

KEY ESG DISCLOSURES

PRODUCTION DISCLOSURES

Key Production Disclosures	Units	2022	2023	2024
Oil & Gas Sector				
Crude oil and gas condensate production	thousand tonnes/year	22,012	23,532	23,837
Crude oil and gas condensate production (daily)	thousand tonnes/day	60,307	64,471	65,128
Natural and associated gas production	million m ³ /year	8,241	9,459	9,554
Natural and associated gas production (daily)	thousand m ³ /day	22,578	25,915	26,125
Number of drilling sites (>50% share)	units	65	66	67
Oil and gas processing	thousand tonnes	19,900	19,593	19,158
Production of petroleum products, incl.	thousand tonnes	18,669	18,183	17,949
Gasoline	thousand tonnes	5,330	5,628	5,566
Fuel oil	thousand tonnes	2,416	2,011	1,697
Vacuum gas oil (VGO)	thousand tonnes	482	179	258
Paraxylene	thousand tonnes	76	26	108
Diesel fuel	thousand tonnes	6,588	6,460	6,446
Benzene	thousand tonnes	9	23	28
Coke	thousand tonnes	377	630	630
Liquefied gas	thousand tonnes	846	878	883
Sulfur	thousand tonnes	60	108	102
Jet fuel	thousand tonnes	838	792	985
Furnace fuel	thousand tonnes	16	38	18
Bitumen	thousand tonnes	657	574	557
Commercial crude oil	thousand tonnes	231	242	201
Feedstock for carbon black	thousand tonnes	10	9,542	0
Light naphtha	thousand tonnes	2	1	1
Propylene	thousand tonnes		117	83
Other	thousand tonnes	730	468	388
Installed processing capacity	thousand tonnes/day	75.8	75.8	75.8
Total oil transportation, incl.	million t/km	74,659	80,359	
via trunk pipelines	thousand tonnes	65,316	69,581	70,309
via maritime transport (tankers)	thousand tonnes	9,343	10,778	13,169

ECONOMIC DISCLOSURES

COMPLIANCE WITH LAWS AND REGULATIONS

GRI 2-27

Disclosure	2022	2023	2024
Total number of instances of non-compliance with laws and regulations, units	67	40	51
– of which resulted in fines	67	40	51
– of which resulted in non-monetary sanctions	0	0	0
Total number of non-compliance cases with paid fines, units	67	40	51
– imposed during the reporting period	58	39	50
– imposed in previous reporting periods	9	1	1
Total amount of fines paid for non-compliance with laws and regulations, KZT thousand	280,311	91,563	196,306
– imposed during the reporting period	204,796	85,937	195,118
– imposed in previous reporting periods	75,515	5,626.1	1,118.36

DIRECT ECONOMIC VALUE GENERATED AND DISTRIBUTED, KZT BILLION

GRI 201-1

Disclosure	2022	2023	2024
Direct economic value generated			
Total revenue	9,827	9,242	9,238
Economic value distributed			
Total expenses	8,521	8,315	8,144
Economic value retained			
Profit	1,307	927	1,094
Payments to providers of capital	701	558	552
Payments to state	1,176	1,162	1,079
Capital investments	535	804	716

KMG did not receive any financial assistance in monetary form from the state during the reporting period and does not make donations for state or political purposes. KMG does not engage in lobbying or political financing. All forms of lobbying and political expenditures, including in-kind contributions, are considered.

SOCIAL INFRASTRUCTURE INVESTMENTS, KZT BILLION

GRI 203-1

Disclosure	2022	2023	2024
Amount of significant infrastructure investments	12.0	5.6	3.7

NUMBER OF OIL AND GAS FIELDS

Disclosure	2022	2023	2024
Total number of fields	66	67	68
Onshore fields	65	66	67
Offshore fields	1	1	1

ENVIRONMENTAL DISCLOSURES

WATER MANAGEMENT DISCLOSURES

GRI 303-3, GRI 303-4, GRI 303-5

Disclosure	2022	2023	2024
Total volume of water taken away excluding reservoir waters, thousand m ³	83,707	80,437	83,072
Total water discharge, thousand m ³	10,309	10,457	10,512
Total water consumption, thousand m ³	83,707	80,437	83,072

Structure of Withdrawal, Discharge and Water Use as of the End of 2024, thousand m ³	All regions	Water-scarce regions
Total water withdrawal, thousand m³	223,576	26,784
<i>By source:</i>		
Surface water	34,774	3,421
Groundwater	24,796	17,463
Seawater	13,923	1,057
Municipal water supply	9,488	4,829
Formation water	140,504	–
Third-party water supply	92	14
<i>By water type:</i>		
Freshwater	37,396	10,372
Other water	45,675	16,413
Total water discharge, thousand m³	148,375	2,987
<i>By discharge destination:</i>		
Groundwater reinjection	–	
groundwater (injection)	137,062	

Structure of Withdrawal, Discharge and Water Use as of the End of 2024, thousand m ³	All regions	Water-scarce regions
Artificial water bodies (evaporation ponds, holding ponds, filtration fields)	10,512	
Transferred to third parties for treatment	801	
<i>By water type:</i>		
Freshwater	–	–
Other water	147,574	2,987
Water consumption	83,071	26,784

Additional Disclosures	2022	2023	2024
Volume of reused water (after treatment), thousand m ³	5,522	7,195	8,460
Volume of recycled water, thousand m ³	451,271	437,530	535,510
Volume of produced associated formation water, thousand m ³	136,519	136,960	140,504
Share of associated formation water reinjected	99%	97%	98%

GREENHOUSE GAS EMISSIONS

GRI 305-1, GRI 305-2, GRI 305-3, GRI 305-4

Scope 1. Direct Emissions		2022	2023	2024
Breakdown by Business Segment				
Production	million t CO ₂ / million t CO ₂ -eq	2.4 / 2.8	2.33 / 3.44	2.64 / 3.98
Refining	million t CO ₂ / million t CO ₂ -eq	5.1 / 5.2	5.01 / 5.03	4.92 / 4.94
Transportation	million t CO ₂ / million t CO ₂ -eq	0.1 / 0.1	0.1 / 0.1	0.14 / 0.14
Breakdown by Country				
Kazakhstan	million t CO ₂ / million t CO ₂ -eq	6.6 / 7.1	6.55 / 7.68	6.99 / 8.35
Romania	million t CO ₂ / million t CO ₂ -eq	0.9 / 0.9	0.88 / 0.88	0.69 / 0.69
Georgia	million t CO ₂ / million t CO ₂ -eq	0.02 / 0.02	0.02 / 0.02	0.02 / 0.02
Breakdown by Greenhouse Gas Type				
CO ₂	million t CO ₂	7.6	7.44	7.7
CH ₄	million t CO ₂ -eq	0.4	1.11	1.34
N ₂ O	million t CO ₂ -eq	0.1	0.1	0.02
Scope 2 Indirect Emissions (Market-Based Method)	million t CO ₂ / million t CO ₂ -eq	3.2 / 3.2	3.4/3.4	3.3 / 3.3
Scope 2 Indirect Emissions (Location-Based Method)	million t CO ₂ / million t CO ₂ -eq	3.3 / 3.3	3.5/3.5	3.4 / 3.4
Scope 3 From Use of Sold Products	million t CO ₂ / million t CO ₂ -eq	61.6 / 61.8	54.6/54.8	59.1 / 59.2

GREENHOUSE GAS EMISSIONS INTENSITY DISCLOSURES

	Production			Transportation			Refining		
	2022	2023	2024	2022	2023	2024	2022	2023	2024
Emissions Intensity – Scope 1									
GHG Emissions Intensity Scope 1 (tonnes CO ₂ per KZT million of revenue)	0.28	0.28	0.32	0.01	0.01	0.02	0.59	0.60	0.59
Emissions Intensity – Scope 2									
GHG Emissions Intensity Scope 2, local-based (tonnes CO ₂ -eq per KZT million of revenue)	-	-	0.15	-	-	0.03	-	-	0.24
GHG Emissions Intensity Scope 2, market-based (tonnes CO ₂ -eq per KZT million of revenue)	-	-	0.15	-	-	0.03	-	-	0.23

AIR EMISSIONS DISCLOSURES

GRI 305-7

Volume of air pollutant emissions, thousand tonnes	2022	2023	2024
Nitrogen oxides (NOx)	16.00	15.27	15.22
Sulfur dioxide (SOx)	10.50	10.99	11.69
Carbon monoxide (CO)	13.71	22.96	21.50
Particulate matter (PM)	0.52	1.31	1.97
Other	79.86	68.93	66.38

Flaring of Raw Gas	2022	2023	2024
Total flaring volume of raw gas, million m ³	35.70	33.35	35.20
Raw gas utilization rate, %	98.80	98.90	98.90
Flaring intensity, tonnes per 1,000 tonnes of hydrocarbons produced	1.50	1.40	1.45

ENERGY CONSUMPTION DISCLOSURES

GRI 302-1, GRI 302-4

Energy consumption, thousand GJ	2022	2023	2024
Consumption of non-renewable fuels			
Liquid fuels, incl.:	1,557	1,578	1,805
Gasoline	70	58	93
Diesel	1,487	1,520	1,712
Boiler and furnace fuel, incl.:	5,954	17,846	5,221
Furnace oil	3,216	14,157	2,500
Crude oil	958	1,169	1,184
Mazut (fuel oil)	1,779	2,520	1,537

Energy consumption, thousand GJ	2022	2023	2024
Marine fuel (IFO fuel oil)	1		
Refinery gas	43,156	28,223	35,995
Associated petroleum gas	15,702	12,933	13,809
Gas consumption, incl.:	48,975	46,794	53,509
Natural gas	31,825	30,264	34,725
Stripped gas	17,053	16,461	18,718
LPG	97	69	65
Total	115,344	107,373	110,339
Electricity and Heat Consumption			
Energy from renewable sources	43	14	40
Electricity, incl.:	15,761	15,583	17,736
Purchased	13,231	12,919	15,081
Self-generated	2,530	2,663	2,655
Heat energy, incl.:	23,802	20,348	26,722
Purchased	3,534	3,818	3,943
Self-generated	20,268	16,529	22,779
Total	39,563	35,931	44,458
Total Energy Consumption	132,152	124,125	129,403

Energy Consumption by Segment, thousand GJ	2022	2023	2024
Oil & gas exploration and production	58,200	55,083	57,285
Oil & gas processing	68,654	64,423	59,492
Oil transportation	5,298	4,619	4,229
Petrochemicals (KPI)			8,397

Disclosure	2022	2023	2024
Energy Savings from Energy Efficiency Programs, thousand GJ	2,057	717	2,361

WASTE MANAGEMENT

GRI 306-3, GRI 306-4, GRI 306-5

Waste generated by type, thousand tonnes	2022	2023	2024
Hazardous waste	382.4	383.1	358.0
<i>incl. drilling waste (drilling fluids and sludge)¹⁹</i>	220.4	228.4	179.6
Non-hazardous waste ²⁰	37.2	52.8	79.7
Total	419.5	435.9	437.7

Disclosure	2023		2024	
Waste directed to processing/utilization, thousand tonnes	On Company sites	At contractor sites	On Company sites	At contractor sites
Hazardous waste ²¹	825.2	736.4	1,131.2	321.7
<i>incl. drilling waste</i>	-	228.4	-	179.6
Non-hazardous waste	2.2	29.5	1.6	53.1
Total:	827.4	765.9	1,132.7	374.9
Waste sent for disposal and placement, thousand tonnes				
Hazardous waste	0.1	-	-	-
Non-hazardous waste	0.9	19.3	0.0	16.5
Total	1.0	19.3	0.0	16.5

ENVIRONMENTAL PROTECTION EXPENDITURES

Environmental Protection Expenditures by Type of Activity	Unit	2022	2023	2024
Implementation of technologies, including:	KZT million	777.0	7,448.6	3,586.7
BAT	KZT million			
AMS	KZT million	777.0	906.6	1,533.8
Forest-climate projects	KZT million			
Energy efficiency	KZT million			
Research and development	KZT million	470.5	363.3	1,555.7
Emission payments, including:	KZT million	3,489.4	3,420.5	3,430.8
Standard emission fees (tax)	KZT million	3,482.3	3,411.0	3,429.6
Excess emission fees	KZT million	7.1	9.5	1.2
Other	KZT million	27,650.0	46,495	36,867.6
Total:	KZT million	32,386.9	57,727.5	45,440.8

¹⁹ The decrease in 2024 is due to a decrease in the number of wells drilled in MMG and KBM.

²⁰ The growth in 2024 is associated with an increase in the volume of construction waste generated at the PNHS (reconstruction of the cooling tower, plant communications, etc.).

²¹ Taking into account the recycling/utilization of historical and accumulated waste from previous periods.

BIODIVERSITY DISCLOSURES

Location and scale of operational sites in relation to key biodiversity areas

Site	Location	Key Biodiversity Areas (KBA)	Location in relation to KBA	Contract Area (km ²)	Impact Mitigation Plan
Urikhtau	Mughalzhar District, Aktobe Region	State Nature Reserve of Local Importance "Kokzhide-Kumzhargan"	Partially overlaps	239.9	Hydrogeological monitoring
Alibekmola & Kozhasai	Mughalzhar District, Aktobe Region	Kokzhide Sands, Kokzhide Groundwater	Adjacent	156.5	Hydrogeological monitoring
Isatay	Central KCSK, Northern Mangystau Region	Special Environmentally Sensitive Zone of KCSK	Located within protected zone	1,060	Seasonal baseline studies, regular environmental monitoring
Abay	Northwest KCSK, Atyrau Region	Special Environmentally Sensitive Zone of KCSK	Located within protected zone	1,233.8	Seasonal baseline studies, regular environmental monitoring
Al-Farabi	Southern KCSK, Mangystau Region	Environmentally Sensitive Zone of KCSK	Does not intersect with KBA	6,046.6	Seasonal baseline studies, regular environmental monitoring
Kalamkas-Khazar	Northwestern Caspian Sea	Special Environmentally Sensitive Zone of KCSK	Located within protected zone	1,707.17	Seasonal baseline studies, regular environmental monitoring

SOCIAL DISCLOSURES

WORKFORCE STRUCTURE AND HEADCOUNT²²

GRI 2-7, GRI 2-8, GRI 405-1

Disclosure	2022	2023	2024
Total headcount	45,764	48,196	49,243
<i>By gender:</i>			
Men	37,055	39,218	40,120
Women	8,709	8,978	9,123
<i>By age group:</i>			
Under 30	6,484	5,006	5,686
30–50	26,227	28,468	28,584
Over 50	13,052	14,722	14,973
Outsourced personnel	2,980	3,209	3,357

Category	Men	Women	Total
GRI 405-1. Number of employees with disabilities	459	102	561
Republic of Kazakhstan	428	95	523
Abai Region	1	-	1
Akmola Region	-	-	-
Aktobe Region	6	4	10
Almaty Region	-	-	-
Atyrau Region	107	20	127
West Kazakhstan Region	2	-	2
Zhambyl Region	-	1	1
Zhetysu Region	4	-	4
Karaganda Region	4	1	5
Kostanay Region	-	-	-
Kyzylorda Region	3	1	4
Mangystau Region	263	51	314
Pavlodar Region	15	6	21
North Kazakhstan Region	-	-	-
Turkistan Region	3	-	3
Ulytau Region	5	2	7
East Kazakhstan Region	-	-	-
Astana city	15	8	23
Almaty city	-	-	-
Shymkent city	-	1	1
Outside the Republic of Kazakhstan	31	7	38

²² Starting from 2024, the KMG Group accounts for the headcount based on the payroll. In previous reporting periods, the actual headcount was considered. As a result, historical personnel data may differ.

Disclosure		Administrative and managerial personnel	Production Personnel
Total	people	3,802	45,441
<i>By gender:</i>			
<i>Men</i>	people	1,816	38,304
	%	48	84
<i>Women</i>	people	1,986	7,137
	%	52	16
<i>By age group:</i>			
<i>Under 30</i>	people	311	5,375
	%	8	12
<i>30-50</i>	people	2,724	25,860
	%	72	57
<i>Over 50</i>	people	767	14,206
	%	20	31

Disclosure		Management Board	Board of Directors
Total	people	10	9
<i>By gender:</i>			
<i>Men</i>	people	9	8
	%	90	89
<i>Women</i>	people	1	1
	%	10	11
<i>By age group:</i>			
<i>Under 30</i>	people	–	–
	%	–	–
<i>30-50</i>	people	6	5
	%	60	56
<i>Over 50</i>	people	4	4
	%	40	44

Category	Total	By Contract Type		By Working Time	
		Permanent	Temporary	Full-time	Part-time
Total	49,243	48,195	1,048	49,157	86
<i>By Gender</i>					
<i>Men</i>	40,120	39,333	787	40,065	55
<i>Women</i>	9,123	8,862	261	9,092	31
<i>By region</i>					
<i>Abai Region</i>	58	58	-	58	-
<i>Akmola Region</i>	23	23	-	22	1
<i>Aktobe Region</i>	1,132	1,106	26	1,130	2
<i>Almaty Region</i>	20	20	-	17	-
<i>Atyrau Region</i>	10,605	10,443	162	10,597	11
<i>West Kazakhstan Region</i>	699	661	38	699	-
<i>Zhambyl Region</i>	-	-	-	-	-
<i>Zhetysu Region</i>	179	175	4	179	-
<i>Karaganda Region</i>	770	769	1	769	1
<i>Kostanay Region</i>	-	-	-	-	-
<i>Kyzylorda Region</i>	265	246	19	265	-
<i>Mangystau Region</i>	22,026	21,609	417	22,002	24
<i>Pavlodar Region</i>	3,119	3,099	20	3,114	5
<i>North Kazakhstan Region</i>	85	85	-	85	-
<i>Turkistan Region</i>	228	226	2	226	2
<i>Ulytau Region</i>	647	642	5	644	3
<i>East Kazakhstan Region</i>	-	-	-	-	-
<i>Astana city</i>	2,120	2,089	31	2,114	6
<i>Almaty city</i>	16	16	-	16	-
<i>Shymkent city</i>	341	337	4	340	1
<i>Outside the Republic of Kazakhstan</i>	6,910	6,591	319	6,880	30

EMPLOYEE HIRING AND TURNOVER DISCLOSURES

GRI 401-1

Category	Hired (persons)	Terminated (persons)	Turnover (%)
Total	3,928	3,272	6.6%
<i>By Age Groups</i>			
<i>Under 30 years</i>	1,087	583	1.2%
<i>30-50</i>	2,303	1,478	3.0%
<i>Over 50 years</i>	538	1,211	2.5%
<i>By Gender</i>			
<i>Men</i>	3,236	2,582	6.4%
<i>Women</i>	692	690	7.6%
<i>By Regions</i>			
<i>Abai Region</i>	4	4	-
<i>Akmola Region</i>	1	1	-
<i>Aktobe Region</i>	108	87	0.2%
<i>Almaty Region</i>	-	-	-
<i>Atyrau Region</i>	778	580	1.2%
<i>West Kazakhstan Region</i>	63	53	0.1%
<i>Zhambyl Region</i>	-	-	-
<i>Zhetysu Region</i>	8	6	-
<i>Karaganda Region</i>	56	73	0.1%
<i>Kostanay Region</i>	-	-	-
<i>Kyzylorda Region</i>	40	71	0.1%
<i>Mangystau Region</i>	1,037	889	1.8%
<i>Pavlodar Region</i>	224	198	0.4%
<i>North Kazakhstan Region</i>	2	6	-
<i>Turkistan Region</i>	8	9	-
<i>Ulytau Region</i>	21	22	-
<i>East Kazakhstan Region</i>	-	-	-
<i>Astana city</i>	483	347	0.7%
<i>Almaty city</i>	5	1	-
<i>Shymkent city</i>	55	42	0.1%
<i>Outside the Republic of Kazakhstan</i>	1,035	883	1.8%

Disclosure	2022	2023	2024
Hired (persons)	5,860	5,746	3,928
Terminated (persons)	3,697	2,124	3,272
Turnover (%)	6.0%	4.5%	6.6%

EMPLOYEE TRAINING AND EVALUATION DISCLOSURES

GRI 404-1, GRI 404-3

Disclosure	2022	2023	2024
Investment in training (million KZT)	4,858	4,116	5,110
Average hours of training per employee	39	34	35
<i>By Gender</i>			
Men	34	32	38
Women	60	43	25
<i>By Employee Category</i>			
Administrative and Managerial Staff	88	40	43
Production Personnel	59	34	34

Disclosure	2022	2023	2024
Percentage of employees receiving regular performance and career development evaluations (%)	45	31	37
<i>By Gender</i>			
Men	45	30	38
Women	46	36	28
<i>By Employee Category</i>			
Administrative and Managerial Staff	46	33	41
Production Personnel	45	31	36

MATERNITY LEAVE DISCLOSURES

GRI 401-3

Disclosure	Men	Women	Total
Number of employees eligible for maternity leave or parental leave (according to the Labor Code of Kazakhstan)	40,120	9,123	49,243
Number of employees who took maternity leave or parental leave	43	484	527
Number of employees who returned to work after maternity/paternity leave	22	185	207
Number of employees who returned to work in the previous year after maternity/paternity leave and continued to work for 12 months	8	141	149
Number of employees expected to return to work after maternity/paternity leave in the reporting year	16	166	182
Return rate	1.38	1.11	1.14
Retention rate	0.35	0.53	0.51

OCCUPATIONAL HEALTH AND SAFETY SYSTEM DISCLOSURES²³

GRI 403-8

Disclosure	Unit	2022		2023		2024	
		Staff	Outsourced workers	Staff	Outsourced workers	Staff	Outsourced workers
Employees covered by the occupational health and industrial safety management system	Persons	45,764	3,277	48,196	3,362	49,243	3,621
	%	100	100	100	100	100	100
Number of people and the percentage covered by the occupational health and safety management system that passed the internal audit procedure (production control systems)	Persons	22,379	–	30,990	–	49,243	–
	%	49	–	64	–	64	–
Number of subsidiaries (including parent company) with ISO 45001:2018 certification	Unit	22	–	27	–	29	–

Occupational Health and Industrial Safety Expenditures	Unit	2022	2023	2024
Total amount spent to ensure compliance with industrial safety requirements, including:	KZT billion	23.7	29.9	23.45
<i>Occupational health</i>	KZT billion	8.1	14	7.2
<i>Fire safety</i>	KZT billion	10.6	9.5	4.1
<i>Industrial safety</i>	KZT billion	2.8	3.7	10.1
<i>Training</i>	KZT billion	0.8	0.9	1.79
<i>Other</i>	KZT billion	1.4	1.8	0.26

²³ Names of subsidiaries and affiliates (including the parent company) that have an ISO 2018-45001 certificate of conformity: NC KazMunayGas JSC, Ken-Kurylyservice LLP, Atyrau Refinery LLP, Atyrau Refinery LLP, Pavlodar Oil Chemistry Refinery LLP, KMG-Security LLP, Kazakhoil Aktobe LLP, KMG Systems & Services LLP, KMG Engineering LLP, Oil Transport Corporation LLP, Mangistauenergomunay LLP, KazGPZ LLP, Kazgermunai JV LLP, KazTransOil JSC, Professional Geo Solutions Kazakhstan LLP, Mangistaumunaigas JSC, Ozenmunaiservice LLP, Oil Services Company LLP, Munaitelem LLP, Ozenmunaigas JSC, Karazhanbasmunay JSC, KMG EP-Catering LLP, KMG-Kumkol LLP, Embamunaigas JSC, JV CASPI BITUM LLP, KMG-Kumkol LLP, Water Production and Transportation Department LLP, PetroKazakhstan Oil Products LLP, KMG Drilling & Services LLP.