

Key performance indicators 2022–2024

Social indicators

GRI 2-7, 405-1, GRI 12: Coal Sector: 12.19.6

Number of employees, persons

Indicator	2022	2023	2024
Average headcount	17,471	17,639	18,731
Headcount as at 31 December of the reporting year ⁵⁶	17,650	17,892	18,907
Men	13,053	13,273	14,015
Women	4,597	4,619	4,892

Total number of employees by category, age and gender, persons

Indicator	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
ADMINISTRATIVE AND MANAGERIAL PERSONNEL	426	925	1,351	423	887	1,310	460	967	1,427
Under 30 years	63	131	194	61	115	176	58	124	182
including managers under 30 years (from the level of heads of structural units and above)	1	-	1	-	1	1	3	0	3
From 30 to 50 years	269	641	910	265	605	870	306	668	974
50+	94	153	247	97	167	264	96	175	271
Production Personnel	12,627	3,672	16,299	12,850	3,732	16,582	13,555	3,925	17,480
Under 30 years	2,112	448	2,560	1,961	386	2,347	2,157	415	2,572
including managers under 30 years (from the level of heads of structural units and above)	3	1	4	-	-	-	24	2	26
From 30 to 50 years	6,631	2,063	8,694	6,913	2,147	9,060	7,539	2,233	9,772
50+	3,884	1,161	5,045	3,976	1,199	5,175	3,859	1,277	5,136

Total number of employees by age and gender, persons

Indicator	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Under 30 years	2,175	579	2,754	2,022	501	2,523	2,215	539	2,754
including managers under 30 years (from the level of heads of structural units and above)	4	1	5	-	1	1	27	2	33
From 30 to 50 years	6,900	2,704	9,604	7,178	2,752	9,930	7,845	2,901	10,746
50+	3,978	1,314	5,292	4,073	1,366	5,439	3,955	1,452	5,407

⁵⁶ Due to inclusion of new Subsidiaries and affiliates into the PC perimeter: Kokshetau TPP, Ekibastuz TPP, Shulbinsk HPP, Ust-Kamenogorsk HPP.

Number of permanent and temporary employees by gender and region, persons

Indicator	2023		2024	
	men	women	men	women
Centre				
Number of permanent employees	-	-	-	-
Number of temporary employees	-	-	-	-
East				
Number of permanent employees	2	6	241	84
Number of temporary employees	-	-	1	2
North				
Number of permanent employees	7,270	2,429	7,690	2,717
Number of temporary employees	57	153	29	109
South				
Number of permanent employees	5,880	1,876	5,981	1,864
Number of temporary employees	64	155	73	116
Total				
Number of permanent employees	13,152	4,311	13,912	4,665
Number of temporary employees	121	308	103	227

Number of full-time and part-time employees by gender and region, persons, 2024

Indicator	men	women
Centre		
Number of full-time employees	-	-
Number of part-time employees	-	-
East		
Number of full-time employees	241	86
Number of part-time employees	1	-
North		
Number of full-time employees	7,716	2,826
Number of part-time employees	5	-
South		
Number of full-time employees	6,043	1,970
Number of part-time employees	9	10
Total		
Number of full-time employees	14,000	4,882
Number of part-time employees	15	10

Number of freelance workers, persons, 2024

GRI 2-8

Indicator	Outstaffing	Civil law contract	Total
Headcount	0	496	496



Number of hired employees by gender and region, persons

GRI 401-1, GRI 12: Coal Sector: 12.15.2

Region	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Almaty	642	207	849	677	218	895	702	157	859
Astana	53	24	77	66	33	99	55	28	83
North Kazakhstan	1,058	456	1,514	1,180	367	1,547	1,541	718	2,259
Southern Kazakhstan	8	1	9	200	77	277	270	63	333
Eastern Kazakhstan	-	-	-	-	-	-	24	22	46
Central Kazakhstan	-	-	-	-	-	-	-	-	-
Western Kazakhstan	-	-	-	-	-	-	-	-	-
Total	1,761	688	2,449	2,123	695	2,818	2,592	988	3,580

Number of hired employees by gender and age, persons

Indicator	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Under 30 years	679	206	885	790	207	997	903	233	1,136
30 to 50 years old	872	353	1,225	1,052	327	1,379	1,337	533	1,870
50+	210	129	339	281	161	442	352	222	574

Number of employees with whom labour contracts were terminated by gender and region, persons

Region	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Centre	-	-	-	-	-	-	-	-	-
East	-	-	-	2	-	2	22	22	44
North	1,060	415	1,475	1,066	422	1,488	1,210	504	1,714
South	679	218	897	841	219	1,060	859	271	1,130
West	-	-	-	-	-	-	-	-	-
Total	1,739	633	2,372	1,909	641	2,550	2,091	797	2,888

Number of employees with whom labour contracts were terminated by gender and age, persons

Indicator	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Up to 30 years old	457	134	591	449	127	576	495	141	636
30 to 50 years old	777	312	1,089	894	312	1,206	894	387	1,281
50+	505	187	692	566	202	768	702	269	971

Staff turnover in Samruk-Energy JSC with breakdown by gender and region, %

GRI 401-1, GRI 12: Coal Sector: 12.15.2

Region	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Almaty	0.05%	0.05%	0.05%	0.05%	0.04%	0.05 %	4%	4%	4%
Astana	0%	0%	0%	0%	0.01%	0%	0%	0%	0%
North Kazakhstan	0.08%	0.09%	0.08%	0.08%	0.08%	0.08%	8%	10%	9%
Southern Kazakhstan	0%	0%	0%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Eastern Kazakhstan	0%	0%	0%	0%	0%	0%	0%	0%	0%
Central Kazakhstan	0%	0%	0%	0%	0%	0%	0%	0%	0%
Western Kazakhstan	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total	0.13%	0.14%	0.13%	0.14%	0.14%	0.14%	14%	16%	15%

Staff turnover in Samruk-Energy JSC by gender and age, %

Indicator	2022			2023			2024		
	men	women	total	men	women	total	men	women	total
Up to 30 years old	0.04%	0.03%	0.03%	0.03%	0.03%	0.03%	4%	3%	3%
30 to 50 years old	0.06%	0.07%	0.06%	0.07%	0.07%	0.07%	6%	8%	7%
50+	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	4%	5%	5%

Key indicators on parental leave by gender, persons

GRI 401-3, GRI 12: Coal Sector: 12.15.4, 12.19.4

Indicator	2022	2023	2024
Number of employees entitled to maternity or childcare leave (according to the Labour Code of the Republic of Kazakhstan)	17,650	17,892	18,907
Men	13,053	13,273	14,015
Women	4,597	4,619	4,892
Number of employees who took maternity and parental leave	329	354	345
Men	29	16	26
Women	300	338	319
Number of employees who returned to work at the end of maternity/ paternity leave	144	132	149
Men	10	11	12
Women	134	121	137
Number of employees who returned to work in the previous year at the end of maternity/paternity leave and were still working after 12 months	189	134	138
Men	11	7	14
Women	178	127	124



Indicator	2022	2023	2024
Number of employees who were expected to return to work at the end of maternity/paternity leave in the reporting year ⁵⁷	47	54	128
Men	2	6	12
Women	45	48	116
Return rate, %	3	2	1
Men	5	2	1
Women	3	3	1
Retention rate, %	1	1	1
Men	1	1	1
Women	1	1	1

Average hours of training per year per staff member by gender and category, 2024

GRI 404-1, GRI 12: Coal Sector: 12.15.6

Indicator	Administrative and managerial personnel			Production Personnel			Total		Total
	men	women	total	men	women	total	men	women	
Total number of training hours, hour	22	48	71	759,814	179,798	939,612	782,451	228,643	1,011,094
Average number of training hours per employee per year	49.21	50.51	50.09	56.05	45.8	53.75	55.82	46.73	53.47

Employee training expenses per year, KZT million

Indicator	2022	2023	2024
Employee training costs per year	305	440	570

Assessment of performance and career development of Samruk-Energy JSC employees by gender and category

GRI 404-3

Indicator	2022	2023	2024
Number of employees who have received regular performance and career development assessments (performance appraisals):	1,073	782	1,186
Administrative and managerial personnel	627	403	572
Men	241	133	209
Women	386	270	363
Production Personnel	446	379	614
Men	244	174	421
Women	202	205	193
Share of employees receiving regular performance and career development reviews, %	0.06%	4%	6.27%
Administrative and managerial personnel	0.46%	0.31%	40.08%
Men	0.57%	0.31%	45.43%
Women	0.42%	0.30%	37.53%
Production Personnel	0.03%	0.02%	3.51%
Men	0.02%	0.01%	3.10%
Women	0.06%	0.05%	4.91%

⁵⁷ The indicator takes into account employees who returned and those with whom contracts were terminated, excluding employees who extended maternity/paternity leave in the reporting year.

Ratio of salary of the best-paid employee to the others

GRI 2-21

Indicator		2022	2023	2024
Increase in average annual remuneration of the Company's employees	%	10	20	15
Ratio of total annual remuneration of the Company's highest paid employee to the average annual remuneration of other employees	ratio	285	285	285

Ratio of standard entry-level wages of women and men to the national level, KZT

GRI 202-1, GRI 12: Coal Sector: 12.19.2

Indicator	2023		2024	
	Men	Women	Men	Women
Employee's salary of the Company's entry-level	257,000	248,000	279,837	276,080
Minimum wage in Country	70,000	70,000	85,000	85,000
Ratio, %	367.1	354.3	329	325

Number of employees with disabilities by category, gender and region, persons, 2024

GRI 405-1, GRI 12: Coal Sector: 12.19.6

Region	Administrative and managerial personnel			Production Personnel			Total		Total
	men	women	total	men	women	total	men	women	
Centre	-	-	-	-	-	-	-	-	-
East	-	1	1	1	2	3	1	3	4
North	3	5	8	67	20	87	70	25	95
South	3	2	5	87	15	102	90	17	107
Total	6	8	14	155	37	192	161	45	206

Members of the Management Board by age and gender, persons

GRI 405-1, GRI 12: Coal Sector: 12.19.6

Indicator	2022			2023			2024		total
	men	women	total	men	women	total	men	women	
Up to 30 years old	-	-	-	-	-	-	-	-	-
30 to 50 years old	3	1	4	3	1	4	19	3	22
50+	1	-	1	1	-	1	7	0	7
Total	4	1	5	4	1	5	26	3	29



Occupational health and safety

Number and share of employees covered by the occupational health and safety management system by category

GRI 403-8, GRI 12: Coal Sector: 12.14.9

Indicator	2022		2023		2024	
	people	%	people	%	people	%
Number of people and percentage of total headcount in the Company covered by the Company's occupational health and safety management system: ⁵⁸						
Full-time employees	17,650	100%	17,892	100%	18,907	100%
Freelance workers (outsourced, contractor workers and interns)	465	100%	474	100%	496	100%
Number of people and percentage of the total number of people in the Company covered by the Company's occupational health and safety management system that has passed the internal audit procedure (production control system) ⁵⁸ :						
Full-time employees	17,650	100%	17,892	100%	18,907	100%
Freelance workers (outsourced, contractor workers and interns)	465	100%	474	100%	496	100%
Number and percentage of all employees and workers who are not employees, but whose work and/or workplace is controlled by the organisation, who are covered by such a system that has been verified or certified by an external party						
Full-time employees	16,761	100%	16,749	100%	13,584	100%
Freelance workers (outsourced, contractor workers and interns)	584	100%	429	100%	416	100%

Occupational injury rate among regular employees of Samruk-Energy JSC

GRI 403-9, GRI 12: Coal Sector: 12.14.10

Indicator	2022	2023	2024
Total number of fatal accidents	4	2	3
Frequency rate of fatal accidents	0.13	0.07	0.09
Total number of occupational injuries with severe consequences (excluding fatalities)	4	5	10
Frequency rate of high-consequence occupational injuries (excluding fatalities)	0.13	0.16	0.31
Total number of people injured in labour-related accidents (including fatalities)	10	10	32
Lost Time Injury Frequency Rate (LTIF)	0.34	0.33	0.99
Total man-hours worked	29,804,062	30,711,861	32,470,550

Occupational injury rate among the contracting organisations of Samruk-Energy JSC

Indicator	2022	2023	2024
Number of fatalities among contractor employees in work-related accidents	0	1	1
Number of injured (excluding fatalities) contractor employees in work-related accidents	1	1	2

⁵⁸ Due to the increase in the scope of work and number of contractors, as well as the inclusion of the Eastern HPPs and Ekibastuz CHPP in the perimeter.

Health promotion and occupational diseases among Samruk-Energy JSC employees

GRI 403-10, GRI 12: Coal Sector:12.14.11

Indicator	2022	2023	2024
Number of non-work-related fatalities due to health deterioration	1	7	3
Number of employees on the D register	605	858	738
Number of registered occupational diseases	0	0	0
Number of employees who have undergone medical examination in accordance with the legislation of the Republic of Kazakhstan	14,911	14,878	15,228

Number of road accidents

Indicator	2022	2023	2024
Number of all road accidents, units	0	0	1
Number of kilometres travelled by the Company's vehicles, units	16,734,956	13,534,698	17,440,458
Road traffic accident rate	0	0	0.057

Financing of HSE measures, KZT billion

Indicator	2022	2023	2024
The amount of money spent to ensure requirements in the field of industrial safety, including in the areas of:	2.53	2.99	4.65
Occupational health and safety	1.78	2.16	0.02
Fire safety	0.11	0.11	0.11
Industrial safety	0.02	0.04	0.04
Training	0.09	0.07	0.08
Other	0.53	0.62	1.22

Training of employees in the field of industrial safety, persons

GRI 403-5, GRI 12: Coal Sector: 12.14.6

Training	2022	2023	2024
Number of employees trained within the framework of the RK legislation requirements, including:	12,089	12,449	23,874
Occupational health and safety	1,687	1,825	4,058
Fire safety ⁵⁹	4,224	3,458	9,664
Industrial safety	6,031	5,459	5,232
Other	135	1,904	4,920
Number of employees trained beyond the requirements of the RK legislation	192	1,444	12,350
Number of specialists trained under the NEBOSH program	8	13	15
Number of specialists trained under the IOSH program	4	102	55
Number of employees trained in first aid (paramedic) at the workplace	145	213	410
Number of specialists trained in the "Defensive Driving" course ⁶⁰	10	11	117

⁵⁹ The deadline for periodic training is approaching.

⁶⁰ In accordance with the implementation of measures of the Action Plan of Samruk-Kazyna JSC on industrial safety.



Environmental indicators

Expenditures on environmental protection, KZT million

Object of expenditure	2022	2023	2024
Waste management and environmental damage remediation	5.220	19.794	11.460
Protection and rehabilitation of land, surface and ground waters, wastewater treatment	0.452	0.463	4.350
Protection of atmospheric air and mitigation of climate change	1.365	3.050	2.398
Landscaping and greening	0.058	0.115	0.224
Staff training and professional development	0.002	0.002	0.002
Development of documents	0.011	0.019	0.062
Other activities in the field of protection Environment (water and air analyses)	0.008	0.009	0.019
Total	7.117	23.452	18.516

Payments for emissions (tax) and mandatory payments in the field of environmental protection, KZT billion

Indicator	2022	2023	2024
Payment for emissions of pollutants into the atmospheric air	6.197	6.992	7.739
Payment for the use of water bodies (water tax)	0.127	0.093	0.189
Payment for discharges of pollutants	0.010	0.011	0.011
Payment for waste disposal in the natural environment	1.265	1.470	1.542
Total	7.599	8.566	9.480

Fines for violation of environmental legislation, KZT million

GRI 2-27

Indicator	2022	2023	2024
Amount of fines charged	32,090.575	2.260	5.538
Amount of fines paid	20,322	4.604	5.538
Cases of non-financial sanctions, number	-	1	-

Total volume of water withdrawn by Samruk-Energy JSC, thousand m³

GRI 303-3, GRI 12: Coal Sector: 12.7.4

Indicator	2022	2023	2024	Regions water-stressed
Surface sources ⁶¹	63,472,445	63,638,303	80,138,803	no
Groundwater sources	6,527	5,704	5,907.5	no
Urban water supply systems	39,369	39,916	41,760.9	no

⁶¹ Increase in hydropower generation by 27% in 2024 compared to 2023.

Indicator	2022	2023	2024	Regions water-stressed
Formation water	-	-	-	no
Waters of third-party organisations Aksai-Karagalinsky Main Canal (AIES JSC)	132	233	277.5	no
The sea	-	-	-	no
Municipal and other water supply systems	-	-	-	no
Drainage/mine and quarry water	2,351	2,003	2,010.3	no
Total volume of water withdrawn by the Company ⁶²	63,520,823.63	63,686,158.80	80,188,759.2	no
Fuel generation, coal mining and distribution companies	211,247	230,694	222,398	no
HYDROPOWER PLANT	63,309,576.63	63,455,464.8	79,966,361	no

Total volume of water withdrawal with breakdown into fresh and other water, thousand m³

Indicator	2022	2023	2024	Regions water-stressed
Fresh water	63,518,473	63,684,156	80,186,748.9	no
Other water	2,351	2,003	2,010.3	no
Total	63,520,823.63	63,686,158.80	80,188,759.2	no

Total volume of discharges by receiving facilities, thousand m³

GRI 303-4, GRI 12: Coal Sector: 12.7.5

Indicator	2022	2023	2024
Surface water ⁶³	63,309,506	63,455,394	79,966,299.0
Groundwater (pumping)	-	-	-
Artificial water bodies (evaporation ponds, storage ponds and filtration fields)	2,289	1,923	1,922.6
Transferred to other parties for clearance	609	630	458,0
Ash dump	74,688	73,299	74,711.5
Central sewerage system	-	-	-
Total discharges for the Company: ⁶³	63,387,091.89	63,531,246.37	80,043,391.10
Fuel generation, coal mining and distribution companies	77,585.7	75,852.1	77,092.1
HPP ⁶³	63,309,506.2	63,455,394.3	79,966,299.0

Total water discharge volume with breakdown into fresh and other water, thousand m³

Indicator	2022	2023	2024	Regions water-stressed
Fresh water	63,384,965	63,529,467	80,041,590.7	no
Other water	2,127	1,780	1,800.4	no
Total	63,387,092	63,531,246	80,043,391.1	no

⁶² Total volume of water withdrawal for 2022–2023 is recalculated taking into account the data of AES Ust Kamenogorsk HPP LLP and AES Shulbinsk HPP LLP.

⁶³ Electricity generation by HPPs is expected to increase by 27% in 2024 compared to 2023.



Water use by type of operations, thousand m³

Indicator	2022	2023	2024
Production needs	63,391,725	63,557,239	80,063,149.3
Drinking water	1,069	1,102	990.5
Transferred without use, including	-	-	-
Transferred to third parties	122,455	122,241	119,240
Transferred to the structure of the Fund	-	-	-
Others	5,575	5,576	5,379.3
Total ⁶⁴	63,520,824	63,686,159	80,188,759

Volume of irrecoverable water consumption by Samruk-Energy JSC, thousand m³

GRI 303-5, GRI 12: Coal Sector: 12.7.6

Indicator	2022	2023	2024	Regions water-stressed
Total water consumption	133,732	154,912	145,368	no

Total volume of reusable and recycled water, thousand m³

Indicator	2022	2023	2024
Volume of reused water (after treatment)	7,327	8,328	8,900.6
Volume of recycled water	3,527,190	3,490,881	3,540,825.8

Volume of water extracted in the process of production activities, thousand m³

Indicator	2022	2023	2024
Volume of produced associated formation water	-	-	-
Drainage/mine and quarry water	2,351	2,003	2,010.3

Resource consumption and energy efficiency, thousand GJ

GRI 302-1, GRI 12: Coal Sector: 12.1.2

Indicator	2022	2023	2024
Resource consumption	340,079	339,604	352,022
Total energy consumption, incl.	15,153	15,171	16,237
Electricity, incl:	12,331	12,444	12,847
HYDROPOWER PLANT	38	48	53
Amount of purchased energy	10,900	9,303	5,256
Purchased electricity, incl:	10,782	9,201	5,129
RES	5,826	4,231	-
HPPs from RES	295	197	-

⁶⁴ Increase in hydropower generation by 27% in 2024 compared to 2023.

Indicator	2022	2023	2024
Own power generation, incl:	129,183	127,187	143,181
Electricity generation by energy-intensive subsidiaries and affiliates	127,681	125,802	141,100
RES	1,503	1,996	2,081.2
Electricity sales total	127,534	124,916	137,181
Heat energy consumption total, incl:	2,823	2,727	3,390
Purchased heat energy	118	102,4	127
Own production of heat energy	23,039	26,807	28,265
Heat energy sales	22,632	23,798	25,070
Coal	326,562	325,818	337,534
Gas, including:	11,024	10,842	11,382
natural gas	11,023	10,841	11,381
LNG (LPG)	0.7	0.68	0.56
Liquid fuels, including:	1,530	1,661	1,907
petrol	156	155	175
diesel fuel	1,374	1,506	1,732
Boiler fuels, including:	963	1,283	1,199
fuel oil	963	1,283	1,199

Energy capacity

GRI 302-3

Indicator	Unit of measurement	2023	2024
Electricity generation	thousand GJ/ thousand MWh	0.00961	0.00885
Heat production	thousand GJ/ thousand Gcal	53.05	52.14

Energy efficiency, KZT million

2022	2023	2024
1,873.2	3,562.5	2,755.9

Reduction of energy consumption, thousand GJ⁶⁵

GRI 302-4

Indicator	2022	2023	2024
Petrol	-	0.30	0.29
Diesel fuel	-	0.34	0.16
Fuel oil	7	34.45	-
Coal	14,155	9,928	9,187
Natural gas	35	20.43	54
Electricity	47	36.15	35
Heat energy	28	23.49	14

⁶⁵ The Company accounts for the reduction of energy consumption through technical measures in accordance with the established methodology for assessing their impact.



AZhK JSC Electricity Supply Reliability Indicators Report 2017–2024, SAIDI, SAIFI

Indicator	2022	2023	2024
Number of customer outages in the power supply system Sa(i)	2,539,847	3,165,368	2,577,065
Duration of shutdown, t, hour	4,452.26	6,397.75	4,827.47
Total duration of power interruption, t, hour (Ca(i)xt)	3,192,020.85	3,239,976.24	3,149,424.2
Total number of consumers in the power supply system Cs	952,991	952,739	987,610
Average number of deviations per consumer (SAIFI)	2.67	3.32	2.61
Average duration of disconnection per consumer,t, hour (SAIDI)	3.35	3.4	3.19

IUCN Red List species and national list of protected species occurring in the areas of the organisation's operations, by type of risk

GRI 304-4, GRI 12: Coal Sector: 12.5.5

Type of risk	Type of animal
Critically endangered	-
Endangered	steppe eagle
Vulnerable	imperial eagle
Near threatened	-
Least concern	-

Total weight of waste by type, tonnes

GRI 306-3, GRI 12: Coal Sector: 12.6.4

Types of waste	2022	2023	2024
Hazardous waste	647	1,732	534
Non-hazardous waste	89,928,280	98,496,364	108,784,366
Zoloshlak	7,129,158	8,853,230	8,781,174
Overburden rocks	82,783,567	89,620,982	99,979,093
Others	15,555	22,152	24,099
Total	89,928,927	98,498,095	108,784,900

Total volume of wastes of Samruk-Energy JSC enterprises directed for recovery, tonnes

GRI 306-4, GRI 12: Coal Sector: 12.6.5

Indicator	2022		2023		2024	
	In the company	Outside the company	In the company	Outside the company	In the company	Outside the company
Total volume of recovered waste	12,856.78	22,951.87	9,663.65	28,223.13	9,843.86	25,945.88
Total volume of hazardous waste recovered, incl.	87.58	211.53	49.71	1,097.81	48.45	592.44
reused	87.58	-	49.71	-	48.42	-
revised	-	14.96	-	125.75	-	136.93
utilised	-	4.87	-	32.84	0.03	65.43
other ways	-	191.69	-	939.22	-	390.07

Indicator	2022		2023		2024	
	In the company	Outside the company	In the company	Outside the company	In the company	Outside the company
Total volume of non-hazardous waste recovered, incl.	12,769.19	2,740.34	9,613.94	27,125.32	9,795.41	25,353.44
reused	12,769.19	-	9,613.94	-	9,795.41	1.00
revised	-	14,057.29	-	12.13	-	4.63
utilised	-	4,770.63	-	1,885.95	-	3,570.08
other ways	-	3,912.42	-	25,227.25	-	21,777.74

Total volume of wastes of Samruk-Energy JSC enterprises sent for utilisation, tonnes

GRI 306-5, GRI 12: Coal Sector: 12.6.6

Indicator	2022		2023		2024	
	In the company	Outside the company	In the company	Outside the company	In the company	Outside the company
Total volume of waste sent for disposal	90,267,675	2,223.91	97,975,466	2,805.30	109,421,294	2,978.37
Total volume of hazardous waste sent for destruction	-	60.54	1.34	88.80	-	88.02
Combustion (with energy recovery)	-	-	-	-	-	-
Combustion (without energy recovery)	-	43.15	1.11	80.64	-	74.02
Other ways	-	17.39	0.24	8.16	-	14.00
Total volume of non-hazardous waste sent for destruction, incl.	-	3,632.60	-	4,328.92	-	4,930.81
Combustion (with energy recovery)	-	-	-	-	-	-
Combustion (without energy recovery)	-	1.74	-	14.92	-	22.85
Other ways	-	3,630.86	-	4,314.00	-	4,907.96

Volume of direct (scope 1) greenhouse gas emissions by GHG type and activity segment, million tonnes CO2-eq.^{66,67}

GRI 305-1, GRI 12: Coal Sector: 12.1.5

Indicator	2022	2023	2024
By type of GHG:			
Carbon dioxide (CO ₂)	31.978243	31.877469	30.883547
Methane (CH ₄)	0.940988	1.065127	1.058713
Nitrous oxide (N ₂ O)	0.074182	0.066980	0.064326
By business segment:			
Electricity generation	29.82	29.60	28.95
Heat production	1.75	1.88	1.95
Coal mining	1.42	1.53	1.11
Total direct emissions (Scope 1) of greenhouse gases	32.993413	33.009576	32.006586

⁶⁶ According to Article 283 of the EC RK (National contribution of the Republic of Kazakhstan to the global response to climate change), the Republic of Kazakhstan aims to ensure that by 31 December 2030 the carbon balance of the Republic of Kazakhstan is reduced by at least 15% from the level of the carbon balance of 1990. For Samruk-Energy JSC, according to the "Energy Transition Programme of Samruk-Energy JSC until 2060", the base year for Scope 1 is 2021, for Scope 2 – 2022.

⁶⁷ Calculation methodologies: 1) Approved by the Order of the Minister of Ecology and Natural Resources of the RK from 17 January 2023 No.9 "Methodologies for calculating emissions and absorption of greenhouse gases"; 2) Approved by the Order of the Acting Minister of Ecology, Geology and Natural Resources of the RK from 19 July 2021 No.260 List of benchmarks in regulated sectors of the economy; 3) GHG Protocol Scope 2 Guidance.



GRI 305-2, GRI 12: Coal Sector: 12.1.6

Volume of indirect (Scope 2) greenhouse gas emissions by energy type and activity segment, million tonnes CO₂-eq.

Indicator	2022	2023	2024
by type of energy:			
Purchased electricity	0.001527	0.001415	0.001515
Purchased heat energy	0.011807	0.009928	0.012368
by business segment:			
Coal mining	0.013334	0.011343	0.013883
Total indirect emissions (Scope 2) of greenhouse gases	0.013334	0.011343	0.013883

Intensity of greenhouse gas emissions

GRI 305-4, GRI 12: Coal Sector: 12.1.8

Indicator	Unit	2023	2023	2024
Total direct emissions (Scope 1) of greenhouse gases	million tonnes CO ₂ -eq	32.993	33.010	32.007
Total indirect emissions (Scope 2) of greenhouse gases	million tonnes CO ₂ -eq	0.013334	0.011343	0.013883
Amount of revenue	KZT million	381,465.00	444,959.63	573,489.84
Specific consumption for Scope 1	tCO ₂ -eq/KZT	0.000086	0.000074	0.000056
Specific consumption for Scope 2	tCO ₂ -eq/KZT	0.000000035	0.000000025	0.000000024

Greenhouse gas emission reductions, tonnes CO₂-eq

GRI 305-5, GRI 12: Coal Sector: 12.2.3

Indicator	2022	2023	2024
Reduction of Scope 1 emissions (direct)	7,556	413,738	17,587
Reduction of Scope 2 emissions (indirect)	-	-	-
Total GHG emission reductions	7,556	413,738	17,587

Volume of pollutant emissions, tonnes⁶⁸

GRI 305-7, GRI 12: Coal Sector: 12.4.2

Contaminants	2022	2023	2024
Nitrogen oxides (NOx)	80,147.348	77,745.593	75,446.900
Sulphur dioxide (SOx)	223,331.130	221,132.549	214,202.600
Persistent organic pollutants (POPs)	-	-	-
Volatile organic compounds (VOCs)	313.382	274.489	168.595
Hazardous air pollutants (HAP)	-	-	-
Carbon monoxide (CO)	6,217.230	6,520.516	6,426.460
Particulate matter (PM)	48,063.653	49,234.931	49,109.156
Others	6.326	14.193	19.300
Total	358,079.069	354,922.271	345,373.010

⁶⁸ The Company classifies all pollutant emissions as hazardous air pollutants (HAPs).

Investment Indicators

Implementation of the Investment Program of Samruk-Energy JSC in 2024, million tenge (excluding VAT)

GRI 203-1

Subsidiaries	2022 actual	2023 actual	2024 actual	2025 forecast
TOTAL	100,580	132,146	229,787	360,587
Investment projects, including:	58,372	80,393	136,375	193,275
Restoration of Unit No.1 with installation of new electrostatic precipitators*	32,681	71,113	38,540	-
Modernization of Unit No.3 at Ekibastuz GRES-1 LLP	-	-	679	-
Expansion and reconstruction of SDPP-2 Plant JSC with installation of Unit No.3	10,209	121	373	17,611
Development of a feasibility study (FS) for the construction of Unit No. 4 at Ekibastuz ESDPP-2 Plant JSC	-	-	145	19
Transition to cyclic-flow technology (CFT) for coal mining, transportation, blending, and loading at the Bogatyr open-pit mine of the Ekibastuz coal field	7,896	5,373	1,426	-
Construction of Kokozek Substation	354	-	2,433	-
Construction of Turksib Substation	-	-	521	945
Reconstruction of Substation 220/110/10 kV No. 7 (AHBK)	2	-	-	1,620
Reconstruction of power grids	-	1,928	3,930	-
Modernization of CHP-2 with minimized environmental impact, including feasibility study development and expertise review*	560	1,683	63,244	105,731
Expansion of CHP-1 with construction of a combined-cycle gas turbine (CCGT) unit with a capacity of 200–250 MW	271	3	-	-
Reconstruction of Almaty CHP-3 using CCGT technology, increasing station capacity to 450 MW*	334	123	24,550	52,699
Construction of a wind power station in the Shelek Corridor, with a capacity of 60 MW and potential expansion to 300 MW	4,944	49	2	-
Construction of 50 MW Ereymentau Wind Power Plant	1,065	-	-	-
Expansion of the existing Ereymentau-1 Wind Power Station (45 MW) with two additional wind turbines of 2.5 MW each	56	0.06	-	-
Development of a pre-feasibility study (Pre-FS) for the Semey Hydropower Plant	-	-	364	-
Construction of a coal-fired thermal power station in Kokshetau	-	-	-	4,106
Construction of a coal-fired thermal power station in Semey	-	-	-	3,260
Construction of a coal-fired thermal power station in Ust-Kamenogorsk	-	-	-	3,152
Implementation of renewable energy projects with a total capacity of 1 GW (Altyn Dala)	-	-	13	2,065
Other projects	2	-	155	2,066
Maintenance of operational assets	41,052	49,555	89,715	152,403
Bogatyr Coal LLP (50%)	7,995	6,824	7,785	12,851
Ekibastuz SDPP-2 Plant JSC (50%)	1,985	2,483	6,022	3,316
Ekibastuz GRES-1 LLP	9,859	12,957	28,738	60,644
Alatau Zharyk Company JSC	11,289	14,173	22,924	35,565
Almaty Electric Stations JSC	9,563	11,947	16,860	24,134
Moynak HPP JSC	103	574	1,145	1,458
Shardara HPP JSC	54	22	130	261
Branch of Alatau Zharyk Company JSC – Energosbyt	85	77	87	90
Samruk-Green Energy LLP	22	21	27	132
First Wind Power Plant LLP	96	476	767	1,165
Ereymentau Wind Power LLP	-	-	-	-
Energiya Semirechya LLP (25%)	-	0.3	4	-
Energy Solutions Center LLP	-	-	-	6,476
Shulbinsk HPP	-	-	3,509	5,001
Ust-Kamenogorsk HPP	-	-	1,717	1,310
Maintenance of administrative assets	1,157	2,198	2,967	12,107
Others	-	-	731	2,803

* Significant investment projects included within the scope of GRI 203-1.



Production figures

Key production indicators

Indicator	Unit	2022	2023	2024
Energy				
Electricity production volume, incl.	billion kWh	35.88	35.33	39.77
coal-fuelled	billion kWh	33.09	32.52	31.99
HYDROPOWER PLANT	billion kWh	2.55	2.42	7.07
WES	billion kWh	0.239	0.379	0.381
SES	billion kWh	0.005	0.005	0.005
Length of overhead and cable lines (0.4-220 kV transmission lines)	kilometres	25,262.77	30,240.39	30,722
Volume of coal production	million tonnes	42.47	42.93	42.68
Volume of heat production	thousand Gcal	5,502.50	6,402.00	6,751.08*

* In accordance with the reporting boundaries for GRI 302-3, excluding Energy Solutions Center LLP (Ekibastuz CHP).

Production efficiency metrics (by Producer)

Name of a subsidiary	2022 Actual	2023 Actual	2024 Actual	% against 2023 actual	2025 Forecast
Electricity production volumes, mln.kWh					
Ekibastuz GRES-1 LLP	23,048	22,870	22,544	99%	24,565
Ekibastuz SDPP-2 Plant JSC	6,002	5,659	6,045	107%	6,000
Almaty Electric Stations JSC	5,099	5,054	5,196	103%	5,148
Moynak HPP JSC	973	832	1,071	129%	857
Shardara HPP JSC	518	529	583	110%	500
AES Ust Kamenogorsk HPP LLP	-	-	1,891	-	1,721
AES Shulbinsk HPP LLP	-	-	2,057	-	1,743
Energia Semirechya LLP	19.78	21.52	21.01	98%	20.06
First Wind Power Plant LLP	136	143	137	96%	152
Energia Semirechya LLP	88	221	227	103%	214
Total	35,884	35,330	39,772	113%	40,919
Electricity sale volume, mln.kWh					
Ekibastuz GRES-1 LLP	23,102	22,796	21,619	95%	23,413
Ekibastuz SDPP-2 Plant JSC	5,938	5,532	5,823	105%	5,661
export	473	577		0%	
Almaty Electric Stations JSC	4,591	4,530	4,596	101%	4,373
Moynak HPP JSC	1,014	912	1,183	130%	892
Shardara HPP JSC	540	549	584	106%	496
AES Ust Kamenogorsk HPP LLP	-	-	1,883	-	1,712
AES Shulbinsk HPP LLP	-	-	2,035	-	1,717
Samruk-Green Energy LLP	19.53	21.23	23.84	112%	24.56
First Wind Power Plant LLP	135	142	137	96%	151
Energia Semirechya LLP	86	216	223	103%	208
Total	35,426	34,699	38,106	110%	38,648
CAPACITY sales volumes, MW					

Name of a subsidiary	2022 Actual	2023 Actual	2024 Actual	% against 2023 actual	2025 Forecast
Ekibastuz GRES-1 LLP	2,024	1,330	1,830	138%	2,601
Including capacity volume under individual tariff					477
Ekibastuz SDPP-2 Plant JSC	779	647	899	139%	877
Almaty Electric Stations JSC	859	808	834	103%	850
Including capacity volume under individual tariff	70	70	70	100%	-
Moynak HPP JSC	289	292	289	99%	298
Shardara HPP JSC	61	61	61	100%	61
AES Ust Kamenogorsk HPP LLP			329		330
AES Shulbinsk HPP LLP			576		576
Total	4,013	3,138	4,818	154%	5,593
Heat production volumes, thousand Gcal					
Almaty Electric Stations JSC	5,282	5,582	5,776	103%	5,503
Ekibastuz SDPP-2 Plant JSC	78	70	76	109%	76
Ekibastuz GRES-1 LLP	143	124	136	109%	292
Energy Solutions Center LLP (Ekibastuz CHP)			672	-	1,459
Total	5,502	5,776	6,660	115%	7,329
Electricity transmission volumes, mln.kWh					
Alatau Zharyk Company JSC	8,154	8,686	9,259	107%	9,189
Total	8,154	8,686	9,259	107%	9,189
Electricity sales volumes, mln.kWh					
Alatau Zharyk Company JSC Branch – Energosbyt	6,847	7 086	8,736	123%	8,848
Total	6,847	7,086	8,736	123%	8,848
Coal sales volumes, mln.tons	42.41	42.49	43.00	101%	45.00

Management indicators

GRI 205-2, GRI 12: Coal Sector: 12.20.3

Number of employees familiarised with anti-corruption policies and procedures by category and region

Indicator	2022		2023		2024	
	person	%	person	%	person	%
Management Board	12	100	65	100	29	100
South	-	-	25	38.4	17	41.4
Centre	-	-	0	0	0	0
East	-	-	12	18.4	0	0
North	12	100	28	43.2	12	58.6
Personnel	17,650	100	11,541	100	12,247	100
South (Administrative and managerial staff)	7,856	44.5	133	1.15	362	2
South (Production Personnel)	-	-	7,808	67.65	7,638	61
Centre (Administrative and managerial staff)	258	1.45	0	0	0	0
Centre (Production Personnel)	-	-	0	0	0	0
Vostok (Administrative and managerial personnel)	10	0.05	12	0.1	83	1
Vostok (Production Personnel)	-	-	316	2.74	245	2
North (Administrative and managerial staff)	9,518	54	75	0.65	470	3
North (Production Personnel)	-	-	3,197	27.7	3,919	31



Indicator	2022		2023		2024	
	person	%	person	%	person	%
Business partners	159	100	8,420	100	9,235	100
South	-	-	3,085	36.6	3,162	34
Centre	-	-	0	0	0	0
East	-	-	44	0.5	83	1
North	159	100	5,291	62.9	5,990	65

Number of employees who have undergone anti-corruption training⁶⁹

Indicator	2022		2023		2024	
	person	%	person	%	person	%
Management Board	12	100	65	100	29	100
South	-	-	25	38.4	17	41.4
Centre	-	-	0	0	0	0
East	-	-	12	18.4	0	0
North	12	100	28	43.2	12	58.6
Personnel	17,650	100	11,541	100	12,247	100
South (Administrative and managerial staff)	7 856	44.5	794	1.15	362	2
South (Production Personnel)	-	-	7,808	67.65	7,638	61
Centre (Administrative and managerial staff)	258	1.45	0	0	0	0
Centre (Production Personnel)	-	-	0	0	0	0
Vostok (Administrative and management personnel)	10	0.05	12	0.12	83	1
Vostok (Production Personnel)	-	-	316	2.74	245	2
North (Administrative and managerial staff)	9,518	54	75	0.65	470	3
North (Production Personnel)	-	-	3,197	27.7	3,919	31

Number of confirmed cases of corruption and measures taken, in units

GRI 205-3, GRI 12: Coal Sector: 12.20.4

Indicator	2022	2023	2024
Total number of confirmed cases of corruption	0	0	0
Total number of cases of dismissal or disciplinary action for corruption	0	0	0
Total number of confirmed cases of non-renewal or termination of contracts with business partners due to violations related to corruption	0	0	0
Number of public legal cases regarding corruption brought against the organisation or its employees during the reporting period	0	0	0

Share of suppliers in the Group of companies of Samruk-Energy JSC

GRI 204-1, GRI 12: Coal Sector: 12.8.6

Indicator	2022	2023	2024
Number of suppliers, total, units	2,137	2,360	2,859
Total amount of purchases, KZT billion	263	239	350

⁶⁹ In 2024, no anti-corruption trainings were conducted among business partners; familiarisation was carried out in the form of terms and conditions in contracts.

Indicator	2022	2023	2024
Number of local suppliers, total, units	2,090	2,308	2,808
Amount of local purchases, KZT billion	258	232	330
%, by number	98%	98%	98%
%, by amount	98%	97%	94%

Sum of concluded contracts for the Group of companies of Samruk-Energy JSC with suppliers

Indicator	2022		2023		2024	
	KZT billion	%	KZT billion	%	KZT billion	%
Procurement conducted by single-source method ⁷⁰	72	27%	128	54%	229	65%
Procurements made by means of request for quotation method	9	4%	11	4%	11	3%
Procurements made by open tender method	74	28%	99	41%	110	31%
Procurement through competitive negotiations ⁷¹	64	24%	0	0%	0	0%
Purchases within the framework of intra-holding co-operation ⁷¹	42	16%	0	0%	0	0%

Justified complaints about breaches of client confidentiality and loss of client data, units

GRI 418-1

Indicator	2022	2023	2024
Total number of substantiated complaints received regarding breaches of client confidentiality, by category, of which:	0	0	0
Number of complaints received from external parties and substantiated by the organisation	0	0	0
Number of complaints received from regulatory authorities	0	0	0
Total number of detected leaks, thefts or losses of customer data	0	0	0

Compliance with laws and regulations in 2024

GRI 2-27

Indicator	Unit.	2022	2023	2024
Total number of cases of non-compliance with laws and regulations acts, including:	unit	69	40	28
— penalty cases	unit	60	40	28
— cases of non-monetary sanctions	unit	9	0	0
Total number of cases of non-compliance with laws and regulations whose fines have been paid	unit	60	40	31
— charged in the reporting year	unit	24	40	28
— charged in previous reporting periods	unit	36	0	3
Total fines, non-compliance with laws and regulations ⁷²	thousand KZT	934,475	60,287	582,514
— charged in the reporting year ⁷³	thousand KZT	297,069	60,287	289,726
— charged in previous reporting periods	thousand KZT	637,406	0	292,788

⁷⁰ Increase of procurement by single source method is connected with increase of perimeter of subsidiaries and affiliates (AES Ust Kamenogorsk HPP LLP, AES Shulbinsk HPP LLP, ESC (Ekibastuz CHPP) LLP, Kokshetau CHPP LLP), implementation of projects for which procurement is carried out by single source method on the basis of subparagraph 13) of paragraph 1.

⁷¹ From the beginning of 2022, the methods of procurement through competitive negotiations and within the framework of intra-holding co-operation are excluded from the Fund's Procedure.

⁷² In connection with the payment of a penalty to EGRES-1 as a result of a tax audit for previous years.

⁷³ In connection with the presentation of GRES-2 administrative penalty in the amount of KZT 263,421,275 applied to SEGRES-2 JSC under Part 3 of Article 278 of the Administrative Code of the Republic of Kazakhstan for the period of 2021 in connection with the revealed violation of paragraph 1 of Art. Article 305 of the Tax Code of the Republic of Kazakhstan, namely the excess of the amount of actually accrued CIT over the amount of advance payments in 2021 in the amount of more than 20% during the tax period as a result of the inspection of the Prosecutor's Office of Pavlodar region and received notification from the Tax Department of Ekibastuz.