R\$965 million, subject to adjustments until the closing date of the transaction. The acquisition was approved, without restrictions, by the Administrative Council for Economic Defense - CADE (Federal Government Official Journal of November 04, 2022) and is subject, still, to the approval of creditors and other conditions precedent customary for this type of transaction.

### **40.4 Decarbonization of the generation portfolio**

According to Material Fact 05/22 disclosed on November 4, 2022, Company informed that the Board of Directors approved the further study for a potential divestment of the equity interest in UEG Araucária S.A. (60.9% Copel GeT and 20.3% Copel Holding), aligned with the decarbonization process of the Company's generation portfolio and with Copel's Corporate Strategic Planning.

#### **40.5 Corporate Venture Capital (CVC) investment model**

According to Notice to the Market 24/22, the Company's Board of Directors approved the Corporate Venture Capital (CVC) investment model to be adopted at Copel through a proprietary Equity Investment Fund (FIP) managed by a specialized management company to be contracted, with a commitment to invest R\$150 million over the next few years in companies that present innovative proposals within the energy sector and are suitable for the portfolio of the innovation and investment thesis, in the themes: Clean Renewable Energies, Innovative Internal Processes, Energy as a Service, Asset and Facility Management and Smart Cities.



## COMMENTS ON PERFORMANCE

As of September 30, 2022

in thousands of Brazilian reais

### 1 New projects

#### 1.1 New projects in generation business

In March 2021, the Board of Directors of Copel approved the new Company's Investment Policy, whose main purpose is to improve discipline in capital allocation, being an essential tool for the execution of strategic guidelines for sustainable growth, generation of value for shareholders and the perpetuity of our business. The first project acquired by the Company under this new policy was the Vilas Wind Power Complex, acquired on May 17, 2021 from the Voltalia group, located in Serra do Mel, Rio Grande do Norte, with 186.7 MW of installed capacity.

On October 6, 2022, the Company announced the signing of an agreement for the acquisition of Santa Rosa & Mundo Novo (SRMN) and Aventura Wind Complexes, currently held by EDP Renováveis Brasil S/A., with 260.4 MW of installed capacity.

**Santa Rosa & Mundo Novo (SRMN) and Aventura Wind Complexes** - The SRMN and Aventura Wind Complexes comprise nine wind farms in operation (brownfield), located in the municipalities of Touros and São Tomé, also in Rio Grande do Norte, a region considered as one of the best in the world for the generation of wind power, with high capacity factor (approximately 61% at P50). Around 76.5% of the project's energy is already sold in the regulated contracting environment (ACR) and 13.7% in the free contracting environment (ACL), leaving about 9.8% for new contracts. Until the start of supply, 95% of the energy has been traded in the ACL, at market prices.

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	105.0	65.0	in commercial operation since jul/21	A-6/2017	53.6	126.6	Jan/23	Dec/42	2053
Aventura III									
Aventura IV									
Aventura V									
SRMN I	155.4	92.8	in commercial operation since dec/21 <sup>3</sup> and feb/22 <sup>4</sup>	A-6/2017	67.1	129.22	Jan/23	Dec/42	2052 <sup>3</sup> 2053 <sup>4</sup>
SRMN II									
SRMN III									
SRMN IV									
SRMN V									
<b>Total</b>	<b>260.4</b>	<b>157.8</b>			<b>120.7</b>	<b>128.06</b>			

<sup>1</sup> Total of 62 Vestas wind turbines, model V150

<sup>2</sup> Base date Sep/22

<sup>3</sup> SRMN IV and V

<sup>4</sup> SRMN I, SRMN II and SRMN III



With the acquisition, the Company's consolidated wind generation installed capacity will be increased by 28%, with the operational management structure optimized, thus allowing operational synergy with other companies in the group, which share the structure. With the addition of this capacity, wind power will represent 17% of the Copel Group's power generation portfolio, benefiting its portfolio by increasing incentivized energy and reducing exposure to hydrological risk.

According to Material Fact 02/22, the total value of the transaction (Enterprise Value) is R\$1,803 million, with an Equity Value of around R\$965 million, subject to adjustments until the closing date of the transaction. The project has long-term financing (maturity until 2043) contracted with Banco do Nordeste (BNB), with rates of IPCA + 2.19% p.a. (Aventura) and IPCA + 1.98% p.a. (NMR). The base date of the transaction is December 31, 2021 and, once the transaction is closed, the cash flow earned during 2022 will be appropriated by Copel GeT (Locked Box).

**Jandaíra Wind Complex** - On October 18, 2019, Copel GeT, in a consortium with subsidiary Cutia Empreendimentos Eólicas, participated in the A-6 new energy generation auction and sold 14.4 average MW or approximately 30% of the assured energy of the Jandaíra Wind Complex, a project located in the municipality of Jandaíra - RN, comprising four wind farms, totaling 90.1 MW of installed capacity, as follows:

Jandaíra Wind Complex	Number of Wind Turbines	Installed Capacity (MW)	Assured Energy (average MW)	Capex (1) (R\$ million)	Energy Sold					End of Authorization
					Auction (2)	Amount (average MW)	Price (3) (R\$/Mwh)	Start of Supply	End of Supply	
WPP Jandaíra I	3	10.4	5.6	411.0	30º LEN (18/10/2019)	14.4	119.76	Jan/25	Dec/44	Apr/55
WPP Jandaíra II	7	24.3	12.3							
WPP Jandaíra III	8	27.7	14.8							
WPP Jandaíra IV	8	27.7	14.2							
<b>Total</b>	<b>26</b>	<b>90.1</b>	<b>46.9</b>							

<sup>1</sup> Capex ANEEL

<sup>2</sup> LEN - Auction of energy from new projects

<sup>3</sup> Updated until Sep/22. Source: CCEE.

Currently, 21 of the 26 wind turbines at the Jandaíra Wind Complex, totaling 72.8 MW, or 81% of installed capacity, are in commercial operation, more than two years ahead of schedule. The other 5 wind turbines are operating under test. The commercial operation of the entire project is expected to take place in stages until the end of 2022. The project is financed by Banco do Nordeste for approximately 50% of the planned investment.

## 1.2 New projects in distribution business

**Transformation Program (*Programa Transformação*)** - The Transformation Program is a 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 and FEC 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 September 2022, 148,000 rural customers had already benefited, along 9,754 km of lines.
- **Smart Grid:** implementation of a private communication network with standardized technology to service all automation equipment in the distribution grid and advanced metering infrastructure. By the end of September 2022, 416,000 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 September 2022, the project had completed 66.91% 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** - Copel Distribuição S.A. has been implementing 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 September 2022, the extension of the compact and protected grid installed was 21,385 km (17,044 km in September 2021), representing an increase of 4,341 km, or 25.47%, in twelve months.

**Isolated Secondary Grid**- Copel Distribuição also invests in isolated low voltage secondary grid (127/220V), which have significant advantages over the conventional overhead grid, such as: improving the indicators Duração Equivalente de Interrupção por Unidade Consumidora - DEC (Equivalent Duration of Interruption per Consumer Unit) and e Frequência Equivalente de Interrupção por Unidade Consumidora – FEC (Equivalent Frequency of Interruption by Consumer Unit), 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 September 2022, the extension of isolated secondary distribution grid installed was 21,658 km (20,663 km in September 2021), equivalent to an increase of 995 km, or 4.81%, in twelve months.

## 2 Energy Market

**Market behavior** - The power generation of Copel Geração e Transmissão S.A. and its wind farms until September 30, 2022, was 16,858 GWh (13,109 GWh in the same period in 2021). This growth is mainly due to the increase in hydro generation. Copel's wind farms suffered a reduction in generation, due to the effects of *La Niña* in the Northeast region of the country in 2022. This reduction was offset by the acquisition of Vilas Wind Complex. Below is presented the energy flow of the Copel group in 2022:

Energy Flow (GWh)			January through September 2022		
<b>Own generation</b>					
16,858			37.0%		
<b>Energy received</b>					
28,651			63.0%		
CCEAR	9,224				
Itaipu	3,943				
Dona Francisca	100				
CCEE (MCP)	18				
Angra	694				
CCGF	4,396				
MRE	1,694				
Elejor	-				
Proinfa	322				
Other <sup>1</sup>	8,260				
<b>Availability</b>			45,509		
			<b>Captive Market</b>		
			14,625		
			32.1%		
			<b>Concessionaires<sup>2</sup></b>		
			106		
			0.2%		
			<b>Electricity sales to distributor CCEE<sup>3</sup></b>		
			78		
			0.2%		
			<b>Assignment MCSD EN<sup>4</sup></b>		
			159		
			0.3%		
			<b>CCEE (MVE)</b>		
			525		
			1.2%		
			<b>Free Customers</b>		
			8,789		
			19.3%		
			<b>Energy Supplied</b>		
			20,066		
			44.1%		
			Bilateral Agreements		
			9,247		
			CCEAR		
			2,610		
			CER		
			229		
			CCEE(MCP)		
			2,881		
			MRE		
			4,643		
			<b>Losses and differences<sup>5</sup></b>		
			1,161		
			2.6%		
			Basic Network Losses		
			382		
			Distribution Losses		
			865		
			Allocation of contracts in the GC		
			230		
			Wind Farms differences		
			(316)		

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).

<sup>1</sup> Other: Energy purchased by Copel Comercialização and Copel Distribuição.

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

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

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

<sup>5</sup> Considers the effects of Distributed Mini and Microgeneration (MMGD).

It does not consider the energy produced by TPP Araucária sold in the Spot Market.

**Energy sale** - The table below shows the total energy sales of Copel in the period:

Segment	GWh		
	Jan - Sep 2022	Jan - Sep 2021	Variation
<b>Copel Distribuição</b>			
<b>Captive Market<sup>1</sup></b>	14,625	14,421	1.4%
Residential	6,158	6,021	2.3%
Industrial	1,595	1,720	-7.3%
Commercial	3,246	3,056	6.2%
Rural	1,821	1,865	-2.4%
Other	1,805	1,759	2.6%
<b>Concessionaries and Licensees</b>	69	64	7.8%
<b>CCEE (Cessões MCSD EN)</b>	159	672	-76.3%
<b>CCEE (MVE)</b>	524	363	44.4%
<b>CCEE (MCP)</b>	2,133	1,256	69.8%
<b>Total Copel Distribuição</b>	<b>17,510</b>	<b>16,776</b>	<b>4.4%</b>
<b>Copel Geração e Transmissão (with FDA and Bela Vista)</b>			
CCEAR (Copel Distribuição)	92	91	1.1%
CCEAR (other concessionaries)	1,649	1,647	0.1%
Free Customers	-	983	-
Bilateral Agreements (Copel Mercado Livre)	10,439	9,726	7.3%
Bilateral Agreements <sup>2</sup>	223	522	-57.3%
CCEE (MCP) <sup>3</sup>	603	-	-
<b>Total Copel Geração e Transmissão</b>	<b>13,006</b>	<b>12,969</b>	<b>0.3%</b>
<b>Wind Farms Complexes</b>			
CCEAR (Copel Distribuição)	24	23	4.3%
CCEAR (other concessionaries)	961	964	-0.3%
CER	685	685	0.0%
Bilateral Agreements (Copel Mercado Livre)	234	-	-
Bilateral Agreements <sup>2</sup>	334	-	-
CCEE (MCP) <sup>3</sup>	72	-	-
<b>Total Wind Farms Complex</b>	<b>2,310</b>	<b>1,672</b>	<b>38.2%</b>
<b>Copel Mercado Livre</b>			
Free Customers	8,696	6,081	43.0%
Bilateral Agreements (Copel)	899	2,504	-64.1%
Bilateral Agreements <sup>2</sup>	8,898	8,504	4.6%
CCEE (MCP) <sup>3</sup>	114	81	40.7%
<b>Total Copel Mercado Livre</b>	<b>18,607</b>	<b>17,170</b>	<b>8.4%</b>
<b>Total</b>	<b>51,433</b>	<b>48,587</b>	<b>5.9%</b>
Eliminations (Sales between Group Companies)	(11,752)	(12,350)	-4.8%
<b>Consolidated Total</b>	<b>39,681</b>	<b>36,237</b>	<b>9.5%</b>

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

<sup>1</sup> For the billed market, the Offset Energy from Mini and Micro Distributed Generation (MMGD) is discounted, the amounts of which were 812GWh for 9M22 and 451GWh for 9M21.

<sup>2</sup> Includes Short Term Sales Agreements.

<sup>3</sup> Does not consider negative amounts.

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

**Copel Distribuição Grid Market (TUSD):** Copel Distribuição grid market, made up of the captive market, supply to concessionaires and licensees within the State of Paraná and all the free customers existing in its concession area, showed a growth of 3.4% in electricity consumption in the year compared to the same period of the previous year. The billed grid market, which considers offset energy from Mini and Micro Distributed Generation - MMGD, grew by 1.9% in the year, already considering the Availability Cost<sup>1</sup>. The volume of offset energy, which is the surplus of MMGD generation offset in billing, reached 812GWh up to September 30, 2022, an increase of 80.0% compared to the same period in 2021, and the number of consumers adhering to the MMGD reached 183,885, an amount 99.9% higher than in September 2021.

**Copel Distribuição Captive Market:** The captive market presented a growth of 1.4% in electricity consumption in the year. The billed captive market, which considers MMGD offset energy, showed a reduction of 1.1% in the year.

**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 September 2022 was 4,995,872, representing a growth of 1.8% compared to September 2021.

Segment	Sep 22	Sep 21	Variation
Residential	4,108,640	4,016,423	2.3%
Industrial	69,149	70,823	-2.4%
Commercial	427,641	419,800	1.9%
Rural	334,433	343,663	-2.7%
Others	53,473	52,282	2.3%
<b>Total Captive Market</b>	<b>4,993,336</b>	<b>4,902,991</b>	<b>1.8%</b>
Concessionaires and Licensees	7	7	0.0%
Free Customers (a)	2,529	2,241	12.9%
<b>Total geral</b>	<b>4,995,872</b>	<b>4,905,239</b>	<b>1.8%</b>

(a) Total of free customers served within Copel Distribuição's concession area.

<sup>1</sup> The availability cost represents the minimum amount charged for the availability of the distribution grid and is referenced in the input configurations of consumer units: 30 kWh single-phase, 50 kWh two-phase and 100 kWh three-phase circuits (Aneel Ordinance Nº 1,000/2021, art. 291).

### 3 Management

#### Staff

Employees	Sep 22	Sep 21
<b>Copel and subsidiaries</b>		
Copel Holding	86	218
Copel Geração e Transmissão	1,497	1,514
Copel Distribuição	4,273	4,425
Copel Serviços	-	215
Copel Comercialização	46	42
	<b>5,902</b>	<b>6,414</b>
<b>Subsidiaries with non-controlling interests</b>		
Compagás	132	142
Elejor	7	7
UEG Araucária	15	18
	<b>154</b>	<b>167</b>

### 4 Capital Market

In 2022, on [B]3, ON shares (CPLE3) were present in 100% of the trading sessions, closing the period at R\$6.20, with a positive variation of 1.31%. PNB shares (CPLE6) were present in 100% of the trading sessions, closing the period at R\$6.58, with a positive variation of 2.17%. In the same period, the IBOVESPA had a positive variation of 4.97%. The UNITS (CPLE11) were present in 100% of the trading sessions, closing the period at R\$32.40, with a positive variation of 1.25%.

On the New York Stock Exchange (NYSE), the UNITS (ELP) were present in 100% of the trading sessions, closing the period at US\$5.93, with a positive variation of 5.33%. The DOW JONES index had a negative variation of 20.95% 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 and were present in 45% of the trading sessions, closing the period at €1.21, with positive variation of 19.80%. The LATIBEX index had a positive variation of 12.61% in the period. UNITS, under the code XCOPU, were present in 4% of the trading sessions, closing the period at €6.00, with a positive variation of 23.97%.

The following table summarizes the behavior of Copel's shares until the end of September 2022:

Stock Performance (Jan - Sep 2022)	ON		PNB		UNIT	
	Total	Daily average	Total	Daily average	Total	Daily average
<b>B3</b>						
Number of Trades	468,886	2,481	3,141,978	16,624	499,984	2,645
Volume Traded	185,362,400	980,753	1,944,523,900	10,288,486	72,252,700	382,289
Trading Value (R\$ thousand)	1,179,357	6,240	13,701,533	72,495	2,500,627	13,231
Presence in Trading Sessions	189	100%	189	100%	189	100%
<b>Nyse</b>						
Volume Traded	0	0	0	0	142,929,644	760,264
Trading Value (US\$ thousand)	0	0	0	0	981,318	5,220
Presence in Trading Sessions	0	0	0	0	188	100%
<b>Latibex</b>						
Volume Traded	0	0	348,156	4,048	5,089	727
Trading Value (€ thousand)	0	0	448	5	33	5
Presence in Trading Sessions	0	0	86	0%	7	4%

## 5 Tariffs

### Retail Tariffs

Average Retail Tariffs (a) - R\$/MWh	Sep 22	Sep 21	Variation
Industrial	538.84	540.30	-0.3%
Residential	562.97	531.04	6.0%
Commercial	671.06	631.15	6.3%
Rural	664.56	570.38	16.5%
Other	407.75	394.77	3.3%
<b>Average Tariff for Electricity and Use of the Grid (R\$/MWh)</b>	<b>627.28</b>	<b>588.55</b>	<b>6.6%</b>
<b>Average Demand Tariff (R\$/kW)</b>	<b>29.78</b>	<b>29.75</b>	<b>0.1%</b>

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

## Purchase tariffs

Electricity Purchase Tariffs* - R\$/MWh	Sep 22	Sep 21	Variation
Itaipu (a)	304.14	366.52	-17.0%
Auction 2010 - H30	289.97	259.53	11.7%
Auction 2010 - T15 (b)	191.68	238.20	-19.5%
Auction 2011 - H30	298.96	267.57	11.7%
Auction 2011 - T15 (b)	245.74	549.59	-55.3%
Auction 2012 - T15 (b)	166.78	670.41	-75.1%
Auction 2016 - T20 (b)	207.90	187.49	10.9%
Angra	346.59	233.37	48.5%
CCGF (c)	137.49	120.77	13.8%
Santo Antonio	185.53	166.05	11.7%
Jirau	163.25	146.11	11.7%
Other auctions (d)	225.65	333.48	-32.3%
<b>Average</b>	<b>218.07</b>	<b>267.35</b>	<b>-18.4%</b>

(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. Proinfa not included.

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

## Supply tariffs

Electricity Supply Tariffs - R\$/MWh	Sep 22	Sep 21	Variation
Auction - CCEAR 2011-2040 (HPP Mauá)	274.98	247.68	11.0%
Auction - CCEAR 2013-2042 (SHP Cavernoso II)	294.29	264.84	11.1%
Auction - CCEAR 2015 - 2044 (HPP Colíder)	208.96	188.03	11.1%
Auction - CCEAR 2018 - 2048 (HPP Baixo Iguaçu)	215.82	194.55	10.9%
Concession holders in the State of Paraná	262.70	235.12	11.7%

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

## 6 Economic and financial results

### Revenues (Note 30)

Net operating revenue accrued until September 2022, of R\$16,301,037, was 6.3% lower than the R\$17,390,595 recorded in the same period in 2021.

This variation was mainly due to the following facts:

- 7.7% increase in revenue from electricity sales to final costumers, mainly due to the revenue from supply of Copel Distribuição, which increased by 3%, impacted by the growth of the captive market of 1.4% in 2022, offset by the Adjustment Periodic Tariff ("RTP") of 2022, which reduced the energy tariff by 9.58%, mainly in the 3<sup>rd</sup> quarter of 2022 (the tariff adjustment in 2021 was 11.32%), and the 43.0% growth in the amount of energy sold by Copel Comercialização (8,696 GWh up to September 30, 2022, and 6,081 GWh up to September 30, 2021);



- b) 32.1% decrease in revenue from electricity sales to distributors, mainly due to the lower dispatch of TPP Araucária due to the improvement in hydrological conditions and the lower average PLD of R\$60.08 until September 2022, 82% lower than the average PLD of R\$328.92 for the same period of the previous year, offset by the growth in the volume of energy sold under bilateral contracts of Copel Comercialização and the start of commercial operation of SHP Bela Vista and the acquisition of Vilas Wind Complex;
- c) 8.6% reduction in revenue from the use of the main distribution and transmission grid, due to the lower gain from the tariff review of energy transmission contracts and the increase in sector charges, partially offset by the increase in Copel DIS gross revenue resulting from the effects of the readjustment of the tariff;
- d) 15.7% increase in construction income mainly due to higher investments in the energy distribution segment;
- e) 80.6% increase in distribution of piped gas revenue basically due to market growth and the tariff adjustments applied;
- f) 27.8% reduction in the result of sectoral financial assets and liabilities, due to the lower constitution of portion A assets;
- g) 46.0% increase in other operating revenues mainly due to the increase in revenue from leases and rental of equipment and infrastructure.

### **Operating Costs and Expenses (Note 31)**

Total operating costs and expenses, excluding the Provision for allocation of PIS and Cofins credits in 2022 and the Hydrological Risk Renegotiation (GSF) in 2021, reached R\$13,469,850 by September 2022, 6.6% lower than R\$14,428,244 recorded in the same period of 2021. The main highlights were:

- a) 15.7% 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) 16.0% increase in Charge of the main distribution and transmission grid mainly due to the readjustment of the contracts for the use of the grid and the higher value of the Reserve Energy Charge ("EER"), offsetting by the decrease in System Service Charges ("ESS");
- c) 22.0% reduction Personnel and Management mainly due to the improvement in efficiency, the decrease in the provision for performance and profit sharing and the reversal of amounts from the voluntary retirement program;
- d) 30.9% and 15.1% increases in material and third-party services, mainly due to changes in fuel prices for the fleet and the increase in costs with maintenance of the electrical system and with communication and data processing;

- e) 90.5% decrease in materials and supplies for power electricity due to the reduction in dispatch from TTP Araucária as a result of improved hydrological conditions;
- f) 94.9% increase in natural gas and supplies for gas business due to the acquisition of natural gas at a higher cost as a result of exchange rate variations and the price of oil;
- g) 24.6% increase in depreciation and amortization mainly due to the start of commercial operation of SHP Bela Vista and the acquisition of Vilas Wind Complex and the higher amortization on the intangible constituted by the Hydrological Risk Renegotiation (GSF) in 2021;
- h) 277.3% increase in credit losses, provisions and reversals mainly due to the reversal of the UEGA impairment in 2021, non-recurring in 2022;
- i) 17.1% increase in construction costs mainly due to investments in the energy distribution segment.
- j) 49.8% increase in other operating costs and expenses, due to the higher amount of financial compensation for the use of water resources, net losses on decommissioning and disposal of assets, adjustment of fair value of concession assets generation of electricity and taxes, for adhering to the installment payment program for ICMS tax credits in the State of Paraná.

#### **Equity in earnings of investees**

The equity in earnings of investees until September 2022 was 18.3% higher to the amount recorded in same period in 2021, due to the positive result of the equity in the jointly-controlled subsidiaries of electric energy transmission, mainly due and the effects of tariff revisions occurred in June 2022 from Caiuá, Integração Maranhense, Matrinchã and Guaraciaba.

#### **Financial Results (Note 32)**

The reduction of R\$564.518 in the financial results (without the effect of the updating of the provision for allocation of PIS and Cofins credits held in June 2022) compared to the same period in 2021 is mainly due to the amount of interest and monetary variation of CRC recorded only in 2021 and non-recurring in 2022, given that the balance was settled in August 2021, added to the higher expense of monetary and exchange variation and debt charges in 2022, partially offset by the increase in return on financial investments.

#### **Provision for allocation of PIS and Cofins credits (Note 12.2.1)**

Until September 30, 2022 the Company's result was impacted by the provision of R\$1,821,933 registered in June 2022 arising from the review of the contingent liability risk related to the allocation of PIS and Cofins tax credits recognized by Copel DIS, for the success in the lawsuit that recognized the right to exclude the ICMS value of the PIS and Cofins calculation basis. The amount recorded impacted the operating result by R\$810,563 and the financial result by R\$1,011,370.

## Net income

Net income for the period was R\$525,811, 88.7% lower than the R\$4,652,431 recorded in the same period of the previous year, mainly due to the impact of the provision for allocation of PIS and Cofins credits in June 2022 and the reduction in thermal plant dispatch, to the gain recorded in 2021 resulting from the Hydrological Risk Renegotiation process (GSF) and the tariff review on transmission assets, non-recurring in 2022, to the higher value of financial expenses and depreciation in the period, offset partially due to the improvement in the hydrological scenario with the lower purchase of energy, the results from new assets acquired, the higher revenue from portion B at the distributor company, mainly due to the tariff adjustment and the reduction in personnel expenses.

## 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 Circular Letter/CVM/SNC/SEP 01/2007 and CVM Instruction 527/2012. 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	09.30.2022	09.30.2021	Variation	12.31.2021
<b>Ebitda Calculation - continued operations</b>				
Net income from continuing operations	525,811	3,462,874	-84.82%	3,859,045
Deferred IRPJ and CSLL	(461,220)	778,328	-159.26%	790,406
Provision for IRPJ and CSLL	590,076	450,474	30.99%	469,226
Financial expenses (income), net	1,696,072	120,184	1311.23%	327,361
<b>Ebit - continued operations</b>	<b>2,350,739</b>	<b>4,811,860</b>	<b>-51.15%</b>	<b>5,446,038</b>
Depreciation and amortization	964,379	773,797	24.63%	1,082,539
<b>Ebitda - continued operation</b>	<b>3,315,118</b>	<b>5,585,657</b>	<b>-40.65%</b>	<b>6,528,577</b>
Attributed to controlling shareholders	3,215,151	5,417,694	-40.65%	6,336,526
Attributed to non-controlling interest	99,967	167,963	-40.48%	192,051
<b>Ebitda Margin Calculation</b>				
Ebitda	3,315,118	5,585,657	-40.65%	6,528,577
Net operating revenues - ROL	16,301,037	17,390,595	-6.27%	23,984,287
<b>Ebitda Margin% (Ebitda ÷ ROL)</b>	<b>20.3%</b>	<b>32.1%</b>	<b>-36.8%</b>	<b>27.2%</b>

\* The amounts presented as of September 30, 2021 and December 31, 2021 do not consider the discontinued operation.

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
Members	ANDRIEI JOSÉ BEBER CARLOS BIEDERMANN DANIEL PIMENTEL SLAVIERO FAUSTO AUGUSTO DE SOUZA GUSTAVO BONINI GUEDES LEILA ABRAHAM LORIA MARCO ANTÔNIO BARBOSA CÂNDIDO MARCO ANTONIO BOLOGNA

### STATUTORY AUDIT COMMITTEE

Chairman	MARCO ANTÔNIO BARBOSA CÂNDIDO
Members	CARLOS BIEDERMANN LUIZ CLAUDIO MAIA VIEIRA

### SUPERVISORY BOARD

Chairman	DEMETRIUS NICHELE MACEI EDUARDO BADYR DONNI
Sitting Members	HARRY FRANÇÓIA JÚNIOR JOSÉ PAULO DA SILVA FILHO RAPHAEL MANHÃES MARTINS
Deputy Members	CRISTIANE DO AMARAL MENDONÇA ESTEVÃO DE ALMEIDA ACCIOLY OTAMIR CESAR MARTINS ROBERTO ZANINELLI COVELO TIZON VERÔNICA PEIXOTO COELHO

### 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
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### Information about this report:

Investor relations:	Phone: +55 (41) 3222-2027 ri@copel.com
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(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 September 30, 2022, which comprises the statement of financial position as of September 30, 2022 and the related statements of income and of comprehensive income for the three- and nine-month periods then ended, and of changes in equity and of cash flows for the nine-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 quarterly information referred to above was not prepared, in all material respects, in accordance with technical pronouncement CPC 21 (R1) and international standard IAS 34, applicable to the preparation of Quarterly Information (ITR), and presented in accordance with the standards issued by the CVM.

## Other matter

### *Statements of value added*

The interim financial information referred to above includes the individual and consolidated statements of value added (DVA) for the nine-month period ended September 30, 2022, 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, November 10, 2022

DELOITTE TOUCHE TOHMATSU  
Auditores Independentes Ltda.

Jonas Dal Ponte  
Engagement Partner

**SUPERVISORY BOARD'S OPINION**  
**ON THE INTERIM FINANCIAL STATEMENTS FOR THE THIRD QUARTER OF YEAR 2022**

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 3<sup>rd</sup> quarter of 2022 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 Interim Financial Information for the Three and Nine Month Period Ending September 30, 2022", of the independent auditor, Deloitte Touche Tohmatsu Auditores Independentes Ltda., issued without reservations, the Supervisory Board, by unanimous vote, with the abstention of vote of the Board Member Raphael Manhães Martins, 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 September 30, 2022 and they express their opinion that such statements may be disclosed.

Curitiba, November 10, 2022

**DEMETRIUS NICHELE MACEI**  
Presidente

**EDUARDO BADYR DONNI**

**HARRY FRANÇÓIA JÚNIOR**

**JOSÉ PAULO DA SILVA FILHO**

**RAPHAEL MANHÃES MARTINS**

## 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 September 30, 2022; and

(ii) We have reviewed, discussed and agree with the interim financial statements of Copel as of September 30, 2022.

In witness whereof, we sign this document.

Curitiba, November 10, 2022

Daniel Pimentel Slaviero  
Chief Executive Officer

Ana Letícia Feller  
Chief Business Management Officer

Adriano Rudek de Moura  
Chief Financial and Investor  
Relations Officer

Cassio Santana da Silva  
Chief Business Development Officer

Eduardo Vieira de Souza Barbosa  
Chief Legal and Regulatory Officer

Vicente Loiácono Neto  
Chief Governance, Risk and  
Compliance Officer