

UMA
 Investment Directorate

No. 4072/26.01.2023

NOTE

regarding the establishing by the Ordinary General Assembly of Shareholders of the Investment Program of CNTEE „Transelectrica” - SA for 2023 and the investment expenses estimated for 2024 and 2025

1. Investment Program of CNTEE „Transelectrica” - SA for 2023 and the investment expenses estimated for 2024 and 2025

The Investment Program of CNTEE "Transelectrica" - SA for the year 2023, as well as the estimated investment expenses for the years 2024 and 2025 (PAI 2023) was drawn up by the Investment Program Management Department within the Investment Directorate, based on the following elements:

- the investment priorities established in the RET Development Plan - period 2022 – 2031;
- achievement graphs of the investment objectives in progress;
- the proposals received from the Directorate of Investments and entities within the CNTEE "Transelectrica" - S.A. executive;

According to Decision no. 1/2023 The Supervisory Board of the Company verified PAI 2023.

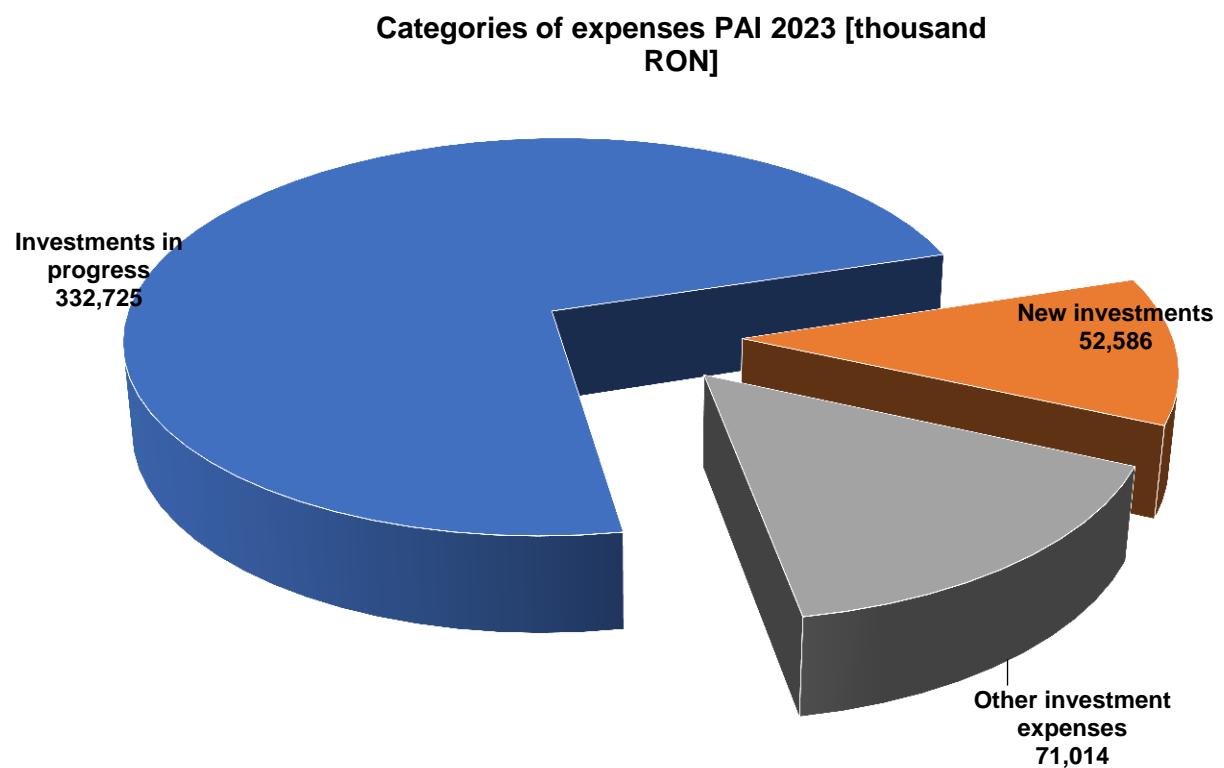
The structure of investment expenses for the year 2023 and estimated investment expenses for the years 2024, 2025

thousand RON				
No.	Categories of expenses	2023	2024	2025
	Total general (A+B)	465,965	780,162	713,189
A	Company own expenses	456,325	780,162	713,189
<i>I</i>	<i>Investments in progress</i>	<i>332,725</i>	<i>391,822</i>	<i>235,452</i>
<i>II</i>	<i>New investments</i>	<i>52,586</i>	<i>338,142</i>	<i>442,218</i>
<i>III</i>	<i>Other investment expenses</i>	<i>71,014</i>	<i>50,198</i>	<i>35,518</i>
B	Investment expenses financed from connection tariff	9,640	0	0



The investment program for 2023 and the estimation of the expenses for the years 2024 and 2025 is detailed in Appendix 1.

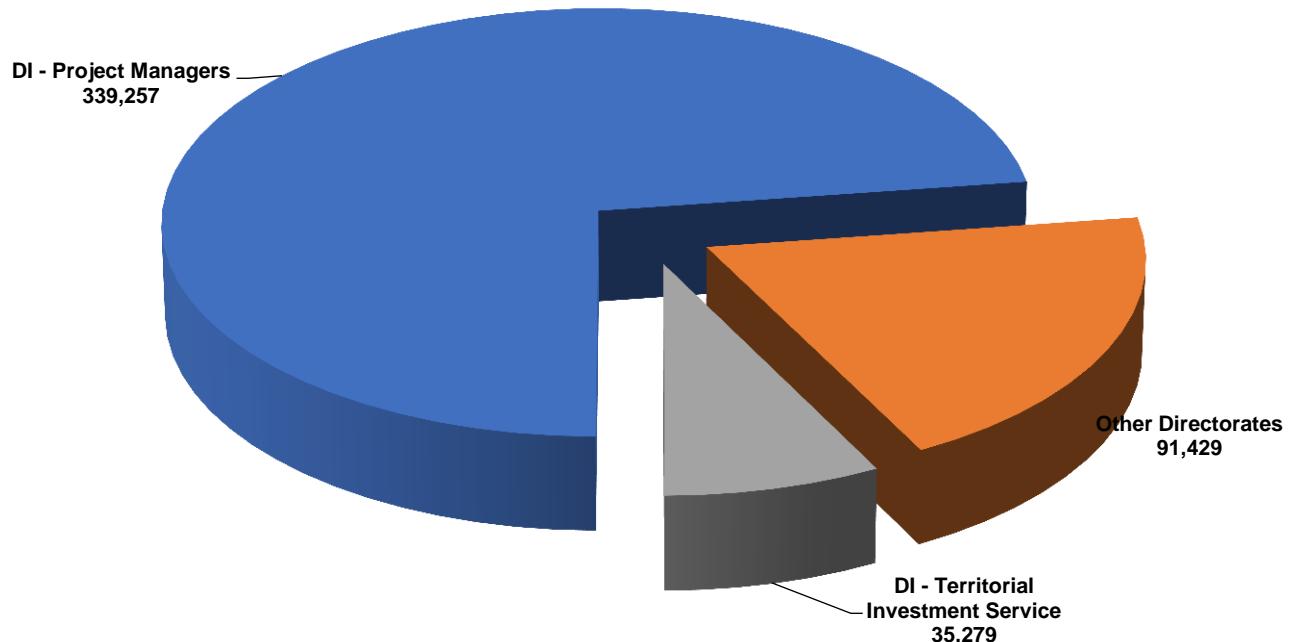
Structure of the Company own investment expenses in 2023



Total investment expenses in 2023, structured by entities



PAI 2023 - structure by entities [thousand RON]



2. Observations regarding major investment projects in PAI 2023

A. The main major investment objectives which execution contracts were signed in previous years and which will be in the execution stage in 2023 (investments in progress) structured according to the chapters of the Development Plan

No.	Investment Objective	Commissioning year
RET Refurbishment - 10 investment projects		
1	Refurbishment of station 400 kV Isaccea - Stage II	2026
2	Modernization of the power plant 220/110/20 kV Arefu	2024
3	Modernization of station 220/110 kV Dumbrava	2023
4	Modernization of the installation of 110 and 400(220) kV station Focşani Vest	2025
5	Refurbishment of station 400/110/20 kV Smârdan	2026
6	Refurbishment of station 110 kV Medgidia Sud	2025



7	Refurbishment of station 220/110/MT kV Baru Mare	2023
8	Refurbishment of station 220/110 kV Fileşti	2024
9	Refurbishment of transformer power station 400/110 kV Pelicanu	2025
10	Purchase and installation of 21 monitoring systems for the transformer units from the stations of C.N.T.E.E. Transelectrica SA	2023
Consumer supply safety – 1 investment project		
11	Installation of AT2 400 MVA, 400/231/22 kV and also of the related cubicles in Iernut station and the modernization of the control system of station 400/220/110/6 kV Iernut	2023
Integration of the production from Dobrogea and Moldova – 2 investment projects		
12	Connection of LEA 400 kV Isaccea - Varna and LEA 400 kV Isaccea - Dobrudja in station 400 kV Medgidia Sud – Stage II - LEA 400 kV d.c. Connections to station Medgidia Sud	2024
13	Increase of the transmission capacity of LEA 220 kV Stejaru-Gheorgheni-Fântânele	2024
Integration of the production from other areas – 1 investment project		
14	Stage II – Installation of protection conductor OPGW on the existing LEA 220 kV Portile de Fier I – Cetate circ. 1+2	2023
Increase of the interconnection capacity – 7 investment projects		
15	Transfer to the voltage of 400 kV of the axis Portile de Fier - Reşiţa - Timişoara - Săcălaz - Arad - Stage I - LEA 400 kV s.c. Portile de Fier - (Anina) - Reşiţa	2024
16	Transfer to the voltage of 400 kV of the axis Portile de Fier - Reşiţa - Timişoara - Săcălaz - Arad - Stage I - Station 400/220/110 kV Reşiţa	2025
17	Refurbishment of station 110 kV Timişoara and Transfer to the voltage of 400 kV of the axis Portile de Fier - Anina - Reşiţa - Timişoara - Săcălaz - Arad, stage II: Station 400 kV Timişoara	2027
18	Station 400 kV Stâlpu and modernization of cubicles 110 kV and medium voltage in the power station Stâlpu	2024
19	LEA 400 kV d.c. Cernavodă-Stâlpu and connection in Gura Ialomiţei	2023



20	Extension of station 400 kV Gura Ialomiței with two cubicles LEA 400 kV Cernavodă 2 and 3	2023
21	LEA 400 kV d.c. Gutinaș - Smârdan	2024
<i>Other projects in progress</i>		
22	Research and development center of the live working technologies (LST) and fast intervention in SEN - stage II	2023
23	Replacement of the hardware components, update and development of the specific applications of the Balancing Market Platform - II DAMAS	2023
24	WEB Portal	2023
25	Modernization of the message system	2023

The total value of investments in progress is of 332,725 thousand RON, representing 72.91% of the Company's own investment expenses.

B. The investment objectives which execution will start in 2023 (New investments) amount to 52,586 thousand RON, respectively 11.52% of the Company's own investment expenses.

They are in various stages of preparation for the launch of the works:

- **With the documentation at the Commercial Directorate at different stages of the procurement procedures:**

No.	Investment Objective
<i>RET Refurbishment – 7 investment projects</i>	
1	Modernization of station 220/110 kV Calafat
2	Installation of two moderns means of compensation of reactive power in stations 400/220/110/20 kV Sibiu Sud and 400/220/110/20 kV Bradu
3	Purchase and installation of a compensation coil 100MVA in station Portile de Fier 400kV
4	Modernization of the control – protection - -metering system 220 kV, 110 kV in station 220/110/20 kV and refurbishment of medium voltage and internal services c.c. and c.a. in station 220/110/20 kV Ghizdaru
5	Pilot Project – Refurbishment of station 220/110/20 kV Alba Iulia in concept of digital station



6	Optimization of the operation of LEA 400 kV existing in SEN, used in interconnection and for power evacuation from the nuclear plant Cernavoda and renewable energy power plants from Dobrogea, by installing online monitoring systems (SMART GRID type)
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Consumer supply safety – 2 investment projects

7	Increase of the safety degree in the supply of the consumers in the South area of Bucharest Municipality connection to station 400/220/110/10 kV Bucureşti Sud
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Integration of the production from Dobrogea and Moldova – 1 investment project

8	Transfer to 400 kV of LEA 220kV Brazi Vest – Teleajen – Stâlpu including AT procurement 400MVA 400/220/20kV and extension works at related stations 400kV and 220kV, in station 400/220/110kV Brazi Vest, of which: 1 - <i>Extension of the station Brazi Vest (including AT4)</i> 2 - <i>LEA 400 kV Brazi Vest - Teleajen - Stâlpu</i>
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Integration of the production from power plants – Other areas - 2 investment projects

9	LEA 220 kV double circuit Ostrovu Mare – RET-Stage I- signing in progress
10	Station 220 kV Ostrovu Mare

Other projects:

11	Monitoring system of the electric power quality (Power Quality Monitoring System, PQMS (SF, PT, CS)
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Main investment objectives with design in progress (including the obtaining of approvals, agreements, authorizations, Governmental Decision issuance for the commencement of the expropriation procedures:

No.	Object of Investments
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RET Refurbishment -1 investment program

1	Optimization of the voltage adjustment and of the quality parameters of electric energy through the installation of the FACTS type equipment in stations Gutinaş, Suceava and Roşiori
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Consumer supply safety – 1 investment project

2	Increase of the safety degree in the supply of the consumers in the North-East area of Bucharest Municipality, connected to station 220/110/10 kV Fundeni
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Integration of the production from Dobrogea and Moldova and other areas – 1 investment project

3 LEA 400 kV d.c. (1ce) Constanța Nord - Medgidia Sud

Increase of the interconnection capacity – 4 investment projects

4 LEA 400 kV Gădălin - Suceava

5 Transfer to the voltage of 400 kV of the axis Porțile de Fier - Reșița - Timișoara - Săcălaz - Arad, stage II: - *LEA 400 kV d.c. Reșița-Timișoara-Săcălaz*

6 Transfer to the voltage of 400 kV of the axis Porțile de Fier - Reșița - Timișoara - Săcălaz - Arad, stage III: *LEA 400 kV Timișoara – Arad; Station 400 kV Arad; Station 400 kV Săcălaz*

7 LEA 400 kV Suceava - Bălți, for the project part in the territory of Romania

Investment projects benefiting from financing from European funds

No.	Project Name	Financing rate	Financing status	Estimated value EUR	Non-reimbursable value EUR
CEF (Mechanism for Europe Interconnection)					
1	Internal line between Cernavodă and Stâlpul (1. LEA 400 kV d.c. Cernavodă-Stâlpul; 2. Station 400 kV Stâlpul; 3. Extension of station 400 kV Gura Ialomiței with two cubicles: <i>LEA 400 kV Cernavodă 2 and 3;</i> 4. Extension of station 400 kV Cernavodă)	50 %	Approved financing, financing contract INEA/CEF/ENER/M2017/15090 97	54,170,000	27,085,000
2	Optimization of the voltage adjustment and of the quality parameters of electric energy through the installation of the FACTS type equipment in stations Gutinăș, Suceava and Rosiori	50%	Financing application sent on August 31, 2022	45,110,000	22,555,000
Total CEF				99,280,000	49,640,000
No.	Project Name	Financing rate	Financing status	Estimated value EUR	Non-reimbursable value EUR
POIM (Large Infrastructure Operational Program)					
1	LEA 400 kV d.c. Gutinăș-Smârdan	60,23%	Approved financing,	55,520,385	



			financing contract 276/03.10.2019		
Total POIM				55,520,385	
Modernization fund					
1	LEA 400 kV d.c. Medgidia Sud-Constanța Nord	100%	Approved financing BEI under No.MF 2021-2 RO 0-009	22,992,330	22,992,330
2	"Axis Banat"*, Stage II LEA 400 kV Reșița – Timișoara/Săcălaz	100 %	Approved based on the Committee Decision on May 23, 2022	49,256,689	49,256,689
2	" Axis Banat"*, Stage II Refurbishment of station 110 kV Timișoara and transfer to 400 kV	100%		19,387,450	19,387,450
3	" Axis Banat"*, Stage III LEA 400 kV Timișoara/Săcălaz – Arad	100 %		27,354,619	27,354,619
3	" Axis Banat"*, Stage III Refurbishment of station 110kV Arad and Station 400 kV Arad	100%		13,405,670	13,405,670
3	"Axis Banat"*, Stage III Station 400 kV Săcălaz	100 %		16,820,000	16,820,000
4	LEA 400kV Gădălin – Suceava, including interconnection to SEN	100%		101,623,150	101,623,150
5	Pilot project - Refurbishment of station 220/110/20 kV Alba Iulia in a concept of digital statiohn	100%		46,956,109	46,956,109
6	Installation of two moderns means of compensation of reactive power in stations 400/220/110/20 kV Sibiu Sud and 400/220/110/20 kV Bradu	100%		52,491,442	52,491,442
7	Optimization of the operation of LEA 400 kV existing in SEN, used in interconnection and for power evacuation from the nuclear plant Cernavoda and renewable energy power plants from Dobrogea, by installing online monitoring systems (SMART GRID type)	100%		10,475,032	10,475,032
8	Metering and data management system for the measurement of the electric energy on the wholesale market	100%		10,746,287	10,746,287
8	Electric energy quality monitoring system (PQMS)	100%		7,580,970	7,580,970
9	Transfer to the voltage of 400 kV of the axis 220 kV Brazi Vest-Teleajen-Stâlpău and reconductoring	100%		51,229,685	51,229,685
Modernization fund total				430,319,433	
Total				600,009,818	

3. Risks that may affect the achievement of PAI 2023 - the Company's own expenses

A. External:

Delays in carrying out the works according to the contractual schedules mainly caused by:



- *the world economic situation, namely the war in Ukraine and the energy crisis;*
- *the financial situation of some executors;*
- *issuance of Governmental Decision for triggering expropriation/removal from the forest fund procedures.*

The impact of these risks could be around 13% of the Company's own expenses.

B. Internal (other causes) - with an impact of 2%

Under the conditions of the emergence of these constraints, the degree of achievement of the Investment Program (the Company's own expenses) will be of approximately 85%.

C. Proposed decision

Considering the above and based on the provisions of art. 14 paragraph (1) letter i) of the Articles of Incorporation of CNTEE "Transelectrica" - SA, updated on August 18, 2022 by Resolution of the Extraordinary General Assembly of Shareholders no. 7/2022, we propose to the General Assembly of Shareholders as follows:

- establishing the Investment Program of CNTEE "Transelectrica" - SA for the year 2023 and the estimation of investment expenses for the years 2024 and 2025 (PAI 2023) for the financial year subject to approval, according to the appendices to this Note and
- the delegation of the Company's Directorate to proceed with changes (revisions) of the amounts included in PAI 2023 without exceeding the funding sources

**DIRECTORATE
President,
Gabriel ANDRONACHE**

**Member,
Ştefăniţă MUNTEANU**

**Member,
Cătălin - Constantin NADOLU**

**Member,
Florin - Cristian TĂTARU**

**Member,
Bogdan TONCESCU**

**Asset Management Unit Manager
Cosmin Mihai Monac**

**Investment Directorate Manager
Dorinel Constantin Vladu**

**p. Manager DMPI
Simona Chiriţă**

**Drafted,
Silvia Damian**



National Power Grid Transelectrica, managed under two tier system

THE COMPANY'S 2023 INVESTMENT PROGRAMME AND ESTIMATED INVESTMENT EXPENDITURE FOR 2024 AND 2025 - proposal

i.I CAPITAL EXPENDITURE FOR "FURTHER INVESTMENTS" AND "NEW INVESTMENTS"

(thousand Lei, VAT)

Position in PAI 2023	Category of expenses / Name of investment objective	Act of approval	Total amount approved / updated	Estimated project value	Contracted value [thousand lei]	Estimated PIF PAI 2023	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
I	FURTHER INVESTMENTS (I.A+I.B) - TOTAL, of which:						332.725,07	78.313,01	76.227,81	79.009,50	99.174,75	391.822,21	235.452,14
I.A	MAJOR FURTHER INVESTMENTS - TOTAL, of which:						328.208,87	78.250,81	76.177,81	76.605,50	97.174,75	391.661,21	235.452,14
I.A.1	INVESTMENT DIVISION - TOTAL of which:						324.008,87	78.250,81	74.777,81	75.205,50	95.774,75	391.661,21	235.452,14
1	Extension of the 400 kV Cernavodă station - Phase II	Dir. Dec. 575 / 15.05.2018	15.069,52	13.000,00	12.650,23		914,70	405,00	509,70	0,00	0,00	0,00	0,00
	Extension of 400 kV Cernavodă substation Phase II - Connection of new lines MP:	Dec.Dir. 181 / 07.02.2017; Dir. Dec. 260 / 29.03.2013; Dec.CA. 36 /	15.069,52	13.000,00	12.650,23	2023	909,70	400,00	509,70	0,00	0,00	0,00	0,00
	<i>Constanta Investment Department:</i>						5,00	5,00	0,00	0,00	0,00	0,00	0,00
2	Switching to 400 kV of the Portile de Fier - Reșița - Timișoara - Săcalaz - Arad axis - Phase I, of which:	Dec. CA 2 / 25.01.2012 pt. Etapa I	282.169,55	286.500,00	274.285,16		40.300,00	3.070,00	7.110,00	15.060,00	15.060,00	53.460,00	55.000,00
	Switching to 400 kV voltage of the Portile de Fier - Reșița - Timisoara - Sacalaz - Arad axis - Phase I 400 kV LEA s.c. Portile de Fier - (Anina) - Reșița DP:	Dir. Dec. 985 / 25.08.2022; Ordin MEC 789/13.07.2016; Dec. CA 2 /	207.622,66	163.500,00	151.870,14	2024	25.000,00	2.000,00	3.000,00	10.000,00	10.000,00	20.000,00	0,00
	<i>Timisoara Investment Department:</i>						250,00	50,00	100,00	50,00	50,00	10,00	0,00
	Switching to 400 kV voltage of the Portes de Fier - Resita - Timisoara - Săcalaz - Arad axis - Phase I 400/220/110 kV Resita DP station:	Dir. Dec. 954 / 14.10.2019; Dec. CA 2 / 25.01.2012	163.409,11	123.000,00	122.415,02	2025	15.000,00	1.000,00	4.000,00	5.000,00	5.000,00	33.400,00	55.000,00
	<i>Timisoara Investment Department:</i>						50,00	20,00	10,00	10,00	10,00	50,00	0,00
3	Connection of 400 kV Isaccea - Varna and 400 kV Isaccea - Dobrudja LEA to 400 kV Medgidia South substation (Phase I + II)		173.565,79	143.000,00	123.826,32		21.050,00	1.350,00	4.350,00	5.350,00	10.000,00	55.653,61	0,00
	Connection of 400 kV Isaccea - Varna and 400 kV Isaccea - Dobrudja LEA to 400 kV South Medgidia substation Phase II - 400 kV LEA d.c. Connections to Medgidia South MP substation :	Dir. Dec. 577 / 03.06.2022; Dir. Dec. 1234 / 12.08.2021;	87.923,22	83.000,00	76.553,86	2024	20.000,00	1.000,00	4.000,00	5.000,00	10.000,00	55.553,61	0,00
	<i>Constanta Investment Department:</i>						1.050,00	350,00	350,00	350,00	0,00	100,00	0,00
4	Refurbishment of 400/110/20 kV Domnești Station	NF 29757 / 30.07.2020; Dir. Dec. 467 / 27.05.2015;	252.658,02	144.447,00	110.122,71	2021	0,00	0,00	0,00	0,00	0,00	5.767,80	0,00
	<i>MP:</i>						0,00	0,00	0,00	0,00	0,00	5.767,80	0,00
	Upgrading of 400 kV Isaccea substation (Phase I + II)		182.327,43	157.781,90	146.972,00		8.105,00	405,00	1.700,00	3.000,00	3.000,00	32.005,00	33.005,00

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Category of expenses / Name of investment objective	Act of approval	Total amount approved / updated	Estimated project value	Contracted value [thousand lei]	Estimated PIF PAI 2023	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
5	400 kV Isaccea Station Upgrade Stage II MP:	Dir. Dec. 1286 / 24.08.2021;	120.608,95	116.391,90	116.391,90	2026	8.100,00	400,00	1.700,00	3.000,00	3.000,00	32.000,00	33.000,00
	Constanta Investment Department:						5,00	5,00	0,00	0,00	0,00	5,00	5,00
6	Upgrade of 220/110 /20 kV Arefu electrical station	Dir. Dec. 239/ 18.03.2020;	76.625,77	53.000,00	51.199,30	2024	15.035,50	2.010,00	5.010,00	5.015,50	3.000,00	5.000,00	0,00
	MP:	Dir. Dec. 636/ 13.07.2015;					15.000,00	2.000,00	5.000,00	5.000,00	3.000,00	5.000,00	0,00
	Pitesti Investment Department:	Dec. DG 983 /					35,50	10,00	10,00	15,50	0,00	0,00	0,00
7	Upgrade of 220/110 kV Dumbrava substation	Dir. Dec. 916 / 03.10.2019	42.797,48	33.000,00	18.957,68	2023	3.984,20	1.230,00	2.754,20	0,00	0,00	0,00	0,00
	MP:	Dir. Dec. 360 / 23.04.2015;					3.984,20	1.230,00	2.754,20	0,00	0,00	0,00	0,00
	Bacau Investment Department :						0,00						
8	Upgrade of 110 and 400(220) kV installations in Focșani West station	Dir. Dec. 593 / 27.06.2016;	49.808,53	23.000,00	22.252,79	2025	123,90	11,80	35,80	76,30	0,00	260,00	3.000,00
	MP:	NF 2711 / 16.02.2015					0,00	0,00	0,00	0,00	0,00	260,00	3.000,00
	Bacau Investment Department:						123,90	11,80	35,80	76,30	0,00	0,00	0,00
9	Upgrading of 220/110/20 kV Ungheni station	Dir. Dec. 195 / 27.02.2015	63.805,89	50.000,00	51.314,47	2022	10,00	10,00	0,00	0,00	0,00	0,00	0,00
	Sibiu Investment Department:						10,00	10,00	0,00	0,00	0,00	0,00	0,00
10	400/110/20 kV Smârdan substation refurbishment	Dir. Dec. 899 / 11.10.2016;	123.111,40	110.000,00	107.445,16	2026	11.057,30	2.500,00	3.000,00	3.000,90	2.556,40	9.900,00	13.120,00
	MP:	Dir. Dec. 4 / 04.01.2016;					10.000,00	2.500,00	2.500,00	2.500,00	2.500,00	9.700,00	12.920,00
	Constanta Investment Department:	NF 11169/24.10.2013					1.057,30	0,00	500,00	500,90	56,40	200,00	200,00
11	Refurbishment of the 110 kV Timisoara substation and the transition to 400 kV voltage of the Portile de Fier - Anina - Resita - Timisoara - Sacalaz - Arad axis, stage II: 400 kV Timisoara substation	Dir. Dec. 147 / 15.02.2016;	130.309,61	90.000,00	87.778,16	2027	410,00	0,00	0,00	10,00	400,00	6.850,00	20.050,00
	MP:	NF (TEL) 8369 / 01.10.2012					400,00	0,00	0,00	0,00	400,00	6.800,00	20.000,00
	Timisoara Investment Department:						10,00	0,00	0,00	10,00	0,00	50,00	50,00
12	Refurbishment of the 110 kV Medgidia South station	Dir. Dec. 119 / 08.02.2016;	73.941,60	60.000,00	49.792,04	2025	2.010,00	0,00	510,00	500,00	1.000,00	15.010,00	18.010,00
	MP:	RN 16084 / 04.05.2017					2.000,00	0,00	500,00	500,00	1.000,00	15.000,00	18.000,00
	Constanta Investment Department:	NF 153 / 2013					10,00	0,00	10,00	0,00	0,00	10,00	10,00
13	220/110/MT kV Baru Mare substation refurbishment	Dec.Dir. 428 / 10.05.2016;	76.429,13	63.000,00	73.441,95	2023	42.607,00	13.010,00	10.010,00	10.005,00	9.582,00	0,00	0,00
	MP:	NF (TEL) 36887 / 30.10.2014;					42.582,00	13.000,00	10.000,00	10.000,00	9.582,00	0,00	0,00
	Timisoara Investment Department:	RN 441 / 10.06.2016					25,00	10,00	10,00	5,00	0,00	0,00	0,00

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Category of expenses / Name of investment objective	Act of approval	Total amount approved / updated	Estimated project value	Contracted value [thousand lei]	Estimated PIF PAI 2023	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
14	400 kV Stalpu substation and Upgrade of 110 kV and medium voltage cells in Stalpu substation	Dir. Dec. 713 / 14.06.2017; Dir. Dec. 182 / 07.02.2017; D. CA 6 / 24.03.2011; Dir. Dec. 1005 / 07.10.2014	107.032,53	75.526,00	73.940,23	2.010,00 1.500,00 500,00 10,00	5,00 0,00 0,00 5,00	1,00	502,00	1.502,00	15.010,00	39.430,00	
	400 kV Stalpu MP-Nitu station :		72.910,11	60.000,00	58.414,23			0,00	0,00	500,00	1.000,00	10.000,00	30.000,00
	Upgrade of the 110 kV and medium voltage cells in Stalpu RP-Tessaro substation:		34.122,42	15.526,00	15.526,00			0,00	0,00	0,00	500,00	5.000,00	9.420,00
	Bucharest Investment Department: - (fees)							1,00	2,00	2,00	10,00	10,00	
15	400 kV d.c. Cernavodă-Stalpu and connection in Gura Ialomiței	NJ 4372/12.05.2022 Dir. Dec. 494 / 26.04.2018 HG 805 / 08.11.2017; Ordin ME 745 / 11.07.2017 Dir. Dec. 325 / 05.04.2016; Dir. Dec. 343 / 16.04.2015; Dec. CA 07 / 06.03.2012	403.758,53	350.000,00	334.028,60	2023	6.400,77	3.724,32	2.676,45	0,00	0,00	0,00	0,00
	MP:						6.376,45	3.700,00	2.676,45	0,00	0,00	0,00	0,00
	Bucharest Investment Department: - Services for the preparation of cadastral documentation for the registration of expropriated land surfaces related to the investment „LEA 400 kV d.c. Cernavodă-Stalpu and connection in Gura Ialomiței” C558/02.08.2018						10,00	10,00	0,00	0,00	0,00	0,00	0,00
	- S. Inv. Bucuresti - Fees + DISCOUNTS						5,00	5,00	0,00	0,00	0,00	0,00	0,00
	- S. Inv. Bucharest - Topographical plan drawing services						2,25	2,25	0,00	0,00	0,00	0,00	0,00
	- S. Inv. Bucharest - ANEVAR evaluation services						2,07	2,07	0,00	0,00	0,00	0,00	0,00
	- S. Inv. Bucuresti - Works for the coexistence conditions of the 10 and 42 LEA 400 kV d.c Cernavodă Pillar with connection in Gura Ialomiței station with CONPET pipelines						5,00	5,00	0,00	0,00	0,00	0,00	0,00
16	Extension of the 400 kV Gura Ialomiței station with two cells: LEA 400 kV Cernavodă 2 and 3	Dir. Dec. 359 / 12.04.2019 H.CA 13 / 10.11.2010	18.907,39	19.500,00	18.914,13	2023	1.890,00	1.890,00	0,00	0,00	0,00	0,00	0,00
	DP:						1.885,00	1.885,00					
	Bucharest Investment Department:						5,00	5,00	0,00	0,00	0,00	0,00	0,00
17	Refurbishment of 220/110 kV Filești substation	Dir. Dec. 724 / 30.07.2019; Dec. Dir 800 / 06.07.2018; Dir. Dec. 1066 /	51.303,26	41.000,00	49.687,10	2024	10.035,00	2.020,00	2.010,00	3.005,00	3.000,00	20.374,00	0,00
	MP:						10.000,00	2.000,00	2.000,00	3.000,00	3.000,00	20.374,00	0,00
	Constanta Investment Department:						35,00	20,00	10,00	5,00	0,00	0,00	0,00
18	Refurbishment of the 400/110 kV Pelicanu transformer substation	Dir. Dec. 1048 / 07.11.2019; Dir. Dec. 829 / 05.07.2017; NF 31041 / 16.09.2014	115.297,92	127.000,00	126.565,82	2025	20.010,00	2.005,00	3.001,00	5.002,00	10.002,00	46.010,00	28.310,00
	MP:						20.000,00	2.000,00	3.000,00	5.000,00	10.000,00	46.000,00	28.300,00
	ST Bucharest:						10,00	5,00	1,00	2,00	2,00	10,00	10,00
19	LEA 400 kV d.c. Gutinaș - Smârdan	Dir. Dec. 212 / 09.03.2020 HG 840 / 22.11.2017; Dir. Dec. 1240 / 09.11.2017; Dir. Dec. 446 /	315.345,55	300.000,00	247.804,99	2024	86.548,74	36.048,69	20.084,10	15.013,60	15.402,35	48.058,00	4.128,00
	DP:						82.000,00	32.000,00	20.000,00	15.000,00	15.000,00	43.780,00	0,00
	Bacau Investment Department :						4.473,74	4.013,69	44,10	13,60	402,35	4.128,00	4.128,00
	Constanta Investment Department :						75,00	35,00	40,00	0,00	0,00	150,00	0,00
	Increasing the transmission capacity of the 220 kV Stejaru-Gheorgheni-Fântânele line	DDir.1200/20.10.22 Nota 23514/4.6.21;					8.995,76	5,00	15,56	15,20	8.960,00	26.120,55	0,00

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								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
20	MP: <i>Bacau Investment Department:</i> <i>Sibiu Investment Department:</i>	DDir. 950/14.8.20; DDir. 74 / 18.1.19; DDir.1389/29.11.16 NF (TEL) 30121 / 23.9.14	65.315,03	56.500,00	55.804,69	2024	8.955,00 20,76 20,00	0,00	0,00	0,00	8.955,00	26.100,00	0,00
								0,00	10,56	10,20	0,00	20,55	0,00
								5,00	5,00	5,00	5,00	0,00	0,00
21	Metering and data management system for electricity metering on the wholesale market	Dir. Dec. 200 / 01.03.2018; Hot. Dir. 10 / 21.01.2016;	48.622,36	46.000,00	52.920,59	2024	20.000,00	6.200,00	5.500,00	3.500,00	4.800,00	30.730,35	0,00
22	LEA 220 kV double circuit Ostrov Mare - RET, of which:	Dir. Dec. 991 / 19.08.2020 Dir. Dec. 1365 / 12.12.2017;	75.949,55	63.104,74	4.399,10		16.311,00	1.301,00	3.000,00	4.500,00	7.510,00	21.451,90	21.399,14
	Stage I - 220 kV double circuit Ostrov Mare - RET MP:	HG 775 / 26.10.2017;	68.113,95	56.389,14		2025	15.000,00	0,00	3.000,00	4.500,00	7.500,00	20.000,00	21.389,14
	Stage II - Installation of OPGW protection conductor on existing 220 kV Portile de Fier I - Cetate circ. 1+2 MP:	Dir. Dec. 108 / 13.01.2017; Dir. Dec. 904 / 10.09.2014;	6.004,10	5.273,70	4.399,10	2023	1.300,00	1.300,00					
	Stage III - Overpassing of the 220 kV Ostrov Mare-RET over the 110 kV Ostrov Mare-Cetate 1+2, 110 kV Ostrov Mare-Gruia, 110 kV Ostrov Mare-Burila and 20 kV MP:	H. CA 17 / 26.11.2007	1831,5	1441,9		2024	0,00	0,00	0,00	0,00	0,00	1.441,90	0,00
	<i>Craiova Investment Department:</i>						11,00	1,00	0,00	0,00	10,00	10,00	10,00
I.A.2	SIBIU Investment Department - TOTAL, of which:						6.200,00	1.050,00	3.500,00	1.650,00	0,00	0,00	0,00
23	Installation of AT2 400 MVA, 400/231/22 kV and related cubicles in lernut station and Upgrade of the control system of 400/220/110/6 kV lernut station	Dir. Note 6292 / 13.02.2018; Dir. Dec. 1388 / 29.11.2016; NF (TEL) 37414 /	42.178,10	40.000,00	29.765,33	2023	2.000,00	1.000,00	1.000,00			0,00	0,00
24	Research and development centre for live working technologies (LST) and rapid intervention in SEN - phase II	Dec. Of Directorate 825/12.07.2018	5.277,34	5.277,34	4.808,03	2023	4.200,00	50,00	2.500,00	1.650,00	0,00	0,00	0,00
I.A.3	DTEETN Division - TOTAL of which:						4.200,00	0,00	1.400,00	1.400,00	1.400,00	0,00	0,00
25	Purchase and installation of 21 monitoring systems for the transformer units in the substations of C.N.T.E.E. Treanselectrica SA	Dir. Dec./ Dir. Dec. 216 / 10.03.2020; NC (TEL) 30254 /	11.362,34	12.500,00	10.657,89	2023	4.200,00	0,00	1.400,00	1.400,00	1.400,00	0,00	0,00
I.B	OTHER FURTHER INVESTMENTS - TOTAL, of which:						4.516,20	62,20	50,00	2.404,00	2.000,00	161,00	0,00
I.B.1	BACAU Investment Department: - TOTAL, of which:						0,00	0,00	0,00	0,00	0,00	5,00	0,00
26	Demolition of storehouses and construction of a hall with platform and hydrocarbon separator for storage of equipment in the 400/220/110 kV Suceava transformer station	Dec. ST BC 235 / 12.12.2019; Dec. ST BC 226 / 14.09.2018;	1.039,64	1.039,64	822,28	2021	0,00	0,00	0,00	0,00	0,00	5,00	0,00
I.B.2	BUCHAREST Investment Department: - TOTAL, of which:						392,00	0,00	0,00	392,00	0,00	0,00	0,00

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								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
27	Ensuring fiber optic communications between the 400/110 kV Pelicanu substation and the 110 Kv Silcotub Calarasi substation of SC Energy Network SRL	Dir. Dec. 5 / 08.04.2021; Dec ST Buc 284/22.05.2010	679,02	679,02	392,00	2023	392,00	0,00	0,00	392,00	0,00	0,00	0,00
I.B.3	CLUJ Investment Department: - TOTAL, of which:						4.072,50	22,50	50,00	2.000,00	2.000,00	156,00	0,00
28	Installation of an embedded fibre optic protection conductor on the 400 kV Roșiori - Mukacevo LEA	Dir. Dec. 216 / 10.03.2022; Dir. Dec. 29938 /	6.062,79	6.062,79	4.228,50	2024	4.072,50	22,50	50,00	2.000,00	2.000,00	156,00	0,00
I.B.4	CONSTANTA Investment Department: - TOTAL, of which:						39,70	39,70	0,00	0,00	0,00	0,00	0,00
29	Heating installation for EC Tulcea headquarters	Dir. Dec. 1137 / 21.07.2021;	54,74	33,50	12,00		39,70	39,70	0,00	0,00	0,00	0,00	0,00
I.B.3	PITEȘTI Investment Department: - TOTAL, of which:						12,00	0,00	0,00	12,00	0,00	0,00	0,00
30	Implementation of electricity metering and power quality monitoring systems in the 220/110/20 kV Pitesti South substation	Dec. ST PT 158 / 10.10.2016	811,03	811,03	462,58	2022	4,00	0,00	0,00	4,00	0,00	0,00	0,00
31	Implementation of electricity metering and power quality monitoring systems in the 220/110 kV Stuparei substation	Dec. ST PT 159 / 10.10.2016	673,82	673,82	361,67	2022	8,00	0,00	0,00	8,00	0,00	0,00	0,00
II NEW INVESTMENTS - TOTAL, of which:							52.585,95	235,00	2.751,75	12.826,09	36.773,11	338.141,88	442.218,34
II.A	MAJOR NEW INVESTMENTS - TOTAL, of which:						48.248,35	125,00	2.619,85	11.011,50	34.492,00	292.073,81	363.675,88
II.A.1	INVESTMENT DIVISION - TOTAL of which:						23.865,35	120,00	2.614,85	10.006,50	11.124,00	198.924,30	242.345,37
32	400 kV Gădălin - Suceava LEA	H. CA 7 / 08.07.2010	428.227,65	278.640,00		2030	158,00	5,00	0,00	61,50	91,50	108,50	108,50
	MP:						30,00	0,00	0,00	0,00	30,00	100,00	100,00
	Bacau Investment Department:						123,00	0,00	0,00	61,50	61,50	3,50	3,50
	Cluj Investment Department:						5,00	5,00	0,00	0,00	0,00	5,00	5,00
	400 kV Suceava - Balti line, for the portion of the project on Romanian territory						40,00	0,00	0,00	20,00	20,00	500,00	3.000,00
33	DP:	Ordin Mec. 848 / 05.07.2018; Dir. Dec. 203 / 01.03.2018; H. CA 10 / 29.09.2010;	241.513,68	100.840,00		An PIF-dupa aprobatie Rep. Moldova	0,00					500,00	3.000,00
							40,00			20,00	20,00		
34	Upgrade to 400kV of the 220kV Brazi West - Teleajen - Stalpu LEA including 400MVA 400/220/20kV HV acquisition and extension works of the related 400kV and 220kV stations, in the 400/220/110kV Brazi West station, of which:	Dir. Dec. 820 / 15.07.2022;	270.883,84	184.569,77			5.144,00	0,00	0,00	2.205,00	2.939,00	45.945,00	75.564,00
	LEA 400 kV Brazi West - Teleajen - Stalpu - MP:						4.244,00	0,00	0,00	2.000,00	2.244,00	14.480,00	13.464,00
	Extension of Brazi West station (including AT4) - MP:						890,00	0,00	0,00	200,00	690,00	28.865,00	37.504,00
	400 kV Teleajen substation and 110 kV refurbishment - MP:						0,00	0,00	0,00	0,00	0,00	2.590,00	24.586,00
	Bucharest Investment Department:						10,00	0,00	0,00	5,00	5,00	10,00	10,00

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								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025	
35	LEA 400 kV d.c. (1ce) Constanta North - Medgidia South	Dir. Dec. 428 / 09.05.2019; NF 12877 / 06.11.2014	94.873,33	94.873,33		2028		204,00	0,00	65,00	65,00	74,00	1.050,00	1.000,00
	MP:							0,00	0,00	0,00	0,00	0,00	1.000,00	1.000,00
	Constanta Investment Department:							204,00	0,00	65,00	65,00	74,00	50,00	0,00
36	Switching to 400 kV voltage of the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis, stage II: 400 kV d.c. Resita-Timisoara-Sacalaz line	Dir. Dec. 744 / 25.08.2016; D. CA 2 / 25.01.2012	161.993,79	161.993,79		2026		50,00	25,00	25,00	0,00	0,00	600,00	5.100,00
	MP:							0,00	0,00	0,00	0,00	0,00	500,00	5.000,00
	Timisoara Investment Department:							50,00	25,00	25,00	0,00	0,00	100,00	100,00
37	Switching to 400 kV voltage of the Portile de Fier - Anina - Reșița - Timisoara - Săcalaz - Arad axis. 400 kV Timișoara - Arad line (stage III)	Dir. Dec. 1175 / 13.12.2019; NF (TEL) 8369 / 01.10.2012	125.102,61	125.102,61		2027		300,00	50,00	75,00	75,00	100,00	200,00	1.100,00
	MP:							50,00	0,00	0,00	0,00	50,00	100,00	1.000,00
	Timisoara Investment Department:							250,00	50,00	75,00	75,00	50,00	100,00	100,00
38	Upgrade of the 220/110 kV Calafat substation	Dir. Dec. 516 / 19.05.2022; Dir. Dec. 889 / 07.06.2021; NC (TEL) 8175 /	48.243,09	45.636,28		2025		1.764,20	0,00	764,20	500,00	500,00	14.136,00	30.120,38
	MP:							1.500,00	0,00	500,00	500,00	500,00	14.136,00	30.000,28
	Craiova Investment Department:							264,20	0,00	264,20	0,00	0,00	0,00	120,10
39	Ostrovu Mare 220 kV station	Dir. Dec. 1365 / 12.12.2017; Dir. Dec. 903 / 10.09.2014; H. CA 17 /	56.518,21	44.470,42		2025		9.455,65	0,00	1.155,65	4.000,00	4.300,00	20.000,00	14.581,62
	MP:							9.300,00	0,00	1.000,00	4.000,00	4.300,00	20.000,00	14.470,42
	Craiova Investment Department:							155,65	0,00	155,65	0,00	0,00	0,00	111,20
40	Purchase and installation of a 100MVar compensation coil in Portile de Fier 400kV substation	Dir. Dec. 888 / 28.07.2022; NC 79 / 15.02.2021	19.419,20	19.419,20		2025		74,50	0,00	0,00	0,00	74,50	5.419,90	14.000,20
	MP:							10,00	0,00	0,00	0,00	10,00	5.409,00	14.000,20
	Craiova Investment Department:							64,50	0,00	0,00	0,00	64,50	10,90	0,00
41	Installation of two modern means of reactive power compensation in 400/220/110/20 kV Sibiu South and 400/220/110/20 kV Bradu stations	Dir. Dec. 166 / 23.02.2022; Dir. Dec. 1231 / 02.10.2020; NC (TEL) 24047 / 03.07.2017	270.208,61	244.905,00		2026		100,00	30,00	30,00	30,00	10,00	70.030,00	70.150,00
	MP:							0,00	0,00	0,00	0,00	0,00	70.000,00	70.000,00
	Pitesti Investment Department:							40,00	0,00	0,00	30,00	10,00	30,00	150,00
	Sibiu Investment Department:							60,00	30,00	30,00	0,00	0,00	0,00	0,00
	Increasing safety in the operation of the Arges - Valcea grid area, building the 400 KV Arefu station and installing a 400 MVA, 400/220 KV HV							6.565,00	10,00	500,00	3.050,00	3.005,00	35.725,00	20.010,00
42	MP:	Dir. Dec. 1320 /02.09.2021; Dir. Dec. 1189 /20.12.2019; NC 31141/ 06.08.2018	80.675,41	76.553,35	2025			6.500,00	0,00	500,00	3.000,00	3.000,00	35.670,00	20.000,00
	Pitesti Investment Department:							65,00	10,00	0,00	50,00	5,00	55,00	10,00

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II.A.2	BUCHAREST Investment Department - TOTAL, of which:						10,00	0,00	0,00	0,00	10,00	5.000,00	6.610,67
43	Upgrade of the 220 kV, 110 kV command-control-protection-metering system in the 220/110/20 kV station and medium voltage and internal DC and AC services retrofitting in the 220/110/20 kV Ghizdaru station	Dir. Dec. 1451 / 12.11.2020; NJ 13039 / 30.08.2018;	33.935,86	27.493,77		2026	10,00	0,00	0,00	0,00	10,00	5.000,00	6.610,67
II.A.3	CRAIOVA Investment Department - TOTAL, of which:						0,00	0,00	0,00	0,00	0,00	209,90	1.000,00
44	Upgrade of 400 kV Tantareni SCCP substation	Dir. Dec. .../... NF (TEL) 39491 /		10.210,00		2026	0,00	0,00	0,00	0,00	0,00	209,90	1.000,00
II.A.4	OMEPA Division						1.500,00	0,00	0,00	0,00	1.500,00	13.135,51	14.635,51
45	Power Quality Monitoring System (PQMS)	Dir. Dec. 1080 / 21.09.2022; NC 32049	39.555,43	39.555,43		2026	1.500,00	0,00	0,00	0,00	1.500,00	13.135,51	14.635,51
II.A.5	DTEETN DIVISION - TOTAL of which:						22.883,00	5,00	5,00	1.005,00	21.868,00	80.014,00	106.695,00
46	Pilot Project - Upgrading the 220/110/20 kV Alba Iulia substation to a digital substation concept	Dir. Dec. UMA 1329 / 02.09.2021; NC(TEL) 43957 / 29.10.2019	231.141,44	150.000,00		2026	21.883,00	5,00	5,00	5,00	21.868,00	66.014,00	76.863,00
	MP DTEETN:						21.863,00	0,00	0,00	0,00	21.863,00	66.014,00	76.863,00
	Sibiu Investment Department:						20,00	5,00	5,00	5,00	5,00		
47	Optimization of the operation of the existing 400 kV LEAs in the SEN, used in interconnection and for power discharge from the Cernavoda nuclear power plant and renewable energy plants in Dobrogea, by installing on-line monitoring systems (SMART GRID type).	Dec. UMA 1328 / 02.09.2021; NC (TEL) 9674 / 09.03.2020	49.457,20	49.457,20		2026	1.000,00	0,00	0,00	1.000,00	0,00	14.000,00	29.832,00
II.B	OTHER NEW INVESTMENTS - TOTAL, of which:						4.337,60	110,00	131,90	1.814,59	2.281,11	46.068,07	78.542,46
II.B.1	BACAU Investment Department - TOTAL, of which:						592,68	0,00	0,90	440,59	151,19	2.010,12	1,80
48	Focșani West station road redevelopment in the access area	Dec. ST BC 216 / 05.09.2018;	93,96	91,30		2024	15,00	0,00	0,00	0,00	15,00	76,45	0,30
49	Provisioning in 110 kV LEA for shunting of the FAI transformer substation to comply with regime conditions when 110 kV busbars are taken out of service	Dir. Dec. 1150 / 23.07.2021; Dir. Dec. 1176 / 23.09.2020;	723,84	723,84		2024	36,19	0,00	0,00	0,00	36,19	686,15	1,50
50	Off-grid photovoltaic system Gutinăș station	Dir. Dec. 767 / 30.06.2022;	838,42	838,42		2024	110,90	0,00	0,90	10,00	100,00	727,52	0,00
51	Rehabilitation of data transport network for telecontrol	Dir. Dec. 693 / 17.06.2022;	430,59	430,59		2023	430,59	0,00	0,00	430,59	0,00	0,00	0,00
52	Replacement of internal service transformers TSI 2, TSI 3 and TSI 4 in 400/220/110/20 kV Suceava substation	Decision ??? NC 41467 /		520,00		2024	0,00	0,00	0,00	0,00	0,00	520,00	0,00
II.B.2	BUCHAREST Investment Department - TOTAL, of which:						592,00	10,00	6,00	214,00	362,00	14.376,09	46.776,90
53	Pilot project: measures for the protection of birds in protected natural areas, required in environmental permits for ST Bucharest	Dir. Dec. 432 /15.03.2021; NF 1527 / 01.08.2016	765,84	765,84		2024	5,00	0,00	0,00	0,00	5,00	760,84	0,00
54	Increasing the degree of safety in supplying consumers in the southern area of Bucharest connected to the 400/220/110/10 kV Bucuresti Sud substation	Dec. UMA 1660 /07.12.2021; NC 14945 /	63.509,69	63.509,69		2026	10,00	10,00	0,00	0,00	0,00	5.000,00	5.000,00

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Category of expenses / Name of investment objective	Act of approval	Total amount approved / updated	Estimated project value	Contracted value [thousand lei]	Estimated PIF PAI 2023	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
55	Replacement of batteries 1 and 2, 220 V dc, 600Ah from 400/220 kV Brazi West Station	Dec. UMA 1452 / 05.10.2021; NC 39552 /	583,74	583,74		2023	532,00	0,00	0,00	200,00	332,00	0,00	0,00
56	Increasing the degree of safety in supplying consumers in the north-eastern area of Bucharest connected to the 220/110/10 kV Fundeni station	Dir. Dec. /.... NC (TEL) 15341 /	65.620,56	65.620,56		2026	10,00	0,00	5,00	3,00	2,00	5.000,00	30.000,00
57	Upgrading to reduce the effects of galloping on the 400 kV Bucuresti Sud - Gura Ialomitei line	Dec. UMA 52612 / 07.12.2021 NC	2.563,52	2.563,52		2024	5,00	0,00	1,00	1,00	3,00	2.558,52	0,00
58	Replacing the heating and air-conditioning installation in the administrative building of ST Bucharest headquarters	Dir. Dec. 642 / 10.06.2022; NF 11365 /	4.143,63	4.143,63		2025	10,00	0,00	0,00	0,00	10,00	133,63	4.000,00
59	Increasing the transmission capacity of the 400 kV South Bucharest - Pelicanu LEA section (8 km)	Dir. Dec. 641 / 10.06.2022; NC (TEL) 35925 /	7.733,00	7.733,00		2025	10,00	0,00	0,00	0,00	10,00	723,10	7.000,00
60	Heating installation for the building of the Turnu Magurele Station control body	Dir. Dec. 980 / 23.08.2022; NF 11366 /	986,90	986,90		2025	10,00	0,00	0,00	10,00	0,00	200,00	776,90
II.B.3 CLUJ Investment Department - TOTAL, of which:							631,26	0,00	0,00	0,00	631,26	760,55	100,00
61	Installation of a fire containment system with nitrogen injection for the 400 KVA coil at Oradea South	Dec Dir. 1406 / 13.12.2022; Dir.	1.291,81	1.291,81		2024	631,26	0,00	0,00	0,00	631,26	660,55	0,00
62	Upgrade of SCADA Salaj station	NC40413/4.10.18		9.000,00		2026	0,00	0,00	0,00	0,00	0,00	100,00	100,00
II.B.4 CONSTANTA Investment Department - TOTAL, of which:							354,66	0,00	0,00	0,00	354,66	0,00	0,00
63	Thermal rehabilitation of the Constanta North Intervention Center building	Dec .. / ... Dec. ST CT 15 /	426,51	354,66		2023	354,66	0,00	0,00	0,00	354,66	0,00	0,00
II.B.5 CRAIOVA Investment Department - TOTAL, of which:							342,00	0,00	0,00	0,00	342,00	2.774,31	13.968,76
64	DET Craiova operational headquarters	Dec. UMA 1405 / 22.09.2021;	16.967,76	15.210,76		2025	242,00	0,00	0,00	0,00	242,00	1.000,00	13.968,76
65	Upgrade of 220 kV Isalnita - Craiova North LEA circ. 2 by replacing the existing protective conductor with a new one type OPGW	Dir. Dec. 966 / 22.08.2022; NC 694 /	949,31	949,31		2024	100,00	0,00	0,00	0,00	100,00	849,31	0,00
66	Replacement of the 600/300A ST null creation resistor of the 110/20 kV transformer in the 220/110kV Severin East substation	Dir. Dec. NC 439 / 15.09.2020		600,00		2024	0,00	0,00	0,00	0,00	0,00	600,00	0,00
67	Upgrade of the Vulcan 220 kV Paroseni-Tg Jiu North LEA surveillance building	Dir. Dec. NC 40226 / 20.09.2021		325,00		2024	0,00	0,00	0,00	0,00	0,00	325,00	0,00
II.B.6 PITEȘTI Investment Department - TOTAL, of which:							505,00	0,00	5,00	500,00	0,00	15.250,00	95,00
68	Replacement of transformer no. 4 - 250 MVA, 400/110 kV in 400/110 KV Draganesti Olt substation	Dec. UMA 1638 / 26.11.2021;	15.559,58	15.550,00		2026	500,00	0,00	0,00	500,00	0,00	15.000,00	50,00
69	Connection of the sewerage system of the 220/110 kV Gradiste station to the local sewerage network	Dec. ST PT 1 / 09.01.2018	313,70	300,00		2025	5,00	0,00	5,00	0,00	0,00	250,00	45,00
II.B.7 SIBIU Investment Department - TOTAL, of which:							50,00	0,00	0,00	0,00	50,00	67,00	0,00
70	Integrated Security System Paltinis Training Centre	Dec. ST SB 31 / 26.02.2018	129,18	117,00		2023	50,00	0,00	0,00	0,00	50,00	67,00	
II.B.8 TIMIȘOARA Investment Department: - TOTAL, of which:							1.250,00	100,00	120,00	650,00	380,00	9.800,00	2.600,00

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Category of expenses / Name of investment objective	Act of approval	Total amount approved / updated	Estimated project value	Contracted value [thousand lei]	Estimated PIF PAI 2023	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
								Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
71	Upgrade of Fratelia warehouse - ST Timisoara	Decizia ST TM 88/12.05.2016	1.031,81	1.031,81		2025	150,00	50,00	20,00	50,00	30,00	750,00	100,00
72	Upgrade of the building for measuring instruments Văliug	Dec. ST TM 319 / 02.12.2019	6.596,17	6.596,17		2025	1.000,00	50,00	100,00	600,00	250,00	2.500,00	2.500,00
73	Upgrade of industrial building no.1 S.T. Timișoara	Dir. Dec. 889 / 28.07.2022	8.202,95	6.650,00		2024	100,00	0,00	0,00	0,00	100,00	6.550,00	0,00
<i>II.B.8</i>	<i>DIRECȚIA INVESTIȚII - TOTAL, din care:</i>						20,00	0,00	0,00	10,00	10,00	1.030,00	15.000,00
74	Upgrade of the command-control-protection systems and integration in CTSI of Draganesti Olt station	Dec. Dir 712 / 14.08.2015	15.719,36	15.000,00		2026	0,00	0,00	0,00	0,00	0,00	20,00	1.010,00
	<i>MP:</i>						0,00	0,00	0,00	0,00	0,00	10,00	1.000,00
	<i>Pitești Investment Department:</i>						0,00	0,00	0,00	0,00	0,00	10,00	10,00
75	Upgrade of the command-control-protection systems and integration into CTSI of the Gradiste station	Dir. Dec. 713 / 14.08.2015	16.442,86	15.000,00		2025	20,00	0,00	0,00	10,00	10,00	1.010,00	13.990,00
	<i>MP:</i>						10,00	0,00	0,00	10,00	0,00	1.000,00	13.990,00
	<i>Pitești Investment Department:</i>						10,00	0,00	0,00	0,00	10,00	10,00	0,00
<i>II.B.9</i>	<i>CLASSIFIED INFORMATION DEPARTMENT, of which:</i>						0,00	0,00	0,00	0,00	0,00	0,00	0,00
76	Implementing physical security measures in the zones where classified information is managed			217,72			0,00						

**THE COMPANY'S 2023 INVESTMENT PROGRAMME
AND ESTIMATED INVESTMENT EXPENDITURE FOR 2024 AND 2025 - proposal**

(thousand Lei, VAT excl.)

Pozitia în PAI 2023	Denumire obiectiv de investiție	Approval deed	Project estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
					QUARTER I	QUARTER II	QUARTER III	QUARTER IV	2024	2025
III.	OTHER INVESTMENT EXPENSES - TOTAL (A+B+C+D+E+F), of which:			71.013,94	15.363,25	10.411,03	2.580,25	42.659,41	50.197,94	35.518,27
A	<i>Procuring buildings, lands included:</i>			0,00	0,00	0,00	0,00	0,00	0,00	0,00
B	<i>Independent endowments:</i>			66.501,93	14.213,82	8.915,69	2.006,35	41.366,07	46.570,96	24.573,46
	Investment Department Bacau			1.009,91	283,31	3,00	5,10	718,50	574,20	0,00
	Investment Department Bucharest			0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Investment Department Cluj			526,45	421,36	0,00	0,00	105,09	0,00	0,00
	Investment Department Constanta			0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Investment Department Craiova			0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Investment Department Pitesti			0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Investment Department Sibiu			204,07	0,00	204,07	0,00	0,00	0,00	0,00
	Investment Department Timisoara			431,50	0,00	0,00	311,50	120,00	0,00	0,00
	Executive branch, of which:			64.330,00	13.509,15	8.708,62	1.689,75	40.422,48	45.996,76	24.573,46
	DI			2.050,00	1.000,00	1.050,00	0,00	0,00	0,00	0,00
	DTIC			35.152,87	160,87	1.394,64	330,12	33.267,24	34.462,95	24.258,90
	UnO - DEN			19.146,14	9.440,30	2.180,96	1.359,63	6.165,24	11.533,82	314,56
	UEFA - DLA			6.929,84	2.861,62	4.068,21	0,00	0,00	0,00	0,00
	UMA - DTEETN			1.036,35	46,35	0,00	0,00	990,00	0,00	0,00
	UJCRU-DRU			0,00	0,00	0,00	0,00	0,00	0,00	0,00
C	<i>Expenses to elaborate PFS, FS, other studies for investment objectives, including expenses necessary to obtain the law-provided permits, licenses and agreements:</i>			4.032,43	981,43	1.495,00	573,90	982,10	3.625,98	8.597,66
	Investment Department Bacau			97,00	0,00	0,00	1,50	95,50	10,00	0,00
	Investment Department Bucharest			32,00	1,00	0,00	20,00	11,00	562,79	175,00
	Investment Department Cluj			225,50	0,00	0,00	0,00	225,50	393,00	100,00
	Investment Department Constanta			0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Investment Department Craiova			50,10	0,00	0,00	0,00	50,10	378,40	0,00
	Investment Department Pitesti			151,40	0,00	80,00	71,40	0,00	0,00	0,00
	Investment Department Sibiu			1.036,00	0,00	250,00	186,00	600,00	876,79	0,00

National Power Grid Transelectrica, managed under two tier system

Pozitia în PAI 2023	Denumire obiectiv de investiție	Approval deed	Project estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
					QUARTER I	QUARTER II	QUARTER III	QUARTER IV	2024	2025
	Investment Department Timisoara			340,00	5,00	165,00	170,00	0,00	1.405,00	490,00
	Executive branch, of which:			2.100,43	975,43	1.000,00	125,00	0,00	0,00	7.832,66
	DI			1.825,00	700,00	1.000,00	125,00	0,00	0,00	0,00
	DTIC			0,00	0,00	0,00	0,00	0,00	0,00	7.832,66
	DAESDAFE			207,45	207,45	0,00	0,00	0,00	0,00	0,00
	DIClas			67,98	67,98	0,00	0,00	0,00	0,00	0,00
D	<i>Expenses of expertise, design, technical assistance for technological trials, tests, submission to beneficiary and execution regarding consolidations & interventions to prevent or remove effects of accidental</i>			1,00	0,00	0,00	0,00	1,00	1,00	2.347,15
	Investment Department Bucharest			1,00	0,00	0,00	0,00	1,00	1,00	2.347,15
122	UTT Bucharest: - Reinforcement of the foundation of terminal no. 61 of the 220(400) kV Brazi Vest -Teleajen LEA	Dec. Dir. 32 / 07.01.2021 NC 5878 10.02.2017	2.349,15	1,00	0,00	0,00	0,00	1,00	1,00	2.347,15
E	<i>Drilling, land mapping, photogrammetry, seismologic determinations, consultance and other investment expenses not found in the other investment categories:</i>			478,58	168,00	0,34	0,00	310,24	0,00	0,00
	Other expenditure considered investment, of which :									
	EXECUTIVE DIVISIONS - UnO DEN			310,24	0,00	0,00	0,00	310,24	0,00	0,00
123	Soundproofing systems in UNO - DEN	NF 41995 / 01.10.2021 Assumed UnO	310,24	310,24				310,24	0,00	0,00
	Operation, Maintenance and RET Development Division - TOTAL - of which:			168,34	168,00	0,34	0,00	0,00	0,00	0,00
124	Replacement of circuit breakers in electrical substations stage II			168,34	168,00	0,34	0,00	0,00	0,00	0,00
	MP:	NF 51646 /06.12.2019		0,34	0,00	0,34	0,00	0,00	0,00	0,00
	Sibiu Investment Department:	D. Dir nr 884_28.07.22	2.518,41	1,00	1,00	0,00	0,00	0,00	0,00	0,00
	Constanța Investment Department:			167,00	167,00				0,00	0,00
F	<i>Expenses of expertise, design, technical assistance for technological trials and tests, submission to beneficiary and execution regarding capital repairs, and other investment categories, except for those included at let. d), as defined by applicable legislation, including the necessary expenses to obtain the law-provided permits, licenses and agreements</i>			0,00	0,00	0,00	0,00	0,00	0,00	0,00

National Power Grid Transelectrica, managed under two tier system

THE COMPANY'S INVESTMENT PROGRAMME FOR 2023 AND THE ESTIMATED INVESTMENT EXPENDITURES FOR 2024 AND 2025 - proposal

Chapter III - "OTHER INVESTMENT EXPENSES" :

b) List of independent endowments (technological)

(thousand Lei, VAT excluded)

Position in PAI 2023	Name / Branch; Division; Compartment	Quant. . .	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
						Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
	TOTAL GENERAL				66.501,93	14.213,82	8.915,69	2.006,35	41.366,07	46.570,96	24.573,46
	<i>Territorial Transmission Units</i>				2.171,93	704,67	207,07	316,60	943,59	574,20	0,00
III.B.1	Investment Department Bacau				1.009,91	283,31	3,00	5,10	718,50	574,20	0,00
5	Technological endowments				1.009,91	283,31	3,00	5,10	718,50	574,20	0,00
5.1	Batteries for the UTT Bacau headquarters power supply system	4	NF 15974 / 19.04.2022 NF 40923 / 15.10.2020	89,11	89,11	89,11	0,00	0,00	0,00	0,00	0,00
5.2	Snow milling machine	1	NF 11882 / 19.10.2021 Assumed UTT Bc	14,00	14,00	14,00	0,00	0,00	0,00	0,00	0,00
5.3	Video conferencing webcam system	1	NF 11814 / 18.10.2021	4,20	4,20	4,20	0,00	0,00	0,00	0,00	0,00
5.4	Air conditioners (12000 BTU - 9 buc; 18000 BTU - 10 buc; 24000 BTU - 6 buc)	25	NF 11874 / 19.10.2021 Assumed UTT Bc	176,00	176,00	176,00	0,00	0,00	0,00	0,00	0,00
5.5	Air conditioners - 1 piece		Assumed UTT Bc	3,00	3,00		3,00				
5.6	Professional air conditioners 24000 BTU	1	NF 45503 / 15.11.2022	79,50	79,50	0,00	0,00	0,00	79,50		
5.7	Video Wall for CTSI control room equipment	3	NF 45498 / 15.11.2022	599,00	599,00					599,00	
5.8	Power supply systems for telecommunication cameras	1	NF 45498 / 15.11.2022	574,20	0,00	0,00	0,00	0,00	0,00	574,20	
5.9	Video projector	6	NF UTT Bacau 10142/12.09.2022	5,10	5,10	0,00	0,00	5,10	0,00		
5.10	UPS sources	1	NF UTT Bacau 10142/12.09.2022	40,00	40,00	0,00	0,00	0,00	40,00		
III.B.2	Bucharest Investment Department				0,00	0,00	0,00	0,00	0,00	0,00	0,00
III.B.3	Cluj Investment Department				526,45	421,36	0,00	0,00	105,09	0,00	0,00
5	Technological endowments				526,45	421,36	0,00	0,00	105,09	0,00	0,00
5.11	220 V accumulator battery for 220/110 kV Tihau station	1	NF 3382 / 14.04.2022 NF 4918 / 17.06.2021; NF 39414 / 17.09.2024	201,64	201,64	201,64	0,00	0,00	0,00	0,00	0,00
5.12	110 kVA mobile generator set at Baia Mare CE	1	NF 55874 / 12.12.2022	105,09	105,09	0,00	0,00	0,00	105,09		
5.13	220 V accumulator battery for 220/110/20 kV Floresti substation	1	NF 3357 / 13.04.2022; NF 39414 / 17.09.2024	219,72	219,72	219,72	0,00	0,00	0,00	0,00	0,00
III.B.4	Constanta Investment Department				0,00	0,00	0,00	0,00	0,00	0,00	0,00
III.B.4	Craiova Investment Department				0,00	0,00	0,00	0,00	0,00	0,00	0,00
III.B.5	Pitesti Investment Department				0,00	0,00	0,00	0,00	0,00	0,00	0,00
III.B.6	Sibiu Investment Department				204,07	0,00	204,07	0,00	0,00	0,00	0,00

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Name / Branch; Division; Compartment	Quant. .	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
						Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
5	Technological endowments				204,07	0,00	204,07	0,00	0,00	0,00	0,00
5.14	Purchase and installation of air-conditioning units in UTT Sibiu facilities	55	NF 10361 / 15.09.2021 Asumat UTT sibiu	233,67	193,61	0,00	193,61	0,00	0,00		
5.15	Digital soldering/unsoldering station - 1 pc.	1	NF 11168 / 27.09.2022		10,46		10,46				
III.B.7	Timisoara Investment Department				431,50	0,00	0,00	311,50	120,00	0,00	0,00
5	Technological endowments				431,50	0,00	0,00	311,50	120,00	0,00	0,00
5.16	Guard booth	10	NF nr 43499 / 16.09.2022	150,00	150,00	0,00	0,00	150,00	0,00	0,00	0,00
5.17	Motor mowers	11	NF nr 46130 / 14.11.2022	71,50	71,50	0,00	0,00	71,50	0,00	0,00	0,00
5.18	Forklift	1	NF nr 52988 / 14.11.2022	120,00	120,00				120,00		
5.19	Electrical short-circuit conveyors and station operating materials	9	NF nr 52987 / 14.11.2022	90,00	90,00			90,00			
	Executive				64.330,00	13.509,15	8.708,62	1.689,75	40.422,48	45.996,76	24.573,46
III.B.8	INVESTMENT DIVISION				2.050,00	1.000,00	1.050,00	0,00	0,00	0,00	0,00
5	Technological endowments				2.050,00	1.000,00	1.050,00	0,00	0,00	0,00	0,00
5.20	110 kV, 220 kV and 400 kV mobile switchgear	7	NF 39080 / 25.10.2017; RN 42230 / 09.11.2017	21.667,00	2.050,00	1.000,00	1.050,00	0,00	0,00	0,00	0,00
III.B.9	DM OMEPA				14,80	0,00	14,80	0,00	0,00	0,00	0,00
5	Technological endowments				14,80	0,00	14,80	0,00	0,00	0,00	0,00
5.21	Two remote terminals for monitoring OMEPA online systems operation	2	NF 53975 / 10.11.2022	14,80	14,80	0,00	14,80	0,00	0,00		
III.B.9	DTIC				35.152,87	160,87	1.394,64	330,12	33.267,24	34.462,95	24.258,90
2	Computation technique & software				35.152,87	160,87	1.394,64	330,12	33.267,24	34.462,95	24.258,90
2.1	Computing - Hardware and Software - Laptop PC	312	NF 25921 / 07.06.2022; NF 51074 / 15.12.2020	1.394,64	1.394,64	0,00	1.394,64	0,00	0,00	0,00	0,00
2.2	Transelectrica Private Cloud Expansion		NF 37891 / 11.08.2022; NF 1725 / 12.01.2022 Asumat	3.919,05	0,00	0,00	0,00	0,00	0,00	3.919,05	0,00
2.3	Back-up & Restore System		NF 49602 / 22.12.2017	6.285,00	0,00	0,00	0,00	0,00	0,00	6.285,00	0,00
2.4	Plotter	1	NF 35473/07.09.2020	50,00	50,00	50,00	0,00	0,00	0,00	0,00	0,00
2.5	reMarkable 2 Digital Agenda type devices with included accessories (chargers, electronic pencils and pen tip refills) or equivalent	34	NF 55516/12.12.2022	110,87	110,87	110,87	0,00	0,00	0,00	0,00	0,00
2.6	Web Portal	1	NF 46425 / 05.11.2021 Asumat DTIC	8.670,67	8.670,67	0,00	0,00	0,00	8.670,67	0,00	0,00
2.7	MCA - WEB application managed by CNTEE Transelectrica SA		NF 48987 / 09.11.2021 Asumat DTIC cf rezol. Dir 44451/13.10.2021	69,12	59,34	0,00	0,00	0,00	59,34	0,00	0,00
2.8	WI FI system extension with own network and internet access		NF 14743 / 08.04.2022; NF 47788/ 2021 Asumat	330,12	330,12	0,00	0,00	330,12	0,00	0,00	0,00
2.9	Upgrade of the electronic messaging system within CNTEE Transelectrica SA		NF 54653 / 29.11.2022	24.537,24	24.537,24	0,00	0,00	0,00	24.537,24	0,00	0,00

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Name / Branch; Division; Compartment	Quant. .	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
						Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
2.10	Private Cloud communications network and new EDC SCADA communications solution		NF 43578 / 26.09.22	48.517,80	0,00					24.258,90	24.258,90
III.B.10	UnO-DEN			19.146,14	9.440,30	2.180,96	1.359,63	6.165,24	11.533,82	314,56	
2	Computation technique & software			17.715,62	9.321,37	1.549,40	1.359,63	5.485,22	11.533,82	314,56	
2.11	Replacement of hardware components, update and development of specific applications of the Balancing Market Platform - II DAMAS, Component - purchase of migration and upgrade services for specific applications of the Balancing Market for the DAMAS IT platform		RN 41969 / 19.10.2020 RN 34665 / 03.09.2020 NC 11529 / 31.03.2020 NF 42812 / 17.10.2019	11.588,50	8.111,74	8.111,74	0,00	0,00	0,00		
2.12	Implementation of new functions and software changes in the EMS - SCADA information system for the implementation of European and national legislative requirements		RN 53936 / 08.12.2021; NF 8727 / 03.03.2020	6.657,75	4.438,52	1.109,63	1.109,63	1.109,63	1.109,63	2.219,26	
2.13	Dedicated software development needed to determine the quantities of reserves using the probabilistic method		NF 42281 / 29.09.21 Asumat UnO DEN	9.000,00	0,00	0,00	0,00	0,00	0,00	9.000,00	
2.14	MARI platform development		NF 24580 / 18.06.2021	2.081,65	600,00	100,00	0,00	0,00	500,00	284,56	284,56
2.15	CMM platform development		NF 24578 / 18.06.2021	377,05	250,00	0,00	0,00	250,00	0,00	30,00	30,00
2.16	Completion of CNTEE Transelectrica SA's communication infrastructure, necessary for the functioning of the Company's private cloud hardware structure, to ensure the implementation and operation of the new Balancing Market platform - DAMAS		NF 58502 / 12.12.2022	439,77	439,77		439,77	0,00	0,00		
2.17	Off-line program for individual network modelling, steady state calculation, cross-border capacity calculation, including CGMES conversion module (according to ENTSO-E requirements), for scheduling and planning of SEN operation over various time horizons		NF nr. 46021_06.10.2022	1.433,36	1.433,36				1.433,36		
2.18	Program for off-line calculation of short-circuit currents, verification of protection settings, determination of system equivalents and simulation of fault scenarios in electrical networks		NF nr. 48311_17.10.2022	2.442,23	2.442,23				2.442,23		
5	Technological endowments			1.430,51	118,93	631,56	0,00	680,02	0,00	0,00	
5.22	Equipping the training room and DTS within UNO - DEN		NF 49316 / 10.11.2021 Asumat UnO DEN; NF 11037 / 15/03/2021;	680,02	680,02				680,02		
5.23	Professional air conditioners for the electrical supply rooms, telecommunication rooms and control rooms in the DET - urile Bacau, Cluj, Craiova and Timișoara		NF 41996 / 01.10.2021 Asumat UnO DEN	631,56	631,56		631,56				
5.24	Carpeting for heavy traffic for DETs in Bacau, Bucharest, Cluj and Craiova		NF nr 52337 / 03.11.2022	118,93	118,93	118,93	0,00	0,00	0,00		
III.B.11	UEFA-DLA			6.929,84	2.861,62	4.068,21	0,00	0,00	0,00	0,00	

National Power Grid Transelectrica, managed under two tier system

Position in PAI 2023	Name / Branch; Division; Compartment	Quant. .	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
						Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
1	Means of transport				4.068,21	0,00	4.068,21	0,00	0,00	0,00	0,00
1.1	Motor vehicles	41	NF 35420 / 27.07.2022; NF 49328 / 10.11.2021	4.068,21	4.068,21	0,00	4.068,21	0,00	0,00	0,00	0,00
5	Technological endowments				2.861,62	2.861,62	0,00	0,00	0,00	0,00	0,00
5.25	VRF/VRV type air-conditioning installations for the office premises of UNO DEN located at 16-18 Hristo Botev Street	4	RN 18525/02.05.2022 NJ 18522/19.04.2022 NF 38818 / 22.09.2021; NF 37180 / 24.09.2020	2.573,16	2.573,16	2.573,16	0,00	0,00	0,00	0,00	0,00
5.26	Air conditioners in the electro supply room of UnO DEN located at 16-18 Hristo Botev Boulevard	4	NF 22014 / 17.05.2022	288,46	288,46	288,46	0,00	0,00	0,00	0,00	0,00
III.B.13	UMA-DTEETN				1.036,35	46,35	0,00	0,00	990,00	0,00	0,00
2	Computation technique and software				990,00	0,00	0,00	0,00	990,00	0,00	0,00
2.19	Pilot project "DigiTEL – Smart Vision" – Increasing safety for operation & maintenance activities of substation Domnesti by means of digital technologies		NF 37450/31.08.2021	990,00	990,00				990,00		
5	Computation technique & software				46,35	46,35	0,00	0,00	0,00	0,00	0,00
5.27	Surveying and computing equipment (hardware and software), of which:	1 set	NF 28572 / 21.07.2021	46,35	46,35	46,35	0,00	0,00	0,00	0,00	0,00
	- Upgrade Global Mapper - 1 license			25,73	25,73	25,73					
	- laptop - 1 assembly			14,00	14,00	14,00					
	- Upgrade Global Mapper - 1 licence			6,62	6,62	6,62	0,00	0,00	0,00		

National Power Grid Transelectrica, managed under two tier system

**THE COMPANY'S 2023 INVESTMENT PROGRAMME
AND ESTIMATED INVESTMENT EXPENDITURE FOR 2024 AND 2025 - proposal**

Chapter III - "OTHER INVESTMENT EXPENDITURE" :

c) Expenditure for the preparation of SPF, SF, other studies related to investment objectives (List of studies)

(thousand Lei, VAT excluded)

Pos. PAI 2023	Name	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
					Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
C.	Expenses to elaborate PFS, FS, other studies - TOTAL, of which:			4.032,43	981,43	1.495,00	573,90	982,10	3.625,98	8.597,66
C.1	Investment Department Bacau			97,00	0,00	0,00	1,50	95,50	10,00	0,00
77	Replacing auxiliary service transformers TSI 2, TSI 3 & TSI 4 of the 400/220/110/20 KV substation Suceava	NC 41467 / 29.09.2021	20,00	2,00	0,00	0,00	1,50	0,50	8,00	0,00
78	Arrangement of the network of concrete access roads to the transformer units in Gutinăș substation	NF 45495 / 15.11.2022	20,00	20,00	0,00	0,00	0,00	20,00	0,00	
79	Building providing insurance spaces for operating staff in emergency situations, storage of spare equipment, document archiving in Bacău South station	NF 10260 / 15.09.2022	75,00	75,00	0,00	0,00	0,00	75,00	0,00	
80	HV and Trafo replacements in electric stations (stage 3): HV Suceava, HV 2 FAI and HV 1 Dumbrava	NC 51379/01.11.2022; NC 51380/01.11.2022; NC 51381/01.11.2022	2,00	0,00					2,00	
C.2	Investment Department Bucharest			32,00	1,00	0,00	20,00	11,00	562,79	175,00
81	Upgrading in order to reduce the effects of galloping on the 220 KV Bucuresti Sud - Ghizdaru 1+2 and on the 220 KV Mostisea shunt	NC13498/13.09.2019	1,00	1,00	1,00	0,00	0,00	0,00	0,00	0,00
82	Upgrade of protection control command system in 220/110/20KV Targoviste substation	NJ 5697/11.02.2021; NC 35920 / 29.08.2018	183,00	10,00	0,00	0,00	10,00	0,00	173,00	0,00
83	Upgrade of SCADA control system in 400/110/20 kV Gura Ialomitei substation	NC 12626 / 22.03.2021	194,00	1,00	0,00	0,00	0,00	1,00	10,00	175,00
84	Smart Grid Pilot Project Implementation of a Smart-grid solution for the use of renewable energy and storage to provide a backup power solution for domestic services - Brazi West 400/220/110 kV Station	NJ 29312 / 28.07.2020 Dec. ST Buc. 384 / 16.10.2018 NF 11589/24.03.2015	203,88	10,00	0,00	0,00	10,00	0,00	193,88	0,00
85	Upgrade of the command, control, protection and automation system in the 400/220/110 kV Bucharest South substation	NC 26405/23.06.2021	195,92	10,00	0,00	0,00	0,00	10,00	185,92	0,00
C.3	Investment Department Cluj			225,50	0,00	0,00	0,00	225,50	393,00	100,00
86	SCADA upgrade in the 400/110/20 kV station Oradea South	RN 3851 / 02.02.2021; NC 40413 / 04.10.2018	164,00	1,00	0,00	0,00	0,00	1,00	0,00	0,00
87	Upgrade of the protection control system in 400/220 kV Roșiori substation	NC 20683/21.05.2021	164,00	36,00	0,00	0,00	0,00	36,00	100,00	0,00
88	Installation of AT1 - 400 MVA, 400/220 kV in 400/220 kV Roșiori substation	NC 17239/04.05.2021	164,00	56,00	0,00	0,00	0,00	56,00	108,00	0,00
89	Installation of burglary protection system, closed-circuit video surveillance, access control and fire detection at CE Cluj headquarters and UTT Cluj warehouse	NC 17702/29.04.2021	25,00	1,00	0,00	0,00	0,00	1,00	0,00	0,00

National Power Grid Transelectrica, managed under two tier system

Pos. PAI 2023	Name	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
					Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
90	Upgrading of exterior and perimeter lighting in the 400/110/10 kV Cluj East substation	NC 8525/01.11.2021 - Assumed UTT Cluj	71,50	71,50	0,00	0,00	0,00	71,50	0,00	0,00
91	Replacement of outdoor three-pole automatic circuit breaker and synchronization device in 400kV cell 100MVAr compensation coil in 400/110/20 kV station Oradea Sud	NC 30612 / 05.07.2022	75,00	30,00	0,00	0,00	0,00	30,00	45,00	0,00
92	Replacement of Trafo 1 - 40 MVA, 110/10 kV and Trafo 7 - 250 MVA, 400/110 kV in the 400/110/10kV Cluj East station	NC 33957 / 25.07.2022 NC 33955 / 25.07.2022;	270,00	30,00	0,00	0,00	0,00	30,00	140,00	100,00
C.4	Investment Department Craiova			50,10	0,00	0,00	0,00	50,10	378,40	0,00
93	Upgrade of 400/220/110 kV Urechești substation	NC 49142/10.11.2021 Assumed UTT Cr	380,00	50,00	0,00	0,00	0,00	50,00	330,00	0,00
94	Upgrade of the power supply system of the UTT and CTSI building	NC 39545/14.09.2021	48,50	0,10	0,00	0,00	0,00	0,10	48,40	0,00
C.5	Investment Department Pitesti			151,40	0,00	80,00	71,40	0,00	0,00	0,00
95	Upgrade of the 220/110 kV Stuparei substation building	NOTA 40589 / 17.09.2021; NC 14657 / 06.04.2021	50,00	50,00	0,00	40,00	10,00	0,00	0,00	0,00
96	Upgrade of the heating/cooling and hot water preparation installation in the building of UTT Pitesti - 25 B Fratii Golesti Street and administrative building 192 Republicii Street	NC 8960/24.09.2021 Assumed UTT Pitesti	50,00	50,00	0,00	40,00	10,00	0,00	0,00	0,00
97	Upgrade of the lighting system in the UTT Pitesti building - 25 B Fratii Golesti street and administrative building in 192 Republicii Boulevard	NJ 35396 / 27.07.2022; NC 9076/27.09.2021 Assumed UTT Pitesti	35,45	35,40	0,00	0,00	35,40	0,00	0,00	0,00
98	Installation of anti-galloping devices to mitigate the effects of galloping active conductors on the 400 kV Slatina - Drăgănești Olt and 220 kV d.c. Slatina - Grădiște LEA	NC 15870 / 05.04.2022; NC 574/17.01.2022 Assumed UTT Pitesti	1,00	1,00	0,00	0,00	1,00	0,00	0,00	0,00
99	Collection of rainwater passing through the oil separators of the 220/110/20 kV Stuparei station	NF 40562/ 09.09.2022 NC in curs de aprobat	15,00	15,00	0,00	0,00	15,00	0,00	0,00	0,00
C.6	Investment Department Sibiu			1.036,00	0,00	250,00	186,00	600,00	876,79	0,00
100	Upgrade of Sibiu South station building	NC 8382/ 23.01.2018	91,00	91,00			91,00			
101	Upgrade of 220/110/20kV Fântânele substation	NC (TEL) 23474 / 15.06.2021 NC (TEL) 135623 / 28.09.2017	275,00	275,00	0,00	150,00	0,00	125,00		
102	Upgrade of communication network and IT buildings ST Sibiu	NF 9385 / 02.09.2015	75,00	35,00	0,00	0,00	35,00	0,00	40,00	
103	Upgrade of the control, protection and automation system in the 400/220/110/20kV station Sibiu South	NF (TEL) 10464 / 22.03.2017	200,00	200,00	0,00	100,00	0,00	100,00		
104	Increasing the transmission capacity of the 220 kV Fantanele-Ungheni line	NC (TEL) 37284 / 22.08.2022	870,00	300,00	0,00	0,00	0,00	300,00	570,00	
105	Replacement of 220 Vdc batteries 1 and 2 in 220/110/20 kV station Gheorgheni	NC 46411 /14.11.2022	10,00	5,00	0,00	0,00	0,00	5,00	5,00	
106	Upgrade of the old control building in the 400/110 kV Brasov substation	NC 46413 /14.11.2022	179,00	30,00	0,00	0,00	30,00	0,00	149,00	

National Power Grid Transelectrica, managed under two tier system

Pos. PAI 2023	Name	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
					Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
107	Upgrade of the control building, 220/110 kV internal services building and 6 kV connections building of the 400/220/110/6 kV Lemut transformer station	NC 50604 /11.11.2022	62,79	30,00	0,00	0,00	30,00	0,00	32,79	
108	Replacement of station fencing and access regulation in 400/110 kV Brasov station	NC 10331 / 14.09.2021. Assumed UTT Sibiu	60,00	30,00	0,00	0,00	0,00	30,00	30,00	
109	Construction of a concrete platform in the old 400 kV Brasov station and landscaping	NC 10330 / 14.09.2021. Assumed UTT Sibiu	90,00	40,00	0,00	0,00	0,00	40,00	50,00	
C.7	Investment Department Timisoara			340,00	5,00	165,00	170,00	0,00	1.405,00	490,00
110	Refurbishment of the 110 kV Arad substation and the transition to 400 kV voltage of the Portile de Fier - Anina - Reșița - Timișoara - Săcălaz - Arad axis. 400 kV Arad station (stage III)	RN 17589 / 22.04.2021; NF (TEL) 39531 / 13.11.2014	655,00	300,00	0,00	150,00	150,00	0,00	355,00	0,00
111	Refurbishment of the 110 kV Săcălaz substation and the transition to 400 kV voltage of the Portile de Fier - Anina - Reșița - Timișoara - Săcălaz - Arad axis. 400 kV Săcălaz station, (stage III)	NC (TEL) 2414 / 05.04.2021; NF (TEL) 8369 / 01.10.2012	150,00	5,00	0,00	5,00	0,00	0,00	5,00	45,00
112	Upgrade of the protection control system in 220 kV Paroșeni substation	NC 873 / 25.01.2018	184,35	5,00	0,00	0,00	5,00	0,00	100,00	80,00
113	Upgrade of the protection control system in the 220/110 kV Pestiș substation	NC (TEL) 52026 / 17.12.2018	325,00	5,00	0,00	0,00	5,00	0,00	200,00	120,00
114	Shaft reconductoring 220 kV Urechești - Târgu Jiu North - Paroșeni - Baru Mare - Hăsdat LEA	NC(TEL) 34269 / 24.08.2021	350,00	5,00	0,00	0,00	5,00	0,00	50,00	100,00
115	Replacement of teleprotection by optical fiber LEA 400 kV Arad (Romania) -Sandorfalva (Hungary)	NC 10934/23.03.2022	300,00	10,00	0,00	10,00	0,00	0,00	290,00	0,00
116	Reconductoring and rehabilitation of the 220 kV d.c. Portile de Fier - Reșița LEA	NC (TEL) 26439 / 16.06.2022	360,00	5,00	0,00	0,00	5,00	0,00	255,00	100,00
117	Replacement of pole type PASC 400109 - 5.3 SBC M3 at terminal no. 235 of the 400 kV Mintia - Arad LEA	NC (TEL) 26437 / 10.06.2022	200,00	5,00	5,00	0,00	0,00	0,00	150,00	45,00
C.8	Company's Executive part			2.100,43	975,43	1.000,00	125,00	0,00	0,00	7.832,66
	DI			1.825,00	700,00	1.000,00	125,00	0,00	0,00	0,00
118	Optimising voltage control and electricity quality parameters by installing FACTS type equipment in substations Gutinăș, Suceava & Roșiori	NC 16593 / 26.04.2021	1.825,00	1.825,00	700,00	1.000,00	125,00	0,00	0,00	0,00
	DTIC			0,00	0,00	0,00	0,00	0,00	0,00	7.832,66
119	Developing the IT&C capabilities of CNTEE Transelectrica SA – Infrastructure, processes, competences	NC 19117 / 06.05.2021; NC-66/23.01.2020 NC-0452 /01.04.2019	7.832,66	0,00	0,00	0,00	0,00	0,00	0,00	7.832,66
	DAESDAFE			207,45	207,45	0,00	0,00	0,00	0,00	0,00
120	Optimization of voltage regulation and power quality parameters by installing FACTS equipment in Gutinăș, Suceava and Roșiori stations - Consultancy services for obtaining the non-reimbursable financing related to the CARMEN project (Carpathian Upgrade of Energy Network)	NOTE DTEETN 4896 / 15.02.2022	372,75	207,45	207,45	0,00	0,00	0,00	0,00	0,00

National Power Grid Transelectrica, managed under two tier system

Pos. PAI 2023	Name	Act of approval	Estimated value	PAI 2023 Var. 2	Quarterly spread-out - E				Estimated value	
					Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
	DIClas			67,98	67,98	0,00	0,00	0,00	0,00	0,00
121	Implementing physical security measures in the areas where classified information is managed		67,98	67,98	67,98					

National Power Grid Transelectrica, managed under two tier system

THE COMPANY'S INVESTMENT PROGRAMME FOR 2023 AND THE ESTIMATED INVESTMENT EXPENDITURES FOR 2024 AND 2025 - proposal

ii. INVESTMENT EXPENSES FINANCED FROM THE CONNECTION FEE

Pos. PAI 2023	UTT	Name of investment objectives	PAI 2023 Var. 2	Quarterly spread-out - E				(thousand Lei, VAT excluded)	
				Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
1	SB	Connection to the RET of the generation site CCC 430 MW lernut belonging to SNGN ROMGAZ SA - SPEE lernut in the 400/220/110/6 kV lernut substation	150,00				150,00	0,00	0,00
2	CT	Execution of works in the 400/110/20 kV Tulcea West substation due to the modification of the 110 kV Tulcea West-Marmura LEA by replacing the shunt connection of the CEE Sălbatica 1 generation site having an installed power of 70MW with input-output connection - Replacement of SEL 311L relay in the 110kV Marmura LEA cell and integration in SCADA	137,50	137,50					
3	B	Contract for the connection of CEF Dănești production site to the public grid managed by CNTEE Transelectrica SA	2.355,24	0,00	0,00	0,00	2.355,24	0,00	0,00
4	SB	220 kV LEA diversion in Ampoi area Alba Iulia	4.810,16	4.810,16					
5	CJ	Connection to public interest electrical installations managed by CNTEE Transelectrica SA, in the 220/110/20 kV Vetus station, of the production site CEF Satu Mare 1 (65.018 MW), located in Satu Mare, Satu Mare County	2.186,75	186,75	500,00	500,00	1.000,00	0,00	0,00
			0,00						
TOTAL CHAPTER B			9.639,65	5.134,41	500,00	500,00	3.505,24	0,00	0,00

Colour legend:

New positions
Value increases
Decreases in values
Delete positions
Data updates



**PROGRAMUL DE INVESTIȚII AL COMPAÑIEI PE ANUL 2023
ȘI CHELTUIELILE DE INVESTIȚII ESTIMATE PENTRU ANII 2024 ȘI 2025 - propunere**

(mii lei, fără TVA)

Synthesis by ENTITIES	PAI 2023 Var. 2	Quarterly spread-out - E				Estimation of Investment plan:	
		Quarter I	Quarter II	Quarter III	Quarter IV	2024	2025
TOTAL GENERAL, of which:	465.964,61	99.045,67	89.890,59	94.915,84	182.112,51	780.162,04	713.188,74
TOTAL - INVESTMENT DIVISION, of which:	374.535,61	86.261,09	80.831,63	90.826,09	116.616,79	641.015,77	559.452,12
TOTAL DI - Project managers	339.256,59	74.315,00	74.190,35	82.335,00	108.416,24	581.267,66	480.144,04
TOTAL DI - Investment Department, of which:	35.279,01	11.946,09	6.641,28	8.491,09	8.200,55	59.748,11	79.308,08
<i>Investment Department Bacau</i>	<i>6.480,99</i>	<i>4.308,80</i>	<i>94,36</i>	<i>628,79</i>	<i>1.449,04</i>	<i>6.751,37</i>	<i>4.133,30</i>
<i>Investment Department Bucharest</i>	<i>1.086,32</i>	<i>50,32</i>	<i>8,00</i>	<i>635,00</i>	<i>393,00</i>	<i>19.969,89</i>	<i>55.939,72</i>
<i>Investment Department Cluj</i>	<i>7.647,46</i>	<i>635,61</i>	<i>550,00</i>	<i>2.500,00</i>	<i>3.961,85</i>	<i>1.314,55</i>	<i>205,00</i>
<i>Investment Department Constanta</i>	<i>3.140,16</i>	<i>759,20</i>	<i>975,00</i>	<i>920,90</i>	<i>485,06</i>	<i>515,00</i>	<i>215,00</i>
<i>Investment Department Craiova</i>	<i>887,45</i>	<i>1,00</i>	<i>419,85</i>	<i>0,00</i>	<i>466,60</i>	<i>3.383,51</i>	<i>15.210,06</i>
<i>Investment Department Pitesti</i>	<i>818,90</i>	<i>20,00</i>	<i>95,00</i>	<i>678,90</i>	<i>25,00</i>	<i>15.355,00</i>	<i>265,00</i>
<i>Investment Department Sibiu</i>	<i>12.561,23</i>	<i>5.911,16</i>	<i>3.994,07</i>	<i>1.846,00</i>	<i>810,00</i>	<i>943,79</i>	<i>0,00</i>
<i>Investment Department Timisoara</i>	<i>2.656,50</i>	<i>260,00</i>	<i>505,00</i>	<i>1.281,50</i>	<i>610,00</i>	<i>11.515,00</i>	<i>3.340,00</i>
TOTAL DIVISIONS, of which:	91.429,01	12.784,58	9.058,96	4.089,75	65.495,72	139.146,27	153.736,62
<i>Metering Division OMEPA</i>	<i>1.514,80</i>	<i>0,00</i>	<i>14,80</i>	<i>0,00</i>	<i>1.500,00</i>	<i>13.135,51</i>	<i>14.635,51</i>
<i>Information Technology and Communications Division</i>	<i>35.152,87</i>	<i>160,87</i>	<i>1.394,64</i>	<i>330,12</i>	<i>33.267,24</i>	<i>34.462,95</i>	<i>32.091,56</i>
<i>Operational Unit - National Power Dispatcher</i>	<i>19.456,38</i>	<i>9.440,30</i>	<i>2.180,96</i>	<i>1.359,63</i>	<i>6.475,48</i>	<i>11.533,82</i>	<i>314,56</i>
<i>UEFA - Logistic & Administrative Department</i>	<i>6.929,84</i>	<i>2.861,62</i>	<i>4.068,21</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>
<i>UMA - DTEETN</i>	<i>28.099,35</i>	<i>46,35</i>	<i>1.400,00</i>	<i>2.400,00</i>	<i>24.253,00</i>	<i>80.014,00</i>	<i>106.695,00</i>
<i>UMA - DEMD RET</i>	<i>0,34</i>	<i>0,00</i>	<i>0,34</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>
<i>Classified Information Department</i>	<i>67,98</i>	<i>67,98</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>
<i>Critical Infrastructures Department</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>
<i>Energy Markets Division</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>
<i>DAESDAFE</i>	<i>207,45</i>	<i>207,45</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>
<i>UJCRU-DRU</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>	<i>0,00</i>

NOTE: The values contain investment expenses financed from the connection fee

Director, Asset Management Unit
Cosmin – Mihai MONAC

Director, Investment Division
Dorinel Constantin VLADU

Manager, DMPI
Simona CHIRITĂ - Expert

Elaborated
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