

Investment programme progress report for the 4th year of implementation, approved by the joint order of NMRC MNE RK No. 71-OD dated 11 May 2022 and ME RK No. 252 dated 1 August 2022, as amended by the joint order of ME RK No. 75 dated 17 February 2025 and NMRC MNE RK No. 24-OD dated 24 February 2025, by Kazakhstan Electricity Grid Operating Company (KEGOC) JSC the natural monopoly entity

Type of activity: system services for: 1) transmission of electricity; 2) national power grid usage; 3) technical dispatch of electricity supply to network and electricity consumption; 4) electricity generation and consumption balancing management

Item No.	Information on planned and actual scope of rendered regulated services (goods, works)						Income statement	Amount of investment program (project)			Deviation explanation
	Regulated services (goods, works) and the service area	Description of actions	Unit of measure	Quantity in natural indices		Period of service rendering under the investment programme		Plan	Actual	Deviation	
				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
	1) electricity transmission in the national power grid		mil. kWh	3 034	5 514	Q4 2024	Report in accordance with the Order of the Minister of Finance of the Republic of Kazakhstan No. 404 dated 28 June 2017 "On approval of the list and forms of annual financial statements for publication by public interest organizations (except for financial organizations)"	36 936 056,611	11 666 533,984	-25 269 522,627	
	2) NPG usage service			16 160	20 171						
	3) technical dispatching of the electricity supply to the grid and electricity consumption			31 866	29 483						
	4) management of the electricity production and consumption balancing			59 833	55 199						
Investment programme actions with a deadline within the 4th year of implementation (from 01.10.2024 to 30.09.2025)											
		Investment programme actions with a deadline within the 4th year of implementation (from 01.10.2024 to 30.09.2025)	pcs	1 139	1 015			36 936 056,611	11 666 533,984	-25 269 522,627	
1		Total for investment projects	pcs	4	2			23 543 551,729	1 155 658,670	-22 387 893,058	
1.1		Reconstruction of 220-500 kV OHTLs at MES branches of KEGOC	pcs	1	0			212 943,304	0,000	-212 943,304	
1.1.1		Reconstruction of 220–500 kV OHTLs at Akmolinskiye MES branch, Vostochnye MES branch, Severnye MES branch and Tsentralnye MES branch of KEGOC	pcs	1	0			212 943,304	0,000	-212 943,304	
1.2		West Kazakhstan Electricity Transmission Reinforcement Project Construction of power grid facilities.	pcs	1	1			500 000,000	810 568,759	310 568,759	
1.2.1		Works under West Kazakhstan Electricity Transmission Reinforcement Project	pcs	1	1			500 000,000	810 568,759	310 568,759	
1.3		HVDC North-South Electricity Transmission Project. South Kazakhstan Electricity Transmission Reinforcement Project	pcs	1	1			20 391 648,424	345 089,912	-20 046 558,512	
1.3.1		Works under HVDC North-South Electricity Transmission Project. South Kazakhstan Electricity Transmission Reinforcement Project	pcs	1	1			20 391 648,424	345 089,912	-20 046 558,512	
1.4		Unification of the energy system of Western Kazakhstan with the UES of Kazakhstan. Construction of power grid facilities	pcs	0	0			2 358 000,000	0,000	-2 358 000,000	
1.4.1		Unification of the energy system of Western Kazakhstan with the UES of Kazakhstan. Construction of power grid facilities	pcs	0	0			2 358 000,000	0,000	-2 358 000,000	
1.5		Local and pilot projects	pcs	1	0			80 960,000	0,000	-80 960,000	
1.5.1		Work on updating the network core	pcs	1	0			80 960,000	0,000	-80 960,000	
2		Maintaining current production level costs	pcs	1 135	1 013			13 392 504,883	10 510 875,314	-2 881 629,569	
2.1		Reconstruction and modernization of existing operational assets	pcs	90	57			11 760 466,111	9 225 993,338	-2 534 472,772	
2.1.1		Reconstruction of substations	pcs	49	31			7 737 231,636	7 274 134,67455	-463 096,961	
2.1.1.1		Reconstruction of 220,110 kV switchgear with replacement of high-frequency barriers and coupling capacitors at 220 kV Kuibyshevskaya substation	pcs	1	1			84 673,368	71 137,811	-13 535,557	
2.1.1.2		Reconstruction of 220,110 kV switchgear with replacement of high-frequency barriers and coupling capacitors at the 220 kV KGPP substation	pcs	1	1			107 294,807	105 316,607	-1 978,200	
2.1.1.3		Reconstruction of 220,110 kV switchgear with replacement of high-frequency barriers and coupling capacitors at 220 kV Makinskaya substation	pcs	1	1			91 522,237	81 066,346	-10 455,891	
2.1.1.4		Construction of a civil defense facility in Akmola region	pcs	1	0			481 356,562	0,000	-481 356,562	
2.1.1.5		Reconstruction of the roof and premises of the OPU building at the 500 kV Ulka substation	pcs	1	1			32 000,000	517 041,911	485 041,911	

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1	2	3	4	5	6	7	8	9	10	11	12
2.1.1.6		Reconstruction of the roof and premises of the OPU building at the 500 kV Stepnaya substation	pcs	1	0			32 789,792	0,000	-32 789,792	
2.1.1.7		Reconstruction of the general roof of buildings: LAZ, ZRU-10kV and OPU-1 at the 220kV Uralskaya substation	pcs	1	1			29 842,183	2 645,340	-27 196,843	
2.1.1.8		Reconstruction of the fire extinguishing system of autotransformers at the 220 kV Aktyubinskaya substation	pcs	1	1			27 000,000	59 248,899	32 248,899	
2.1.1.9		Reconstruction of 220 kV switchgear with replacement of 2AT 125 MVA autotransformer at 220 kV Uralskaya substation	pcs	1	1			1 228 776,304	1 513 666,545	284 890,241	
2.1.1.10		Reconstruction of own needs with replacement of TSN-10kV with 500kV Almaty substation	pcs	1	1			136 990,514	139 752,009	2 761,495	
2.1.1.11		Reconstruction of own needs with replacement of TSN-10kV with 500kV Shu substation	pcs	1	1			184 911,300	27 226,002	-157 685,298	
2.1.1.12		Reconstruction and connection of utility and drinking water supply of the 220 kV Stroitel'naya substation	pcs	1	1			58 527,392	169 538,762	111 011,370	
2.1.1.13		Replacement of the battery at the 500 kV YUKGRES substation	pcs	2	2			57 240,000	51 874,000	-5 366,000	
2.1.1.14		Replacement of the battery at the 500 kV Shu substation	pcs	2	2			64 800,000	65 900,000	1 100,000	
2.1.1.15		Replacement of the battery at the 220 kV Stroitel'naya substation	pcs	1	1			28 620,000	25 937,000	-2 683,000	
2.1.1.16		Reconstruction of the main protection of L-102	pcs	1	1			28 633,643	25 919,607	-2 714,036	
2.1.1.17		Reconstruction of the main protection of L-123	pcs	1	1			28 599,383	33 096,747	4 497,364	
2.1.1.18		Reconstruction of the main protection of L-129	pcs	1	1			28 488,085	33 062,844	4 574,759	
2.1.1.19		Reconstruction with replacement of autotransformer 1AT 90000/220/110 at 220 kV substation No. 14	pcs	1	1			565 397,889	1 564 721,920	999 324,031	
2.1.1.20		Reconstruction of the emergency control automation of the SAON No. 14 substation	pcs	1	1			20 641,200	30 146,676	9 505,476	
2.1.1.21		Reconstruction of the building of the garage-workshop No. 18 substation of the branch of JSC "KEGOC" Vostochnye MES"	pcs	1	1			60 404,412	39 248,692	-21 155,720	
2.1.1.22		Reconstruction of the automatic fire extinguishing system of shunt oil reactors at the 220 kV Beineu substation	pcs	1	1			50 504,281	317 358,581	266 854,300	
2.1.1.23		Reconstruction of the fire extinguishing system at the 220 kV Tengiz substation	pcs	1	1			55 294,035	48 238,697	-7 055,338	
2.1.1.24		Reconstruction of 500 kV switchgear with installation of 500 kV autotransformer 500 kV Zhitikara substation	pcs	1	0			435 246,858	0,000	-435 246,858	
2.1.1.25		Reconstruction of 220 kV switchgear, 110 kV switchgear with replacement of current transformers at the 220 kV Vostochnaya substation of the Sarbay MES branch	pcs	1	0			128 938,539	0,000	-128 938,539	
2.1.1.26		Reconstruction of own needs with replacement of TSN-3, TSN-4 at 220 kV Vostochnaya substation	pcs	1	0			29 510,510	0,000	-29 510,510	
2.1.1.27		Reconstruction of own needs with replacement of 0.4 kV SHCN No. 1, 2 at 220 kV Central substation	pcs	1	0			158 930,241	0,000	-158 930,241	
2.1.1.28		Replacement of the AB-1 battery, 103 elements at the 500 kV Sokol substation	pcs	1	0			16 715,429	0,000	-16 715,429	
2.1.1.29		Replacement of the AB-1 battery 104 elements at the 220 kV Lisakovskaya substation	pcs	1	0			16 877,714	0,000	-16 877,714	
2.1.1.30		Reconstruction of the roof and premises of the garage for special vehicles and warehouse for equipment at the 1150 kV Ekibastuzskaya substation	pcs	1	1			74 427,517	191 184,240	116 756,723	
2.1.1.31		Installation of a 0.4 kV auxiliary board in the branch administrative building	pcs	1	0			72 097,368	0,000	-72 097,368	
2.1.1.32		Reconstruction of buildings of garages No. 1, No. 2 at the 220 kV Ekibastuzskaya substation	pcs	1	1			48 608,609	89 826,555	41 217,946	
2.1.1.33		Reconstruction of the roof of garage No. 1 at the 1150 kV Ekibastuzskaya substation	pcs	1	1			56 736,031	69 907,581	13 171,550	
2.1.1.34		Replacement of battery 103 elements for Pavlodarskaya substation	pcs	1	1			19 406,192	25 937,000	6 530,808	
2.1.1.35		Replacement of TM-100/10/0.4-U1 at the pumping station for technical water for the 1150 kV Ekibastuzskaya substation	pcs	1	0			2 729,207	0,000	-2 729,207	
2.1.1.36		Reconstruction of 6-220 kV bays including replacement of 6/10/35/110/220 kV VTs, 6/10/35/110/220 kV arresters, 110/220 kV oil circuit-breakers, 110-220 kV disconnectors, 110 / 220 kV CT at 220 kV Kumkol substation of the Tsentralnye MES branch	pcs	1	1			751 455,225	1 693 252,185	941 796,960	
2.1.1.37		Reconstruction of 6 kV TP with transfer of power supply from 6 kV to 10 kV of the CMES branch base	pcs	1	0			15 298,261	0,000	-15 298,261	
2.1.1.38		Reconstruction of own needs and backup power supply of KRUN-10kV T-3 at the 220kV Balkhashskaya substation	pcs	1	1			102 512,479	175 690,530	73 178,051	

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1	2	3	4	5	6	7	8	9	10	11	12
2.1.1.39		Replacement of auxiliary transformers at the 220 kV Kairakty substation	pcs	1	0			5 534,314	0,000	-5 534,314	
2.1.1.40		Replacement of auxiliary transformers TSN-2, TSN-3 the 220 kV Balkhashskaya substation	pcs	1	0			8 545,753	0,000	-8 545,753	
2.1.1.41		Replacement of auxiliary transformers at the 220 kV Akchatau substation	pcs	1	0			5 534,314	0,000	-5 534,314	
2.1.1.42		Reconstruction of 500/220/10 kV Shymkent substation in Yuzhnye MES branch	pcs	1	0			967 495,344	0,000	-967 495,344	
2.1.1.43		Reconstruction of 220/110/10 kV Sholakkorgan substation	pcs	1	0			657 388,732	0,000	-657 388,732	
2.1.1.44		Reconstruction of 220 kV outdoor switchgear and 10 kV indoor switchgear of 500 kV Zhambyl substation	pcs	1	0			328 008,083	0,000	-328 008,083	
2.1.1.45		Reconstruction of the KazTES base, oil storage facility, central warehouse of the Yuzhnye MES branch	pcs	1	1			74 204,508	74 769,729	565,221	
2.1.1.46		Reconstruction of the 220 kV Sas-Tyube substation with replacement of high-frequency barriers and coupling capacitors	pcs	1	1			215 001,163	31 421,859	-183 579,304	
2.1.1.47		Construction of a water tower 220 kV Kyzylorda substation	pcs	1	0			61 721,858	0,000	-61 721,858	
2.1.2		Reconstruction of lines	pcs	1	1			632 628,501	728 961,792	96 333,291	
2.1.2.1		Removal from the flood zone of the 220 kV power line L-2507 EGRES-1 - Central section of supports No. 130 - 160, the 220 kV power line L-2417 EGRES-1 - Central section of supports No. 165 - 195	pcs	1	1			632 628,501	728 961,792	96 333,291	
2.1.3		Telecommunication systems, communication and information systems	pcs	24	22			3 089 609,735	1 206 983,400	-1 882 626,335	
2.1.3.1		Replacement of lightning cable on the 500 kV Shu-Frunzenskaya overhead line	pcs	1	0			224 925,300	0,000	-224 925,300	
2.1.3.2		Replacement of the lightning cable on the 220 kV overhead line ZhGRES-Frunzenskaya	pcs	1	0			408 177,670	0,000	-408 177,670	
2.1.3.3		Modernization of HF channels No. 519 Kokshetauskaya-Aurora, No. 654 Kokshetauskaya 1150-Aurora	pcs	2	2			237 867,246	151 805,684	-86 061,562	
2.1.3.4		Modernization of HF channel No. 548 TSGPP-EGRES1	pcs	1	1			118 933,623	69 356,786	-49 576,837	
2.1.3.5		Modernization of HF channel No. 511 EGPP-Sokol	pcs	1	1			118 933,623	56 313,720	-62 619,903	
2.1.3.6		Modernization of HF channel No. 265 Uralskaya-Stepnaya	pcs	1	1			118 521,210	46 825,863	-71 695,347	
2.1.3.7		Modernization of HF channel No. 520 YuKGRES-Shu	pcs	1	1			119 442,725	52 873,542	-66 569,183	
2.1.3.8		Modernization of HF channels No. 636 Kostanayskaya-Sokol, No. 602 Kostanay 1150 – Kokshetau 1150, No. 603 Kostanay 1150 – Kokshetau 1150, No. 259 Sokol-Sarbayskaya (northern)-ts	pcs	4	4			473 980,520	233 524,525	-240 455,995	
2.1.3.9		Modernization of HF channels No. 574 Ekibastuzskaya 1150 - EGRES-2, No. 607 Ekibastuz 1150 - Kokshetau 1150, No. 609 Ekibastuz 1150 - Kokshetau 1150	pcs	3	3			354 227,736	181 301,711	-172 926,025	
2.1.3.10		Modernization of HF channel No. 582 EGRES-1 - Nura	pcs	1	1			118 075,912	56 313,720	-61 762,192	
2.1.3.11		Modernization of HF channels No. 630 Agadyr-Nura, No. 631 Agadyr-Zhezkazgan	pcs	2	2			237 895,014	104 638,177	-133 256,837	
2.1.3.12		Modernization of HF channel No. 239 Zhambyl-Vannovka	pcs	1	1			118 250,118	52 344,363	-65 905,755	
2.1.3.13		Modernization of HF channels No. 265 Kentau-Sholak-Korgan-ts	pcs	1	1			118 250,118	46 742,292	-71 507,826	
2.1.3.14		Modernization of the PBX network									
2.1.3.14.1		Vostochnye MES branch	pcs	4	4			322 128,920	154 943,016	-167 185,904	
2.1.4		Design and survey works	шт	16	3			300 996,239	15 913,472	-285 082,767	
2.1.4.1		Development of design and estimate documentation for "Reconstruction of the automatic fire extinguishing system of the 1150 kV Kokshetauskaya substation"	шт	1	1			10 060,000	477,000	-9 583,000	
2.1.4.2		Development of design and estimate documentation for "Reconstruction of the AT-1 autotransformer with replacement with a 500 kV EGPP substation"	шт	1	0			19 422,712	0,000	-19 422,712	
2.1.4.3		Development of design and estimate documentation for "Reconstruction of the AT-1 autotransformer with replacement with a 220 kV Makinskaya substation"	шт	1	0			19 422,712	0,000	-19 422,712	
2.1.4.4		Development of design and estimate documentation “Reconstruction of buildings based on UTES”	шт	1	0			8 870,000	0,000	-8 870,000	
2.1.4.5		Development of design and estimate documentation for "Reconstruction of the roof of the buildings of the OPU and REP-3 at the 220 kV Pravoberezhnaya substation"	шт	1	0			7 565,000	0,000	-7 565,000	
2.1.4.6		Development of design and estimate documentation for "Reconstruction of the premises of buildings OPU-2 and OPU-3 at the 220 kV Uralskaya substation"	шт	1	0			6 650,000	0,000	-6 650,000	

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1	2	3	4	5	6	7	8	9	10	11	12
2.2.1.12		Universal vehicle (On the chassis of a flatbed truck with a diesel engine, with a lifting capacity of at least 7 tons, 6x6 wheel arrangement, with installation with lifting capacity least 5 tons)	шт	1	1			37 680,000	117 216,000	79 536,000	
		Tsentralnye MES branch									
2.2.1.13		Wheeled tractor (with diesel engine, 4x4 wheel arrangement, equipped with a blade)	шт	1	1			79 094,400	83 952,000	4 857,600	
		Yuzhnye MES branch									
2.2.1.14		Cargo-passenger vehicle (with a gasoline engine, all-metal body, isolated cargo compartment, at least 6 seats, 4x4 wheel arrangement)	шт	1	0			16 464,000	0,000	-16 464,000	
2.2.1.15		Tractor unit (with diesel engine, 6x4 wheel arrangement)	шт	1	1			25 798,080	41 580,000	15 781,920	
2.2.1.16		Semi-trailer with support (with a carrying capacity of at least 21 tons)	шт	1	1			28 537,600	26 964,280	-1 573,320	
2.2.2		Diagnostic instruments	шт	52	45			137 813,097	105 350,831	-32 462,265	
		Akmolinskiye MES branch									
2.2.2.1		Automated unit for measuring dielectric losses of transformer oil (Unit for measuring dielectric losses of transformer oil. Measurement range of loss tangent 0.0001 - 1.0 (0.01% - 100%); Error in measuring loss tangent ±(0.01 tg + 0.0002); Operating voltage measurement range, V 0 - 2700)	шт	1	0			3 096,991	0,000	-3 096,991	
2.2.2.2		Analytical scales (For weighing when preparing reagents, solutions; conducting physical and chemical analysis of transformer oil; conducting rubber analysis. Maximum scale load Max, g 220)	шт	3	3			1 815,000	1 860,000	45,000	
		Aktyubinskiye MES branch									
2.2.2.3		Digital megohmmeter (Measurement of insulation resistance of electrical equipment)	шт	2	2			419,895	476,000	56,105	
2.2.2.4		Microohmmeter	шт	3	3			4 487,242	3 212,940	-1 274,302	
2.2.2.5		Multimeter (U DC/U AC TRMS (AC, AC+DC) 0.01 mV ...1000 V, operating range 40 Hz-100 kHz, resolution 0.1 μV, base error 0.015%. I DC/I AC TRMS 0.1 μA-10 A)	шт	3	3			219,819	564,300	344,481	
2.2.2.6		Hygrometer (Humidity measurement range from 54% to 90% relative humidity, at a temperature of 20 to 23 degrees Celsius. From 40% to 90% at a temperature of 23 to 26 degrees)	шт	3	3			10,529	36,597	26,068	
		Almatinskie MES branch									
2.2.2.7		Automatic apparatus for determining flash point in a closed crucible (Flash point determination range: from plus 12 to 370 degrees C. The apparatus allows operation of: 1) express method for testing a product with an unknown flash point; 2) determination of the flash point of products with the required accuracy. Power parameters: voltage (220+22/-33)V)	шт	1	1			3 648,204	4 375,000	726,796	
2.2.2.8		Earth resistance meter (Resistance measurement range from 0.01 Ohm to 100 kOhm. Choice of measurement voltage 16 or 32 V eff. Choice of measurement signal frequency from 41 to 542 Hz. RS and RH measurement from 0.01 Ohm to 100 kOhm)	шт	3	0			4 598,948	0,000	-4 598,948	
2.2.2.9		Microohmmeter (for measuring the resistance of transformer windings, switching devices, switch contacts, soldered connections. Measurement range 5 μOhm - 399.9 Ohm)	шт	3	3			4 487,242	4 797,000	309,758	
		Vostochnye MES branch									
2.2.2.10		Thermal imaging camera (Thermal sensitivity: 35 mK; Viewfinder and LCD display; Measured temperature up to +2,000°C; 8x continuous digital zoom)	шт	1	1			6 200,250	7 991,071	1 790,821	
2.2.2.11		Micrometer (Measurement range: from 0.1 μOhm to 2500 Ohm, Measuring current: from 1 mA to 10 A, Resolution: 1 μOhm)	шт	1	1			1 495,747	1 285,000	-210,747	
2.2.2.12		Ground Resistance Meter (Resistance measurement range: 0.01 Ohm to 100 kOhm)	шт	1	1			1 532,983	1 480,000	-52,983	
		Zapadnye MES branch									
2.2.2.13		Digital megohmmeter (Test voltage value, V - 500, 1000, 2500. Limit of relative error ± 3% + 3 dgt)	шт	7	7			1 469,632	1 399,993	-69,639	
		Sarbaiskiye MES branch									
2.2.2.14		Stationary high-voltage laboratory (Power supply voltage of the stand, V 220 50 Hz. - The highest working alternating voltage 0 - 15 kV, (adjustable with a 25 V increment))	шт	1	1			34 489,937	29 750,000	-4 739,937	

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2.2.2.15		Thermal imager (Image resolution 1024 × 768. Spectral range from 7.5 μm to 14 μm)	шт	1	1			10 669,110	7 299,000	-3 370,110	
2.2.2.16		Microohmmeter (resistance measurement range Rx from 0-2000 μOhm)	шт	2	2			2 991,494	7 300,000	4 308,506	
		Severnnye MES branch									
2.2.2.17		High-voltage stationary stand (for testing the insulation of protective equipment, insulation of power cables and solid dielectrics with alternating high voltage of industrial frequency)	шт	1	1			34 489,937	4 350,000	-30 139,937	
2.2.2.18		Frequency response analysis system (for detecting mechanical and electrical defects)	шт	1	1			6 083,265	17 028,000	10 944,735	
2.2.2.19		Barometer	шт	2	2			192,353	297,120	104,767	
2.2.2.20		Psychrometric hygrometer (Temperature measurement range 0...25°C. Scale division value 0.2°C)	шт	2	2			7,019	21,360	14,341	
2.2.2.21		Colorimeter for color determination (color 0...8 color units, division value 0.5 color units)	шт	1	1			1 216,653	2 850,000	1 633,347	
2.2.2.22		Device for measuring contact resistance (microohmmeter) (measurement range - 0-2000 μOhm)	шт	1	1			877,394	3 300,000	2 422,606	
		Tsentrалnye MES branch									
2.2.2.23		Device for measuring and analyzing vibration (Measurement range: Vibration acceleration - 0.3-100 ms2 (peak); Vibration displacement - 5 - 500 μm)	шт	1	1			877,394	1 100,000	222,606	
2.2.2.24		Laboratory three-phase autotransformer (30 kVA; Current - 40 A; Voltage regulation range - 0-400 V)	шт	1	1			611,368	459,000	-152,368	
2.2.2.25		Photoelectric photometer (nm - 315-990; Optical density measurement range, B - 0.004-2)	шт	1	1			725,939	1 118,450	392,511	
2.2.2.26		Device for measuring the grounding resistance of supports (Resistance range from 0.01 Ohm to 20 kOhm)	шт	2	2			2 300,234	3 000,000	699,766	
		Yuzhnye MES branch									
2.2.2.27		Colorimeter for color determination (color 0...8 color units, division value 0.5 color units)	шт	1	0			1 216,653	0,000	-1 216,653	
2.2.2.28		Liquid Contamination Analyzer (Liquid sample volume, cm3 100±0.5)	шт	1	0			5 283,211	0,000	-5 283,211	
2.2.2.29		Viscometer (Operating temperature +10 - +40 °C, sample temperature range 0 - 160 °C / 0.1 °C)	шт	1	0			2 298,653	0,000	-2 298,653	
2.2.3		Metrology instruments	шт	7	7			17 664,105	19 687,458	2 023,353	
		Akmolinskiye MES branch									
2.2.3.1		Portable reference device Energomonitor 3.1M-P-05 (accuracy class 0.05 for testing meters and transformers CT and VT (complete with UPTT device))	шт	1	1			4 603,750	4 900,400	296,650	
		Aktyubinskiye MES branch									
2.2.3.2		Ammeter CA3010/3 (Measurement limits 1 A–2.5 A–5 A–10 A)	шт	1	1			326,250	607,000	280,750	
2.2.3.3		Milliammeter CA3010/2 (Measurement limits 50 mA–100 mA–200 mA–500 mA)	шт	1	1			326,250	611,000	284,750	
2.2.3.4		Voltmeter SV 3010/1 (Measurement limits 7.5 V – 15 V – 30 V - 60 V. Input resistance - not less than 100 kOhm for SV3010/1-xxx, input capacitance - not more than 100 pF)	шт	1	1			315,892	611,000	295,108	
2.2.3.5		Voltmeter SV 3010/2 (Measurement limits 75 V - 150 V - 300 V - 600 V. Input resistance - not less than 100 MOhm, input capacitance - not more than 100 pF)	шт	1	1			315,892	611,000	295,108	
		Sarbaiksiye MES branch									
2.2.3.6		Device for measuring voltage losses CA210	шт	1	1			1 688,214	1 944,558	256,344	
		Yuzhnye MES branch									
2.2.3.7		Precise portable verification unit UPPU-ME 3.1KM-P-05, cl.a 0.05	шт	1	1			10 087,857	10 402,500	314,643	
2.2.4		Relay protection and automation devices	шт	33	26			122 268,347	126 413,740	4 145,393	
		Akmolinskiye MES branch									
2.2.4.1		Current Transformer Analyzer (with software)	шт	1	1			14 132,309	24 800,000	10 667,691	
2.2.4.2		Computerized test system with software (type OMICRON CMC-356, complete with laptop)	шт	1	1			40 746,805	37 300,000	-3 446,805	
2.2.4.3		Digital Multimeter (New Fluke 287 and Fluke 289 True RMS Digital Multimeters)	шт	3	3			1 169,754	750,000	-419,754	
2.2.4.4		Megohmmeter type Metriso 5000A	шт	4	4			5 000,000	4 996,000	-4,000	

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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.4.5		Portable device Voltampere-phase meter (type PARMA VAF-A (S)-2 with two clamps)	шт	2	2			752,052	1 085,714	333,662	
		Aktyubinskiye MES branch									
2.2.4.6		Test complex based on the RETOM-21 device	шт	1	1			8 640,000	15 297,000	6 657,000	
2.2.4.7		Computerized test system with software (type OMICRON CMC-356, complete with laptop)	шт	1	1			40 746,805	37 300,000	-3 446,805	
		Vostochnye MES branch									
2.2.4.8		Digital multimeter FLUKE-28-II (resistance from 0.1 Ohm to 50 MOhm; capacity from 1 nF to 9999 µF)	шт	5	5			1 404,909	1 575,000	170,091	
2.2.4.9		Portable device Voltampere-phase meter (type PARMA VAF-A (S)-2 with two clamps)	шт	3	3			1 128,078	1 626,000	497,922	
		Zapadnye MES branch									
2.2.4.10		Fluke OptiFieber Pro OTDR Optical Reflectometer	шт	1	0			4 989,969	0,000	-4 989,969	
		Severnye MES branch									
2.2.4.11		Digital multimeter (New 289, with the ability to record data graphically on the screen)	шт	2	2			779,836	394,026	-385,810	
		Tsentralnye MES branch									
2.2.4.12		Digital multimeter (New 289, with the ability to record data graphically on the screen)	шт	1	1			389,918	290,000	-99,918	
		Yuzhnye MES branch									
2.2.4.13		Digital multimeter (New 289, with the ability to record data graphically on the screen)	шт	3	0			1 169,754	0,000	-1 169,754	
2.2.4.14		Portable device Voltampere-phase meter (type PARMA VAF-A (S)-2 with two clamps)	шт	3	0			1 128,078	0,000	-1 128,078	
2.2.4.15		Current clamp meter up to 1000A (AC/DC) with multimeter function	шт	2	2			90,079	1 000,000	909,921	
2.2.5		Communication equipment and DTCF	шт	62	57			18 165,318	9 851,249	-8 314,069	
2.2.5.1		VHF radio station (mobile) (Operating frequency range 144-174 MHz; Power supply voltage 12/24V DC; Magnetic-based antenna)	шт	8	8			2 387,082	1 216,000	-1 171,082	
2.2.5.2		VHF radio station (portable) (Operating frequency range 144-174 MHz; Power supply - built-in battery)	шт	38	38			8 580,676	4 503,760	-4 076,916	
2.2.5.3		VHF radio station (range 134-178 MHz, 16 channels, power 25 W)	шт	5	5			1 129,036	879,659	-249,377	
2.2.5.4		Long range radiotelephone	шт	3	0			406,830	0,000	-406,830	
2.2.5.5		Speakerphone (Power amplifier. Possibility of installation in a 19`` cabinet. 2 microphone inputs, 3 AUX inputs, 1 AUX output)	шт	3	3			2 105,745	365,318	-1 740,427	
2.2.5.6		Asynchronous server (16 serial ports RS-232/422/485)	шт	1	1			721,441	893,490	172,049	
2.2.5.7		Power supply unit (RKP - 1U, 2 rectifiers of 2 kW, TCP/IP access controller)	шт	2	2			491,341	1 993,022	1 501,681	
2.2.5.8		Uninterruptible Power Supply (max. output power 5000VA/3750W)	шт	1	0			1 436,134	0,000	-1 436,134	
2.2.5.9		Uninterruptible power supply (max. output power 2700W/3000VA)	шт	1	0			907,033	0,000	-907,033	
2.2.6		Computers and digital products	шт	288	231			644 177,632	144 650,445	-499 527,187	
2.2.6.1		Technology Server (High Performance Server for Sicam SaS: Sicam SAS PC)	шт	14	0			22 218,000	0,000	-22 218,000	
2.2.6.2		Technological server for WAMS system (Server equipped with: 12-core processor with base clock frequency not less than 3.2 GHz, cache memory not less than 24 MB, not less than 2 SSD SFF solid state drives with memory capacity of 400GB, additional disk space of not less than 9TB SAS SFF 10k rpm, RAM not less than 32GB DDR4, 2 power supplies not more than 800W and necessary software)	шт	4	4			52 409,663	50 538,480	-1 871,183	
2.2.6.3		Network core switch with copper ports (Stackable network core layer switch, 28 x 10/100/1,000 Base-T Ethernet ports, 4 x 10G SFP+ ports, optional power supply, stackable cable)	шт	7	0			22 929,228	0,000	-22 929,228	
2.2.6.4		Router (12 Port GE SFP IP Services, 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM)	шт	17	0			142 605,992	0,000	-142 605,992	
2.2.6.5		Router (w/SPE150,3GE,4EHWIC,4DSP,4SM,256MBCF, IGD RAM, IPB, SM-X-ES3-24 GE.POE+; HWWIC-2T 2-PORT SPERIAL WAN INTERFASE CARD CAB – SS – V 35 MT V.35 CABLE.DTE Male to Smart Serial, 10 Feet)	шт	19	0			266 727,752	0,000	-266 727,752	

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1	2	3	4	5	6	7	8	9	10	11	12
2.2.6.6		Software - vector graphics editor (Licensed Software)	шт	60	60			19 857,179	19 848,000	-9,179	
2.2.6.7		Software for creating and editing vector images (Licensed software)	шт	55	55			20 396,484	13 806,485	-6 589,999	
2.2.6.8		Software for creating and viewing PDF documents (Licensed Software)	шт	110	110			31 521,254	17 655,000	-13 866,254	
2.2.6.9		Storage system (scalable storage system with two Fiber Channel / 10GbE controllers)	шт	2	2			65 512,079	42 802,480	-22 709,599	
2.2.7		Inventory for operation	шт	86	83			45 053,367	88 154,617	43 101,249	
		Akmolinskiye MES branch									
2.2.7.1		Deep well water pump (380V, 2.2kW, 3000rpm, 16m3/h)	шт	1	1			116,000	168,000	52,000	
2.2.7.2		Inverter welding machine (10-250 A, 140-260 V)	шт	1	1			91,000	70,892	-20,108	
2.2.7.3		Hydraulic manual press (pressed section 10-300 mm2, maximum force 12 t)	шт	1	1			46,000	36,850	-9,150	
2.2.7.4		Installation for adding oil to the input UDV-2M (processing volume 60 l; maximum power 4 kW)	шт	1	1			5 360,000	5 306,400	-53,600	
		Aktyubinskiye MES branch									
2.2.7.5		SF6 leak indicator (three-color indicator)	шт	1	1			453,245	387,000	-66,245	
2.2.7.6		Circulation pump (UPS 32-100 180, power 345 W, voltage 230 V)	шт	1	1			62,214	231,517	169,303	
2.2.7.7		Endless rope with one block (Load capacity - 100 kg; roller diameter - 70 mm; rope cross-section (Ø roller groove) - 8 mm)	шт	4	4			93,589	326,565	232,977	
2.2.7.8		Manual chain hoist (Loading capacity-3000 kg; rope capacity 3m)	шт	1	0			62,909	0,000	-62,909	
2.2.7.9		Hanging ladder with hanging platform (with hanging platform 4 m, load capacity not exceeding 120 kg; width 0.5 m; length 1.05 m)	шт	1	1			900,616	1 049,655	149,039	
2.2.7.10		Hydraulic press, non-autonomous, double-acting, with a pump station and a set of dies (Packaging dimensions (mm): 300x580x270; pressed section: 300-700 mm2; maximum force: 100 t; piston stroke, mm: 40)	шт	1	1			2 532,407	22 543,168	20 010,761	
2.2.7.11		Benchtop drilling machine	шт	1	1			462,861	260,467	-202,394	
		Almatinskies MES branch									
2.2.7.12		Deep well pump (Flow 40 m3, pressure 150 m, power 27 kW, rotation speed 3000 rpm)	шт	1	1			1 064,571	1 230,000	165,429	
2.2.7.13		Mounting block with folding jaw (lifting capacity 3t, 5t)	шт	2	2			103,252	120,400	17,148	
2.2.7.14		Mounting tension clamp (wedge MK-3, MK-4, ZPM-6-14)	шт	3	3			141,752	235,334	93,582	
2.2.7.15		Hand lever hoist (lifting capacity 1.5 t, 3 t, 6 t)	шт	1	1			97,098	76,000	-21,098	
2.2.7.16		Power station (welding generator) (Power 5 kW, 25 l)	шт	1	1			311,182	351,450	40,268	
		Vostochnye MES branch									
2.2.7.17		Device (TAB) for checking operability (voltage measurement range - 100-240V; measurement error limit +0.5%; overall dimensions of the device 200x280x400mm)	шт	1	1			1 342,413	2 125,000	782,587	
2.2.7.18		Gear pump (flow 1.6 m³/h; suction height 5 m; power 1.5 kW; rotation speed 1450 rpm)	шт	1	1			175,479	314,000	138,521	
2.2.7.19		Endless rope (rope diameter - 16 mm)	шт	2	2			210,575	700,920	490,345	
2.2.7.20		Clamp complete with screw tie for replacing PS-120B insulators (clamp, screw tie with lifting capacity of 2.5 tons, SK-7-1 clamp)	шт	1	1			933,547	784,140	-149,407	
2.2.7.21		Clamp complete with screw tie for replacing PS-160D insulators (clamp, screw tie with lifting capacity of 2.5 tons, SK-7-1 clamp)	шт	1	1			933,547	401,405	-532,142	
2.2.7.22		Clamp complete with screw tie for replacing PS-210B insulators (clamp, screw tie with lifting capacity of 2.5 tons, SK-7-1 clamp)	шт	1	1			933,547	690,790	-242,757	
2.2.7.23		Clamp complete with screw tie for replacing PS-300B insulators (clamp, screw tie with lifting capacity of 2.5 tons, SK-7-1 clamp)	шт	1	1			933,547	932,000	-1,547	
2.2.7.24		Wedge clamps "Frogs" (MOT170GC)	шт	20	20			954,101	3 368,460	2 414,359	
2.2.7.25		Hydraulic cable cutter KVT TRG-32 (length 290 mm)	шт	1	1			1 936,116	2 049,800	113,684	
		Zapadnye MES branch									
2.2.7.26		Pump (Maximum head 50 m, power consumption 1000 W)	шт	2	0			130,000	0,000	-130,000	

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1	2	3	4	5	6	7	8	9	10	11	12
2.2.7.27		Hydraulic manual press (Min crimped section 10 sq. mm, max crimped section 300 sq. mm, max force 12 t)	шт	1	1			93,560	57,730	-35,830	
		Sarbaiskiye MES branch									
2.2.7.28		Laboratory furniture (Fume hood (1500*700*2250) with components)	шт	1	1			1 660,276	4 251,155	2 590,879	
2.2.7.29		Cross-linked polyethylene cable stripping tool kit	шт	1	1			633,127	940,000	306,873	
		Severnnye MES branch									
2.2.7.30		Hydraulic pressure tester (dimensions 200x350 mm, force - 100 t)	шт	1	1			6 980,730	22 802,324	15 821,594	
2.2.7.31		High pressure hoses (HPH 20 meter long)	шт	2	2			747,930	1 495,800	747,870	
2.2.7.32		Matrix for hydraulic presser (C21EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.33		Matrix for hydraulic presser (C22EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.34		Matrix for hydraulic presser (C23EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.35		Matrix for hydraulic presser (C26EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.36		Matrix for hydraulic presser (C29EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.37		Matrix for hydraulic presser (C33EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.38		Matrix for hydraulic presser (A40,5EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.39		Matrix for hydraulic presser (A44EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.40		Matrix for hydraulic presser (A45EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.41		Matrix for hydraulic presser (A50EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.42		Matrix for hydraulic presser (A56EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.43		Matrix for hydraulic presser (MIIIA20,8EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.44		Matrix for hydraulic presser (MIIIA25EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.45		Matrix for hydraulic presser (MIIIA30,3EP-100W)	шт	1	1			260,440	149,000	-111,440	
2.2.7.46		Pump GNOME 10-10-0.75-220D (Capacity 10 m3/hour, feed 10 m, power 0.75 kW)	шт	1	1			97,000	56,640	-40,360	
2.2.7.47		Kit for replacing defective insulators (Vaima PS-70E: clamp, screw tie with a capacity of 2.5 t, bracket SK-7-1A)	шт	1	1			1 160,000	621,522	-538,478	
2.2.7.48		LPR stepladder collapsible 30m	шт	1	1			880,000	1 199,240	319,240	
2.2.7.49		Hanging staircase with hanging platform	шт	1	1			540,000	1 241,000	701,000	
		Tsentralnye MES branch									
2.2.7.50		Small-sized unit for degassing and filling transformer oil type DZU-30	шт	1	1			2 222,731	3 476,314	1 253,582	
2.2.7.51		Guy line tension meter (platform width 0.5 m; length 1.05 m)	шт	1	1			365,040	512,000	146,960	
2.2.7.52		Anemometer (measurement range 0.5-42 m/s)	шт	1	1			93,600	349,151	255,551	
		Yuzhnye MES branch									
2.2.7.53		Gasoline motor pump (fuel tank capacity 3.6 l, capacity 1000 l/min)	шт	5	5			690,217	455,528	-234,688	
2.2.7.54		Sorbent block (2 containers with zeolite; capacity 4 m3/h)	шт	1	1			4 861,429	4 850,000	-11,429	
2.2.8		Inventory for administrative operations	шт	49	49			4 900,000	10 980,480	6 080,480	
		Akmolinskiye MES branch									
2.2.8.1		Split system Almacom ACH-07AS cooling area from 20 to 50 sqm	шт	20	20			2 000,000	2 868,445	868,445	
		Aktyubinskiye MES branch									
2.2.8.2		Air conditioning (Cooling area: 70m2, Compressor type: two-stage inverter, Power: 7030W)	шт	11	11			1 100,000	3 003,801	1 903,801	
		Vostochnye MES branch									
2.2.8.3		Air conditioner Split-system (Serviceable area, m²: 35; Compressor type: Inverter; Operating temperature range: -5° ~ 24°; Power, W: 3520; Cooling capacity, Btu/h: 12000; Maximum noise level of the indoor unit, dB: 41)	шт	15	15			1 500,000	2 699,995	1 199,995	
		Severnnye MES branch									
2.2.8.4		Column air conditioner (Cooling/heating capacity 6.5/7.5 kW, recommended cooling area 70-72 m2)	шт	1	1			100,000	474,240	374,240	
2.2.8.5		Column air conditioner (Cooling/heating capacity 17.0 kW, recommended cooling area 150-170 m2)	шт	2	2			200,000	1 933,999	1 733,999	
2.2.9		Fire fighting equipment and inventory	шт	220	220			2 863,410	7 969,110	5 105,700	
		Akmolinskiye MES branch									
2.2.9.1		Carbon dioxide fire extinguisher (OU-2)	шт	8	8			64,000	51,643	-12,357	

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1	2	3	4	5	6	7	8	9	10	11	12
2.2.9.2		Carbon dioxide fire extinguisher (OU-5)	шт	8	8			64,000	88,546	24,546	
2.2.9.3		Carbon dioxide fire extinguisher (OU-10)	шт	5	5			40,000	136,400	96,400	
2.2.9.4		Carbon dioxide fire extinguisher (OU-20)	шт	5	5			40,000	201,960	161,960	
2.2.9.5		Carbon dioxide fire extinguisher (OU-80)	шт	5	5			40,000	914,117	874,117	
2.2.9.6		Powder fire extinguisher (OP-2)	шт	8	8			57,600	23,968	-33,632	
2.2.9.7		Powder fire extinguisher (OP-5)	шт	2	2			16,000	13,984	-2,016	
2.2.9.8		Powder fire extinguisher (OP-10)	шт	8	8			64,000	54,982	-9,018	
2.2.9.9		Powder fire extinguisher (OPG-5)	шт	2	2			16,000	15,200	-0,800	
2.2.9.10		Powder fire extinguisher (OPG-10)	шт	2	2			16,000	15,200	-0,800	
2.2.9.11		Carbon dioxide fire extinguisher (OU-25)	шт	2	2			16,000	132,975	116,975	
2.2.9.12		Powder fire extinguisher (OP-100)	шт	2	2			16,000	148,108	132,108	
2.2.9.13		Fire shield ShchP-E (Closed included, complete set ShchP-E, included)	шт	15	15			450,000	1 707,480	1 257,480	
2.2.9.14		Fire shield ShchP-A (Closed included, complete set ShchP-A, included)	шт	8	8			240,000	554,400	314,400	
2.2.9.15		Fire box for sand (volume 0.5 m³)	шт	15	15			225,000	575,716	350,716	
2.2.9.16		Fire cabinet (ShPK 310 (1 tap), 540x650x230mm)	шт	2	2			24,000	36,540	12,540	
2.2.9.17		Fire cabinet (ShPK 315 (1 tap, 1 fire extinguisher), 840x650x230mm)	шт	4	4			48,000	86,760	38,760	
		Aktyubinskiye MES branch									
2.2.9.18		Powder fire extinguisher (OP-5)	шт	2	2			16,000	14,100	-1,900	
2.2.9.19		Powder fire extinguisher (OP-8)	шт	2	2			15,210	14,250	-0,960	
2.2.9.20		Carbon dioxide fire extinguisher (OU-2)	шт	3	3			24,000	25,380	1,380	
2.2.9.21		Carbon dioxide fire extinguisher (OU-5)	шт	5	5			40,000	84,600	44,600	
2.2.9.22		Carbon dioxide fire extinguisher (OU-10)	шт	5	5			40,000	144,500	104,500	
2.2.9.23		Carbon dioxide fire extinguisher (OU-20)	шт	3	3			24,000	133,950	109,950	
2.2.9.24		Fire shield (closed included, complete set ShchP-V, included)	шт	2	2			60,000	60,000	0,000	
2.2.9.25		Fire shield (SchP-E class E, closed with a mesh door, included)	шт	4	4			120,000	548,800	428,800	
2.2.9.26		Fire box for sand (volume 0.5 m³)	шт	5	5			75,000	321,255	246,255	
		Almatinskie MES branch									
2.2.9.27		Carbon dioxide fire extinguisher (OU-5)	шт	5	5			40,000	53,100	13,100	
2.2.9.28		Carbon dioxide fire extinguisher (OU-20)	шт	5	5			40,000	170,800	130,800	
2.2.9.29		Carbon dioxide fire extinguisher (OU-10)	шт	6	6			48,000	102,000	54,000	
2.2.9.30		Carbon dioxide fire extinguisher (OU-80)	шт	4	4			32,000	466,240	434,240	
2.2.9.31		Powder fire extinguisher (OP-5)	шт	6	6			48,000	20,541	-27,459	
2.2.9.32		Powder fire extinguisher (OP-2)	шт	10	10			72,000	20,320	-51,680	
		Vostochnye MES branch									
2.2.9.33		Powder fire extinguisher (OP-5)	шт	8	8			64,000	63,360	-0,640	
		Zapadnye MES branch									
2.2.9.34		Air emulsion fire extinguisher (OVE-4)	шт	8	8			256,000	327,200	71,200	
2.2.9.35		Fire shield complete with sand box	шт	5	5			175,000	371,250	196,250	
		Severnye MES branch									
2.2.9.36		Carbon dioxide fire extinguisher (OU-2)	шт	1	1			8,000	9,999	1,999	
2.2.9.37		Carbon dioxide fire extinguisher (OU-5)	шт	1	1			8,000	19,000	11,000	
2.2.9.38		Powder fire extinguisher (OP-2)	шт	1	1			7,200	3,998	-3,202	
2.2.9.39		Powder fire extinguisher (OP-5)	шт	3	3			24,000	24,000	0,000	
		Yuzhnye MES branch									
2.2.9.40		Powder fire extinguisher (OP-2)	шт	12	12			86,400	27,155	-59,245	
2.2.9.41		Powder fire extinguisher (OP-5)	шт	5	5			40,000	18,700	-21,300	
2.2.9.42		Carbon dioxide fire extinguisher (OU-2)	шт	2	2			16,000	11,964	-4,036	
2.2.9.43		Carbon dioxide fire extinguisher (OU-5)	шт	3	3			24,000	31,890	7,890	
2.2.9.44		Carbon dioxide fire extinguisher (OU-10)	шт	2	2			16,000	44,762	28,762	
2.2.9.45		Carbon dioxide fire extinguisher (OU-25)	шт	1	1			8,000	78,020	70,020	
2.2.10		Safety equipment	шт	232	226			10 922,616	13 043,392	2 120,776	
2.2.10.1		Portable grounding for switchgear up to 1000 V (3 rods with clamps, S = at least 16 mm2)	шт	10	10			363,900	283,139	-80,761	
2.2.10.2		Portable grounding for switchgear up to 10 kV (Three-phase, S = at least 25 mm2)	шт	8	8			290,712	290,500	-0,212	
2.2.10.3		Portable grounding for overhead lines - 10 kV (Three-phase, S = at least 25 mm2)	шт	5	5			334,820	288,096	-46,724	
2.2.10.4		Portable grounding for switchgear up to 35 kV (Three-phase, S = at least 25 mm2)	шт	15	15			840,135	839,462	-0,673	

Item No.	Information on planned and actual scope of rendered regulated services (goods, works)						Income statement	Amount of investment program (project)			Deviation explanation
	Regulated services (goods, works) and the service area	Description of actions	Unit of measure	Quantity in natural indices		Period of service rendering under the investment programme		Plan	Actual	Deviation	
				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.10.5		Portable grounding for switchgear up to 110 kV (Three-phase, S = at least 25 mm2)	шт	15	15			1 073,850	921,989	-151,861	
2.2.10.6		Portable grounding for overhead lines 35-220 kV (Three-phase, S = at least 25 mm2)	шт	20	20			1 236,000	2 801,856	1 565,856	
2.2.10.7		Portable grounding for outdoor switchgear 35-220 kV (Three-phase, S = at least 25 mm2)	шт	20	20			1 236,000	2 465,000	1 229,000	
2.2.10.8		Portable grounding for RU-500 kV (Three-phase, S = at least 25 mm2)	шт	15	15			1 486,110	1 980,575	494,465	
2.2.10.9		Portable grounding for overhead lines 330-500 kV (Single-phase, S = at least 25 mm2)	шт	20	14			1 462,500	1 029,998	-432,502	
2.2.10.10		Portable grounding for lightning protection cable 330-500 kV (PZT-330-500)	шт	8	8			282,144	284,337	2,193	
2.2.10.11		Portable automobile grounding (Portable grounding for a car, S = not less than 16 mm2)	шт	5	5			140,500	142,250	1,750	
2.2.10.12		Voltage indicator up to 1000 V (universal, for electrical installations 0.4 kV)	шт	8	8			35,200	38,300	3,100	
2.2.10.13		Voltage indicator over 1000 V (With light and sound indication, for electrical installations 6-10 kV)	шт	10	10			228,130	164,681	-63,449	
2.2.10.14		Voltage indicator over 1000 V (With light and sound indication, for electrical installations 35-220 kV)	шт	15	15			736,635	539,350	-197,285	
2.2.10.15		Voltage indicator for phasing (to check phase coincidence, for electrical installations 6-10 kV)	шт	15	15			321,435	183,350	-138,085	
2.2.10.16		Electrical clamps up to 1000 V (K4505Ts)	шт	5	5			169,645	142,220	-27,425	
2.2.10.17		Insulating rod (operational) up to 10 kV	шт	8	8			46,400	46,000	-0,400	
2.2.10.18		Insulating rod (universal with head) up to 35 kV	шт	5	5			70,500	67,000	-3,500	
2.2.10.19		Insulating rod (universal with head) up to 110 kV	шт	10	10			167,000	158,990	-8,010	
2.2.10.20		Insulating rod (universal with head) up to 220 kV	шт	10	10			226,000	203,100	-22,900	
2.2.10.21		Insulating rod (universal with head) up to 500 kV	шт	5	5			175,000	173,200	-1,800	