

Asset Management Unit  
Investment Division

No. 3199/19.01.2022

## NOTE

### Regarding the Supervisory Board's verification of the 2022 Investment Plan of CNTEE Transelectrica SA and of investment expenses estimated for 2023 and 2024 in view of establishment by AGA

#### 1. The 2022 Investment Plan of CNTEE Transelectrica SA and investment expenses estimated for 2023 și 2024

The 2022 Investment Plan of CNTEE Transelectrica SA and the investment expenses estimated for 2023 and 2024 (PAI 2022) was elaborated by the Department of Investment Programme Management within UMA- Investment Division, based on the following issues:

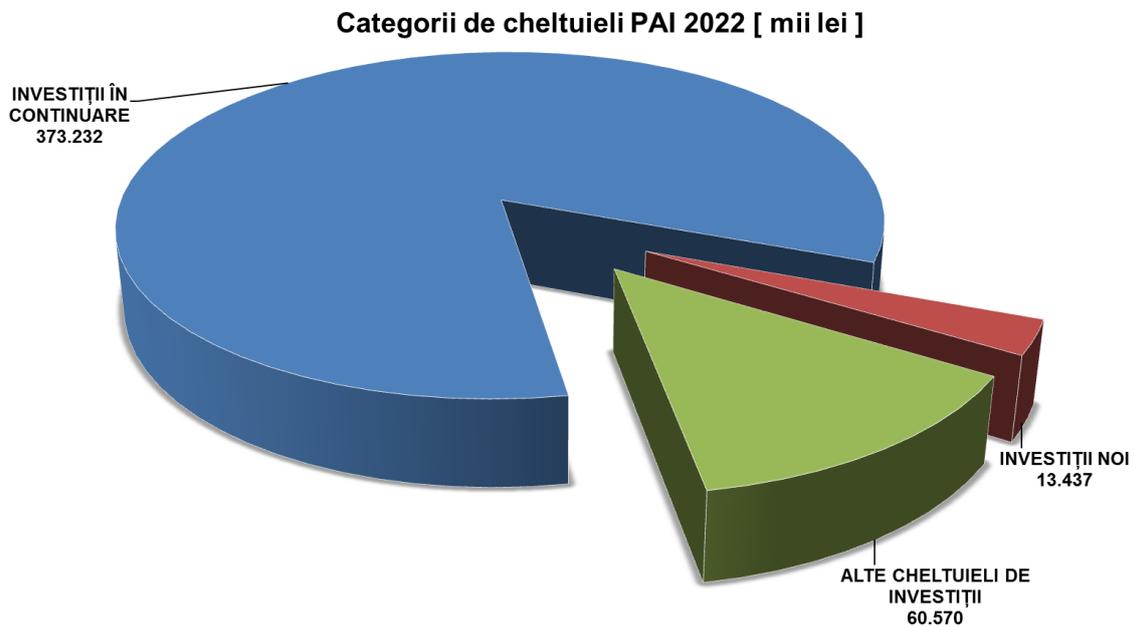
- Investment priorities established in RET's Development Plan - 2020 – 2029;
- Execution schedules of investment projects underway;
- Proposals received from the Investment Division and the entities within the executive part of CNTEE Transelectrica SA;

#### Structure of 2022 investment expenses and investment expenses estimated for 2023, 2024

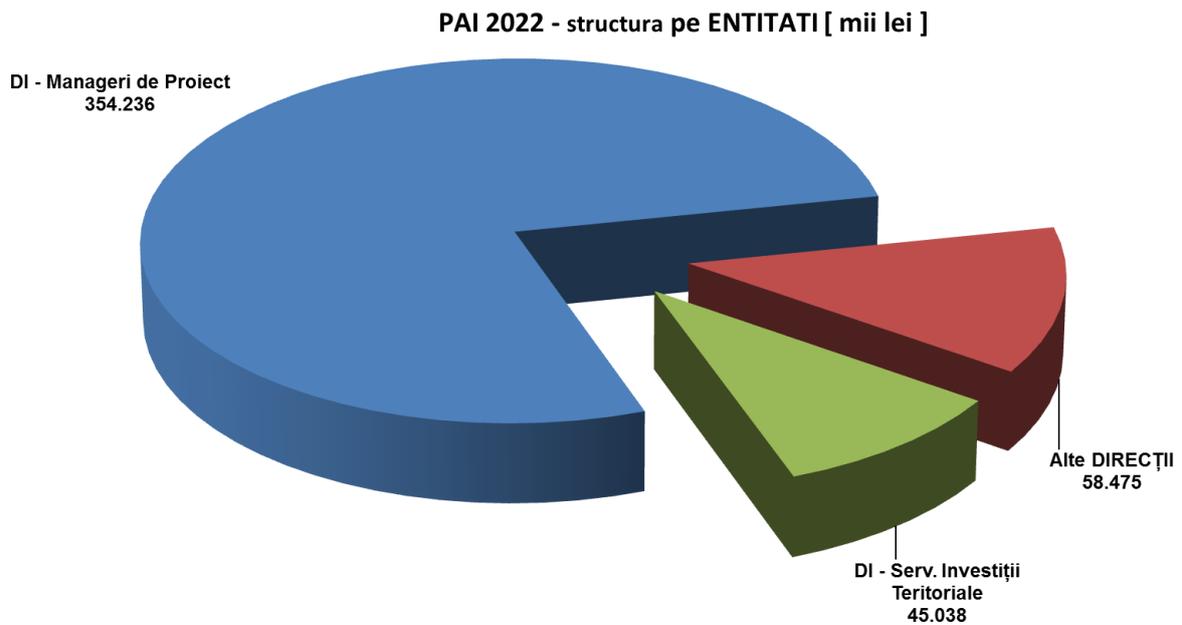
Thousand Lei				
No.	Categories of expenses	2022	2023	2024
	<b>Total general (A + B)</b>	<b>457,749</b>	<b>601,304</b>	<b>599,652</b>
<b>A</b>	<b>Company expenses</b>	<b>447,239</b>	<b>601,304</b>	<b>599,652</b>
<i>I</i>	<i>Further investments</i>	<i>373,232</i>	<i>349,113</i>	<i>313,525</i>
<i>II</i>	<i>New investments</i>	<i>13,437</i>	<i>226,088</i>	<i>282,944</i>
<i>III</i>	<i>Other investment expenses</i>	<i>60,570</i>	<i>26,104</i>	<i>3,184</i>
<b>B</b>	<b>Investment expenses financed from the connection fee</b>	<b>10.510</b>	<b>0</b>	<b>0</b>

The 2022 Investment plan and the estimation of 2023 & 2024 expenses are provided in detail in Annex 1.

## Structure of Company's investment expenses in 2022



## Total 2022 investment expenses structured by entities



## 2. Specifications about the major investment projects from PAI 2022

A. *The main major investment objectives which execution contracts were signed for in previous years and in 2022 are found in the execution work stage (investment further) structured according to the chapters of the Development Plan*

No.	Investment objective	Commissioning year
<b>RET refurbishment - 19 investment projects</b>		
1	Replacing autotransformers (AT) and transformers in electric substations, stage 2, phase 2	2022
2	Upgrading the 220/110/20 kV substation Arefu	2024
5	Upgrading the 220/110 kV substation Dumbrava	2023
6	Upgrading the 110 & 400 (220) kV installations of substation Focsani	2022
7	Upgrading the 110 kV substations Bacau Sud & Roman Nord of the 400 kV axis Moldova	2022
8	Refurbishing the 220/110/20 kV substation Ungheni	2022
9	Upgrading the 400 (220)/110/20 kV substation Munteni	2022
10	Refurbishing the 400/110/20 kV substation Smardan	2025
11	Refurbishing the 220/110 kV substation Hasdat	2022
12	Refurbishing the 220/110/ kV substation Iaz	2022
13	Refurbishing the 110 kV substation Medgidia Sud	2023
14	Refurbishing the 220/110/MT kV substation Baru Mare	2023
15	Refurbishing the 220/110 kV substation Filesti	2023
16	Upgrading the electric supply of UNO-DEN offices	2022
17	Refurbishing the 400/110 kV transformer substation Pelicanu	2025
18	Upgrading the 220/110/20 kV substation Vetis - primary equipment	2022
19	Procurement and installation of 21 monitoring systems for transformer units from the substations of CNTEE Treanselectrica SA	2024
<b>Safety of consumer supply – 1 investment project</b>		
20	Installing the 400 MVA, 400/231/22 kV AT2 and related bays in substation Iernut and upgrading the command control system of the 400/220/110/6 kV substation Iernut	2022

<b>Integrating the output from Dobrogea and Moldova – 2 investment projects</b>		
21	Connecting the 400 kV OHL Isaccea - Varna and the 400 kV OHL Isaccea - Dobrogea in the 400 kV substation Medgidia Sud – <i>stage I – Extending the 400 kV substation Medgidia</i>	2022
22	Increasing the transmission capacity of the 220 kV OHL Stejaru-Gheorgheni-Fantanele	2025
<b>Integrating the output of other areas – 1 investment project</b>		
23	The 220 kV double circuit OHL Ostrovu Mare - RET, <i>of which:</i> Stage II - Installing the protection conductor, OPGW to existent 220 kV OHL Portile de Fier I – Cetate circuit 1 + 2	2022
<b>Increasing the interconnection capacity – 8 investment projects</b>		
24	Extending the 400 kV substation Cernavoda - stage II - Connecting new lines	2023
25	Converting the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis to 400 kV - stage I - <i>the 400 kV simple OHL Portile de Fier - (Anina) - Resita</i>	2024
26	Converting the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis to 400 kV - stage I - <b>400/220/110 kV substation Resita</b>	2025
27	Refurbishing the 110 kV substation Timisoara and Converting the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage II: <i>the 400 kV substation Timisoara</i>	2025
28	The 400 kV substation Stalpu and Upgrading the 110 kV and medium voltage bays in the electric substation Stalpu	2024
29	The 400 kV double OHL Cernavoda-Stalpu and link in Gura Ialomitei	2023
30	Extending the 400 kV substation Gura Ialomitei by two 400 kV OHL bays: Cernavoda 2 & 3	2022
31	The 400 kV double circuit OHL Gutinas - Smardan	2025
<b>Other projects underway</b>		
32	Research & development centre for live work (LW) technologies and fast intervention into SEN - stage II	2022
33	Replacing circuit breakers in electric substations, stage II	2022

**The total value of further investments amounts to 373,232 thousand Lei, representing 83.45% of the Company's own investment expenses**

**B. Investment objectives with execution to begin in 2022 (new investments) amount to 13,437 thousand Lei, namely 3.00% of the Company's own investment expenses**

They are under various preparation stages before launching the work:

- **Documentation at the Commercial Division in various procurement procedure stages:**

No.	Investment objective
<b>RET refurbishment – 2 investment projects</b>	
1	Refurbishing the 400 kV substation Isaccea - stage II
2	Installing two modern means to compensate reactive power in the 400/220/110/20 kV substation Sibiu Sud and the 400/220/110/20 kV substation Bradu
<b>Safety of consumer supply – 1 investment project</b>	
3	Increasing supply safety in the Arges - Valcea network area, building the 400 kV substation Arefu and installing a 400 MVA, 400/220 kV AT
<b>Integrating the output from Dobrogea and Moldova – 1 investment project</b>	
4	Converting the 220 kV OHL Brazi Vest – Teleajen – Stalpu to 400 kV including Procurement of 400 MVA 400/220/20 kV AT and extension of the related 400 kV and 220 kV stations in the 400/220/110 kV substation Brazi Vest, of which: 1 - Extending substation Brazi Vest (including AT4) 2 - The 400 kV OHL Brazi Vest - Teleajen - Stalpu
<b>Integrating the output of other power plants - Other zones - 2 investment projects</b>	
5	The 220 kV double circuit OHL Ostrovu Mare – RET, stage I
6	The 220 kV substation Ostrovu Mare
<b>Other projects under procurement</b>	
7	Electricity data metering and management system on the wholesale market

- **In the design stage (obtaining permits, agreements, licenses), GD issuance to launch expropriation procedures:**

No.	Investment objective
<b>RET refurbishment - 2 investment projects</b>	
1	Pilot Project – Refurbishing the 220/110/20 kV substation Alba Iulia as digital substation

2	Upgrading the 220/110 kV substation Calafat
<b><i>Integrating the output from Dobrogea and Moldova and other zones - 2 investment projects</i></b>	
3	The 400 kV double OHL (1ce) Constanta Nord - Medgidia Sud
4	Converting the 220 kV OHL Brazi Vest – Teleajen – Stalpu to 400 kV: - <i>The 400 kV substation Teleajen and refurbishing the 110 kV substation</i>
<b><i>Increasing the interconnection capacity – 3 investment projects</i></b>	
5	The 400 kV OHL Gadalin - Suceava
6	Converting the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage II: <i>the 400 kV double circuit OHL Resita-Timisoara-Sacalaz</i>
7	Converting the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage III: - <i>The 400 kV OHL Timisoara – Arad</i> - <i>The 400 kV substation Arad</i> - <i>The 400 kV substation Sacalaz</i>
<b><i>Other projects under design</i></b>	
8	Power Quality Monitoring System, PQMS

Mention should be made 3 investment projects benefit of finance from European funds:

1. The 400 kV OHL cluster Cernavoda-Stalpu – 27.1 mill. EUR - by CEF;
2. The 400 kV OHL Smardan - Gutinas – 33.44 mill. EUR by FEDR-POIM
3. The 400 kV OHL Constanta Nord - Medgidia Sud – 22.9 mill. EUR by the Modernisation Fund (article 10(d) – Directive EU\_ETS)

Transelectrica proposed for Modernisation Fund financing other 11 investment projects, of which 7 are included with design or execution in the reference period of 2022 PAI, namely Converting the Portile de Fier - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stages II & III (4 projects), Converting the 220 kV OHL Brazi Vest – Teleajen – Stalpu to 400 kV, Increasing the transmission capacity of the 220 kV OHL Stejaru-Gheorghieni-Fantanele, the 400 kV OHL Gadalin-Suceava.

**3. The main risks that might impact the accomplishment of 2022 PAI are provided in value and percentage in annex 3.**

**A. External**

**Delays in contractors' work execution according to contractual schedules, caused mainly by certain contractors' poor financial circumstances,**

**The impact of such risks might be around 13.42% of the Company's 2022 expenses.**

**B. Internal (other causes) 2.70%**

**Under such constraints the Investment Plan (Company own expenses) will be achieved about 83.89%.**

**4. List of Foundation Notes and of Conceptual Notes assumed by entities included in the draft 2022 Annual Investment Plan (PAI 2022) subjected to approval in accordance with the Directorate resolution 44451/13.10.2021**

The 2022 Annual Investment Plan and estimations of the 2023 & 2024 investment expenses (PAI 2022) were elaborated by the Department of Investment Programme Management within the Investment Division, based on the proposals received from the Investment Division and the entities within CNTEE Transelectrica SA, being subjected to the Directorate's endorsement in view of CS verification and AGA approval / establishment.

The proposed new objectives included in PAI 2022 were accompanied by Conceptual or Foundation Notes for investments required to be included into 'Other investment expenses', such justificative documents being executed and assumed by applicant entities according to the Directorate's Resolution 926 / 30.09.2021.

These justificative documents are provided in the table below and annexed to this NOTE (Annex 2):

<b>No.</b>	<b>Pos. PAI 2022</b>	<b>ENTITY / Investment objective</b>	<b>NF, NC assumed by entity</b>	<b>TOTAL estimated value [thous Lei]</b>
<b>DTIC</b>				
1	2.4	Web Portal - 1 pc	NF 46425 / 05.11.2021 Assumed by DTIC	8,670.67
2	2.6	Router type equipment CPE (Customer Premises Equipment) - 2 pcs	NF 40118 / 15.09.2021 Assumed DTIC	149.90
3	2.7	MCA - WEB application managed by CNTEE Transelectrica SA	NF 48987 / 09.11.2021 Assumed DTIC	69.12
4	2.8	MENT - RET maintenance software and unitary database - BDU for the structures, installations, components and systems - SISC managed by CNTEE Transelectrica SA	NF 45359 / 22.10.2021 Assumed DTIC	210.60
5	2.9	Extending WI FI system access one's network and the internet	NF 47788/ 02.11.2021 Assumed DTIC	147.37
6	2.10	Upgrading the electronic messenger within CNTEE Transelectrica SA	NF 48062 / 03.11.2021 Assumed DTIC	9,200.00
7	5.20	Developing and upgrading Conference rooms in the Executive branch	NF 42312 / 29.09.2021 Assumed DTIC	1,900.00
<b>UnO DEN</b>				
8	2.13	Developing dedicate software, needed to determine reserve amounts using the probabilistic method	NF 42281 / 29.09.2021 Assumed by UnO DEN	9,000.00
9	5.21	Equipping the training room & DTS of UNO - DEN	NF 49316 / 10.11.2021 Assumed UnO DEN;	680.02
10	5.23	Professional air conditioning equipment for electric supply rooms, tele-communication rooms and control rooms of DET-s Bacau, Cluj, Craiova and Timisoara	NF 41996 / 01.10.2021 Assumed UnO DEN	631.56
11	125	Antiphon systems within UNO - DEN (FS, TP and execution)	NF 41995 / 01.10.2021 Assumed UnO DEN	310.24

<b>UEFA</b>					
12	1.1	Motor cars	- 42 pcs	NF 49328 / 10.11.2021 Assumed UEFA	3,300.00
<b>DEMDRET</b>					
13	127	Replacing circuit breakers in electric substations, stage III		NF 38514/2021 Assumed DEMDRET	1,800.37
<b>DPE</b>					
	2.19	IT Platform for capacity calculations		NF 50709 / 2021 Assumed DPE	1,240.00
<b>Investment Department Bacau</b>					
14	5.3	Motor scythe	- 1 pc.	NF 11883/19.10.2021 Assumed UTT Bacau	4.00
15	5.4	Motor mill for snow pc.	- 1	NF 11882 /19.10.2021 Assumed UTT Bacau	22.00
16	5.5	Web camera system for video conference	- 1 pc.	NF 11814/18.10.2021 Assumed UTT Bacau	4.20
17	5.6	Interactive video system	- 1 pc.	NF 11815/18.10.2021 Assumed UTT Bacau	4.50
18	5.7	Air conditioning appliances (1200 BTU - 9 pcs; 1800 BTU - 10 pcs; 2400 BTU - 6 pcs)		NF 11874 /19.10.2021 Assumed UTT Bacau	192.00
19	5.8	Coffee espresso	- 1 pc.	NF 11881 / 19.10.2021 Assumed UTT Bacau	4.00
<b>Investment Department Bucharest</b>					
20	89	Upgrade to diminish galloping effects to the 400 kV OHL Bucharest South – Gura Ialomitei		NC 6917/09.06.2020 Assumed UTT Buc	2,030.35
<b>Investment Department Cluj</b>					
21	97	Upgrading the outdoor & perimeter lighting in the 400/110/10 kV substation Cluj Est		NC 8525/01.11.2021 - Assumed UTT Cluj	330.00
<b>Investment Department Craiova</b>					
22	102	Upgrading the 400/220/110 kV substation Urechesi		NC 49142/10.11.2021 Assumed UTT Craiova	29,880.00
<b>Investment Department Pitesti</b>					
23	106	Installation for fire detection & warning in the 400/220/110 kV substation Slatina		NC 46577 / 26.10.2021 Assumed UTT Pitesti	105.91
24	107	Upgrading the heating / cooling installation and drinking hot water supply in the offices of UTT Pitesti – Str. Fratii Golesti 25 B and administrative building of Blvd Republicii 192		NC 8960/24.09.2021 Assumed UTT Pitesti	1,240.00
25	108	Upgrading the lighting system of offices UTT Pitesti – Str. Fratii Golesti 25 B and administrative building of Blvd Republicii 192		NC 9076/27.09.2021 Assumed UTT Pitesti	181.94
<b>Investment Department Sibiu</b>					
26	5.15	Procuring and installing air conditioning units in the installations of UTT Sibiu	- 55 pcs	NF 10361 / 15.09.2021 Assumed UTT Sibiu	233.67
27	5.16	Audio meter	- 1 pc	NF 9998 / 06.09.2021 Assumed UTT Sibiu	10.00
28	113	Replacing substation fencing and access regulation in the 400/110 kV substation Brasov		NC 10331 / 14.09.2021 Assumed UTT Sibiu	1,250.00

29	114	Making a concreted platform in the old 400 kV substation Brasov and land development	NC 10330 / 14.09.2021. Assumed UTT Sibiu	1,900.00
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## 5. Proposed decision

Taking into account the above and the provisions of article 21 para (1) let (b) from the Articles of Association of CNTEE Transelectrica SA, updated on 21.12.2020 by Decision 12/2020 of the Shareholders' General Extraordinary Assembly we request the Supervisory Board to verify the 2022 Investment Plan of CNTEE Transelectrica SA and the investment expenses estimated for 2023 & 2024 in view of their establishment by AGA.

### DIRECTORATE

**Chairman,  
Gabriel ANDRONACHE**

**Member,  
Florin - Cristian TATARU**

**Member,  
Stefanita MUNTEANU**

**Member,  
Catalin - Constantin NADOLU**

**Member,  
Marius - Viorel STANCIU**

**Director, Asset Management Unit  
Cosmin Mihai Monac**

**Director, Investment Division  
Dorinel Constantin Vladu**

**Elaborated,  
Manager, DMPI  
Silvia DAMIAN**

**Endorsed in terms of existent financing source**

**Director, UEFA  
Ana - Iuliana Dinu**

*Directorate Chairman*  
 Gabriel ANDRONACHE

*Directorate Member*  
 Florin - Cristian TĂTARU

*Directorate Member*  
 Ștefăniță MUNTEANU

*Directorate Member*  
 Cătălin - Constantin NADOLU

*Directorate Member*  
 Marius - Viorel STANCIU

THE COMPANY'S INVESTMENT PROGRAMME FOR 2022 AND THE ESTIMATED INVESTMENT EXPENDITURES FOR 2023 AND 2024 - proposal

Initial PAI 2022

(thousand Lei, VAT excluded)

No.	Expense categories	Initial PAI 2022	Spread-out, quarter				Estimation of investment Plan:	
			Quarter I	Q II	Q III	Q IV	2023	2024
	<b>INVESTMENT EXPENSES-TOTAL GENERAL (i+ii)</b>	<b>457,749</b>	<b>88,070</b>	<b>114,776</b>	<b>89,836</b>	<b>165,067</b>	<b>601,304</b>	<b>599,652</b>
<b>i</b>	<b>COMPANY OWN INVESTMENT EXPENSES (I+II+III)</b>	<b>447,239</b>	<b>77,681</b>	<b>114,656</b>	<b>89,836</b>	<b>165,067</b>	<b>601,304</b>	<b>599,652</b>
<i>I</i>	<i>FURTHER INVESTMENTS (I.A+I.B), of which:</i>	<b>373,232</b>	<b>73,029</b>	<b>103,933</b>	<b>78,526</b>	<b>117,743</b>	<b>349,113</b>	<b>313,525</b>
<i>I.A</i>	<i>Further major investments</i>	<b>372,880</b>	<b>72,912</b>	<b>103,708</b>	<b>78,516</b>	<b>117,743</b>	<b>349,113</b>	<b>313,520</b>
<i>I.B</i>	<i>Other further investments</i>	<b>352</b>	<b>117</b>	<b>225</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>5</b>
<i>II</i>	<i>NEW INVESTMENTS (II.A+II.B), of which:</i>	<b>13,437</b>	<b>1,102</b>	<b>1,771</b>	<b>1,461</b>	<b>9,103</b>	<b>226,088</b>	<b>282,944</b>
<i>II.A</i>	<i>Major new investments</i>	<b>9,056</b>	<b>265</b>	<b>1,210</b>	<b>270</b>	<b>7,312</b>	<b>195,589</b>	<b>258,470</b>
<i>II.B</i>	<i>Other new investments</i>	<b>4,381</b>	<b>837</b>	<b>561</b>	<b>1,192</b>	<b>1,791</b>	<b>30,499</b>	<b>24,475</b>
<i>III</i>	<i>OTHER INVESTMENT EXPENSES, of which:</i>	<b>60,570</b>	<b>3,550</b>	<b>8,952</b>	<b>9,848</b>	<b>38,220</b>	<b>26,104</b>	<b>3,184</b>
<i>A</i>	<i>Procurements of buildings, lands included</i>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<i>B</i>	<i>Independent endowments</i>	<b>54,764</b>	<b>3,107</b>	<b>8,622</b>	<b>8,610</b>	<b>34,425</b>	<b>14,834</b>	<b>312</b>
<i>C</i>	<i>Expenses to elaborate PFS, FS, other studies related to investment objectives, including expenses necessary to obtain the law-provided permits, licenses and agreements</i>	<b>3,165</b>	<b>443</b>	<b>253</b>	<b>560</b>	<b>1,909</b>	<b>10,877</b>	<b>524</b>
<i>D</i>	<i>Expenses of: expertise, design, technical assistance for technological trials, tests, submission to beneficiary and execution regarding consolidations and interventions to prevent or remove effects generated by accidental activities and natural calamities ...</i>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2,347</b>
<i>E</i>	<i>Drilling, land mapping, photogrammetry, seismologic determinations, consultancy and other investment expenses not found in the other investment categories</i>	<b>2,640</b>	<b>0</b>	<b>77</b>	<b>678</b>	<b>1,885</b>	<b>392</b>	<b>0</b>
<i>F</i>	<i>Expenses of: expertise, design, technical assistance for technological trials and tests, submission to beneficiary and execution regarding capital repairs, and other categories of intervention work, ...</i>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ii</b>	<b>INVESTMENT EXPENSES FINANCED FROM THE CONNECTION FEE</b>	<b>10,510</b>	<b>10,390</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**CNTEE "Transelectrica" - SA - Societate administrată în sistem dualist**  
**Directia Investitii**

**PROGRAMUL DE INVESTIȚII AL COMPANIEI PE ANUL 2022**  
**ȘI CHELTUIELILE DE INVESTIȚII ESTIMATE PENTRU ANII 2023 ȘI 2024 - propunere**

**I.I CHELTUIELI DE CAPITAL PENTRU "INVESTIȚII ÎN CONTINUARE" ȘI "INVESTIȚII NOI"**

( mii lei, fara TVA )

Pos. in PAI 2022	Category of expenses / Name of investment objective	Act de aprobare	Valoarea totala aprobata / actualizata	Valoare estimată proiect	Contracted value [thousand Lei]	Estimate d commissi on. date PAI 2022	PAI 2022 initial	Quarterly spread-out - E				Estimated value	
								Q I	Q II	Q III	Q IV	2023	2024
<b>I</b>	<b>FURTHER INVESTMENTS (I.A+I.B) - TOTAL, of which:</b>						<b>373,232.02</b>	<b>73,028.88</b>	<b>103,933.48</b>	<b>78,526.33</b>	<b>117,743.33</b>	<b>349,112.59</b>	<b>313,524.55</b>
<b>I.A</b>	<b>MAJOR FURTHER INVESTMENTS - TOTAL, of which:</b>						<b>372,880.02</b>	<b>72,911.88</b>	<b>103,708.48</b>	<b>78,516.33</b>	<b>117,743.33</b>	<b>349,112.59</b>	<b>313,519.55</b>
<b>I.A.1</b>	<b>INVESTMENT DIVISION - TOTAL of which:</b>						<b>367,580.02</b>	<b>71,611.88</b>	<b>101,208.48</b>	<b>78,016.33</b>	<b>116,743.33</b>	<b>341,942.98</b>	<b>312,862.55</b>
1	Modernising the control protection system and the 20 kV station of the 220/110/20 kV substation Vetis <i>MP:</i>	Dec. Dir. 254 / 28.03.2013; Dec. Dir. 257 /	9,393.02	9,393.00	6,525.00	Realizat 2016	245.29	0.00	0.00	0.00	245.29	0.00	0.00
							245.29	0.00	0.00	0.00	245.29	0.00	0.00
2	Extending the 400 kV substation Cernavoda - stage II <i>MP:</i> <i>Investment Department Constanta:</i>	Dec. Dir. 575 / 15.05.2018 Dec. Dir. 181 / 07.02.2017; Dec. Dir. 260 / 29.03.2013; Dec. CA. 36 /	15,069.52	11,902.27	12,650.23	2023	662.70	0.00	0.00	0.00	662.70	2.00	0.00
				11,902.27	12,650.23		661.70	0.00	0.00	0.00	661.70	1.00	0.00
							1.00	0.00	0.00	0.00	1.00	1.00	0.00
3	Converting the Iron Gates - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage I, of which: <i>Investment Department Timisoara:</i>	Dec. CA 2 / 25.01.2012 pt. stage I	282,169.55	242,862.00	252,618.09	2024	16,300.00	2,070.00	4,110.00	5,060.00	5,060.00	35,060.00	34,050.00
	Converting the Iron Gates - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage I simple circuit OHL Iron Gates - (Anina) - Resita DP: <i>Investment Department Timisoara:</i>	Ordin MEC 789/13.07.2016; Dec. CA 2 / 25.01.2012	147,035.83	123,000.00	137,511.76	2024	10,000.00	500.00	2,500.00	3,500.00	3,500.00	23,000.00	17,000.00
							250.00	50.00	100.00	50.00	50.00	10.00	0.00
	Converting the Iron Gates - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage I the 400/220/110 kV substation Resita DP: <i>Investment Department Timisoara:</i>	Dec. Dir. 954 / 14.10.2019; Dec. CA 2 / 25.01.2012	163,409.11	119,862.00	115,106.34	2025	6,000.00	1,500.00	1,500.00	1,500.00	1,500.00	12,000.00	17,000.00
							50.00	20.00	10.00	10.00	10.00	50.00	50.00
4	Replacing autotransformers (AT) and transformers (T) in electric substations <i>MP:</i> <i>Investment Department Bucharest: - AT Ghizdaru; AT Turnu Magurele (taxes)</i>	Dec. Dir. 155, 184, 185, 186, 259, 289, 379 Dec. Dir. 917 / 27.07.2017 Dec. Dir. 312 / 2015; Dec. Dir. 904, 919, 920, 921,	69,398.22	69,398.22	44,667.14	2022	8,995.83	4,497.92	2,002.00	2,495.92	0.00	0.00	0.00
							8,995.83	4,497.92	2,002.00	2,495.92	0.00	0.00	0.00
			69,398.22	69,398.22	39,443.16		8,985.83	4,492.92	2,000.00	2,492.92	0.00	0.00	0.00
							10.00	5.00	2.00	3.00	0.00	0.00	0.00

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								Q I	Q II	Q III	Q IV	2023	2024
5	Connecting the 400 kV OHL Isaccea - Varna and the 400 kV OHL Isaccea - Dobrogea in the 400 kV substation Medgidia Sud		158,677.71	122,279.65	47,035.23		11,557.20	4,695.60	4,500.00	0.00	2,361.60	10,010.00	20,000.00
	Connecting the 400 kV OHL Isaccea - Varna and the 400 kV OHL Isaccea - Dobrogea in the 400 kV substation Medgidia Sud, stage I - Extending the 400 kV substation Medgidia	Dec. Dir. 185 / 26.02.2015; D. CA 1 / 08.07.2015;	85,642.57	55,667.36	47,035.23	2022	9,000.00	4,500.00	4,500.00	0.00	0.00	0.00	0.00
	Connecting the 400 kV OHL Isaccea - Varna and the 400 kV OHL Isaccea - Dobrogea in the 400 kV substation Medgidia Sud, stage II - the 400 kV double OHL, Connections in substation Medgidia Sud	Dec. Dir. 1234 / 12.08.2021; Dec. Dir. 923 / 12.08.2020;	73,035.14	66,612.29		2024	1,000.00	0.00	0.00	0.00	1,000.00	10,000.00	20,000.00
	<i>Investment Department Constanta:</i>						1,557.20	195.60	0.00	0.00	1,361.60	10.00	0.00
6	Refurbishing the 400/110/20 kV substation Domnesti	NF 29757 / 30.07.2020; Dec. Dir. 467 / 07.05.2015;	252,658.02	144,447.00	110,122.71	2021	0.00	0.00	0.00	0.00	0.00	0.00	5,767.80
	<i>MP:</i>						0.00	0.00	0.00	0.00	0.00	0.00	5,767.80
7	Refurbishing the 400 kV substation Isaccea (stage I +II)		182,327.43	148,426.88	30,580.10		528.00	25.00	1.00	1.00	501.00	5,000.00	10,000.00
	Refurbishing the 400 kV substation Isaccea stage II	Dec. Dir. 1286 / 24.08.2021;	120,608.95	107,036.88		2026	500.00	0.00	0.00	0.00	500.00	5,000.00	10,000.00
	<i>Investment Department Constanta:</i>						28.00	25.00	1.00	1.00	1.00	0.00	0.00
8	Upgrading the 220/110 /20 kV substation Arefu	Dec. Dir. 239/ 18.03.2020; Dec. Dir. 636/ 13.07.2015; Dec. DG 983 / 17.09.2012	76,625.77	38,000.00	38,634.49	2024	15,015.00	2,005.00	3,005.00	5,005.00	5,000.00	10,025.00	11,100.00
	<i>MP:</i>						15,000.00	2,000.00	3,000.00	5,000.00	5,000.00	10,000.00	11,100.00
	<i>Investment Department Pitesti:</i>						15.00	5.00	5.00	5.00	0.00	25.00	0.00
9	Upgrading the 220/110 kV substation Raureni	Dec. Dir. 635 / 13.07.2015; Dec. DG 984 / 17.09.2012	43,337.44	28,000.00	13,715.84	2022	2,077.38	2,077.38	0.00	0.00	0.00	0.00	0.00
	<i>MP:</i>						2,057.38	2,057.38	0.00	0.00	0.00	0.00	0.00
	<i>Investment Department Pitesti:</i>						20.00	20.00	0.00	0.00	0.00	0.00	0.00
10	Upgrading the 220/110 kV substation Dumbrava	Dec. Dir. 916 / 03.10.2019 Dec. Dir. 360 / 23.04.2015;	42,797.48	30,298.08	16,778.99	2023	5,547.17	1,015.00	1,800.00	350.00	2,382.17	3,100.00	0.00
	<i>MP:</i>						5,528.00	1,000.00	1,800.00	350.00	2,378.00	3,100.00	0.00
	<i>Investment Department Bacau:</i>						19.17	15.00	0.00	0.00	4.17	0.00	0.00
11	Upgrading the 110 and 400 (220) kV installations of substation Focsani Vest	Dec. Dir. 593 / 27.06.2016; NF 2711 / 16.02.2015	49,808.53	32,300.00	22,428.29	2022	3,393.93	40.60	203.33	0.00	3,150.00	0.00	0.00
	<i>MP:</i>						3,353.33	0.00	203.33	0.00	3,150.00	0.00	0.00
	<i>Investment Department Bacau:</i>						40.60	40.60	0.00	0.00	0.00	0.00	0.00
12	Upgrading the 110 kV substations Bacau Sud and Roman Nord of the 400 kV axis Moldova	Dec. Dir. 1121, 1122 / 24.12.2015	69,911.79	39,000.00	38,079.65	2022	5,739.11	27.16	5,711.95	0.00	0.00	0.00	0.00
	<i>MP:</i>						5,711.95	0.00	5,711.95	0.00	0.00	0.00	0.00
	<i>Investment Department Bacau:</i>						27.16	27.16	0.00	0.00	0.00	0.00	0.00
13	Refurbishing the 220/110/20 kV substation Ungheni	Dec. Dir. 195 / 27.02.2015	63,805.89	45,000.00	42,426.84	2022	16,870.84	4,005.00	12,855.84	5.00	5.00	0.00	0.00
	<i>MP:</i>						16,850.84	4,000.00	12,850.84	0.00	0.00	0.00	0.00
	<i>Investment Department Sibiu:</i>						20.00	5.00	5.00	5.00	5.00	0.00	0.00

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								Q I	Q II	Q III	Q IV	2023	2024
14	Upgrading the 400 (220)/110/20 kV substation Munteni	Dec. Dir nr. 965 / 11.08.2017;	60,477.68	53,353.40	45,306.17	2022	11,961.00	5,006.50	6,954.50	0.00	0.00	0.00	0.00
	<i>MP:</i> Dec. Dir. 260 / 29.03.2013	11,860.00					5,000.00	6,860.00	0.00	0.00	0.00	0.00	
	<i>Investment Department Bacau:</i>	101.00					6.50	94.50	0.00	0.00	0.00	0.00	
15	Refurbishing the 400/110/20 kV substation Smardan	Dec. Dir. 899 / 11.10.2016;	123,111.40	116,836.07	107,445.16	2025	11,058.54	514.13	1,514.13	4,515.23	4,515.05	23,557.30	10,010.00
	<i>MP:</i> Dec. Dir. 4 / 04.01.2016;	10,000.00					500.00	1,500.00	4,000.00	4,000.00	23,000.00	10,000.00	
	<i>Investment Department Constanta:</i> NF	1,058.54					14.13	14.13	515.23	515.05	557.30	10.00	
16	Refurbishing the 220/110 kV substation Craiova Nord	Dec. Dir. 585 / 23.06.2016;	55,154.20	47,501.46	46,085.36	2021	11.00	11.00	0.00	0.00	0.00	0.00	0.00
	<i>MP:</i> RN 16268 / 05.05.2017;	10.00					10.00	0.00	0.00	0.00	0.00	0.00	
	<i>Investment Department Craiova:</i> NF 12453 /	1.00					1.00	0.00	0.00	0.00	0.00	0.00	
17	Refurbishing the 220/110 kV substation Hasdat	Dec. Dir. 429 / 10.05.2016	72,721.86	50,000.00	49,728.01	2022	8,605.00	8,605.00	0.00	0.00	0.00	0.00	0.00
	<i>MP:</i> NF (TEL) 40207 / 19.11.2014	8,600.00					8,600.00	0.00	0.00	0.00	0.00	0.00	
	<i>Investment Department Timisoara:</i>	5.00					5.00	0.00	0.00	0.00	0.00	0.00	
18	Refurbishing the 110 kV substation Timisoara and Converting the Iron Gates - Anina - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage II: the 400 kV substation Timisoara	Dec. Dir. 147 / 15.02.2016;	130,309.61	130,309.61	87,643.63	2025	5,050.00	510.00	520.00	2,010.00	2,010.00	20,050.00	30,050.00
	<i>MP:</i> NF (TEL) 8369 / 01.10.2012	5,000.00					500.00	500.00	2,000.00	2,000.00	20,000.00	30,000.00	
	<i>Investment Department Timisoara:</i>	50.00					10.00	20.00	10.00	10.00	50.00	50.00	
19	Refurbishing the 220/110 kV substation Iaz	Dec. Dir. 618 / 06.07.2016;	82,548.47	55,000.00	54,863.93	2022	20,615.00	5,005.00	15,605.00	5.00	0.00	0.00	0.00
	<i>MP:</i> NF (TEL) 39977 / 18.11.2014	20,600.00					5,000.00	15,600.00	0.00	0.00	0.00	0.00	
	<i>Investment Department Timisoara:</i>	15.00					5.00	5.00	5.00	0.00	0.00	0.00	
20	Refurbishing the 110 kV substation Medgidia Sud	Dec. Dir. 119 / 08.02.2016;	73,941.60	60,189.73	49,792.04	2023	14,128.00	1,000.00	4,000.00	5,028.00	4,100.00	10,010.00	0.00
	<i>MP:</i> RN 16084 / 04.05.2017	14,100.00					1,000.00	4,000.00	5,000.00	4,100.00	10,000.00	0.00	
	<i>Investment Department Constanta:</i> NF 153 / 2013	28.00					0.00	0.00	28.00	0.00	10.00	0.00	
21	Refurbishing the 220/110/MV kV substation Baru Mare	Dec. Dir. 428 / 10.05.2016;	76,429.13	63,463.00	58,861.87	2023	27,025.00	5,010.00	5,010.00	5,005.00	12,000.00	20,562.00	0.00
	<i>MP:</i> NF (TEL) 36887 / 30.10.2014;	27,000.00					5,000.00	5,000.00	5,000.00	12,000.00	20,562.00	0.00	
	<i>Investment Department Timisoara:</i> RN 441 /	25.00					10.00	10.00	5.00	0.00	0.00	0.00	
22	The 400 kV substation Stalpu and Upgrading the 110 kV & medium voltage bays in electric substation Stalpu	Dec. Dir. 713 / 14.06.2017;	107,032.53	73,941.00	73,940.23		25,953.38	5.00	1,315.46	1,316.46	23,316.46	26,993.03	6,319.10
	<i>The 400 kV substation Stalpu</i> <i>MP-Nitu:</i>	Dec. Dir. 182 / 07.02.2017;	72,910.11	58,415.00	58,414.23	2023	22,000.00	0.00	0.00	0.00	22,000.00	22,000.00	0.00
	<i>Upgrading the 110 kV &amp; medium voltage bays in electric substation Stalpu</i> <i>RP-Tessaro:</i>	D. CA 6 / 24.03.2011;	34,122.42	15,526.00	15,526.00	2024	3,943.38	0.00	1,314.46	1,314.46	1,314.46	4,983.03	6,319.10
	<i>Investment Department Bucharest: - (taxes)</i>	Dec. Dir. 1005 / 07.10.2014					10.00	5.00	1.00	2.00	2.00	10.00	0.00

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								Q I	Q II	Q III	Q IV	2023	2024	
23	The 400 kV double OHL Cernavoda-Stalpu and connection in Gura Ialomitei	Dec. Dir. 494 / 26.04.2018	403,758.53	296,551.61	287,892.35	2022	53,243.88	5,140.00	13,000.00	13,051.56	22,052.32	0.00	0.00	
	<i>MP:</i>	08.11.2017;					53,050.00	5,000.00	13,000.00	13,000.00	22,050.00	0.00	0.00	
	Investment Department Bucharest: - Land registry documentation elaboration services in view of registering the expropriated lands related to the "400 kV double OHL Cernavoda-Stalpu and connection in Gura Ialomitei" investment C558/02.08.2018	Ordin ME 745 /11.07.2017					100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	- Invest. Dept. Bucharest - Taxes + INDEMNIFICATIONS	Dec. Dir. 325 / 05.04.2016;					40.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
	- Invest. Dept. Bucharest - Topographical plan setting up services	Dec. Dir. 343 / 16.04.2015;					2.25	0.00	0.00	0.00	1.00	1.25	0.00	0.00
	- Invest. Dept. Bucharest - ANEVAR valuation services	Dec. CA 07 / 06.03.2012					2.07	0.00	0.00	0.00	1.00	1.07	0.00	0.00
	- Investment Department Bucharest - Work to achieve coexistence conditions for towers 10 & 42 of the 400 kV double OHL Cernavoda-Stalpu connected in substation Gura Ialomitei by CONPET tubes					49.56	0.00	0.00	49.56	0.00	0.00	0.00	0.00	
24	Extending the 400 kV substation Gura Ialomitei by two bays: the 400 kV OHL Cernavoda 2 & 3	Dec. Dir. 359 / 12.04.2019	18,907.39	18,000.00	17,907.51	2022	2,010.00	5.00	2,005.00	0.00	0.00	0.00	0.00	
	<i>DP:</i>	H.CA 13 / 10.11.2010					2,000.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00
	Investment Department Bucharest:						10.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00
25	Refurbishing the 220/110 kV substation Filesti	Dec. Dir. 724 / 30.07.2019;	51,303.26	40,494.18	37,512.01	2023	10,185.50	840.00	2,150.00	640.00	6,555.50	25,441.01	0.00	
	<i>MP:</i>	Dec. Dir 800 / 06.07.2018;					10,000.00	840.00	2,150.00	470.00	6,540.00	25,406.01	0.00	
	Investment Department Constanta:	Dec. Dir. 1066 /					185.50	0.00	0.00	170.00	15.50	35.00	0.00	
26	Upgrading the electric supply of UNO-DEN offices	Dec. Dir. 976 / 18.10.2019; ;	10,201.55	9,751.00	8,751.48	2022	4,251.48	4,251.48	0.00	0.00	0.00	0.00	0.00	
27	Refurbishing the 400/110 kV transformer substation Pelicanu	Dec. Dir. 1048 / 07.11.2019;	115,297.92	94,000.00	96,388.07	2025	10,040.00	3,040.00	700.00	4,000.00	2,300.00	30,010.00	30,050.00	
	<i>MP:</i>	Dec. Dir. 829 / 05.07.2017;					10,000.00	3,000.00	700.00	4,000.00	2,300.00	30,000.00	30,000.00	
	UTT Bucharest:	NF 31041 /					40.00	40.00	0.00	0.00	0.00	10.00	50.00	
28	The 400 kV double OHL Gutinas - Smardan	Dec. Dir. 212 / 09.03.2020	315,345.55	247,804.99	247,804.99	2025	41,042.33	1,181.18	4,036.28	20,665.52	15,159.37	83,043.04	107,870.00	
	<i>DP:</i>	HG 840 / 22.11.2017;					40,000.00	1,000.00	4,000.00	20,000.00	15,000.00	82,000.00	107,000.00	
	Investment Department Bacau :	Dec. Dir. 1240 / 09.11.2017;					967.33	166.18	16.28	645.52	139.37	1,033.04	860.00	
	Investment Department Constanta :		75.00	15.00	20.00	20.00	20.00	10.00	10.00					
29	Increasing the transmission capacity of the 220 kV OHL Stejaru-Gheorgheni-Fantanele	Dec. Dir. 950 / 14.08.20;	48,539.70	43,097.40	43,097.41	2025	5,439.06	6.00	415.62	5,008.72	8.72	15,627.70	15,612.20	
	<i>MP:</i>	Dec. Dir.74 / 18.01.2019;					5,400.00	0.00	400.00	5,000.00	0.00	15,600.00	15,600.00	
	Investment Department Bacau:	Dec. Dir. 1389 / 29.11.2016;					19.06	1.00	10.62	3.72	3.72	7.70	12.20	
	Investment Department Sibiu:	NF (TEL) 30121 /					20.00	5.00	5.00	5.00	5.00	20.00	0.00	

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30	Electricity data metering and management system on the wholesale market	Dec. Dir. 200 / 01.03.2018; Hot. Dir. 10 / 21.01.2016; NE (TEL) 37444 / 17.07.2018	48,622.36	34,160.33		2025	5,000.00	0.00	0.00	2,000.00	3,000.00	12,000.00	12,000.00
31	The 220 kV double circuit OHL Ostrovu Mare - RET, of which:	Dec. Dir. .991 / 19.08.2020	75,949.55	63,104.74	3,687.86		4,307.93	72.94	22.91	1,853.93	2,358.15	11,451.90	20,033.45
	stage I - the 220 kV double circuit OHL Ostrovu Mare - RET MP:	Dec. Dir. 1365 / 12.12.2017; HG 775 / 26.10.2017;	68,113.95	56,389.14		2025	500.00	0.00	0.00	0.00	500.00	10,000.00	20,000.00
	<i>Investment Department Craiova:</i>	Dec. Dir. 108 / 13.01.2017;					58.50	38.50	10.00	5.00	5.00	10.00	33.45
	stage II - Installing protection conductor OPGW on the existent 220 kV OHL Iron Gates I – Cetate circuit 1+2 MP:	Dec. Dir. 904 / 10.09.2014; H. CA 17 / 26.11.2007	6,004.10	5,273.70	3,687.86	2022	3,706.30	18.44	0.00	1,843.93	1,843.93	0.00	0.00
	<i>Investment Department Craiova:</i>						43.13	16.00	12.91	5.00	9.22	0.00	0.00
	stage III - Supra-crossing of the 220 kv double OHL Ostrovu Mare-RET over the 110 kV double OHL Ostrovu Mare-Cetate 1+2, the 110 kV OHL Ostrovu Mare-Gruia, the 110 kV OHL Ostrovu Mare-Burila & the 20 kV OHL MP-		1831.5	1441.9		2023	0.00	0.00	0.00	0.00	0.00	1,441.90	0.00
I.A.2	<i>Investment Department CLUJ - TOTAL, of which:</i>						150.00	150.00	0.00	0.00	0.00	0.00	0.00
32	Upgrading the 220/110/20 kV substation Vetis - primary equipment	Hot. Dir. 35 / 13.01.2018; Dec. Dir. 304 / 13.01.2018	14,444.61	8,357.00	6,471.96	2022	150.00	150.00	0.00	0.00	0.00	0.00	0.00
I.A.3	<i>Investment Department SIBIU - TOTAL, of which:</i>						20,570.48	10,800.00	9,770.48	0.00	0.00	0.00	0.00
33	Installing the 400 MVA, 400/231/22 kV AT2 and related bays in substation Iernut and upgrading the command control system of the 400/220/110/6 kV substation Iernut	Nota Dir. 6292 / 13.02.2018; Dec. Dir. 1388 / 29.11.2016; NE (TEL) 37444 / 17.07.2018	42,178.10	40,000.00	27,110.47	2022	16,770.48	10,000.00	6,770.48	0.00	0.00	0.00	0.00
34	Research & development centre of live work technologies (LW) and fast intervention into SEN - stage II	Dec. Directorat 825/12.07.2018	5,277.34	5,277.34	4,274.18	2022	3,800.00	800.00	3,000.00	0.00	0.00	0.00	0.00
I.A.4	<i>DTEETN Division - TOTAL of which:</i>						4,500.00	500.00	2,500.00	500.00	1,000.00	3,000.00	657.00
35	Procuring and installing 21 monitoring systems for transformer units of the substations of CNTEE Transelectrica SA	Dec. Dir. 216 / 10.03.2020; NC (TEL) 30254 / 17.07.2018	11,362.34	11,362.34	10,657.89	2024	4,500.00	500.00	2,500.00	500.00	1,000.00	3,000.00	657.00
I.A.5	<i>DEPARTAMENT OF CRITICAL INFRASTRUCTURES - TOTAL of which:</i>						800.00	800.00	0.00	0.00	0.00	4,169.61	0.00
36	integrated security systems in substations and branches, DEN & DET-s - Integrated security systems in electric substations, stage I V - the 220/32 kV substation Otelarie Hunedoara - The 220/110 kV substation Dumbrava	Dec. CA 16 / 2011	57,665.94	43,610.00	43,659.43	2023	800.00	800.00	0.00	0.00	0.00	4,169.61	0.00
I.B	<i>OTHER FURTHER INVESTMENTS - TOTAL, of which:</i>						352.00	117.00	225.00	10.00	0.00	0.00	5.00

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Pos. in PAI 2022	Category of expenses / Name of investment objective	Act de aprobare	Valoarea totala aprobata / actualizata	Valoare estimată proiect	Contracted value [thousand Lei]	Estimate d commissi on. date PAI 2022	PAI 2022 initial	Quarterly spread-out - E				Estimated value		
								Q I	Q II	Q III	Q IV	2023	2024	
<b>I.B.1</b>	<b>Investment Department BACAU - TOTAL, of which:</b>						0.00	0.00	0.00	0.00	0.00	0.00	5.00	
37	Demolishing storehouses and building platform hall with hydrocarbon separator to store equipment in the 400/220/110 kV transformer substation Suceava	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	0.00	5.00	
<b>I.B.2</b>	<b>Investment Department BUCHAREST - TOTAL, of which:</b>						5.00	5.00	0.00	0.00	0.00	0.00	0.00	
38	Upgrade in view of diminishing galloping effects to the 400 kV OHL in Baragan – Fetesti area; diminishing galloping effects to the 400 kV OHL Bucharest South – Gura Ialomitei to the 400 kV OHL Cernavoda – Gura Ialomitei (circuit 2)	Dec ST Buc 372 / 24.07.2019	4,154.58	4,154.58	3,745.28	2022	5.00	5.00	0.00	0.00	0.00	0.00	0.00	
<b>I.B.3</b>	<b>Investment Department PITESTI - TOTAL, of which:</b>						347.00	112.00	225.00	10.00	0.00	0.00	0.00	
39	Providing optical fibre communication between substation Pitesti Sud and the Remote Control Centre of installations supervision from UTT Pitesti	Dec. Dir. 260 / 28.02.2014	2,600.20	2,600.00	1,822.20	2022	335.00	100.00	225.00	10.00	0.00	0.00	0.00	
40	Providing electricity metering & electricity quality monitoring systems in the 220/110/20 kV substation Pitesti Sud	Dec. ST PT 158 / 10.10.2016	811.03	811.03	462.58	2022	4.00	4.00	0.00	0.00	0.00	0.00	0.00	
41	Providing electricity metering & electricity quality monitoring systems in the 220/110 kV substation Stuparei	Dec. ST PT 159 / 10.10.2016	673.82	673.82	361.67	2022	8.00	8.00	0.00	0.00	0.00	0.00	0.00	
<b>II</b>	<b>NEW INVESTMENTS - TOTAL, of which:</b>						13,437.23	1,102.12	1,770.88	1,461.30	9,102.94	226,087.76	282,944.18	
<b>II.A</b>	<b>INVESTITII MAJORE NOI - TOTAL, of which:</b>						9,056.10	265.00	1,210.00	269.60	7,311.50	195,588.65	258,469.65	
<b>II.A.1</b>	<b>INVESTMENT DIVISION - TOTAL of which:</b>						7,936.10	265.00	120.00	239.60	7,311.50	171,235.50	170,644.29	
42	The 400 kV OHL Gadalın - Suceava	H. CA 7 / 08.07.2010	428,227.65	278,640.00		2028	101.00	0.00	0.00	0.50	100.50	31.50	1,087.20	
	MP:						100.00	0.00	0.00	0.00	100.00	30.00	1,086.00	
	Investment Department Bacau:						0.50	0.00	0.00	0.00	0.50	0.50	0.20	
	Investment Department Cluj:						0.50	0.00	0.00	0.50	0.00	1.00	1.00	
43	Converting the 220 kV OHL Brazi Vest – Teleajen – Stalpu to 400 kV, including procurement of 400 MVA 400/220/20 kV AT and extending the related 400 kV & 220 kV substations in the 400/220/110 kV substation Brazi Vest, of which:		228,047.78	32,196.77			1,510.00	0.00	0.00	5.00	1,505.00	15,010.00	30,010.00	
	The 400 kV OHL Brazi Vest - Teleajen - Stalpu - MP:						2024	500.00	0.00	0.00	0.00	500.00	5,000.00	10,000.00
	Extending substation Brazi Vest (inclusiv AT4) - MP:						2024	500.00	0.00	0.00	0.00	500.00	5,000.00	10,000.00
	The 400 kV substation Teleajen and refurbishing the 110 kV substation - MP:						2025	500.00	0.00	0.00	0.00	500.00	5,000.00	10,000.00
	Investment Department Bucharest:						10.00	0.00	0.00	5.00	5.00	10.00	10.00	

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								Q I	Q II	Q III	Q IV	2023	2024
44	The 400 kV double OHL (1ce) Constanta Nord - Medgidia Sud	Dec. Dir. 428 / 09.05.2019;	94,873.33	94,873.33		2026	204.00	190.00	10.00	2.00	2.00	2.00	2.00
	MP: NF 12877 / 06.11.2014	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<i>Investment Department Constanta:</i>	204.00					190.00	10.00	2.00	2.00	2.00	2.00	2.00
45	Converting the Iron Gates - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage II: the 400 kV double OHL Resita-Timisoara-Sacalaz	Dec. Dir. 744 / 25.08.2016;	161,993.79	161,993.79		2025	1,090.00	60.00	30.00	0.00	1,000.00	5,100.00	15,100.00
	MP: D. CA 2 / 25.01.2012	1,000.00					0.00	0.00	0.00	1,000.00	5,000.00	15,000.00	
	<i>Investment Department Timisoara:</i>	90.00					60.00	30.00	0.00	0.00	100.00	100.00	
46	Converting the Iron Gates - Resita - Timisoara - Sacalaz - Arad axis to 400 kV. the 400 kV OHL Timisoara - Arad, (stage III)	Dec. Dir. 1175 / 13.12.2019;	125,102.61	125,102.61		2027	150.00	0.00	0.00	50.00	100.00	1,100.00	10,100.00
	MP: NF (TEL) 8369 / 01.10.2012	50.00					0.00	0.00	0.00	50.00	1,000.00	10,000.00	
	<i>Investment Department Timisoara:</i>	100.00					0.00	0.00	50.00	50.00	100.00	100.00	
47	Upgrading the 220/110 kV substation Calafat	Dec. Dir. 889 / 07.06.2021;	43,890.93	19,000.00		2025	75.55	0.00	0.00	65.55	10.00	1,010.00	5,046.81
	MP: NC (TEL) 8175 / 06.09.2018	10.00					0.00	0.00	0.00	10.00	1,000.00	5,000.00	
	<i>Investment Department Craiova:</i>	65.55					0.00	0.00	65.55	0.00	10.00	46.81	
48	The 220 kV substation Ostrovu Mare	Dec. Dir. 1365 / 12.12.2017;	56,518.21	44,470.42		2025	766.82	0.00	10.00	46.82	710.00	10,010.00	20,010.00
	MP: Dec. Dir. 903 / 10.09.2014;	700.00					0.00	0.00	0.00	700.00	10,000.00	20,000.00	
	<i>Investment Department Craiova:</i> H. CA 17 /	66.82					0.00	10.00	46.82	10.00	10.00	10.00	
49	Increasing the network's operational security in Arges - Valcea region, achieving the 400 kV substation Arefu and installing a 400 MVA, 400/220 kV AT	Dec. Dir. 1320 /02.09.2021;	64,396.98	62,673.12		2024	515.00	5.00	10.00	0.00	500.00	50,010.00	12,672.61
	MP: Dec. Dir. 1189 /20.12.2019;	500.00					0.00	0.00	0.00	500.00	50,000.00	12,672.61	
	<i>Investment Department Pitesti:</i> NC 31141/ 06.08.2018	15.00					5.00	10.00	0.00	0.00	10.00	0.00	
50	Installing two modern means to compensate reactive power in the 400/220/110/20 kV substation Sibiu Sud and the 400/220/110/20 kV substation Bradu	Dec. Dir. 1231 / 02.10.2020;	250,774.18	244,905.00		2025	2,070.00	10.00	60.00	0.00	2,000.00	70,005.00	70,005.00
	MP: NC (TEL) 24047 / 03.07.2017	2,000.00					0.00	0.00	0.00	2,000.00	70,000.00	70,000.00	
	<i>Investment Department Pitesti:</i>	10.00					10.00	0.00	0.00	0.00	5.00	5.00	
	<i>Investment Department Sibiu:</i>	60.00					0.00	60.00	0.00	0.00	0.00	0.00	
II.A.2	<i>Investment Department BUCURESTI - TOTAL, of which:</i>						10.00	0.00	0.00	0.00	10.00	5,000.00	6,610.67
51	Upgrading the command-control-protection-metering system, 220 kV, 110 kV in the 220/110/20 kV substation and refurbishing medium voltage and d.c. & a.c. auxiliary services in the 220/110/20 kV substation Ghizdaru	Dec. Dir. 1451 / 12.11.2020;	33,935.86	26,610.67		2025	10.00	0.00	0.00	0.00	10.00	5,000.00	6,610.67
II.A.3	<i>Investment Department CRAIOVA - TOTAL, of which:</i>						1,443.73	0.00	0.00	69.73	1,374.00	13,957.00	0.00

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								Q I	Q II	Q III	Q IV	2023	2024
52	Operational headquarters, DET Craiova	Dec. UMA 1405 / 22.09.2021;	16,967.76	15,210.76			1,443.73	0.00	0.00	69.73	1,374.00	13,957.00	0.00
	- Building construction	Aviz CTES 128/2021 - actualizare DG	13,089.42	11,522.89		2023	1,374.00	0.00	0.00	0.00	1,374.00	10,148.89	0.00
	- Equipping headquarters		3,878.34	3,687.86			69.73	0.00	0.00	69.73	0.00	3,808.11	0.00
<b>II.A.4</b>	<b>DTEETN Division - TOTAL of which:</b>						<b>1,120.00</b>	<b>0.00</b>	<b>1,090.00</b>	<b>30.00</b>	<b>0.00</b>	<b>24,353.14</b>	<b>87,825.36</b>
53	Pilot Project - Refurbishing the 220/110/20 kV substation Alba Iulia as digital substation	Dec. Dir. UMA 1329 / 02.09.2021;	231,141.44	150,000.00		2026	1,120.00	0.00	1,090.00	30.00	0.00	23,134.14	57,825.36
	<i>MP DTEETN:</i>	1,050.00					0.00	1,050.00	0.00	0.00	23,114.14	57,785.36	
	<i>Investment Department Sibiu:</i>	70.00					0.00	40.00	30.00	0.00	20.00	40.00	
54	Optimising the operation of the existent 400 kV OHLs within SEN, used for interconnection and power discharge from NPP Cernavoda and from renewable power parks of Dobrogea, by installing on-line (SMART GRID) monitoring systems	Dec. UMA 1328 / 02.09.2021; NC (TEL) 9674 / 09.03.2020	49,457.20	49,457.20		2025	0.00	0.00	0.00	0.00	0.00	1,219.00	30,000.00
<b>II.B</b>	<b>OTHER NEW INVESTMENTS - TOTAL, of which:</b>						<b>4,381.13</b>	<b>837.12</b>	<b>560.88</b>	<b>1,191.70</b>	<b>1,791.44</b>	<b>30,499.11</b>	<b>24,474.53</b>
<b>II.B.1</b>	<b>Investment Department BACAU - TOTAL, of which:</b>						<b>2,156.33</b>	<b>0.00</b>	<b>278.54</b>	<b>716.02</b>	<b>1,161.78</b>	<b>76.27</b>	<b>1.53</b>
55	Rearranging the road, subst. Focsani Vest in access area	Dec. ST BC 216 / 05.09.2018;	93.96	93.96		2023	15.00	0.00	0.00	0.00	15.00	76.27	0.03
56	Provisional work to the 110 kV OHL in view of shunting the transformer substation FAI to comply with regime terms when withdrawing 110 kV bus-bars from operation	Dec. Dir. 1150 / 23.07.2021; Dec. Dir. 1176 /	723.84	723.84		2022	700.74	0.00	36.19	664.56	0.00	0.00	1.50
57	Off-grid photovoltaic system, substation Gutinas	Dec. ST BC 252 / 10.10.2018	1,184.87	1,184.00		2022	1,148.24	0.00	0.00	1.46	1,146.78	0.00	0.00
58	Rehabilitation of data transport network for tele-management	Dec. Dir. UMA 1489 /	292.35	292.35		2022	292.35	0.00	242.35	50.00	0.00	0.00	0.00
<b>II.B.2</b>	<b>Investment Department BUCHAREST - TOTAL, of which:</b>						<b>234.34</b>	<b>10.00</b>	<b>202.34</b>	<b>1.00</b>	<b>21.00</b>	<b>9,569.12</b>	<b>5,000.00</b>
59	Providing optical fibre communications between the 400/110 kV substation Pelicanu and the 110 kV substation Silcotub Calarasi of Co. Energy Network SRL	Dec. Dir. 5 / 08.04.2021; Dec ST Buc	679.02	679.02		2023	10.00	0.00	0.00	0.00	10.00	669.02	0.00
60	Pilot project: Measures to protect birds found in protected natural areas, as requested in environmental permits of UTT Bucharest	Dec. Dir. 432 /15.03.2021; NF 1527 / 01.08.2016	765.84	765.84		2023	5.00	0.00	0.00	0.00	5.00	760.84	0.00
61	Increasing supply safety of consumers in southern Bucharest City connected in the 400/220/110/10 kV substation Bucharest South	Dec. UMA 1660 /07.12.2021; NC 14945 /	63,509.69	63,509.69		2025	10.00	10.00	0.00	0.00	0.00	5,000.00	5,000.00
62	Replacing the 220 V dc, 600 Ah batteries of the 400/ 220 kV substation Brazi Vest	Dec. UMA 1452 / 05.10.2021;	583.74	583.74		2023	3.00	0.00	0.00	0.00	3.00	580.74	0.00
63	Increasing the quench coils capacity for neutral treatment in the medium voltage network of the 400/110/20 kV substation Domnesti	Dec. UMA 1606 / 17.11.2021 NC	201.34	201.34		2022	201.34	0.00	201.34	0.00	0.00	0.00	0.00
64	Upgrade in view of diminishing galloping effects to the 400 kV OHL Bucharest South – Gura Ialomitei	Dec. UMA 52612 /07.12.2021 NC	2,563.52	2,563.52		2023	5.00	0.00	1.00	1.00	3.00	2,558.52	0.00
<b>II.B.3</b>	<b>Investment Department CLUJ - TOTAL, of which:</b>						<b>152.00</b>	<b>0.00</b>	<b>0.00</b>	<b>51.00</b>	<b>101.00</b>	<b>1,390.00</b>	<b>2,383.00</b>

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								Q I	Q II	Q III	Q IV	2023	2024
65	Installing a fire limiting equipment with nitrogen injectiofor the 400 kVA reactor Oradea Sud	Dec. ST CJ 155 / 25.10.2017;	613.08	475.00		2024	2.00	0.00	0.00	1.00	1.00	390.00	83.00
66	Installing a protection conductor with embedded optical fibre to the 400 kV OHL Rosiori - Mukacevo	Dec. Dir. 29938 / 28.07.2021;	3,855.55	3,486.05		2024	150.00	0.00	0.00	50.00	100.00	1,000.00	2,300.00
<b>II.B.4</b>	<b>Investment Department CONSTANTA - TOTAL, of which:</b>						<b>721.59</b>	<b>124.25</b>	<b>0.00</b>	<b>242.68</b>	<b>354.66</b>	<b>0.00</b>	<b>0.00</b>
67	Hydrocarbon separators (oil) for concreted platforms in substation Isaccea	Decizie 696 / 29.04.2021;	419.07	359.18		2022	209.18	0.00	0.00	209.18	0.00	0.00	0.00
68	Thermal rehabilitation of the Intervention Centre Constanta Nord	Dec. ST CT 15 / 06.01.2015	426.51	354.66		2022	354.66	0.00	0.00	0.00	354.66	0.00	0.00
69	Installing septic tanks in the 400/110 kV substation Constanta Nord	Dec. Dir. 352 / 02.02.2021	58.88	58.88		2022	40.00	40.00	0.00	0.00	0.00	0.00	0.00
70	Heating installation, headquarters of CE Tulcea	Dec. Dir. 1137 / 04.07.2021	54.74	33.50		2023	33.50	0.00	0.00	33.50	0.00	0.00	0.00
71	Heating installation, the 400 kV substation Rahman	Dec. Dir. 243 / 16.02.2021	102.50	102.50		2022	84.25	84.25	0.00	0.00	0.00	0.00	0.00
<b>II.B.5</b>	<b>Investment Department PITESTI - TOTAL, of which:</b>						<b>210.00</b>	<b>10.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>15,550.00</b>	<b>100.00</b>
72	Replacing the 250 MVA, 400/110 kV transformer T4 in the 400/110 kV substation Draganesti Olt	Dec. UMA 1638 / 26.11.2021;	15,559.58	15,550.00		2023	100.00	0.00	0.00	0.00	100.00	15,450.00	0.00
73	Connecting the drainage installation of the 220/110 kV substation Gradiste to the town's network	Dec. ST PT 1 / 09.01.2018	313.70	300.00		2023	100.00	0.00	0.00	100.00	0.00	100.00	100.00
74	Gathering rainwater passing through the oil separators of the 400/220/110/20 kV substation Bradu	Dec. ST PT 55 / 05.06.2020	194.86	169.00			10.00	10.00	0.00	0.00	0.00	0.00	0.00
<b>II.B.6</b>	<b>Investment Department SIBIU - TOTAL, of which:</b>						<b>594.87</b>	<b>592.87</b>	<b>0.00</b>	<b>0.00</b>	<b>2.00</b>	<b>836.00</b>	<b>0.00</b>
75	Upgrading office building, part B CE Brasov	Dec. ST SB 13 / 10.04.2015	840.79	721.00		2023	1.00	0.00	0.00	0.00	1.00	720.00	0.00
76	Integrated Security System, Training Centre Paltinis	Dec. ST SB 31 / 26.02.2018	129.18	117.00			1.00	0.00	0.00	0.00	1.00	116.00	0.00
77	Replacing the 220 V d.c. condenser batteries in the 400/220/110 kV substation Sibiu Sud	Dec. Dir. 205 / 12.02.2021	592.87	592.87			592.87	592.87	0.00	0.00	0.00	0.00	0.00
<b>II.B.7</b>	<b>Investment Department TIMISOARA: - TOTAL, of which:</b>						<b>300.00</b>	<b>100.00</b>	<b>70.00</b>	<b>80.00</b>	<b>50.00</b>	<b>1,850.00</b>	<b>2,000.00</b>
78	Upgrading the storehouse Fratelia - UTT Timisoara	Decizia ST TM	1,031.81	1,031.81			150.00	50.00	20.00	50.00	30.00	850.00	0.00
79	Upgrading the metering equipment building, Valiug	Dec. ST TM 319 /	6,596.17	6,596.17			150.00	50.00	50.00	30.00	20.00	1,000.00	2,000.00
<b>II.B.8</b>	<b>INVESTMENT DIVISION - TOTAL, of which:</b>						<b>12.00</b>	<b>0.00</b>	<b>10.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1,010.00</b>	<b>14,990.00</b>
80	Upgrading the command-control-protection systems and integrating substation Draganesti Olt into CTSI	Dec. Dir 712 / 14.08.2015	15,719.36	14,500.00		2025	1.00	0.00	0.00	0.00	1.00	10.00	1,000.00
	0.00						0.00	0.00	0.00	0.00	0.00	10.00	1,000.00
	1.00						0.00	0.00	0.00	1.00	0.00	0.00	0.00
81	Upgrading the command-control-protection systems and integrating substation Gradiste into CTSI	Dec. Dir. 713 / 14.08.2015	16,442.86	15,000.00		2024	11.00	0.00	10.00	1.00	0.00	1,000.00	13,990.00
	10.00						0.00	10.00	0.00	0.00	1,000.00	13,990.00	
	1.00						0.00	0.00	1.00	0.00	0.00	0.00	
<b>II.B.9</b>	<b>CLASSIFIED INFORMATION DEPARTMENT, of which:</b>						<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>217.72</b>	<b>0.00</b>
82	Implementing physical security measures in the zones where classified information is managed			217.72			0.00	0.00	0.00	0.00	0.00	217.72	0.00

THE COMPANY'S INVESTMENT PROGRAMME FOR 2022 AND THE ESTIMATED INVESTMENT EXPENDITURES FOR 2023 AND 2024 - proposal

(thousand Lei, VAT excl.)

Position in PAI 2022	Name of investment objective	Approval deed	Project estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
					Q I	Q II	Q III	Q IV	2023	2024
<b>III.</b>	<b>OTHER INVESTMENT EXPENSES - TOTAL (A+B+C+D+E+F), of which:</b>			<b>60,569.78</b>	<b>3,549.55</b>	<b>8,951.81</b>	<b>9,848.03</b>	<b>38,220.40</b>	<b>26,104.07</b>	<b>3,183.52</b>
<b>A</b>	<i>Procuring buildings, lands included:</i>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>B</b>	<i>Independent endowments:</i>			<b>54,763.53</b>	<b>3,106.55</b>	<b>8,621.67</b>	<b>8,610.03</b>	<b>34,425.28</b>	<b>14,833.70</b>	<b>312.02</b>
	Investment Department Bacau			1,144.25	856.55	79.00	208.70	0.00	0.00	0.00
	Investment Department Bucharest			0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Investment Department Cluj			150.00	0.00	0.00	150.00	0.00	0.00	0.00
	Investment Department Constanta			0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Investment Department Craiova			444.27	0.00	444.27	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			451.67	0.00	208.00	10.00	233.67	0.00	0.00
	Investment Department Timisoara			65.00	0.00	25.00	40.00	0.00	0.00	0.00
	Executive branch, of which:			<b>52,508.34</b>	<b>2,250.00</b>	<b>7,865.40</b>	<b>8,201.33</b>	<b>34,191.61</b>	<b>14,833.70</b>	<b>312.02</b>
	<i>DI</i>			2,514.00	0.00	0.00	1,000.00	1,514.00	0.00	0.00
	<i>DTIC</i>			23,032.32	0.00	69.12	210.60	22,752.60	6,285.00	0.00
	<i>UnO - DEN</i>			18,531.33	2,000.00	5,072.58	6,823.75	4,635.01	8,308.70	312.02
	<i>UEFA - DLA</i>			6,023.71	0.00	2,723.71	0.00	3,300.00	0.00	0.00
	<i>UMA - DTEETN</i>			1,156.98	0.00	0.00	166.98	990.00	0.00	0.00
	<i>DPE</i>			1,250.00	250.00	0.00	0.00	1,000.00	240.00	0.00
<b>C</b>	<i>Expenses to elaborate PFS, FS, other studies for investment objectives, including expenses necessary to obtain the law-provided permits, licenses and agreements:</i>			<b>3,164.89</b>	<b>443.00</b>	<b>253.14</b>	<b>560.00</b>	<b>1,908.75</b>	<b>10,877.13</b>	<b>524.35</b>
	Investment Department Bacau			12.00	0.00	0.00	0.00	12.00	8.00	0.00
	Investment Department Bucharest			259.00	223.00	0.00	20.00	16.00	754.22	0.00
	Investment Department Cluj			183.00	0.00	0.00	30.00	153.00	364.00	0.00
	Investment Department Craiova			375.75	0.00	1.00	140.00	234.75	322.25	0.00
	Investment Department Pitesti			114.00	0.00	40.00	0.00	74.00	0.00	0.00

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Position in PAI 2022	Name of investment objective	Approval deed	Project estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
					Q I	Q II	Q III	Q IV	2023	2024
	Investment Department Sibiu			364.00	20.00	0.00	200.00	144.00	426.00	0.00
	Investment Department Timisoara			325.00	0.00	155.00	170.00	0.00	620.00	524.35
	Executive branch, of which:			1,532.14	200.00	57.14	0.00	1,275.00	8,382.66	0.00
	DI			1,275.00	0.00	0.00	0.00	1,275.00	550.00	0.00
	OMEPA			200.00	200.00	0.00	0.00	0.00	0.00	0.00
	DTIC			0.00	0.00	0.00	0.00	0.00	7,832.66	0.00
	DIClas			57.14	0.00	57.14	0.00	0.00	0.00	0.00
D	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 activities and			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
125	UTT Bucharest: - Consolidating the foundation of terminal 61 to the 220 (400) kV OHL Brazi Vest –Teleajani	Dec. Dir. 32 / 07.01.2021 NC 5878 /18.05.2017	2,349.15	1.00	0.00	0.00	0.00	1.00	1.00	2,347.15
E	Drilling, land mapping, photogrammetry, seismologic determinations, consultancy and other investment expenses not found in the other investment categories:			2,640.37	0.00	77.00	678.00	1,885.37	392.24	0.00
	EXECUTIVE DIVISIONS - UnO DEN			310.24	0.00	0.00	0.00	310.24	0.00	0.00
126	Antiphon systems within UNO - DEN (FS, TP and execution)	NF 41995 / 01.10.2021 assumed UnO	310.24	310.24	0.00	0.00	0.00	310.24	0.00	0.00
	Operation, maintenance and REI Development Division - TOTAL - of which:			2,330.13	0.00	77.00	678.00	1,575.13	392.24	0.00
127	Replacing circuit breakers in electric substations, stage II		1,309.68	922.00	0.00	77.00	678.00	167.00	0.00	0.00
		MP: NF 51646 /06.12.2019		155.00	0.00	77.00	78.00	0.00	0.00	0.00
	Investment Department Sibiu: IO 400 kV -1 pc Darste IO 110 kV - 2 pcc Fantanele	NF 50243 / 27.11.2018		600.00	0.00	0.00	600.00	0.00	0.00	0.00
	Investment Department Constanta: IO 400 kV -1 buc Smardan			167.00	0.00	0.00	0.00	167.00	0.00	0.00
128	Replacing circuit breakers in electric substations, stage III	NF 38514/2021 assumed DEMDRET cf rezol. Dir	1,800.37	1,408.13	0.00	0.00	0.00	1,408.13	392.24	0.00
		MP:		1,408.13	0.00	0.00	0.00	1,408.13	392.24	0.00
F	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			0.00	0.00	0.00	0.00	0.00	0.00	0.00

THE COMPANY'S INVESTMENT PROGRAMME FOR 2022 AND THE ESTIMATED INVESTMENT EXPENDITURES FOR 2023 AND 2024 - proposal

Chapter III - "OTHER INVESTMENT EXPENSES" :

b) List of independent endowments (technological)

(thousand Lei, VAT exclude)

Position in PAI 2022	Name / Branch; Division; Compartment	Q-ant.	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
						Q I	Q II	Q III	Q IV	2023	2024
	<b>TOTAL GENERAL</b>				<b>54,763.53</b>	<b>3,106.55</b>	<b>8,621.67</b>	<b>8,610.03</b>	<b>34,425.28</b>	<b>14,833.70</b>	<b>312.02</b>
	<i>Territorial Transmission Units</i>				<b>2,255.19</b>	<b>856.55</b>	<b>756.27</b>	<b>408.70</b>	<b>233.67</b>	<b>0.00</b>	<b>0.00</b>
<b>III.B.1</b>	<b>Investment Department Bacau</b>				<b>1,144.25</b>	<b>856.55</b>	<b>79.00</b>	<b>208.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>5</b>	<b>Technological endowments</b>				<b>1,144.25</b>	<b>856.55</b>	<b>79.00</b>	<b>208.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5.1	Batteries of the electric supply system, UTT Bacau	4	NF 40923 / 15.10.2020	57.00	57.00	0.00	57.00	0.00	0.00	0.00	0.00
5.2	Condenser batteries in the 400/220/110/20 kV substation Suceava, the 400/110 kV substation Roman Nord & the 220/110/20 kV substation Focsani Vest	4	NF 15684 / 08.04.2021	856.55	856.55	856.55	0.00	0.00	0.00	0.00	0.00
5.3	Motor scythe	1	NF 11883 / 19.10.2021 assumed UTT Bc	4.00	4.00	0.00	0.00	4.00	0.00	0.00	0.00
5.4	Motor mill for snow	1	NF 11882 / 19.10.2021 assumed UTT Bc	22.00	22.00	0.00	22.00	0.00	0.00	0.00	0.00
5.5	Web camera system for video conference	1	NF 11814 / 18.10.2021 assumed UTT Bc	4.20	4.20	0.00	0.00	4.20	0.00	0.00	0.00
5.6	Video interactive system	1	NF 11815 / 18.10.2021 assumed UTT Bc	4.50	4.50	0.00	0.00	4.50	0.00	0.00	0.00
5.7	Air conditioning appliances (1200 BTU - 9 pcs; 1800 BTU - 10 pcs; 2400 BTU - 6 pcs)	25	NF 11874 / 19.10.2021 assumed UTT Bc	192.00	192.00	0.00	0.00	192.00	0.00	0.00	0.00
5.8	Espress coffee	1	NF 11881 / 19.10.2021 assumed UTT Bc	4.00	4.00	0.00	0.00	4.00	0.00	0.00	0.00
<b>III.B.2</b>	<b>Investment Department Cluj</b>				<b>150.00</b>	<b>0.00</b>	<b>0.00</b>	<b>150.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>5</b>	<b>Technological endowments</b>				<b>150.00</b>	<b>0.00</b>	<b>0.00</b>	<b>150.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5.9	220 V condenser battery for the 220/110 kV substation Tihau	1	NF 4918 / 17.06.2021; NF 7645 / 10.08.2020	75.00	75.00	0.00	0.00	75.00	0.00	0.00	0.00
5.10	220 V condenser battery for the 220/110/20 kV substation Floresti	1	NF 39414 / 17.09.2021	75.00	75.00	0.00	0.00	75.00	0.00	0.00	0.00
<b>III.B.3</b>	<b>Investment Department Craiova</b>				<b>444.27</b>	<b>0.00</b>	<b>444.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>5</b>	<b>Technological endowments</b>				<b>444.27</b>	<b>0.00</b>	<b>444.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5.11	Replacing capacitor batteries 1 & 2 of the 220/110 kV substation Isalnita	2	NF 32486 / 29.07.2021; NF 691 / 15.09.2020	406.27	406.27	0.00	406.27	0.00	0.00	0.00	0.00
5.12	Router FIREWALL - SCCP Iron Gates substation	1	NF 32014 / 26.07.2021	10.55	10.55	0.00	10.55	0.00	0.00	0.00	0.00
5.13	Router 24 ports (VLANs) - SCCP CTSI Craiova	1	NF 32015 / 30.07.2021	27.45	27.45	0.00	27.45	0.00	0.00	0.00	0.00
<b>III.B.4</b>	<b>Investment Department Sibiu</b>				<b>451.67</b>	<b>0.00</b>	<b>208.00</b>	<b>10.00</b>	<b>233.67</b>	<b>0.00</b>	<b>0.00</b>
<b>5</b>	<b>Technological endowments</b>				<b>451.67</b>	<b>0.00</b>	<b>208.00</b>	<b>10.00</b>	<b>233.67</b>	<b>0.00</b>	<b>0.00</b>

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Position in PAI 2022	Name / Branch; Division; Compartment	Q-ant.	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
						Q I	Q II	Q III	Q IV	2023	2024
5.14	Drones	9	NF 47271 / 19.11.2020	208.00	208.00	0.00	208.00	0.00	0.00	0.00	0.00
5.15	Procuring & installing air conditioning equipment for the installations of UTT Sibiu	55	NF 10361 / 15.09.2021 assumed UTT sibiu	233.67	233.67	0.00	0.00	0.00	233.67	0.00	0.00
5.16	Audiometer	1	NF 9998 / 06.09.2021 assumed UTT Sibiu	10.00	10.00	0.00	0.00	10.00	0.00	0.00	0.00
<b>III.B.5</b>	<b>Investment Department Timisoara</b>				<b>65.00</b>	<b>0.00</b>	<b>25.00</b>	<b>40.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>5</b>	<b>Technological endowments</b>				<b>65.00</b>	<b>0.00</b>	<b>25.00</b>	<b>40.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5.17	100 kW thermal equipment	1	NF 40743 / 23.09.2021	40.00	40.00	0.00	0.00	40.00	0.00	0.00	0.00
5.18	Compressor	1	NF 41109 / 24.09.2021	25.00	25.00	0.00	25.00	0.00	0.00	0.00	0.00
	<b>Executive branch</b>				<b>52,508.34</b>	<b>2,250.00</b>	<b>7,865.40</b>	<b>8,201.33</b>	<b>34,191.61</b>	<b>14,833.70</b>	<b>312.02</b>
<b>III.B.6</b>	<b>INVESTMENT DIVISION</b>				<b>2,514.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,000.00</b>	<b>1,514.00</b>	<b>0.00</b>	<b>0.00</b>
<b>5</b>	<b>Technological endowments</b>				<b>2,514.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,000.00</b>	<b>1,514.00</b>	<b>0.00</b>	<b>0.00</b>
5.19	110 kV, 220 kV and 400 kV mobile bays	7	NF 39080 / 25.10.2017; RN 42230 / 09.11.2017	21,667.00	2,514.00	0.00	0.00	1,000.00	1,514.00	0.00	0.00
<b>III.B.7</b>	<b>DM OMEPA</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>III.B.8</b>	<b>DTIC</b>				<b>23,032.32</b>	<b>0.00</b>	<b>69.12</b>	<b>210.60</b>	<b>22,752.60</b>	<b>6,285.00</b>	<b>0.00</b>
<b>2</b>	<b>Computation technique &amp; software</b>				<b>21,132.32</b>	<b>0.00</b>	<b>69.12</b>	<b>210.60</b>	<b>20,852.60</b>	<b>6,285.00</b>	<b>0.00</b>
<b>2.1</b>	<b>Computation technique - hardware &amp; software, of which:</b>				<b>2,478.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2,478.03</b>	<b>0.00</b>	<b>0.00</b>
2.1.a	Computation technique - hardware & software - Laptop PC	538	NF 51074 / 15.12.2020	2,478.03	2,478.03	0.00	0.00	0.00	2,478.03	0.00	0.00
2.2	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
2.3	IT & data communication equipment		NF 30232 / 08.08.2018	156.63	156.63	0.00	0.00	0.00	156.63	0.00	0.00
2.4	Web Portal	1	NF 46425 / 05.11.2021 assumed DTIC	8,670.67	8,670.67	0.00	0.00	0.00	8,670.67	0.00	0.00
2.5	Plotter	1	NF 35473/07.09.2020	50.00	50.00	0.00	0.00	0.00	50.00	0.00	0.00
2.6	CPE (Customer Premises Equipment) router-type equipment	2	NF 40118 / 15.09.2021 assumed DTIC-Rev A7 PAI	150.00	149.90	0.00	0.00	0.00	149.90	0.00	0.00
2.7	MCA - WEB application managed by CNTEE Transelectrica SA		NF 48987 / 09.11.2021 assumed DTIC cf rezol. Dir 44451/13.10.2021	69.12	69.12	0.00	69.12	0.00	0.00	0.00	0.00
2.8	MENT - RET maintenance application and unitary database - BDU for the structures, installations, components and systems - SISC managed by CNTEE Transelectrica SA		NF 45359 / 22.10.2021 assumed DTIC cf rezol. Dir 44451/13.10.2021	210.60	210.60	0.00	0.00	210.60	0.00	0.00	0.00
2.9	Extending the WI FI system, own network access and internet		NF 47788/ 2021 assumed DTIC cf rezol. Dir 44451/13.10.2021	147.37	147.37	0.00	0.00	0.00	147.37	0.00	0.00
2.10	Upgrading the electronic messenger within CNTEE Transelectrica SA		NF 48062 / 03.11.2021 assumed DTIC	9,200.00	9,200.00	0.00	0.00	0.00	9,200.00	0.00	0.00

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Position in PAI 2022	Name / Branch; Division; Compartment	Q-ant.	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
						Q I	Q II	Q III	Q IV	2023	2024
<b>5</b>	<b>Technological endowments</b>				<b>1,900.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,900.00</b>	<b>0.00</b>	<b>0.00</b>
5.20	Arranging and upgrading conference rooms, Executive branch		NF 42312 / 29.09.2021 assumed DTIC	1,900.00	1,900.00	0.00	0.00	0.00	1,900.00	0.00	0.00
<b>III.B.9</b>	<b>UnO-DEN</b>				<b>18,531.33</b>	<b>2,000.00</b>	<b>5,072.58</b>	<b>6,823.75</b>	<b>4,635.01</b>	<b>8,308.70</b>	<b>312.02</b>
<b>2</b>	<b>Computation technique and software</b>				<b>17,019.76</b>	<b>2,000.00</b>	<b>5,072.58</b>	<b>6,823.75</b>	<b>3,123.43</b>	<b>8,308.70</b>	<b>312.02</b>
2.11	Replacing the hardware components, updating and developing applications specific for the Balancing Market Platform - II DAMAS, Component - migration service procurement & upgrade applications specific for the Balancing Market and the IT platform DAMAS		RN 41969 / 19.10.2020 RN 34665 / 03.09.2020 NC 11529 / 31.03.2020 NF 42812 / 17.10.2019	11,588.50	10,738.50	2,000.00	4,000.00	4,438.50	300.00	0.00	0.00
2.12	Implementing new functions and software changes in the EMS - SCADA IT system to apply the European & national legislative requirements		NF 8727 / 03.03.2020	3,250.00	2,425.00	0.00	775.00	825.00	825.00	825.00	0.00
2.13	Developing dedicated software necessary to determine reserve quantities using the probabilistic method		NF 42281 / 29.09.2021 assumed UnO DEN	9,000.00	2,000.00	0.00	0.00	1,000.00	1,000.00	7,000.00	0.00
2.14	Development of MARI platform		NF 24580 / 18.06.2021	2,081.65	1,227.98	0.00	297.58	0.00	930.41	284.56	284.56
2.15	Development of PICASSO platform		NF 24581 / 18.06.2021	560.25	560.25	0.00	0.00	560.25	0.00	0.00	0.00
2.16	Development of CMM platform		NF 24578 / 18.06.2021	377.05	68.03	0.00	0.00	0.00	68.03	199.15	27.47
<b>5</b>	<b>Technological endowments</b>				<b>1,511.58</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,511.58</b>	<b>0.00</b>	<b>0.00</b>
5.21	Endowment of training hall and DTS within UNO - DEN		NF 49316 / 10.11.2021 assumed UnO DEN; NF 11037 / 15/03/2021;	680.02	680.02	0.00	0.00	0.00	680.02	0.00	0.00
5.22	Endowing TEL's data centres with necessary equipment		NF 36714 / 11.09.2020; RN 38809/25.09.2020;	1,192.43	200.00	0.00	0.00	0.00	200.00	0.00	0.00
5.23	Professional air conditioning equipment for the electric supply rooms, telecommunication room and control rooms from DET-s Bacau, Cluj, Craiova and Timisoara		NF 41996 / 01.10.2021 assumed UnO DEN	631.56	631.56	0.00	0.00	0.00	631.56	0.00	0.00
<b>III.B.10</b>	<b>UEFA-DLA</b>				<b>6,023.71</b>	<b>0.00</b>	<b>2,723.71</b>	<b>0.00</b>	<b>3,300.00</b>	<b>0.00</b>	<b>0.00</b>
<b>1</b>	<b>Transportation means</b>				<b>3,300.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3,300.00</b>	<b>0.00</b>	<b>0.00</b>
1.1	Motor cars	42	NF 49328 / 10.11.2021 assumed UEFA	3,300.00	3,300.00	0.00	0.00	0.00	3,300.00	0.00	0.00
<b>5</b>	<b>Technological endowments</b>				<b>2,639.83</b>	<b>0.00</b>	<b>2,639.83</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5.24	VRF/VRV air conditioning installations for office spaces within UNO DEN situated in Blvd Hristo Botev 16-18	4	NF 38818 / 22.09.2021; NF 37180 / 24.09.2020 NF 33461 / 06.08.2019	2,639.83	2,639.83	0.00	2,639.83	0.00	0.00	0.00	0.00
<b>6</b>	<b>Furniture</b>				<b>83.88</b>	<b>0.00</b>	<b>83.88</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

CNTEE "Transelectrica" - SA - Societate administrată în sistem dualist  
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Position in PAI 2022	Name / Branch; Division; Compartment	Q-ant.	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
						Q I	Q II	Q III	Q IV	2023	2024
6.1	Furniture for meeting and protocol rooms of Platinum Building, situated in Str. Olteni 2-4	1 set	RN 30305/28.07.2021; NF 12121 / 24.03.2021	83.88	83.88	0.00	83.88	0.00	0.00	0.00	0.00
<b>III.B.11</b>	<b>UMA-DTEETN</b>				<b>1,156.98</b>	<b>0.00</b>	<b>0.00</b>	<b>166.98</b>	<b>990.00</b>	<b>0.00</b>	<b>0.00</b>
<b>2</b>	<b>Computation technique and software</b>				<b>990.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>990.00</b>	<b>0.00</b>	<b>0.00</b>
2.17	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	0.00	0.00	0.00	990.00	0.00	0.00
<b>5</b>	<b>Technological endowments</b>				<b>166.98</b>	<b>0.00</b>	<b>0.00</b>	<b>166.98</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5.25	<b>Topographical appliances and computation technique (hardware &amp; software), of which:</b>	1 set	NF 28572 / 21.07.2021	<b>166.98</b>	<b>166.98</b>	<b>0.00</b>	<b>0.00</b>	<b>166.98</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	- GNSS system & accessories - 1 assembly			63.20	63.20	0.00	0.00	63.20	0.00		
	- total station & accessories - 1 assembly			67.17	67.17	0.00	0.00	67.17	0.00		
	- graphic station - 1 assembly			12.90	12.90	0.00	0.00	12.90	0.00		
	- laptop - 1 assembly			9.74	9.74	0.00	0.00	9.74	0.00		
	- topo-geodesic soft Toposys - 1 set			2.22	2.22	0.00	0.00	2.22	0.00		
	- Topo LT package - 1 set			6.41	6.41	0.00	0.00	6.41	0.00		
	- Global Mapper software - pc			5.35	5.35	0.00	0.00	5.35	0.00		
<b>III.B.12</b>	<b>Energy Markets Division</b>				<b>1,250.00</b>	<b>250.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,000.00</b>	<b>240.00</b>	<b>0.00</b>
<b>2</b>	<b>Computation technique and software</b>				<b>1,250.00</b>	<b>250.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,000.00</b>	<b>240.00</b>	<b>0.00</b>
2.18	GE licence - Soft module to make capacity calculations based on power flows	1	NOTA 27641 / 07.07.2021	250.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00
2.19	IT patform for capacity calculation	1	NF 50709 / 2021 assumed DPE	1,240.00	1,000.00	0.00	0.00	0.00	1,000.00	240.00	0.00

PROGRAMUL DE INVESTIȚII AL COMPANIEI PE ANUL 2022  
ȘI CHELTUIELILE DE INVESTIȚII ESTIMATE PENTRU ANII 2023 ȘI 2024 - propunere

cap. III - "ALTE CHELTUIELI DE INVESTITII" :

c) Cheltuieli pentru elaborarea SPF, SF, a altor studii aferente obiectivelor de investitii (Lista de studii)

( mii lei, fara TVA )

Pos. PAI 2022	Name	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
					Q I	Q II	Q III	Q IV	2023	2024
<b>C.</b>	<b>Expenses to elaborate PFS, FS, other studies - TOTAL, of which:</b>			<b>3,164.89</b>	<b>443.00</b>	<b>253.14</b>	<b>560.00</b>	<b>1,908.75</b>	<b>10,877.13</b>	<b>524.35</b>
<b>C.1</b>	<b>Investment Department Bacau</b>			<b>12.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>12.00</b>	<b>8.00</b>	<b>0.00</b>
83	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	12.00	0.00	0.00	0.00	12.00	8.00	0.00
<b>C.2</b>	<b>Investment Department Bucharest</b>			<b>259.00</b>	<b>223.00</b>	<b>0.00</b>	<b>20.00</b>	<b>16.00</b>	<b>754.22</b>	<b>0.00</b>
84	Replacing the interior heating installation & air conditioning in the administrative building, UTT Bucharest offices (SE+PT+CS)	NF 11365 / 23.09.2016;	50.00	10.00	10.00	0.00	0.00	0.00	40.00	0.00
85	Instalatie de incalzire cladire corp comanda Statia Turnu Magurele (SF)	NF 11366 / 23.09.2016; NJ 15318 /02.10.2018	34.00	10.00	10.00	0.00	0.00	0.00	24.00	0.00
86	Increasing the supply safety of consumers in north-eastern Bucharest City connected to the 220/110/10 kV substation Fundeni	NC (TEL) 15341 /04.04.2018	287.83	202.00	202.00	0.00	0.00	0.00	85.83	0.00
87	Upgrade in order to diminish galloping effects to the 220 kV OHL Bucharest South – Ghizdaru 1+2 si and to the 220 kV OHL Derivatia Mostistea	NC13498/13.09.2019	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
88	Upgrading the command control protection system of the 220/110/20 kV substation Targoviste	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
89	Increasing the transmission capacity of the 400 kV OHL section Bucharest South - Pelicanu (8 km)	NC (TEL) 35925 / 29.08.2018	56.60	5.00	0.00	0.00	0.00	5.00	51.60	0.00
90	Upgrading the command control SCADA system of the 400/110/20 kV substation Gura Ialomitei	NC 12626 / 22.03.2021	194.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00
91	Smart grid pilot project: Achieving a smart-grid solution to use & store renewable electricity in view of providing back-up supply solution for auxiliary services, the 400/220/110 kV substation Brazi Vest	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
92	Upgrading the command, control, protection and automation system of the 400/220/110 kV Bucharest South	NC 26405/23.06.2021	195.92	10.00	0.00	0.00	0.00	10.00	185.92	0.00
<b>C.3</b>	<b>Investment Department Cluj</b>			<b>183.00</b>	<b>0.00</b>	<b>0.00</b>	<b>30.00</b>	<b>153.00</b>	<b>364.00</b>	<b>0.00</b>
93	Upgrading SCADA in the 400/110/20 kV substation Oradea Sud	RN 3851 / 02.02.2021; NC 40413 / 04.10.2018	164.00	36.00	0.00	0.00	0.00	36.00	128.00	0.00
94	Upgrading the command control protection system of the 400/220 kV substation Rosiori	NC 20683/21.05.2021	164.00	36.00	0.00	0.00	0.00	36.00	128.00	0.00

**CNTEE "Transelectrica" - SA - Societate administrată în sistem dualist**  
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Pos. PAI 2022	Name	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
					Q I	Q II	Q III	Q IV	2023	2024
95	Installing the 400 MVA, 400/220 kV AT1 in the 400/220 kV substation Rosiori	NC 17239/04.05.2021	164.00	56.00	0.00	0.00	0.00	56.00	108.00	0.00
96	Installing anti-burglary system, closed circuit video supervision, access control and fire detection in the offices of CE Cluj and storehouse of UTT Cluj	NC 17702/29.04.2021	25.00	25.00	0.00	0.00	0.00	25.00	0.00	0.00
97	Upgrading the outdoor and perimeter lighting in the 400/110/10 kV substation Cluj Est	NC 8525/01.11.2021 - assumed UTT Cluj	30.00	30.00	0.00	0.00	30.00	0.00	0.00	0.00
<b>C.4</b>	<b>Investment Department Craiova</b>			<b>375.75</b>	<b>0.00</b>	<b>1.00</b>	<b>140.00</b>	<b>234.75</b>	<b>322.25</b>	<b>0.00</b>
98	Upgrading the SCCP of the 400 kV substation Tantareni (FS)	NF (TEL) 39491 / 08.10.2018	210.00	126.50	0.00	0.50	0.00	126.00	0.00	0.00
99	Replacing the null creating resistance 600/300 A ST the 110/20 kV T of the 220/110 kV subst. Severin Est	NC 439 / 15.09.2020	17.50	17.50	0.00	0.00	8.75	8.75	0.00	0.00
100	Upgrading the 220 kV OHL Isalnita - Craiova Nord circuit 2 by replacing the existent protection conductor with a new OPGW one	NC 694 / 16.09.2020	15.20	0.50	0.00	0.50	0.00	0.00	0.00	0.00
101	Procuring and installing a 100 MVar shunt reactor in the 400 kV substation Iron Gates	NC 79 / 15.02.2021	200.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00
102	Upgrading the 400/220/110 kV substation Urechesti	NC 49142/10.11.2021 assumed UTT Cr	380.00	95.00	0.00	0.00	95.00	0.00	285.00	0.00
103	Upgrading the electric supply of UTT headquarters and of CTSI	NC 39545/14.09.2021	48.50	24.25	0.00	0.00	24.25	0.00	24.25	0.00
104	Upgrading the supervision point building Vulcan the 220 kV OHL Paroseni-Tg Jiu Nord	NC 40226 / 16.09.2021	25.00	12.00	0.00	0.00	12.00	0.00	13.00	0.00
<b>C.5</b>	<b>Investment Department Pitesti</b>			<b>114.00</b>	<b>0.00</b>	<b>40.00</b>	<b>0.00</b>	<b>74.00</b>	<b>0.00</b>	<b>0.00</b>
105	Upgrading the building of the 220/110 kV substation Stuparei	NOTA 40589 / 17.09.2021; NC 14657 / 06.04.2021	40.00	40.00	0.00	40.00	0.00	0.00	0.00	0.00
106	Fire detection and warning installation in the 400/220/110 kV substation Slatina	NC 46577 / 26.10.2021 - assumed UTT Pitesti	29.00	29.00	0.00	0.00	0.00	29.00	0.00	0.00
107	Upgrading the heating/cooling installation prepararing also consumption hot water in the headquarters of UTT Pitesti - str Fratii Golesti 25 B and the administrative building of Blvd Republicii 192	NC 8960/24.09.2021 assumed UTT Pitesti	40.00	40.00	0.00	0.00	0.00	40.00	0.00	0.00
108	Upgrading the lighting system in the headquarters of UTT Pitesti - str Fratii Golesti 25 B and the administrative building of Blvd Republicii 192	NC 9076/27.09.2021 assumed UTT Pitesti	5.00	5.00	0.00	0.00	0.00	5.00	0.00	0.00
<b>C.6</b>	<b>Investment Department Sibiu</b>			<b>364.00</b>	<b>20.00</b>	<b>0.00</b>	<b>200.00</b>	<b>144.00</b>	<b>426.00</b>	<b>0.00</b>
109	Upgrading the building of substation Sibiu Sud	NC 8382/ 23.01.2018	91.00	20.00	20.00	0.00	0.00	0.00	71.00	0.00
110	Upgrading the 220/110/20 kV substation Fantanele	NC (TEL) 23474 / 15.06.2021 NC (TEL) 35623 / 28.09.2017	275.00	100.00	0.00	0.00	100.00	0.00	175.00	0.00

**CNTEE "Transelectrica" - SA - Societate administrată în sistem dualist**  
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Pos. PAI 2022	Name	Approval document	Estimated value	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
					Q I	Q II	Q III	Q IV	2023	2024
111	Upgrading the communication & IT network, UTT Sibiu offices	NF 9385 / 02.09.2015	75.00	74.00	0.00	0.00	0.00	74.00	0.00	0.00
112	Upgrading the control protection and automation system of the 400/220/110/20 kV substation Sibiu Sud	NF (TEL) 10464 / 22.03.2017	200.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00
113	Replacing the substation fence and regulating access to the 400/110 kV substation Brasov	NC 10331 / 14.09.2021. assumed UTT Sibiu	60.00	30.00	0.00	0.00	0.00	30.00	30.00	0.00
114	Achieving the concreted platform of the old 400 kV substation Brasov and land arrangement	NC 10330 / 14.09.2021. assumed UTT Sibiu	90.00	40.00	0.00	0.00	0.00	40.00	50.00	0.00
<b>C.7</b>	<b>Investment Department Timisoara</b>			<b>325.00</b>	<b>0.00</b>	<b>155.00</b>	<b>170.00</b>	<b>0.00</b>	<b>620.00</b>	<b>524.35</b>
115	Refurbishing the 110 kV substation Arad and converting the Iron Gates - Anina - Resita - Timisoara - Sacalaz - Arad axis to 400 kV; the 400 kV substation Arad (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	100.00
116	Refurbishing the 110 kV substation Sacalaz and converting the Iron Gates - Anina - Resita - Timisoara - Sacalaz - Ara axis to 400 kV; the 400 kV substation Sacalaz, (stage III)	NF (TEL) 8369 / 01.10.2012	150.00	5.00	0.00	5.00	0.00	0.00	5.00	45.00
117	Upgrading the industrial building 1, UTT Timisoara	NC 14487 / 07.12.2018	250.00	5.00	0.00	0.00	5.00	0.00	10.00	100.00
118	Upgrading the command control protection system of the 220 kV substation Paroseni	NC 873 / 25.01.2018	184.35	5.00	0.00	0.00	5.00	0.00	100.00	79.35
119	Upgrading the command control protection system of the 220/110 kV substation Pestis	NC (TEL) 52026 / 17.12.2018	325.00	5.00	0.00	0.00	5.00	0.00	100.00	100.00
120	Replacing the conductors of the 220 kV OHL axis Urechesti - Targu Jiu Nord - Paroseni - Baru Mare - Hasdat	NC(TEL) 34269 / 24.08.2021	350.00	5.00	0.00	0.00	5.00	0.00	50.00	100.00
<b>C.8</b>	<b>Company's Executive part</b>			<b>1,532.14</b>	<b>200.00</b>	<b>57.14</b>	<b>0.00</b>	<b>1,275.00</b>	<b>8,382.66</b>	<b>0.00</b>
	<b>DI</b>			<b>1,275.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,275.00</b>	<b>550.00</b>	<b>0.00</b>
121	Optimising voltage control and electricity quality parameters by installing FACTS type equipment in substations Gutinas, Suceava & Rosiori	NC 16593 / 26.04.2021	1,825.00	1,275.00	0.00	0.00	0.00	1,275.00	550.00	0.00
	<b>OMEPA</b>			<b>200.00</b>	<b>200.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
122	Power Quality Monitoring System, PQMS (FS, TP, ToR)	NC 32049 / 12.08.2019 NC 43532 / 16.10.2018	1,178.03	200.00	200.00	0.00	0.00	0.00	0.00	0.00
	<b>DTIC</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7,832.66</b>	<b>0.00</b>
123	Developing the IT&C capabilities of CNTEE Transelectrica SA – Infrastructure, processes, competences	NC 19117 / 06.05.2021; NC 66 / 23.04.2020 NC 9452 / 04.04.2019	7,832.66	0.00	0.00	0.00	0.00	0.00	7,832.66	0.00
	<b>DIClas</b>			<b>57.14</b>	<b>0.00</b>	<b>57.14</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
124	Implementing physical security measures in the areas where classified information is managed		57.14	57.14	0.00	57.14	0.00	0.00	0.00	0.00

THE COMPANY'S INVESTMENT PROGRAMME FOR 2022 AND THE ESTIMATED INVESTMENT EXPENDITURES FOR 2023 AND 2024 - proposal

ii. INVESTMENT EXPENSES FINANCED FROM THE CONNECTION FEE

(thousand Lei, VAT excluded)

Pos. PAI 2022	UTT	Name of investment objectives	Initial PAI 2022	Quarterly spread-out - E				Estimated value	
				Q I	Q II	Q III	Q IV	2023	2024
1	SB	RET connection of the 430 MW CCC generating place Iernut of SNGN ROMGAZ SA – SPEE Iernut in the 400/220/110/6 kV substation Iernut	170.00	50.00	120.00	0.00	0.00	0.00	0.00
2	CT	Relocating utilities by freeing the location and providing coexistence conditions between the "Suspended bridge over the Danube in Braila region" objective of CNAIR SA and the electricity networks managed by CNTEE Transelectrica SA	7,678.32	7,678.32	0.00	0.00	0.00	0.00	0.00
3	B	RED connection contract of the 110 kV substation Ploiesti Parc, owned by User Distributie Electrica [Electricity Distribution] Romania SA by providing work to the line bay of the 110 kV OHL Brazi Vest-Ploiesti Nord (Ploiesti Park) of the 400/220/100/20 kV substation Brazi Vest belonging to CNTEE Transelectrica SA	306.38	306.38	0.00	0.00	0.00	0.00	0.00
4	B	Connection contract for CEF Danesti generating place to the public interest electricity network managed by CNTEE Transelectrica SA	2,355.24	2,355.24	0.00	0.00	0.00	0.00	0.00
<b>TOTAL CHAPTER B</b>			<b>10,509.94</b>	<b>10,389.94</b>	<b>120.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

4. List of Foundation Notes and of Conceptual Notes assumed by entities included in the draft 2022 Annual Investment Plan (PAI 2022) subjected to approval in accordance with the Directorate resolution 44451/13.10.2021

No.	Pos. PAI 2022	ENTITY / Investment objective	NF, NC assumed by entity	TOTAL estimated value [thous Lei]
<b>DTIC</b>				
1	2.4	Web Portal - 1 pc	NF 46425 / 05.11.2021 Assumed by DTIC	8,670.67
2	2.6	Router type equipment CPE (Customer Premises Equipment) - 2 pcs	NF 40118 / 15.09.2021 Assumed DTIC	149.90
3	2.7	MCA - WEB application managed by CNTEE Transelectrica SA	NF 48987 / 09.11.2021 Assumed DTIC	69.12
4	2.8	MENT - RET maintenance software and unitary database - BDU for the structures, installations, components and systems - SISC managed by CNTEE Transelectrica SA	NF 45359 / 22.10.2021 Assumed DTIC	210.60
5	2.9	Extending WI FI system access one's network and the internet	NF 47788 / 02.11.2021 Assumed DTIC	147.37
6	2.10	Upgrading the electronic messenger within CNTEE Transelectrica SA	NF 48062 / 03.11.2021 Assumed DTIC	9,200.00
7	5.20	Developing and upgrading Conference rooms in the Executive branch	NF 42312 / 29.09.2021 Assumed DTIC	1,900.00
<b>UnO DEN</b>				
8	2.13	Developing dedicate software, needed to determine reserve amounts using the probabilistic method	NF 42281 / 29.09.2021 Assumed by UnO DEN	9,000.00
9	5.21	Equipping the training room & DTS of UNO - DEN	NF 49316 / 10.11.2021 Assumed UnO DEN;	680.02
10	5.23	Professional air conditioning equipment for electric supply rooms, tele-communication rooms and control rooms of DET-s Bacau, Cluj, Craiova and Timisoara	NF 41996 / 01.10.2021 Assumed UnO DEN	631.56
11	125	Antiphon systems within UNO - DEN (FS, TP and execution)	NF 41995 / 01.10.2021 Assumed UnO DEN	310.24
<b>UEFA</b>				
12	1.1	Motor cars - 42 pcs	NF 49328 / 10.11.2021 Assumed UEFA	3,300.00
<b>DEMDRET</b>				
13	127	Replacing circuit breakers in electric substations, stage III	NF 38514/2021 Assumed DEMDRET	1,800.37
<b>DPE</b>				
	2.19	IT Platform for capacity calculations	NF 50709 / 2021 Assumed DPE	1,240.00
<b>Investment Department Bacau</b>				
14	5.3	Motor scythe - 1 pc.	NF 11883/19.10.2021 Assumed UTT Bacau	4.00

15	5.4	Motor mill for snow pc. - 1	NF 11882 /19.10.2021 Assumed UTT Bacau	22.00
16	5.5	Web camera system for video conference - 1 pc.	NF 11814/18.10.2021 Assumed UTT Bacau	4.20
17	5.6	Interactive video system - 1 pc.	NF 11815/18.10.2021 Assumed UTT Bacau	4.50
18	5.7	Air conditioning appliances (1200 BTU - 9 pcs; 1800 BTU - 10 pcs; 2400 BTU - 6 pcs)	NF 11874 /19.10.2021 Assumed UTT Bacau	192.00
19	5.8	Coffee espresso - 1 pc.	NF 11881 / 19.10.2021 Assumed UTT Bacau	4.00
<b>Investment Department Bucharest</b>				
20	89	Upgrade to diminish galloping effects to the 400 kV OHL Bucharest South – Gura Ialomitei	NC 6917/09.06.2020 Assumed UTT Buc	2,030.35
<b>Investment Department Cluj</b>				
21	97	Upgrading the outdoor & perimeter lighting in the 400/110/10 kV substation Cluj Est	NC 8525/01.11.2021 - Assumed UTT Cluj	330.00
<b>Investment Department Craiova</b>				
22	102	Upgrading the 400/220/110 kV substation Urechesti	NC 49142/10.11.2021 Assumed UTT Craiova	29,880.00
<b>Investment Department Pitesti</b>				
23	106	Installation for fire detection & warning in the 400/220/110 kV substation Slatina	NC 46577 / 26.10.2021 Assumed UTT Pitesti	105.91
24	107	Upgrading the heating / cooling installation and drinking hot water supply in the offices of UTT Pitesti – Str. Fratii Golesti 25 B and administrative building of Blvd Republicii 192	NC 8960/24.09.2021 Assumed UTT Pitesti	1,240.00
25	108	Upgrading the lighting system of offices UTT Pitesti – Str. Fratii Golesti 25 B and administrative building of Blvd Republicii 192	NC 9076/27.09.2021 Assumed UTT Pitesti	181.94
<b>Investment Department Sibiu</b>				
26	5.15	Procuring and installing air conditioning units in the installations of UTT Sibiu - 55 pcs	NF 10361 / 15.09.2021 Assumed UTT Sibiu	233.67
27	5.16	Audio meter - 1 pc	NF 9998 / 06.09.2021 Assumed UTT Sibiu	10.00
28	113	Replacing substation fencing and access regulation in the 400/110 kV substation Brasov	NC 10331 / 14.09.2021 Assumed UTT Sibiu	1,250.00
29	114	Making a concreted platform in the old 400 kV substation Brasov and land development	NC 10330 / 14.09.2021. Assumed UTT Sibiu	1,900.00

## RISK IMPACT OVER PAI 2022

Risks	Pos. in PAI	Investment objective	Impact of risks [thous. Lei]	Share in Company's own total expenses
<b>EXTERNAL</b>			<b>60,000</b>	<b>13.42%</b>
<b>Contractors' delays: poor financial situation</b>	3	Converting the Iron Gates - Resita - Timisoara - Sacalaz - Arad axis to 400 kV - stage I the 400/220/110 kV substation Resita	6,000	
	11	Upgrading the 110 and 400 (220) kV installations of substation Focsani Vest	3,000	
	15	Refurbishing the 400/110/20 kV substation Smardan	10,000	
	18	Refurbishing the 110 kV substation Timisoara and Converting the Iron Gates - Anina - Resita - Timisoara - Sacalaz - Arad axis to 400 kV, stage II: the 400 kV substation Timisoara	5,000	
	20	Refurbishing the 110 kV substation Medgidia Sud	14,000	
	22	The 400 kV substation Stalpu and Upgrading the 110 kV & medium voltage bays in substation Stalpu	22,000	
<b>INTERNAL (PAI achievement degree in the UTTs and Executive Entities, others than the Investment Division)</b>		<p>PAI <b>achievement degree</b> in the UTTs and Executive Divisions (others than the Investment Division) in the last 2 years: 2020- 91.70%; 2021- estimated 85%; it follows 88.35% achievement degree.</p> <p><b>Average risk impact over the specific UTTs' and Executive Divisions' expenses: 11.65%</b></p> <p><b>Applying this percentage to the 2022 expenses of UTTs and Executive Divisions (total 103,513 thousand Lei) would lead to a result of 12.059 thousand Lei, namely 2.70% of Company's own total expenses.</b></p>	12,059	2.70%
<b>TOTAL impact of risks in 2021</b>			<b>72,059</b>	<b>16.11%</b>

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