

Investment programs, facilities and financing sources

		thousand RON							
		INDICATORS	Date of completion	Amount					
0	1			4	5	6	7	8	9
			Approved investment program 2016 _BoD Decision 10/3.02.2016	Approved investment program 2016 _BoD Decision 148/9.12.2016	Actual 2016 -preliminary-	Investment program 2017	Investment program 2018	Investment program 2019	
I		INVESTMENT FINANCING RESOURCES, out of which:	552,174	552,174	549,622	501,024	554,345	701,448	
	1	Own sources, out of which:	552,174	552,174	549,622	501,024	525,593	542,247	
		a) – depreciation	483,515	483,515	481,290	494,215	505,582	516,705	
		b) – profit	68,659	68,659	68,332	6,808	20,011	25,542	
	2	Budgetary allowances							
	3	Bank loans, out of which:							
		a) – internal							
		b) – external							
	4	Other sources, out of which:					28,752	159,201	
		- stock exchange listing							
		- reported depreciation					28,752	159,201	
		- own SNN sources							
II		INVESTMENT EXPENSES, out of which:	460,622	404,167	323,203	440,718	554,345	701,448	
	A	Ongoing investments, of which:	177,844	160,834	110,193	119,255	225,029	422,214	
		a) for assets private property of the economic operator:	177,844	160,834	110,193	119,255	225,029	422,214	
	1	SNN Head Office	12,512	9,013	-	11,020	4,900	-	
	1.1	CNE Cernavoda (U3-U5)	8,880	8,880	-	8,920	-	-	
		- Initial contribution to the share capital of JVCo	2016	8,880	8,880	8,920	-	-	
	1.2	Other investment expenses	3,632	133	-	2,100	4,900	-	
		- Technical-economic and legal study regarding the reorganization of the mine sector of nuclear fuel	2016	1,332	-	-	-	-	
		- software licenses	2016	200	133	-	-	-	
		-Magheru consolidation	2017	2,100	-	2,100	4,900	-	
	2	CNE Cernavoda Branch (U1+U2)	162,250	149,849	108,650	107,935	219,629	417,948	
	2.1	Improvement of the live steam of U1 by replacing the steam discharge valves in the atmosphere (ASDV) with another type of valves -MPA - 581	2016	133	265	132	0	0	
	2.2	Installing a spare extractor on the steam system turbine labyrinth sealing for U1 and U2	2017	225	145	137	150	0	
	2.3	Installing access gates in the area of the supply water input chamber / pre-heater	2017	5,608	5,608	4,297	4,070	0	
	2.4	Intermediate used fuel storage (including SICA U#2)	2047	17,420	17,420	9,532	23,743	12,099	
	2.5	Development of the infrastructure of computer network in the technological buildings U1+U2	2019	1,933	5,187	5,067	1	787	
	2.6	Modernization and expansion of the Physical protection system	2020	5,000	5,000	10	16,150	29,413	
	2.7	Detritation installation system D2O (U1+U2)	2021	-	1	1	0	66,714	
	2.8	Software programs for the integrated management of the unit (Work Management System)	2016	6,025	7,360	6,128	0	0	
	2.9	Emergency alternative control center U1+U2	2019	3,000	214	127	1,087	4,400	
	2.10	Expansion of the SCADA system	2017	984	1,404	1,404	0	0	
	2.11	Expansion of the useful life of Unit 1 by re-tubing the reactor and retooling the main systems (studies)	2021	8,817	1,385	738	4,000	44,692	
	2.12	Increasing safety in operating the power evacuation system from CNE Cernavoda, by retooling the power evacuation transformers and providing a spare trafo for two units	2021	1,770	1,779	1,019	8,284	8,315	
	2.13	Modernization of the intervention support center at the simulator	2017	150	162	85	77	0	
	2.14	Improving the CNE Cernavoda response, respectively the nuclear security functions in case of events outside the design basis following the nuclear accident occurred at the nuclear plant Fukushima 1, Japan	2018	31,304	31,304	8,690	41,079	45,461	
	2.15	Retooling the ball cleaning system of the U1 condenser (BSI 42130)	2016	4,862	4,123	3,952	0	0	
	2.16	Replacing the excitation system 1-41220-PL743/3501 GENEREX from U1 due to the lack of procurement of SPV components	2016	23,083	22,774	22,774	0	0	
	2.17	Improvement of land in the property of CNE and relocation of buildings necessary for a good operation of Seiru Storage on the CNE Cernavoda territory	2018	2,040	500	4	3,211	2,874	
	2.18	Optimizing the chemical sample collection system from unit U1/U2	2016	64	75	75	0	0	
	2.19	Automating the low pressure step of the ECC U1 system	2016	2,133	1,328	1,282	0	0	
	2.20	Land/ buildings acquisition and rehabilitation/ refurbishing/ extension works	2021	861	288	282	10	250	
	2.21	Expenses for drafting pre-feasibility studies, feasibility studies and other studies of the investment objectives	2021	2,954	568	560	2,499	1,000	
	2.22	Fitting transformers 1-5144-T03/T04 and 1-5134-T05/T06 with explosion and fire prevention system	2017	986	986	1,616	367	0	
	2.23	Improving thermal performances of the steam generator 1-3311- GA#1/ GA#2/ GA#3/ GA#4 of Unit 1 by cleaning the "U" tubes	2016	42,899	41,972	40,739	0	0	
	2.24	Retooling the emulator DCC of the Full scope simulator structure	2017	-	-	-	2,285	0	
	2.25	Installing on line measuring systems of the concentration of gas dissolved in the power electro-insulating oil for 5144- T03/T04, 5134- T05/T06 from U1 and U2 and 0-5134-T1/T2 and 0-5135- TC01/TC02 from U0	2018	-	-	-	922	314	
	3	FCN Pitesti Branch	3,082	1,972	1,543	300	500	4,266	
	3.1	Ventilation and air conditioning of hall IV (Feasibility study, project, performance, support documents for environment approval)	2016	1,943	1,943	1,514	-	-	

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3.2	Integrated informatics system for the management of nuclear fuel production (SIMP)	2019	1,139	29	29	300	500	4,266
	b) for state public assets or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
	c) for state private assets or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
	d) for concession assets, leased or under management, except for those from public or private state ownership or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
	B New investments, out of which:		18,625	2,217	968	19,828	76,220	34,365
	a) for assets being the private property of the economic operator:		18,625	2,217	968	19,828	76,220	34,365
1	CNE Cernavoda Branch		8,472	2,217	968	14,110	71,130	28,565
1.1	Rehabilitation and refurbishment of roads, platforms and underground pipes (includes also the decommissioning of the interior Railroad, of the ramp for black oil and the ABA caldron. Land establishment and establishment of discharge holes for CLU from auto-tanks)	2019	1,000	-	-	1	5,983	5,582
1.2	Improvement of pumps form the ground water system 1-1531-P01, P02, P03,P05, P06, P07	2019	100	-	-	1	850	458
1.3	Equipment for the extraction of horizontal and vertical flow detectors type HESIR	2018	2,540	293	-	0	2,928	
1.4	Introducing in the aspiration pipes of the building ventilation system of the U1 reactor, before 1-7312-ACU1, of an air de-humidifying system with absorbing wheel	2019	200	-	-	1	2,319	675
1.5	Software and hardware retooling of the full scope simulator	2020	-	1	-	10	3,771	3,964
1.6	Retooling of emulator DCC of the Full scope simulator structure	2017	1,445	266	262			
1.7	Extension of the coverage area of the monitoring system of air tritium U1/U2	2017	89	-	-	89	0	0
1.8	GEM Nobile gas spectrometer for monitoring gas emissions from U#2, according to the CNCAN requirements	2018	113	-	-	113	1,238	0
1.9	Rehabilitation and update of equipment for the Pumping Station of Fire Water - SPAI	2019	446	-	-	440	675	2,844
1.10	Update of the compressed air system from U1 by replacing the instrumental air, service and breathing compressors with new generation compressors	2019	100	-	-	1	6,044	5,867
1.11	Installing on line measuring systems of the concentration of gas dissolved in the electro-insulating oil of power transformers for 5144- T03/T04, 5134-T05/T06 from U1 and U2 and 0-5134-T1/T2 and 0-5135-TC01/TC02 from U0	2018	734	734	706			
1.12	Retooling the fire detection systems installed in NSP-U1 and Pavilion 2	2019	135	-	-	225	900	360
1.13	Replacement of the ventilation and air conditioning system for Pavilion 2	2018	300	-	-	473	3,919	0
1.14	Replacement of the ventilation and air conditioning system for 6 (SF)	2017	32	-	-	101	0	0
1.15	Rehabilitation of the Water Treatment Station (S.T.A.) U1+U2, step 2	2021	-	-	-	1	3,113	6,750
1.16	Implementing a registration system of events for the electrical systems of Unit 1	2018	-	1	-	65	622	0
1.17	Improving the reliability of Diesel groups SDG U1 generators	2018	113	-	-	1	6,749	0
1.18	Increasing the reliability of the EVA 8000 storage system providing the centralized data storage of production of the CNE Cernavoda information system by replacing it	2018	200	-	-	1	18,799	0
1.19	Replacing the control part of the excitation system 2-41220-PL 1615 from U2 due to multiple reliability issues	2019	926	923	-	11,738	12,073	2,065
1.20	Installing stainless steel support, for storage baskets filled with used fuel, in the Used Fuel Storage Tanks from Units 1 and 2 (S1-126 and S2-126), for the purpose of extending the storage capacity of these tanks	2017	-	-	-	760	0	0
1.21	Retooling the systems GFP U1 and GFP U2. Replacing the GFP U1 computers and spectrometers and U2 out of obsolete and need to improve the reliability reasons	2018	-	-	-	90	1,148	0
2	FCN Pitesti Branch		274	-	-	366	650	1,380
2.1	Performance and implementation of informatics applications (Acquisitions, Budgets, Contracts)	2019	200	-	-	200	400	288
2.2	Air cooling system during summer time for the ventilation of physical-chemical laboratories – project and performance	2016	74	-	-	-	-	-
2.3	Thermal agent supply and a.c.m of FCN Pitesti (Feasibility study, Technical project and specifications, performance)	2019	-	-	-	166	250	1,092
3	SNN Head Office		9,879	-	-	5,352	4,440	4,420
3.1	Update and integration of information flow at the SNN level	2020	-	-	-	-	4,440	4,420
3.2	Project for securing the information and communication system	2019	1,776	-	-	-	-	-
3.3	Implementing the software application	2019	2,775	-	-	-	-	-
3.4	ELINI Capitalization	2017	5,328	-	-	5,352	-	-
	b) for state public assets or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
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	c) for state private assets or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
	d) for concession assets, leased or under management, except for those from public or private state ownership or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
C	Investment made for existent property, plant and equipment (improvements), out of which:		6,877	2,083	785	7,566	5,563	6,370
	a) for private property assets of the economic operator:		6,877	2,083	785	7,566	5,563	6,370
1	CNE Cernavoda Branch		933	786	785	1,925	4,603	1,843
1.1	Retrofitting of roller bridges from the clean room and mounting a lifting installation in the welding school building at CNE Cernavoda	2019	1	1	-	223	900	226
1.2	Replacing stationary batteries of 48 Vcc, 220 Vcc and 400 Vcc at U1	2016	787	785	785	0	0	0
1.3	Retrofitting weather tower at Unit 1	2017	45	-	-	1	370	0
1.5	Replacing the interface human machinery for 2-52300-DG1/DG2	2019	100	-	-	1	1,777	1,617
1.4	Preservation works for units 3 and 4 of CNE Cernavoda	2018	-	-	-	1,700	1,556	-
2	FCN Pitesti Branch		5,944	1,297	-	5,641	960	4,527
2.1	Update of the manufacturing line of fuel bundles for optimizing the manufacturing flow and for improving the quality of the finished product	2017	726	178	-	728	0	0
2.2	Update of the communication infrastructure, establishing the data center according to Standard TIA942-1 and implementing measures for reducing the information security risk	2019	3,164	-	-	900	900	4,527
2.3	Overhaul of Feintool GKP-F 25/40	2017	951	-	-	951	0	0
2.4	Overhaul of HARPER II sintering furnace	2017	600	320	-	501	0	0
2.5	Remake of water collection system with beryllium content – project and performance	2016	78	-	-	0	0	0
2.6	Rehabilitation of hydro-insulation of the roof of Hall V after finishing the ventilation and air conditioning of Hall IV	2016	204	-	-			
2.7	Hydro-insulation works for the FCN buildings: hall V, hall IV, Administrative Pavilion	2017	-	680	-	680	0	0
2.8	Refurbishment and update of FCN pavilion areas: cafeterias, Economic Department areas - project, performance, utility	2017	156	119	-	175	0	0
2.9	Improving the lighting for Hall V, Hall IV and Annexes – project and performance	2016	66	-	-	0	0	0
2.10	Overhaul of R53 rotating press	2017	-	-	-	935	0	0
2.11	Overhaul of Rolcompact I	2017	-	-	-	371	0	0
2.12	Update of the ventilation installation of physical-chemical laboratories	2017	-	-	-	400	0	0
2.13	Replacement of supply cables with hydrogen station force	2018	-	-	-	0	60	0
	b) for state public assets or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
	c) for state private assets or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
	d) for concession assets, leased or under management, except for those from public or private state ownership or of the administrative territorial authority:							
	- (name of objective)							
	- (name of objective)							
	-							
D	Facilities (other acquisitions of property, plant and equipment)		52,049	33,804	19,708	84,944	37,507	28,473
	CNE Cernavoda Branch		41,555	29,153	18,794	72,789	25,000	25,000
	FCN Pitesti Branch		9,859	3,163	872	10,300	12,507	3,473
	SNN Head Office		635	1,488	42	1,855		
E	Installment reimbursement of investment credits, out of which:		205,228	205,228	191,549	209,124	210,026	210,026
	a) – internal							
	b)- external		205,228	205,228	191,549	209,124	210,026	210,026

Chief Executive Officer
DANIELA LULACHE

Chief Financial Officer
MIHAI DARIE