



Ministry of National Economy
of the Republic of Kazakhstan
Committee on Statistics

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Fuel and energy balance of the Republic of Kazakhstan

2014-2018



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Committee on statistics**

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2014-2018

Statistical collection

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Edited by N. S. Aidapkelov

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Address: Nur-Sultan, 8 Mangilik el street
House of Ministries, Entrance 4
Republic of Kazakhstan 010000
Ministry of National economy of the Republic of Kazakhstan
Committee on statistics
Informational service: +7 7172 749010, 749011
Fax: +7 7172 749546
E-mail: kazstat.rk@gmail.com
Internet-resource: [http: //stat.gov.kz](http://stat.gov.kz)

Conventional symbols:

«-» - it is absent

0,0 – a small quantity

x – data are confidential

« » - data are absent

The small discrepancies between total and the sum of summand in some cases can be explained by rounding of data.

Foreword

The statistical collection «Fuel and energy balance of the Republic of Kazakhstan» contains materials describing the state of the fuel and energy complex of the Republic of Kazakhstan in 2014-2018. It provides information about the parameters describing the resource and distribution sections of the fuel and energy

balance, in particular, extraction (production) and stocks of fuel and energy resources, their import and export, their conversion to other kinds of fuel and energy, use for production needs and other spheres of consumption in natural and conventional terms.

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Methodical explanations

Fuel and energy balance (FEB) of the Republic is worked out to assess changes in the structure of fuel and energy production and consumption as well as to define directions of development of fuel and energy complex (FEC) of the country and its regions.

FEB is a complex material balance covering a set of interchangeable fuel and energy resources (FER). This balance unites individual balances of different types of fuel and energy.

The methods of calculating FEB provides for the possibility to form the yearly FEB of the Republic according to the system of indicators describing main directions of the FEB production and consumption based on the requirements of domestic economic practice as well as reassessment of FEB indicators in accordance with the international statistical standards.

FEB is worked out as a complex of balances of individual types of fuel and energy, which present four main groups: solid, liquid, gaseous types of fuel, electric power and thermal energy.

The first group of «solid» fuels includes such fuels as coal, lignite (brown coal), coke and briquettes of coal, charcoal and firewood.

The second group of «liquid» fuels is presented by crude oil including gas condensate, aviation and motor gasoline, jet fuel of gasoline and kerosene types, kerosene, gasoil, domestic heating fuel, fuel for low-speed diesel engines, heating oil, bitumen, oil coke and liquid substances obtained from natural gas, propane, butane, gasoline from industrial gases.

The third group of «gaseous» fuels contains such fuels as natural gas, coke gas, blast furnace gas, refinery gas, biogas, methane, ethane, propane, isobutane, butane, pentane.

The fourth group consists of thermal energy and electric power.

The scheme of the Republican FEB has two sections «Resources» and «Distribution», each of which, correspondingly, reflects the process of forming resources for individual types of fuel and energy and for their use in the main target directions.

Item's number	Name of the item
1	Resources
1.1	Stock at the beginning of the year
1.2	Extraction (production)
1.3	Import
2	Distribution
2.1	Consumed within the country including
2.1.1	for the conversion into other types of energy
2.1.2	for the production – technological and other needs
2.2	Losses
2.3	Released to population
2.4	Export
2.5	Bunkers
2.6	Stock at the end of the year

In the part 1 the «Resources» section of the balance contains a list of items describing the sources of forming fuel and energy resources, namely

In the part 1.1 and 2.6 «Stock at the beginning of the year» is about balances of all fuel types kept by the consumers and suppliers in all the factory, intermediate, workshop warehouses, warehouses of auxiliary enterprises and industries, in tanks and other storage areas (own and leased), in bunkers, measuring containers, receiving and other tanks. It also includes fuel balances on construction sites, near boilers, production equipment, in warehouses of housing and communal, cultural, household and other objects, which are on the balance of the reporting entities. It also takes into consideration balances of the given enterprise, but which are kept, according to some reasons, in another enterprise as well as balances of fuel on ships at moorings, on the wharves, in ports, locomotives, in depot. It should also be remembered that balances of liquid petroleum products (fuel oil, diesel fuel, etc.) contain the whole volume of fuel kept in tanks including that one, which cannot be drained (dead balance). 2 of the «Distribution» section takes into consideration analogous indicators at the end of the year.

In the part 1.2 «Extraction (production)» implies a number of fuel and energy resources extracted or produced on the territory of the Republic. The item «production» contains also fuel and energy resources consumed by the manufacturer during the extraction (production) process, e.g. to actuate equipment and auxiliary machinery.

In the part 1.3 «Import» describes a number of fuels imported from other countries (including

the CIS countries).

In the part 2 the «Distribution» section has a list of items describing the use amount of fuel and energy resources, namely

In the part 2.1 «Consumed within the country» describes general consumption of fuel and energy resources in all kinds of economic activity, which is, in its turn, subdivided into target areas of their use, namely fuel and energy consumption for the conversion into other kinds of energy (electrical and thermal) and for the production and technological needs. It is calculated as a sum of indicators of the consumption items 2.1.1, 2.1.2, 2.3.

In the part 2.2 «Losses» describes losses at the consumption stages (including losses while storing and transporting) and in public networks (for electrical and thermal energy).

In the part 2.3 fuel and energy are release population showed.

In the part 2.4 «Export» implies export of fuel and energy taking into consideration export to the near and far abroad.

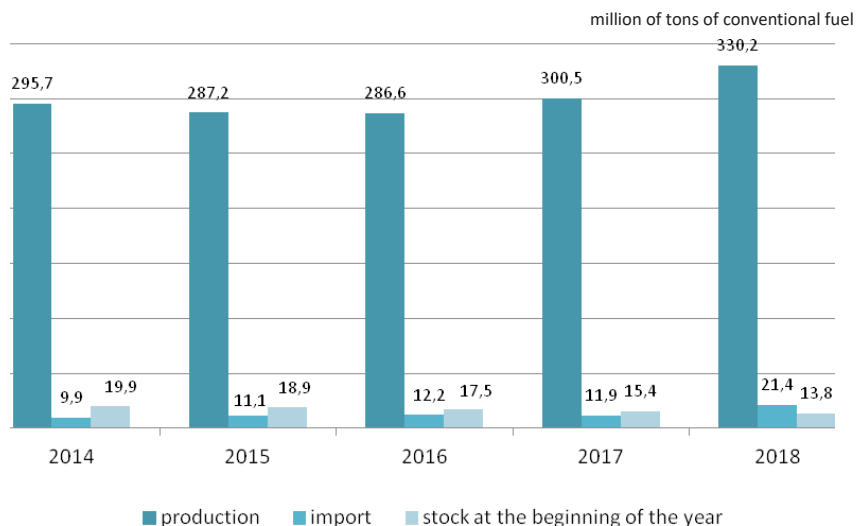
In the part 2.5 shipment of fuel and energy resources by sea ports and airports is completed, in which foreign ships are bunkered and foreign aircraft are refueled (bunkering is the amount of fuel delivered to ships and aircraft of different countries, including military and fishing vessels).

If in the obtained balances «Resources» exceed their «Distribution» or, on the contrary, i.e. in case of imbalance, additional items of the balance «Other receipts» in the «Resources» section or «Other consumption» in the «Distribution» section are introduced.

Fuel and energy balance Republic of Kazakhstan in 2018

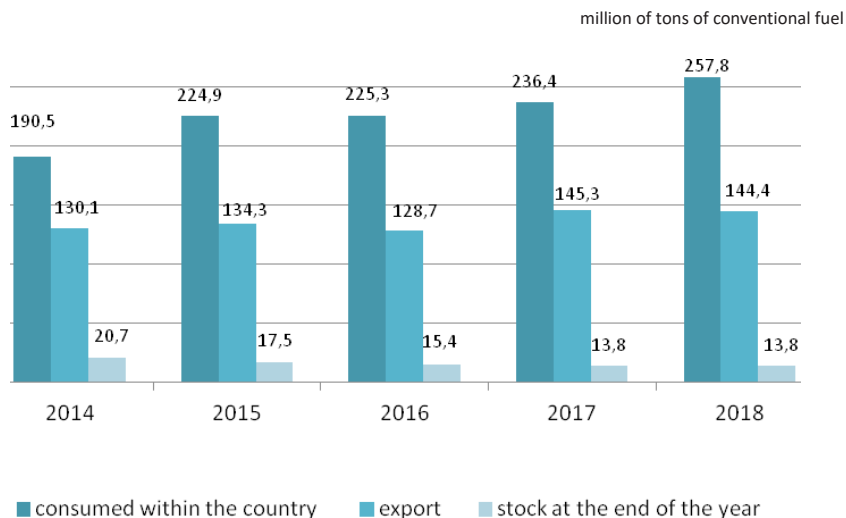
Kazakhstan possesses a huge reserves of natural and energy resources. In spite of it, formed power balance for 2018 showed that republic provides domestic needs in energy supply incompletely, where import is 5,1% from resources total volume. As compared with a level of the previous year, production of energy resources has increased by 9,9%, apparent specific gravity of which is 78%.

Fuel and energy resource from structural part



There have been changes in the structure of distribution form: apparent specific gravity of energy resources supplied to domestic market has increased from 51,1% in 2014 to 60,9% in 2018, and the energy resources share of export has decreased from 40,3% to 34,1% respectively.

Fuel and energy distribution from structural part



In 2018 on the domestic market of the country has consumed 257,8 mln.tcf or 60,9% from the energy resources total volume, 19,5% has spent for conversion to other energy views and 43,5% has spent for engineering and manufacturing and other needs.

Fuel and energy balance of the republic composed of the most important energy resources produce markets, the most important are natural resources. Natural resources in energy resources total volume is 74,3%. In the natural resources compound there is 40,5% of petrol, including gas-condensate, 40,3% of coal, 26,9% of natural gas.

1. Fuel and energy balance

1.1 Fuel and energy balance

	Thousands of tons of conventional fuel					2018 in percent to			
	2014	2015	2016	2017	2018	2014	2015	2016	2017
Resources - total	349 660	383 601,0	377 404,0	401 578,0	423 483,3	121,1	110,4	112,2	105,5
Stock at the beginning of the year	19 912	18 952,0	17 546,0	15 389,0	13 826,9	69,4	73,0	78,8	89,8
Extracted (produced)	295 729	287 174,0	286 644,0	300 460,0	330 242,5	111,7	115,0	115,2	109,9
Other income	24 039	66 373,0	60 998,0	73 860,0	57 969,3	241,1	87,3	95,0	78,5
Import	9 981	11 102,0	12 225,0	11 870,0	21 444,6	214,9	193,2	175,4	180,7
Distribution - total	349 660	383 601,0	377 404,0	401 578,0	423 483,3	121,1	110,4	112,2	105,5
Used up	190 488	224 867,0	225 315,0	236 395,0	257 835,0	135,4	114,7	114,4	109,1
conversion into other kinds of energy	62 144	43 599,0	44 127,0	48 113,0	50 276,5	80,9	115,3	113,9	104,5
production - technological and other needs	85 399	106 020,0	102 679,0	103 413,0	112 036,0	131,2	105,7	109,1	108,3
Other consumption	21 068	51 957,0	55 025,0	61 853,0	67 510,4	320,4	129,9	122,7	109,1
Released to population	21 877	23 291,0	23 484,0	23 016,0	28 012,0	128,0	120,3	119,3	121,7
Losses	8 339	6 707,0	7 782,0	5 798,0	7 170,4	86,0	106,9	92,1	123,7
Export	130 088	134 339,0	12 225,0	145 312,0	144 425,9	111,0	107,5	1 181,4	99,4
Bunkers	85	142,0	235,0	245,0	254,8	299,8	179,4	108,4	104,0
Stock at the end of the year	20 661	17 546,0	15 389,0	13 827,0	13 797,2	66,8	78,6	89,7	99,8

1.2 Structure of the fuel and energy balance

	in percent to total				
	2014	2015	2016	2017	2018
Resources - total	100,0	100,0	100,0	100,0	100,0
Stock at the beginning of the year	5,7	4,9	4,6	3,8	3,3
Extracted (produced)	84,6	74,9	76,0	74,8	78,0
Other income	6,9	17,3	16,2	18,4	13,7
Import	2,9	2,9	3,2	3,0	5,1
Distribution - total	100,0	100,0	100,0	100,0	100,0
Used up	54,5	58,6	59,7	58,9	60,9
conversion into other kinds of energy	17,8	11,4	11,7	12,0	11,9
production - technological and other needs	24,4	27,6	27,2	25,8	26,5
Other consumption	6,0	13,5	14,6	15,4	15,9
Released to population*	6,3	6,1	6,2	5,7	6,6
Losses	2,4	1,7	2,1	1,4	1,7
Export	37,2	35,0	34,1	36,2	34,1
Bunkers	0,02	0,04	0,06	0,06	0,1
Stock at the end of the year	5,9	4,6	4,1	3,4	3,3

1.3 Fuel and energy balance of the Republic of Kazakhstan for 2018

in kind

Items of balance	Stone coal of coke, tons	Stone coal of energy, tons	Concentrate of coal, tons	Stone coal of energy with high ash, tons
Resources	17 447 142,9	92 676 177,1	4 418 560,1	13 693 703,8
Stock at the beginning of the year	844 585,7	5 396 184,9	72 660,1	1 082 056,5
Extracted (produced)	10 836 000,0	87 010 400,0	4 345 900,0	4 200,0
Other income	5 602 506,6			12 607 447,3
Import	164 050,7	269 592,2		
Distribution	17 447 142,9	92 676 177,1	4 418 560,1	13 693 703,8
Used up - total	10 852 577,1	87 551 825,3	4 311 535,8	12 600 877,6
Consumed in the domestic market	10 852 577,1	45 384 824,1	4 286 893,7	12 178 782,3
to production electrical and fuel energy	1 570 763,2	42 736 825,9		11 190 040,4
as a raw material for conversion into other kinds of energy	8 663 457,0	419 937,0	x	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	115 743,0	235 508,3		9 178,0
as a material for non - fuel needs		170 083,5		62 341,9
as a energy for own needs	502 613,9	1 822 469,4	203 980,7	917 222,0
Other consumption		37 336 172,4	24 642,1	
Released to population		4 830 828,8		422 095,3
Losses	x	3 983,8		1 823,3
Exports	934 097,0	258 718,7		
Bunkers				
Stock at the end of the year	1 883 213,8	4 861 649,3	107 024,3	1 091 002,9

Continued

Items of balance	Other coal, tons	Briguettes, pellets of lignite, tons	Lignite, tons	Crude oil, tons
Resources	32 451 633,5	200,1	6 778 382,5	89 442 534,4
Stock at the beginning of the year	1 202 510,7		217 648,4	2 493 136,0
Extracted (produced)	9 725 300,0	200,0	6 560 700,0	77 496 200,0
Other income	21 516 788,0			9 435 346,0
Import	7 034,8	0,1	34,1	17 852,4
Distribution	32 451 633,5	200,1	6 778 382,5	89 442 534,4
Consumed in the domestic market	8 521 289,6	200,1	3 807 498,9	17 650 935,9
Used up - total	5 414 705,2		613 285,7	17 650 910,9
to production electrical and fuel energy	3 745 591,8		539 927,6	12 133,1
as a raw material for conversion into other kinds of energy				6 193 797,9
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	195 768,0			
as a material for non - fuel needs	2 258,0		8 600,5	10 247 441,8
as a energy for own needs	1 471 087,4		64 757,6	1 197 538,1
Other consumption		200,1	2 654 098,0	
Released to population	3 106 584,4		540 115,2	x
Losses	166,7		1 218,2	345 625,7
Exports	22 684 416,1		2 756 962,4	69 424 727,5
Bunkers				
Stock at the end of the year	1 245 761,1		212 703,0	2 021 245,3

Continued

Items of balance	Gas condensate, tons	Natural gas, thousand cubic meters	Associated petroleum gas, thousand cubic meters	Coke and semi - coke of coal, tons
Resources	13 314 087,4	40 168 609,2	32 800 521,2	4 076 942,1
Stock at the beginning of the year	443 936,3	2 052 465,5	4 295,9	175 847,7
Extracted (produced)	12 863 300,0	13 002 000,0	32 785 300,0	2 839 200,0
Other income		10 503 214,6		128 150,6
Import	6 851,1	14 610 929,1	x	933 743,8
Distribution	13 314 087,4	40 168 609,2	32 800 521,2	4 076 942,1
Consumed in the domestic market	12 447 932,5	11 020 115,5	32 531 868,1	3 666 341,3
Used up - total	475 264,1	8 538 461,5	21 188 268,5	3 666 341,3
to production electrical and fuel energy		5 776 417,8	2 752 557,7	885,1
as a raw material for conversion into other kinds of energy	145 564,1	x	16 673 650,8	2 550,0
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		280 789,1	88 444,8	626 641,1
as a material for non - fuel needs		18 194,7	279 819,9	463 027,9
as a energy for own needs	x	2 247 555,9	1 393 795,3	2 573 237,2
Other consumption	11 972 668,4	-	10 643 871,5	
Released to population		2 481 654,0	699 728,1	
Losses	12 261,1	184 724,6	261 592,8	x
Exports	380 025,4	26 490 189,3	1 624,3	67 336,5
Bunkers		-		
Stock at the end of the year	473 868,4	2 473 579,8	5 436,0	339 485,3

Continued

Items of balance	Sawdust and wood waste, tons	Wood coal, tons	Aviation gasoline, tons	Motor gasoline, tons
Resources	144 567,0	40 290,4	5 612,9	4 979 379,5
Stock at the beginning of the year	4 195,8	10 792,2	657,4	302 292,5
Extracted (produced)		1 589,0	1 000,0	3 955 100,0
Other income	140 105,3	15 975,3	3 708,7	127 395,5
Import	265,9	11 933,9	246,8	594 591,5
Distribution	144 567,0	40 290,4	5 612,9	4 979 379,5
Consumed in the domestic market	140 680,7	35 222,7	4 973,6	4 678 444,8
Used up - total	25 221,7	14 155,3	4 973,6	1 477 352,9
to production electrical and fuel energy	12 275,3	x		306,9
as a raw material for conversion into other kinds of energy	5 842,9		740,1	2 418,8
as a raw material for the production of chemical, petrochemical industries and other non - fuel products				
as a material for non - fuel needs	17,5	x		210,7
as a energy for own needs	7 086,0	14 103,3	4 233,5	1 474 416,5
Other consumption				
Released to population	115 459,0	21 067,4		3 201 091,9
Losses				1 932,0
Exports		5,6		19 728,4
Bunkers				
Stock at the end of the year	3 886,3	5 062,1	639,3	279 274,3

Continued

Items of balance	Jet fuel of gasoline type, tons	Kerosene, tons	Jet fuel of kerosene type, tons	Gasoil, tons
Resources	24 358,6	580 934,0	602 040,5	8 471 273,3
Stock at the beginning of the year	37,1	21 519,4	9 237,1	354 847,0
Extracted (produced)		x	385 500,0	4 663 500,0
Other income		553 137,3		2 981 215,1
Import	24 321,5	977,3	207 303,4	471 711,2
Distribution	24 358,6	580 934,0	602 040,5	8 471 273,3
Consumed in the domestic market	24 077,3	396 393,7	559 919,0	7 795 948,0
Used up - total	463,1	396 064,7	128 422,1	6 323 401,6
to production electrical and fuel energy				107 730,7
as a raw material for conversion into other kinds of energy			4 078,9	4 283,8
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		52,0		1 140,7
as a material for non - fuel needs	13,0	7 228,1	5,0	30 080,2
as a energy for own needs	450,1	388 784,6	124 338,2	6 180 166,2
Other consumption	23 601,2		431 496,9	
Released to population	13,0	329,0		1 472 546,4
Losses		337,9		2 179,4
Exports	181,3	x	20 573,2	236 861,8
Bunkers		158 395,6	13 380,0	1 511,6
Stock at the end of the year	x	25 751,6	8 168,3	434 772,5

Continued

Items of balance	Heating oil, tons	Domestic heating fuel, tons I	Liquefied propane and butane, tons	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases, tons
Resources	4 367 390,5	294 466,1	2 957 389,7	1 297 225,1
Stock at the beginning of the year	207 522,4	23 105,8	347 863,0	2 224,1
Extracted (produced)	2 948 400,0	270 600,0	2 488 000,0	1 295 000,0
Other income	1 145 325,2		121 369,7	
Import	66 142,9	760,3	157,0	1,0
Distribution	4 367 390,5	294 466,1	2 957 389,7	1 297 225,1
Consumed in the domestic market	1 174 402,6	265 776,0	1 024 198,3	1 083 015,4
Used up - total	1 174 402,6	53 378,9	232 924,4	341 211,4
to production electrical and fuel energy	387 553,8	8 216,5	6 376,0	46 695,6
as a raw material for conversion into other kinds of energy	149 539,2	8 136,6		546,3
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	7 532,2	954,7	x	
as a material for non - fuel needs	10 067,4	937,0	646,9	2,5
as a energy for own needs	619 710,0	35 134,1	225 813,4	293 967,0
Other consumption		209 273,6		741 804,0
Released to population		3 123,5	791 273,9	
Losses	73,4	8,8	5 482,1	
Exports	3 001 582,7	16 995,2	1 826 062,8	212 596,0
Bunkers				
Stock at the end of the year	191 331,8	11 686,1	101 646,5	1 613,7

Continued

Items of balance	Lean gas, thousand cubic metres	Greased oil, thousand cubic metres	Oil and shale coke, tons	Oil and shale bitumen, tons
Resources	9 623 579,0	168 919,7	704 226,9	949 731,3
Stock at the beginning of the year		9 104,4	11 106,0	17 282,0
Extracted (produced)	9 623 579,0	25 800,0	529 500,0	925 600,0
Other income				
Import	0,0	134 015,3	163 620,9	6 849,3
Distribution	9 623 579,0	168 919,7	704 226,9	949 731,3
Consumed in the domestic market	9 402 664,1	160 716,3	380 552,8	844 027,2
Used up - total	1 505 586,9	26 895,0	x	415 443,0
to production electrical and fuel energy	734 974,0	2,8		
as a raw material for conversion into other kinds of energy		6 293,3		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		x	x	108 861,5
as a material for non - fuel needs		3 397,1		256 285,5
as a energy for own needs	770 612,9	17 195,3		50 296,0
Other consumption	7 897 077,2	128 956,4	284 936,0	428 409,5
Released to population		4 864,9		174,7
Losses	220 827,4			
Exports	87,5	1 787,0	315 155,8	89 911,4
Bunkers				
Stock at the end of the year		6 416,4	x	15 792,7

Continued

Items of balance	Furnace gas, thousand cubic metres	Coke gas, thousand cubic metres	Gas produced by distillation at refineries, thousand cubic metres	Shale-distilling, tons
Resources	5 715 721,0	947 600,0	177 321,1	2,7
Stock at the beginning of the year			221,1	
Extracted (produced)	x	x	177 100,0	
Other income	21,0			2,7
Import				x
Distribution	5 715 721,0	947 600,0	177 321,1	2,7
Consumed in the domestic market	x	947 600,0	177 131,8	x
Used up - total	x	947 191,0	165 445,1	x
to production electrical and fuel energy		x		
as a raw material for conversion into other kinds of energy			x	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products			x	
as a material for non - fuel needs	x			
as a energy for own needs		888 286,0		x
Other consumption		409,0	11 686,7	
Released to population				
Losses				
Exports				0,5
Bunkers				
Stock at the end of the year			x	

Continued

Items of balance	Tar, tones	Oil easy distille, tones r	Oil distillation products, tones	Bio fuel, tones
Resources	33 546,8	106 823,3	162 199,4	43 096,9
Stock at the beginning of the year	2,5	1 326,3	16,3	5 881,6
Extracted (produced)	x	104 600,0	32 100,0	3 074,0
Other income				30 325,4
Import	44,3	897,0	130 083,1	3 815,9
Distribution	33 546,8	106 823,3	162 199,4	43 096,9
Consumed in the domestic market	7 839,9	71 981,5	144 128,9	23 829,7
Used up - total	1,9	1 916,9	11 334,6	23 829,7
to production electrical and fuel energy				14 749,0
as a raw material for conversion into other kinds of energy		1 915,9	11 334,6	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products				
as a material for non - fuel needs	1,9			
as a energy for own needs		x		9 080,7
Other consumption	7 838,0	70 064,6	132 794,3	
Released to population				
Losses				
Exports	25 704,8	32 324,4	17 901,6	12 881,8
Bunkers				
Stock at the end of the year	2,1	2 517,4	168,9	6 385,4

Continued

Items of balance	Electric power, thousand kilowatt hour	Heat energy, thousand Gkal	Hydropower produced by hydroelectric power plants, thousand kilowatt hour	Wind electric power produced by wind power plants, thousand kilowatt hour
Resources	103 119 344,4	92 978	10 395 354,1	460 583,1
Stock at the beginning of the year				
Extracted (produced)	96 363 058,7	92 978	10 395 354,1	460 583,1
Other income	5 194 874,6			
Import	1 561 411,1			
Distribution	103 119 344,4	92 978	10 395 354,1	460 583,1
Consumed in the domestic market	91 534 420,6	84 278	10 369 716,0	460 583,1
Used up - total	74 912 866,0	49 936	2 590 642,3	7 754,9
to production electrical and fuel energy	3 773 895,2	153	48 822,4	
as a raw material for conversion into other kinds of energy				
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	2 104 280,9	341		
as a material for non - fuel needs	12 550,3	42		
as a energy for own needs	69 022 139,6	49 400	2 541 819,9	7 754,9
Other consumption		7 387	6 690 457,3	452 828,2
Released to population	16 621 554,6	26 955	1 088 616,4	
Losses	6 543 267,7	8 700	25 622,5	
Exports	5 041 627,7			
Bunkers				
Stock at the end of the year	28,4		15,6	

Continued

Items of balance	Solar electric power produced by solar power plants, thousand kilowatt hour	Bogas electric power produced by biogas power plants, thousand kilowatt hour
Resources	141 311,1	2 832,1
Stock at the beginning of the year		
Extracted (produced)	141 311,1	2 832,1
Other income		
Import		
Distribution	141 311,1	2 832,1
Consumed in the domestic market	141 311,1	2 832,1
Used up - total	3 662,2	131,2
to production electrical and fuel energy		
as a raw material for conversion into other kinds of energy		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		
as a material for non - fuel needs		
as a energy for own needs	3 662,2	131,2
Other consumption	137 648,9	2 700,9
Released to population		
Losses		
Exports		
Bunkers		
Stock at the end of the year		

2. Commodity markets of certain types of fuel and energy

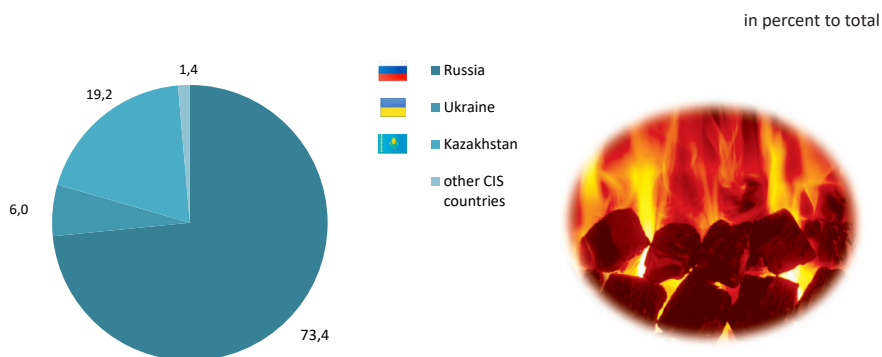
Coal market including lignite

The share of coal in the natural resources total volume in 2014-35.2%, in 2015-35%, 2016-34.2%, 2017-33.5%, 2018-32,8%. In the coal resources structure the share of the export in distribution in 2014-22,4%, in 2015-18,7%, 2016-16,8%, 2017-20,7%, 2018-15,9%. Here with, the share of domestic market is: 64,3%, 47,0,2%, 72%, 70,4%, 76,2% respectively.

2.1 Balances of resources and distribution of coal, including lignite

	thousands of tons				
	2014	2015	2016	2017	2018
Resources	141 100,6	160 470	155 024,1	141 172,4	167 465,8
Stock at the beginning of the year	14 459,4	14 280,2	13 902,7	11 821,4	8 815,6
Extracted (produced)	113 994,6	107 318,3	103 074,3	112 293,8	118 482,7
Other income	12 554,3	38 857,1	38 022,8	17 053,0	39 726,7
Import	92,3	14,4	24,3	4,1	440,7
Distribution	141 100,6	160 470	155 024,1	141 172,4	167 465,8
Consumed in the domestic market	90 658,9	112 577,3	111 590,8	99 426,3	127 645,8
Used up	70 835,3	72 081,3	70 674,4	76 540,2	78 731,1
conversion into other kinds of energy	54 180,7	50 505	51 412,3	56 682,8	59 783,1
production - technological and other needs	16 654,6	21 779,1	19 262,2	19 857,4	x
Other consumption	13 556,8	33 921,4	34 063,6	13 977,8	40 015,1
Released to population	6 266,8	6 371,8	6 852,8	8 908,3	8 899,6
Losses	4 083	3 957,8	5 618,8	3 713,5	x
Export	31 635,7	30 032,2	25 992,9	29 216,9	26 634,2
Stock at the end of the year	14 723	13 902,7	11 821,4	8 815,6	9 401,4

Extraction in the CIS countries in 2018



2.2 Consumption, export and import

thousands of tons

	Coal including lignite		
	consumption in the domestic market	export	import
Akmola	x	0,8	-
Aktobe	296,9	-	-
Almaty	1 677,3	-	-
Atyrau	x	-	-
Batys Kazakhstan	10,6	-	-
Zhambyl	584,4	-	x
Karagandy	37 378,8	6 269,9	437,5
Kostanai	1 604,6	x	-
Kyzylorda	82,2	-	-
Mangistau	x	-	-
Turkistan	383,2	0,7	-
Pavlodar	70 174,5	18 794,8	1,5
Soltustik Kazakhstan	3 300,5	-	-
Shygys Kazakhstan	8 046,8	1 388,7	0,3
Nur-Sultan city	3 962,4	0,6	-
Almaty city	2 420,8	1,1	-
Shymkent city	569,3	-	-

Crude oil market

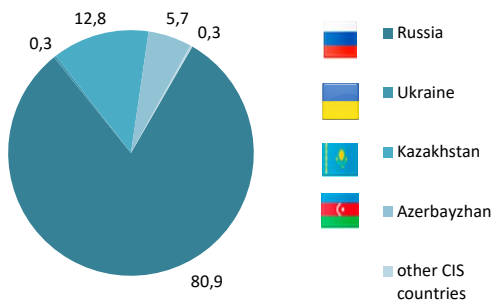
Unrefined oil resources in 2018 where 87 million tons, including 72,9 million tons was mining in republic and 0,02 million tons import. From the total resources volume on domestic market consumption was 16,3 million tons and for exports was released 67,8 million tons. Republic oil market still has export raw orientation. Oil supplies implement generally to Italy (31,3%), Netherlands (13,4%), Switzerland (11%).

2.3 Balance of resources and distribution of crude oil

	thousands of tons				
	2014	2015	2016	2017	2018
Resources	71 996,3	80 593,2	80 039,9	86 997,2	89 442,5
Stock at the beginning of the year	3 292	2 743,5	2 161,1	2 435,8	2 493,1
Extracted (produced)	67 908	66 520,6	65 569,6	72 924,9	77 496,2
Other income	624,5	11 278,1	12 302,2	11 613,4	9 435,3
Import	171,8	51,1	7,0	23	17,9
Distribution	71 996,3	80 593,2	80 039,9	86 997,2	89 442,5
Consumed in the domestic market	16 503	15 705,8	16 270,7	16 276,6	17 650,9
Used up	16 503	15 705,8	16 270,7	16 276,6	17 650,9
conversion into other kinds of energy	11	11,7	13	11	12,1
production - technological and other needs	16 492	15 694,1	16 257,8	16 265,5	17 638,8
Other consumption	-	-	-	-	-
Released to population	-	-	-	-	x
Losses	553	346,1	364,1	388,1	345,6
Export	52 008,7	62 380,3	60 969,3	67 839,4	69 424,7
Stock at the end of the year	2 931	2 161,1	2 435,8	2 493,1	2 012,2

Oil extraction in the CIS countries in 2018

in percent to total



2.4 Consumption, export and import

thousands of tons

	Crude oil		
	consumption in the domestic market	export	import
Akmola	-	-	-
Aktobe	3 383,0	2 244,2	-
Almaty	-	-	-
Atyrau	7 842,4	39 723,4	-
Batys Kazakhstan	104,4	10 439,9	17,9
Zhambyl	5,4	-	-
Karagandy	1,6	-	-
Kostanai	-	-	-
Kyzylorda	5 249,8	1 077,9	-
Mangistau	7 919,6	10 181,0	-
Turkistan	-	322,7	-
Pavlodar	5 233,5	-	-
Soltustik Kazakhstan	x	-	-
Shygys Kazakhstan	1,2	-	-
Nur-Sultan city	-	5 149,5	-
Almaty city	-	285,9	-
Shymkent city	4 732,9	-	-

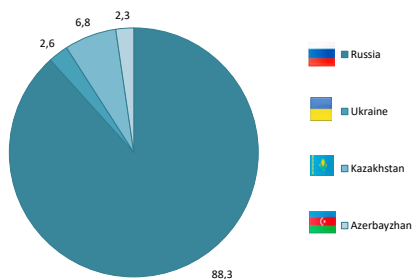
Natural gas market

In 2018 natural gas resources for 32,4% by equity production, and for 20,7% by import from CIS countries. There is tendency the share of natural gas is increasing in total volume of natural resources (from 21,6% in 2014 up to 26,9% in 2018).

2.5 Balances of resources and natural gas distribution

	million m ³				
	2014	2015	2016	2017	2018
Resources	24 098,6	35 202,6	34 583,9	38 910	40 168,6
Stock at the beginning of the year	2 292	1 998,9	2 156,4	1 761,3	2 052,5
Extracted (produced)	11 698	12 008,4	12 614,2	12 623,7	13 002,0
Other income	5 938,7	15 366,9	12 953,3	18 252,1	10 503,2
Import	4 169,9	5 828,3	6 860	6 272,8	14 610,9
Distribution	24 098,6	35 202,6	34 583,9	38 910	40 168,9
Consumed in the domestic market	11 102,1	11 287,1	11 020,8	13 524,4	11 020,1
Used up	8 632,4	8 340,8	8 401,1	11 008	8 538,5
conversion into other kinds of energy	5 006	5 238,7	5 538,4	5 393,4	5 776,4
production - technological and other needs	3 626	3 102,1	2 862,6	3 098,1	x
Other consumption	-	-	-	-	-
Released to population	2 470,1	2 946,3	2 619,8	2 516,4	2 481,7
Losses	198	245,2	180,1	221	184,7
Export	10 497,5	21 513,9	21 621,8	25 628,5	26 490,2
Stock at the end of the year	2 301	2 156,4	1 761,3	2 052,5	2 473,6

Extraction in the CIS countries in 2018



2.6 Consumption, export and import

million m³

	Natural gas		
	consumption in the domestic market	export	import
Akmola	0,4	-	-
Aktobe	270,8	-	-
Almaty	523,9	-	-
Atyrau	1 285,3	2 954,8	-
Batys Kazakhstan	10 249,9	-	-
Zhambyl	1 246,9	-	-
Karagandy	-	-	-
Kostanai	1 052,8	-	-
Kyzylorda	233,4	-	-
Mangistau	3 636,0	-	-
Turkistan	356,7	-	-
Pavlodar	-	-	-
Soltustik Kazakhstan	-	-	-
Shygys Kazakhstan	9,9	526,1	-
Nur-Sultan city	3,7	-	3,7
Almaty city	731,9	14 456,8	10 843,7
Shymkent city	380,9	-	-

Electric power market

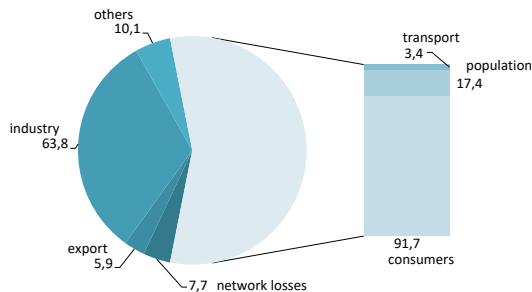
Electricity production was in 2014-86,9 milliard kilowatt/hour, in 2015-82,2 milliard kilowatt/hour, 2016-82,7 milliard kilowatt/hour, 2017-91,5 milliard, 2018-96,4 milliard kilowatt/hour. In 2018 export to Russia was 5 milliard kilowatt/hour of electricity. Electricity from Russia supplies generally to the consumers of West Kazakhstan, but from Middle Asia to the consumers of South Kazakhstan. Thus, 1,5 milliard kilowatt/hour of electricity was imported, thence 0,5% from Kyrgyzstan, 98,7% from Russia. Electricity consumption on domestic market of the country was in 2018-103,1 milliard kilowatt/hour, it made 100% from the resources total volume. Electricity losses in 2018 where -6,3%.

2.7 Balances of resources and electricity distribution

	million kWh				
	2014	2015	2016	2017	2018
Resources	87 542,9	83 816,2	83 976,8	98 048,9	103 119,3
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	86 936,3	82 198	82 658,2	91 485,2	96 363,1
Other income	-	-	-	5 236,3	5 194,9
Import	606,6	1 618,1	1 318,6	1 327,5	1 561,4
Distribution	87 542,9	83 816,2	83 976,8	98 048,9	103 119,3
Consumed in the domestic market	75 242,9	77 052,8	76 096,4	85 975,5	91 534,4
Used up	63 614,3	62 572,6	61 079,5	70 246,5	74 912,9
conversion into other kinds of energy	3 461	3 688,9	3 032,3	3 366,4	3 773,9
production - technological and other needs	60 153,3	58 883,8	58 047,2	66 880,1	71 139,0
Other consumption	2 322,1	3 364,6	4 015,9	-	-
Released to population	11 628,5	11 115,5	11 001	15 729	16 621,6
Losses	7 060,9	5 149,6	5 308,8	6 381	5 041,6
Export	2 917,1	1 613,8	2 571,6	5 692,4	-
Stock at the end of the year	-	0,1	-	-	-

Electricity consumption in 2018

in percent to total



2.8 Consumption, export and import by regions

mln. kWh

	Electricity		
	consumption in the domestic market	export	import
Akmola	4 902,9	-	-
Aktobe	6 314,5	-	4,7
Almaty	2 003,4	-	-
Atyrau	7 456,8	-	x
Batys Kazakhstan	1 907,7	-	37,1
Zhambyl	3 486,9	-	2,2
Karagandy	12 668,9	30,9	-
Kostanai	3 835,8	-	-
Kyzylorda	2 085,1	-	-
Mangistau	4 888,3	-	-
Turkistan	2 361,7	-	8,7
Pavlodar	41 559,7	3 757,9	-
Soltustik Kazakhstan	3 055,5	37,7	-
Shygys Kazakhstan	8 677,9	-	-
Nur-Sultan city	3 194,0	1 202,8	1 247,5
Almaty city	3 696,8	-	x
Shymkent city	3 975,3	12,1	3,4

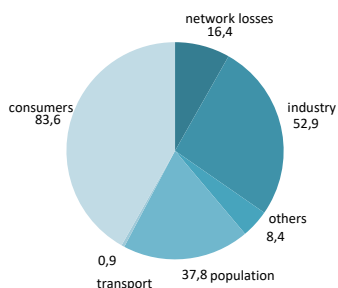
Heat energy market

Heat energy supplies on republic domestic market. In 2014 the consumption was 85,9 million Gcal, in 2018-84,3 million Gcal. There are losses in 2014 and 2018-8,9 million Gcal, 8,9, 8,7 million Gcal, that is in the percentage from the heat power resources total volume is – 9,3%, 9,4% respectively.

2.9 Balances of resources and heat energy distribution

	thousands of Gcal				
	2014	2015	2016	2017	2018
Resources	98 890	83 124,4	84 040	89 160,4	92 978
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	98 890	83 124,4	84 040	88 652,3	92 978
Other income	-	-	-	508,1	-
Import	-	-	-	-	-
Distribution	98 890	83 124,4	84 040	89 160,4	92 978
Consumed in the domestic market	77 918	76 156,8	76 446,3	80 906,2	84 278
Used up	56 789	48 765,4	46 730,0	53 821,9	49 936
conversion into other kinds of energy	247	49 047	189,9	155,5	153
production - technological and other needs	56 542	48 497,3	46 540,2	53 666,4	49 783
Other consumption	11 919	6 795,9	5 427,1	-	7 387
Released to population	21 129	20 595,6	24 289,2	27 084,3	26 955
Losses	9 053	6 967,6	7 593,6	8 254,2	8 700
Export	-	-	-	-	-
Stock at the end of the year	-	34	-	-	-

Heat energy consumption in 2018



2.10 Consumption by regions

	thousands of Gcal	
	Heat energy	
	consumption in the domestic market	
Akmola		3 249
Aktobe		6 321
Almaty		1 704
Atyrau		6 566
Batys Kazakhstan		2 897
Zhambyl		1 636
Karagandy		11 385
Kostanai		3 502
Kyzylorda		560
Mangistau		7 019
Turkistan		307
Pavlodar		14 672
Soltustik Kazakhstan		2 386
Shygys Kazakhstan		8 863
Nur-Sultan city		6 626
Almaty city		7 184
Shymkent city		1 402

Oil products market

Demand for petroleum products is partially replenished by their imports. In 2018 In comparison with 2017, increased by motor gasoline by 29,5%, propane and butane liquefied by 7,5%, 7,2%, gasoil, fuel oil production by 12,4% decreased.

2.11 Balances of resources and motor gasoline distribution

	thousands of tons				
	2014	2015	2016	2017	2018
Resources	5 685,5	5 567,7	4 981	4 725,5	4 979,4
Stock at the beginning of the year	756	894,5	907,9	510,8	302,3
Extracted (produced)	3 023	2 864,1	2 938,9	3 054,7	3 955,1
Other income	1 264,9	446,9	-	87,3	127,4
Import	641,6	1 362,2	1 134,2	1 072,8	594,6
Distribution	5 685,5	5 567,7	4 981	4 725,5	4 979,4
Consumed in the domestic market	4 580,0	4 655,2	4 465,6	4 419,4	4 678,4
Used up	1 238,8	1 462,5	1 298,3	1 187,5	1 477,4
to production electrical and fuel energy	1	0,3	0,3	-	0,3
as a raw material for conversion into other kinds of energy	-	0,5	0,6	2,0	2,4
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	-	-	-	-
as a material for non - fuel needs	5	0,3	0,2	0,6	0,2
as a energy for own needs	1 234	1 461,5	1 297,1	1 184,9	1 474,4
Other consumption	-	-	135,0	4,1	-
Released to population	3 341,2	3 192,6	3 032,2	3 227,7	3 201,1
Losses	11	3,7	3,3	-	1,9
Export	17,6	-	0,5	2,3	19,7
Bunkering	1,5	1,0	0,8	1,6	-
Stock at the end of the year	1 075	907,8	510,8	302,3	279,3

2.12 Consumption and import

	thousands of tons		
	Motor gasoline		
	consumption in the domestic market	import	export
Akmola	205,3	-	-
Aktobe	174,1	x	6,3
Almaty	911,4	-	49,4
Atyrau	1 131,3	-	-
Batys Kazakhstan	122,9	x	33,5
Zhambyl	466,5	-	-
Karagandy	276,3	-	20,1
Kostanai	172,4	-	21,1
Kyzylorda	148,8	-	-
Mangistau	70,4	-	-
Turkistan	161,1	-	2,4

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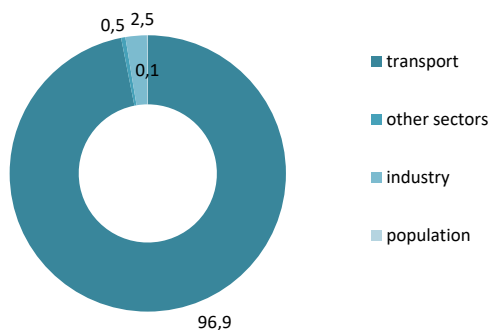
	Motor gasoline		
	consumption in the domestic market	import	export
Pavlodar	1 437,1	-	13,1
Soltustik Kazakhstan	112,5	4,1	39,3
Shygys Kazakhstan	336,7	-	-
Nur-Sultan city	406,7	-	101,3
Almaty city	652,2	1,1	308,2
Shymkent city	1 337,5	-	-

2.13 Balances of resources and distribution of kerosene

	2014	2015	2016	2017	2018
Resources	626 010	530 484	504 507	537 767	580 934,0
Stock at the beginning of the year	71 447	52 541	27 915	15 470	21 519,4
Extracted (produced)	113 828	33 400	1 700	600	x
Other income	369 387	444 512	474 625	521 164,1	553 137,3
Import	71 348	30	267,5	533,4	977,3
Distribution	626 010	530 484	504 507	537 767	580 934,0
Consumed in the domestic market	520 954	422 405	344 503	365 688	396 393,7
Used up	504 641	422 241,3	344 463,8	365 642,3	396 064,7
to production electrical and fuel energy	3	2	-	1	-
as a raw material for conversion into other kinds of energy	9	360	295,1	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	40	482	509,4	64	52,0
as a material for non - fuel needs	309	87	110	110	7 228,1
as a energy for own needs	504 280	421 311	343 550	365 467	388 784,6
Other consumption	-	-	-	-	-
Released to population	16 313	163,2	38,9	45,6	329,0
Losses	612	209	216,4	16,4	337,9
Export	11 667	12,5	-	-	x
Bunkering	15 166	79 942,9	144 318,3	150 543,6	158 395,6
Stock at the end of the year	77 611	27 915	15 470	21 519	25 751,6

Kerosene consumption in 2018

in percent to total



2.14 Consumption and import

thousands of tons

	Kerosene	
	consumption in the domestic market	import
Akmola	7,1	-
Aktobe	5,1	-
Almaty	7,9	-
Atyrau	3,9	-
Batys Kazakhstan	-	-
Zhambyl	9,3	-
Karagandy	9,8	-
Kostanai	0,8	-
Kyzylorda	0,4	-
Mangistau	0,2	x
Ontustik Kazakhstan	-	-
Pavlodar	0,5	-
Soltustik Kazakhstan	-	-
Shygys Kazakhstan	1,4	x
Nur-Sultan city	6,3	-
Almaty city	342,2	0,9
Shymkent city	6,2	-

2.15 Balances of resources and gasoil distribution

thousands of tons

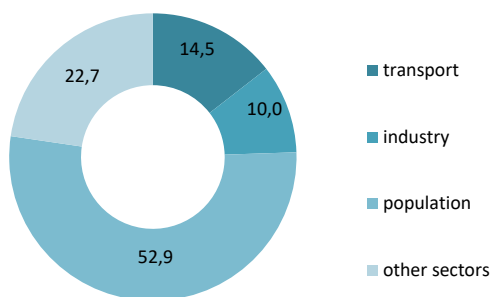
	2014	2015	2016	2017	2018
Resources	8 599	8 464	7 091	8 472	8 471,3
Stock at the beginning of the year	746	841	490	538	354,8
Extracted (produced)	5 039	4 488	4 652	4 352	4 663,5
Other income	2 319,5	2 969,8	1 514,7	3 107,9	2 981,2

Continued

	2014	2015	2016	2017	2018
Import	494,5	165,1	434,4	473,7	471,7
Distribution	8 599	8 464	7 091	8 472	8 471,3
Consumed in the domestic market	5 672,8	7 790,5	6 496	8 003	6 323,4
Used up	4 320,2	6 100,9	5 120,3	6 591,4	7 795,9
to production electrical and fuel energy	64,8	139	68	79	107,7
as a raw material for conversion into other kinds of energy	29,1	1,1	1,8	2,0	4,3
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,6	0,5	1	1	1,1
as a material for non - fuel needs	31,6	4	4,7	3,9	30,1
as a energy for own needs	4 194,1	5 957	5 045	6 506	6 180,2
Other consumption	-	-	-	-	0,0
Released to population	1 352,6	1 687,9	1 375,5	1 411	1 472,5
Losses	11,0	1	1,8	1,6	2,2
Export	1 866,5	168,2	55,1	111,9	236,9
Bunkering	41,3	14,9	0,7	0,6	1,5
Stock at the end of the year	1 007,9	490,5	537,6	354,8	434,8

Gasoil consumption in 2018

in percent to total



2.16 Consumption, export and import

thousands of tons

	Gasoil		
	consumption in the domestic market	export	import
Akmola	410,2	-	2,9
Aktobe	331,9	10,9	86,39
Almaty	1 019,3	1,4	0,5

Continued

	Gasoil		
	consumption in the domestic market	export	import
Atyrau	1 362,0	118,8	13,2
Batys Kazakhstan	158,2	48,3	59,0
Zhambyl	2 379,5	9,4	-
Karagandy	480,9	-	x
Kostanai	407,1	-	15,7
Kyzylorda	229,7	-	6,0
Mangistau	175,1	x	1,3
Turkistan	251,9	-	-
Pavlodar	1 801,3	-	-
Soltustik Kazakhstan	212,4	10,0	18,3
Shygyz Kazakhstan	342,3	-	2,9
Nur-Sultan city	222,1	25,1	51,2
Almaty city	478,2	10,9	212,8
Shymkent city	1 245,2	0,1	x

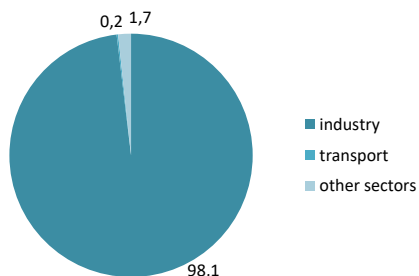
2.17 Balances of resources and heating oil distribution

thousands of tons

	2014	2015	2016	2017	2018
Resources	5 498	5 554	4 890	5 156	4 367,4
Stock at the beginning of the year	436	351	232	205,7	207,5
Extracted (produced)	3 877	3 899,4	3 101	3 364,5	2 948,4
Other income	1 182,8	1 300,3	1 557,1	1 585,2	1 145,3
Import	2,9	3,6	0,1	0,3	66,1
Distribution	5 498	5 554	4 890	5 156	4 367,4
Consumed in the domestic market	1 179,6	1 314	1 271	1 164,1	1 174,5
Used up	1 175,6	1 314	1 266,5	1 164,4	1 174,4
to production electrical and fuel energy	554	535	570	371	387,6
as a raw material for conversion into other kinds of energy	11,1	80	84	126	149,5
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	1,9	4,6	7	7	7,5
as a material for non - fuel needs	6,1	1,6	2	4	10,1
as a energy for own needs	603	693,1	603	656	619,7
Other consumption	-	-	-	-	-
Released to population	3,5	0,5	4,8	0,1	-
Losses	0,6	-	-	-	0,1
Export	3 948,2	4 007,4	3 413	3 783,6	3 001,6
Stock at the end of the year	370,1	232,9	206	208	191,3

Heating oil consumption in 2018

in percent to total



2.18 Consumption, export and import

thousands of tons

	Heating oil		
	consumption in the domestic market	export	import
Akmola	41,5	-	-
Aktobe	4,4	45,3	-
Almaty	60,3	3,6	-
Atyrau	x	1 447,6	-
Batys Kazakhstan	-	42,4	-
Zhambyl	33,9	10,8	-
Karagandy	43,9	-	-
Kostanai	22,3	-	0,4
Kyzylorda	88,4	x	65,7
Mangistau	x	39,9	-
Turkistan	7,6	-	x
Pavlodar	557,1	156,5	x
Soltustik Kazakhstan	15,2	-	-
Shygyz Kazakhstan	46,5	-	-
Nur-Sultan city	10,2	22,1	-
Almaty city	19,8	243,9	-
Shymkent city	146,1	989,4	-

2.19 Balances of resources and distribution of domestic heating fuel

thousands of tons

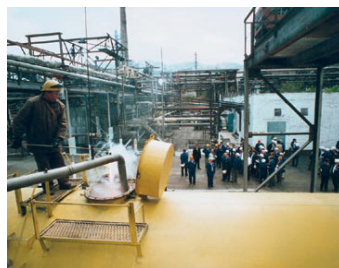
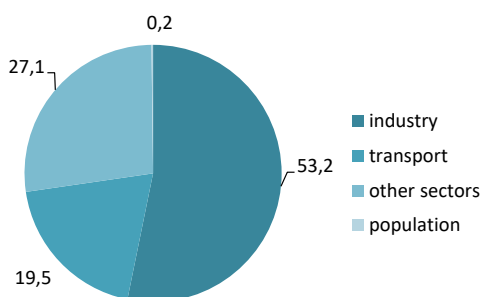
	2014	2015	2016	2017	2018
Resources	389,5	811,6	311,1	165,2	294,5
Stock at the beginning of the year	23,3	33,7	17,9	15,4	23,1
Extracted (produced)	242,6	185,7	101,2	149,8	270,6
Other income	-	591,7	192,0	-	-
Import	123,6	0,5	-	-	0,8
Distribution	389,5	811,6	311,1	165,2	294,5
Consumed in the domestic market	159,9	83,8	69,0	101,2	265,8

Continued

	2014	2015	2016	2017	2018
Used up	105,2	70,5	60,5	77,4	53,4
to production electrical and fuel energy	10,5	7,4	8,0	9,4	8,2
as a raw material for conversion into other kinds of energy	1,9	2,3	2,6	3,7	8,1
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,4	0,3	0,3	0,9	1,0
as a material for non - fuel needs	1,1	-	0,2	0,7	0,9
as a energy for own needs	91,2	60,6	49,5	62,8	35,1
Other consumption	44,3	-	0,0	19,8	209,3
Released to population	10,5	13,2	8,5	4,0	3,1
Losses	-	-	-	-	-
Export	98,9	709,9	226,7	40,8	17,0
Stock at the end of the year	130,5	17,9	15,4	23,1	11,7

Domestic heating fuel consumption in 2018

in percent to total



2.20 Consumption and export

thousands of tons

	Domestic heating fuel	
	consumption in the domestic market	export
Akmola	8,8	-
Aktobe	57,7	-
Almaty	5,3	-
Atyrau	149,6	-
Batys Kazakhstan	0,1	0,5
Zhambyl	9,3	15,5
Karagandy	9,8	-
Kostanai	1,9	-

Continued

	Domestic heating fuel	
	consumption in the domestic market	export
Kyzylorda	16,6	-
Mangistau	4,8	-
Turkistan	1,0	-
Pavlodar	32,2	-
Soltustik Kazakhstan	6,1	-
Shygyz Kazakhstan	1,5	-
Nur-Sultan city	5,2	22,1
Almaty city	0,3	0,8
Shymkent city	x	0,3

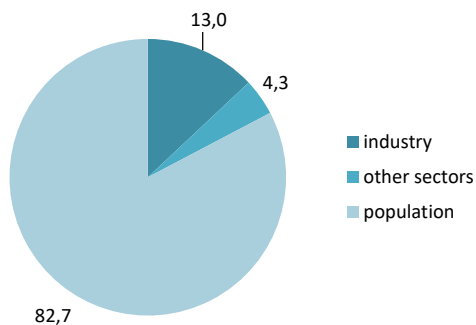
2.21 Balances of resources and distribution of liquefied propane and butane

thousands of tons

	2014	2015	2016	2017	2018
Resources	2 791,1	2 913,7	2 798,1	3 235,9	2 957,4
Stock at the beginning of the year	119,5	127,1	127,2	135	347,9
Extracted (produced)	2 388,3	2 068,2	2 111,1	2 315,3	2 488,0
Other income	282,8	717,6	558,2	785,5	121,4
Import	0,5	0,8	1,7	0,1	0,2
Distribution	2 791,1	2 913,7	2 798,1	3 235,9	2 957,4
Consumed in the domestic market	443,1	772,6	772,7	849,4	1 024,2
Used up	193,9	313,8	150,8	194,0	232,9
to production electrical and fuel energy	3,5	3,6	3,3	4,3	6,4
as a raw material for conversion into other kinds of energy	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,1	0,1	0,1	0,1	x
as a material for non - fuel needs	2,7	0,3	1,5	0,5	0,6
as a energy for own needs	187,5	309,9	145,9	189,1	225,8
Other consumption	-	-	-	-	0,0
Released to population	249,3	458,8	621,9	655,4	791,3
Losses	17,1	15,9	14,2	8,0	5,5
Export	2 194,5	1 997,9	1 876,3	2 030,6	1 826,1
Stock at the end of the year	136,4	127,2	135	347,9	101,6

Consumption of liquefied propane and butane in 2018

in percent to total



2.22 Consumption, export and import

thousands of tons

	Liquefied propane and butane		
	consumption in the domestic market	export	import
Akmola	63,8	-	x
Aktobe	490,5	188,1	-
Almaty	62,8	-	-
Atyrau	287,6	1 224,5	-
Batys Kazakhstan	30,3	-	-
Zhambyl	18,9	6,3	-
Karagandy	64,1	-	-
Kostanai	43,4	-	-
Kyzylorda	64,1	31,8	-
Mangistau	72,4	-	-
Turkestan	63,7	7,4	x
Pavlodar	211,6	52,9	-
Soltustik Kazakhstan	43,0	-	-
Shygyz Kazakhstan	13,7	-	-
Nur-Sultan city	50,9	68,4	-
Almaty city	62,9	202,3	-
Shymkent city	155,8	13,1	-

2.23 Balances of resources and distribution of oil and shale bitumen

thousands of tons

	2014	2015	2016	2017	2018
Resources	689,8	648,5	646,9	836,1	949,7
Stock at the beginning of the year	42,3	45,5	36,4	14,2	17,3
Extracted (produced)	602,2	599,9	604,6	809,4	925,6
Other income	-	-	-	-	-
Import	45,3	3,1	5,9	12,5	6,8

Continued

	2014	2015	2016	2017	2018
Distribution	689,8	648,5	646,9	836,1	949,7
Consumed in the domestic market	607,2	611,8	618,8	710,3	844,0
Used up	403,7	362,1	291,7	426,7	415,4
to production electrical and fuel energy	-	-	-	-	-
as a raw material for conversion into other kinds of energy	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	78	63,7	-	76,1	108,9
as a material for non - fuel needs	242,2	171,5	69,7	244,7	256,3
as a energy for own needs	83,6	127,0	141,8	105,9	50,3
Other consumption	202,9	176,5	80,1	283,4	428,4
Released to population	0,5	73,2	323,7	0,2	0,2
Losses	-	-	3,5	-	-
Export	11,8	0,3	-	108,5	89,9
Stock at the end of the year	70,8	36,4	14,2	17,3	15,8

2.24 Consumption, export and import

thousands of tons

	Oil and shale bitumen		
	consumption in the domestic market	export	import
Akmola	18,9	-	-
Aktobe	6,8	x	-
Almaty	31,1	0,5	-
Atyrau	-	-	-
Batys Kazakhstan	3,3	-	-
Zhambyl	19,1	x	-
Karagandy	43,7	-	-
Kostanai	44,6	-	-
Kyzylorda	23,2	-	-
Mangistau	308,0	-	-
Turkestan	201,7	23,7	0,2
Pavlodar	291,4	-	-
Soltustik Kazakhstan	30,1	-	-
Shygyz Kazakhstan	33,5	-	-
Nur-Sultan city	40,8	-	-
Almaty city	69,7	7,9	6,6
Shymkent city	2,9	57,5	-

3. Consumption of fuel and energy resources by types of economic activity in 2018

3.1 Consumption of fuel and energy resources by types of economic activity in 2018

Items of balance	Stone coal of coke, tons	Stone coal of energy, tons	Coal concentrate	Stone coal of energy with high ash, tons	Other coal, tons
Agriculture, forestry and fishing	6,0	117 537,6	-	144 200,1	44 902,2
The mining industry and working out of open - cast mines	849 714,8	69 310 400,7	297 600	12 317,7	50 402,7
Manufacturing industry	10 833 872,5	4 134 487,9	4 285 396,1	776 1 55	80 078,5
Electrical supply, giving of gas, steam and air - conditioning	-	39 009 872	-	10 661 995	2 750 942,9
Construction	40 140,8	24 922,7	-	9 042	18 608,7
Wholesale and retail trade; car and motorcycles repairs	65	812 753,6	227 100	364 173,2	3 070 601,1
Land transport and pipeline transportation	-	46 048,3	-	8 979,8	9 051,8
Water transport	-	-	-	-	-
Air transport	-	19,3	-	-	-
Warehousing and auxiliary transport activity	11,5	45 405,8	1 385,6	11 744,6	20 816,4
Information and communication	-	407,9	-	287,8	873,2
Financial and insurance activities	-	401,3	-	103,6	117,7
Real estate operations	-	22 070,4	70	17 179,9	12 744,3
Professional. Scientific and technical activities	387,6	14 505,2	-	1 474,5	3 813,9
Administrative and support activities	370	9 453,2	-	4 100,2	3 102,6
Governance and defence; obligatory social security	3 173,5	124 188	42	85 891,8	51 632,7
Education	9 773,1	358 248,9	-	298 050,9	121 195,3
Public health services and social services	1 177	103 476,7	-	82 435,3	36 127,4
Other services provision	-	4 729,1	-	980	1 136,9

Continued

Items of balance	Lignite (brown coal), tons	Crude oil, tons	Gas condensate, tons	Natural gas, thousands of cubic metre	Associated petroleum gas, thousands of cubic metre
Agriculture, forestry and fishing	7 987,5	-	-	28 005,1	24 875,1
The mining industry and working out of open - cast mines	5 993 033,1	19 564 771,3	12 520 915,6	9 379 939,6	32 452 587,9
Manufacturing industry	-	16 117 910,9	138 740,4	1 146 830,7	1 129 902,7
Electrical supply, giving of gas, steam and air - conditioning	413 981,7	1 800	-	8 067 238,4	1 606 497
Construction	1 198,1	290,4	-	53 667,1	21 538,5
Wholesale and retail trade; car and motorcycles repairs	40 094,4	9,7	-	21 886,3	3 778,7
Land transport and pipeline transportation	387,9	3 927,9	-	649 941,7	3 455,3
Water transport	1 490	-	-	98,6	-

Continued

Items of balance	Lignite (brown coal), tons	Crude oil, tons	Gas condensate, tons	Natural gas, thousands of cubic metre	Associated petroleum gas, thousands of cubic metre
Air transport	-	-	-	x	x
Warehousing and auxiliary transport activity	894,6	40 330	-	5 615,1	3 762,7
Information and communication	-	-	-	1 727,9	279,5
Financial and insurance activities	7	-	-	11 932,8	771,7
Real estate operations	227,5	-	-	47 322,8	8 747,8
Professional. Scientific and technical activities	186	4 631,5	-	125 680,1	100 893,7
Administrative and support activities	72,5	-	-	11 514,5	231,4
Governance and defence; obligatory social security	10 767,2	-	-	71 883	13 872,8
Education	43 847,8	-	-	132 967,1	23 347,4
Public health services and social services	13 064,9	-	-	50 631,1	7 604,4
Other services provision	190	41 900	-	6 468,7	2 200

Continued

Items of balance	Coke and semi coke of coal, tons	Sawdust and wood waste, tons	Wood coal, tons	Aviation gasoline, tons	Motor gasoline, tons
Agriculture, forestry and fishing	-	2 043,1	171,2	171,4	65 526,7
The mining industry and working out of open - cast mines	199 400,1	3,8	10,2	x	56 946,3
Manufacturing industry	3 627 615,7	7 729,6	11 968,1	800,6	3 940 054,8
Electrical supply, giving of gas, steam and air - conditioning	41,5	-	1 670	-	18 623,8
Construction	3	1 088,3	13,8	12	367 726,4
Wholesale and retail trade; car and motorcycles repairs	11 374,7	1 148	21 110,3	275,4	3 203 453,9
Land transport and pipeline transportation	0,3	8	-	1,7	70 301,4
Water transport	-	-	-	-	200,3
Air transport	-	-	-	3 977,3	1 411,5
Warehousing and auxiliary transport activity	873,1	385,8	x	-	65 256,2
Information and communication	-	44,7	-	-	15 592,2
Financial and insurance activities	-	11,7	-	-	42 016,3
Real estate operations	-	197,6	28	-	43 878,5
Professional. Scientific and technical activities	-	572,8	-	-	50 441,3
Administrative and support activities	160 595,9	-	-	-	28 156,6
Governance and defence; obligatory social security	4	105 288,4	133,3	-	468 588,7
Education	-	2 832,3	1 187	7,4	16 500,1
Public health services and social services	-	1 940,8	1 073,6	-	36 115,8
Other services provision	-	81,5	27	5,8	5 831,4

Continued

Items of balance	Jet fuel of gasoline type, tons	Kerosene, tons	Jet fuel of kerosene type, tons	Gasoil, tons	Heating oil, tons
Agriculture, forestry and fishing	217,8	1 710,0	x	506 975,7	161,2
The mining industry and working out of open - cast mines	117,1	557	x	843 895,5	6 054,8
Manufacturing industry	-	8 978,5	385 628,1	4 622 007,2	2 277 961,4
Electrical supply, giving of gas, steam and air - conditioning	-	34,9	-	76 532,1	212 913,8
Construction	11	14,6	4,8	2 687 829,2	9 984,1
Wholesale and retail trade; car and motorcycles repairs	24 022,5	650,8	58 365,9	1 497 987,9	131
Land transport and pipeline transportation	-	14,6	x	727 904,7	x
Water transport	-	-	-	6 159,1	-
Air transport	117,7	337 629,2	131 831,1	1 748,9	-
Warehousing and auxiliary transport activity	-	27 223,9	1 852,8	214 806	2 546
Information and communication	-	-	-	6 493,2	-
Financial and insurance activities	-	-	-	3 505,3	-
Real estate operations	-	x	-	17 226	11 340,3
Professional. Scientific and technical activities	-	8,5	-	43 221,3	-
Administrative and support activities	x	6,2	x	34 587,9	127
Governance and defence; obligatory social security	3,2	19 910,7	x	372 651,3	2 066
Education	-	-	x	67 150,5	-
Public health services and social services	-	-	-	21 736	591
Other services provision	-	-	5 109,7	4 763,3	-

Continued

Items of balance	Domestic heating fuel, tons	Liquefied propane and butane, tons	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum, gases, tons	Lean gas, thousands of cubic metre	Greased oil, tons
Agriculture, forestry and fishing	403,6	11 362,3	-	-	3 106,0
The mining industry and working out of open - cast mines	3 704,1	624 773,5	161 303,6	9 376 751,6	5 373,2
Manufacturing industry	251 596,5	482 615,4	1 032 878,5	x	47 416,9
Electrical supply, giving of gas, steam and air - conditioning	68,3	14 280,4	13,1	-	271,3
Construction	10 506,2	7 127,9	-	-	985,8
Wholesale and retail trade; car and motorcycles repairs	4 476,1	685 049,6	x	x	111 191,3
Land transport and pipeline transportation	698,9	16 134,2	x	-	3 634
Water transport	-	17,6	-	5,5	x
Air transport	-	23,9	-	-	4,7

Continued

Items of balance	Domestic heating fuel, tons	Liquefied propane and butane, tons	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases, tons	Lean gas, thousands of cubic metre	Greased oil, tons
Warehousing and auxiliary transport activity	17 306,7	121 574,9	x	-	1 127,5
Information and communication	20	1 350,9	-	-	37,4
Financial and insurance activities	-	58,4	-	-	0,2
Real estate operations	5 629	9 561,6	-	-	21,2
Professional. Scientific and technical activities	63,9	1 276,3	410	7 000	313,4
Administrative and support activities	718,6	9 366,7	0,1	-	132,9
Governance and defence; obligatory social security	3 224,1	13 570,2	-	-	1 128,7
Education	2 313,3	765,7	x	-	21
Public health services and social services	1 597,1	4 651,6	4,8	-	20,8
Other services provision	-	2 077,6	-	-	437,7

Continued

Items of balance	Oil and shale bitumen coke, tons	Oil and shale bitumen, tons	Oil easy distiller, tons	Oil distillation products, tons	Bio fuel, tons
Agriculture, forestry and fishing	-	3,9	-	-	10 517,1
The mining industry and working out of open - cast mines	-	20 145	880,9	2 335,6	10,2
Manufacturing industry	581 608,7	844 903,6	105 044,4	32 452,5	3 291,4
Electrical supply, giving of gas, steam and air - conditioning	-	8,6	-	-	6219
Construction	-	259 872,5	x	0,1	1 305,8
Wholesale and retail trade; car and motorcycles repairs	-	174,7	-	101 159,1	-
Land transport and pipeline transportation	-	9 323	-	-	-
Water transport	-	-	-	-	-
Air transport	-	-	0,1	4 936,1	-
Warehousing and auxiliary transport activity	-	2 297,5	-	-	3 479,5
Information and communication	-	-	-	-	-
Professional. Scientific and technical activities	-	-	-	1 798,6	233,9
Administrative and support activities	-	-	-	-	2
Education	-	-	-	-	3614,1
Public health services and social services	-	-	-	-	0,4
Other services provision	-	-	-	1 447	76,4

Continued

Items of balance	Electric power, thousands of kWh	Heat energy, thousands Gcal	Hydropower produced by hydroelectric power plants, thousands of kWh	Wind electric power produced by wind power plants, thousands of kWh	Solar electric power produced by solar power plants, thousands of kWh
Agriculture, forestry and fishing	716 000,6	881	83 057	6 884,8	1,7
The mining industry and working out of open - cast mines	15 119 708,4	13 743	1 989	2,9	3 192,7
Manufacturing industry	3 669 3550,9	2 1962	3 296 284,5	-	553,1
Electrical supply, giving of gas, steam and air - conditioning	73 045 865,8	47 276	7 052 436	454 477,9	134 779,6
Construction	554 224,2	335	45,9	32	2 573
Wholesale and retail trade; car and motorcycles repairs	2 318 903,7	391	513,4	-	-
Land transport and pipeline transportation	2 130 158	361	798,4	453,9	1,7
Water transport	2 469,1	1	-	-	-
Air transport	3 256,6	1	-	-	-
Warehousing and auxiliary transport activity	1 080 379,6	268	87,2	0,6	0,9
Information and communication	354 879,1	247	-	-	-
Financial and insurance activities	182 971,9	146	-	-	-
Real estate operations	1 486 377	1 025	2 048,3	54	-
Professional. Scientific and technical activities	243 154	174	4,2	-	162,6
Administrative and support activities	129 494	99	149,4	-	-
Governance and defence; obligatory social security	939 363,4	1 372	17 151,9	26,4	38,7
Education	1 297 392,3	4 168	404,4	120	7,1
Public health services and social services	724 292	1 691	x	x	-
Other services provision	86 118,2	134	-	-	-

4. Main energy indicators

4.1 Main energy indicators

	2014	2015	2016	2017	2018*
Energy intensity, toe per thousand usd in prices 2000 y.	1,52	1,53	1,54	1,53	1,46
Energy intensity, toe per thousand usd in prices 2010 y.	0,42	0,42	0,42	0,42	0,40
Total Primary Energy Supply, thousand toe	76 667	78 091	79 249	82 311	81 494
Total Final Energy consumption, thousand toe	36 599	38 416	42 601	46 659	41 128

*Preliminary data

4.2 Total final consumption

	2014	2015	2016	2017	2018*
thousand toe					
Agriculture, forestry and fishing	896	730	934	941	1642
Industry	16 474	19 141	20 762	20 933	18 108
Transport	4 883	5 349	6 604	6 597	6 011
Services	3 798	4 310	4 593	4 199	8 690

*Preliminary data

4.3 Total primary supply

	2014	2015	2016	2017	2018*
thousand toe					
Crude oil	18 748	18 059	20 595	22 469	22 156
Coal	37 035	34 239	35 653	38 766	34 654
Natural gas	25 952	27 450	25 596	24 662	28 059

*Preliminary data

5. Number of heat sources in 2018

5.1 Number of heat sources in 2018

	Sources of heat supply	Including power, Gcal/h:				Of which being in lease and concessions	Installed boilers (power plants)
		under 3	from 3,1 to 20	from 20,1 to 100	over 100,1		
Republic of Kazakhstan	2 323	1 530	525	151	117	61	5 625
Akmola	377	289	75	9	4	6	907
Aktobe	252	167	51	29	5	x	
Almaty	87	53	22	9	3	-	187
Atyrau	68	44	9	9	6	-	100
Batys Kazakhstan	137	67	39	6	25	-	359
Zhambyl	157	98	41	15	3	3	457
Karagandy	118	52	42	14	10	20	414
Kostanai	136	100	24	4	8	x	386
Kyzylorda	40	x	14	4	x	-	94
Mangistau	163	x	46	x	x	-	192
Turkistan	161	125	25	2	9	3	374
Pavlodar	200	168	21	-	11	1	401
Soltustik Kazakhstan	40	29	7	-	4	3	64
Shygys Kazakhstan	112	42	41	20	9	13	385
Nur-Sultan city	28	10	14	x	x	x	98
Almaty city	201	139	36	18	8	5	
Shymkent city	46	22	18	x	x	-	74

6. The length of thermal and steam networks in 2018

6.1 The length of thermal and steam networks in 2018

	Length of networks in two- pipe calculation	Including diameter, mm			
		under 200	from 201 to 400	from 401 to 600	over 600
Republic of Kazakhstan	11 511,9	7 384,8	2 076,5	1 049,2	1 001,4
Akmola	881,9	615,9	164,9	61,3	39,8
Aktobe	524,7	347,7	118,5	26,3	32,2
Almaty	663,8	470,9	125,8	49,1	18,0
Atyrau	290,2	211,7	38,0	31,7	8,8
Batys Kazakhstan	365,9	255,7	54,5	40,7	15,0
Zhambyl	415,5	291,7	74,4	x	x
Karagandy	1 615,3	789,1	364,3	224,7	237,2
Kostanai	820,0	600,1	100,7	79,0	40,2
Kyzylorda	246,4	138,6	64,2	24,7	18,9
Mangistau	575,5	403,6	106,7	35,8	29,4
Turkistan	187,5	160,0	16,6	10,1	0,8
Pavlodar	1 104,4	718,7	212,6	82,5	90,6
Soltustik Kazakhstan	373,7	244,6	68,2	22,2	38,9
Shygyz Kazakhstan	1 063,0	680,7	231,2	96,3	54,8
Nur-Sultan city	812,3	370,5	165,3	x	x
Almaty city	1 363,2	1 036,8	133,1	74,4	118,9
Shymkent city	208,4	48,6	37,6	60,4	61,8

7. Data on electricity generation, including production of renewable energy sources

7.1 Data on electricity generation, including production of renewable energy sources in 2017

	Power generation, total	Of which the production of electricity by renewable energy sources	Including			Share of electricity produced by renewable energy sources in total electricity production, %
			produced by hydro power plants	produced by wind farms	produced by solar power plants	
Republic of Kazakhstan	107 363 139,1	11 000 080,4	10 395 354,1	460 583,1	141 311,1	10,2
Akmola	1 013 435,5	158 862,0		158 840,0	x	15,7
Aktobe	4 125 880,0	21,7	x			
Almaty	4 009 053,3	2 600 983,1	2 569 982,1	27 884,0	3 117,0	64,9
Atyrau	5 955 243,5					
Batys Kazakhstan	9 651 487,7	7 174 246,0	7 174 245,5	0,4	x	74,3
Zhambyl	2 406 611,2	458 130,5	60 897,0	269 052,9	128 180,6	19,0
Karagandy	2 068 668,1					
Kostanai	14 117 446,7	5 689,9	4 344,0		6,9	
Kyzylorda	893 085,6	13,4				
Mangistau	1 611 854,8	1 729,6			1 729,6	0,1
Turkistan	5 179 660,5	2 587,3		4,8	2 582,5	
Pavlodar	45 627 199,7	8,5			8,5	
Soltustik Kazakhstan	3 232 936,0	21 828,0	17 029,0	4 799,0		0,7
Shygys Kazakhstan	393 659,2	377 287,2	373 320,4		3 966,8	95,8
Nur-Sultan city	3 263 584,4	195 001,0	195 001,0			6,0
Almaty city	3 351 922,3	4,6		2,0	2,6	0,0
Shymkent city	461 410,6	3 687,6	513,4		1 694,5	0,8

8. Leave and loss of electricity of the Republic of Kazakhstan

8.1 Leave and loss of electricity of the Republic of Kazakhstan

	thousands of kWh				
	2014	2015	2016	2017	2018
Released, total	79 091 712,5	85 304 858,3	84 109 582,5	87 670 506,2	94 410 594,1
including:					
Agriculture	1 222 579,6	1 197 622,0	1 163 282,0	1 175 480,4	1 240 627,2
Industry	54 466 817,9	57 740 298,6	58 455 957,0	62 077 889,2	65 621 745,9
of which:					
for production needs of the power plant	7 981 932,0	8 943 227,3	7 760 709,4	8 186 199,4	8 343 701,6
Construction	1 216 878,3	1 205 950,6	1 190 763,4	1 209 756,9	1 438 013,3
Trade	2 021 057,5	2 560 518,5	2 537 018,5	2 260 938,9	3 079 643,3
Services for accommodation and meals, information and communication	896 838,4	1 043 590,2	1 017 599,9	1 002 384,6	1 118 729,7
For lighting apartments and other housing needs of population	10 549 649,9	11 360 477,7	9 992 432,0	10 418 830,9	11 622 384,8
of which:					
urban population	7 204 777,1	7 744 390,4	6 353 235,6	6 748 915,5	7 797 909,4
rural population	3 344 872,8	3 616 087,3	3 639 196,4	3 669 915,4	3 824 475,4
On street lighting	703 667,5	830 942,8	759 677,7	692 378,1	818 283,4
of which:					
in urban areas	596 133,6	616 162,4	567 368,2	576 827,6	623 466,2
in rural areas	107 533,9	214 780,4	192 309,5	115 550,5	194 817,2
Transport and storage	4 129 033,5	4 429 169,1	4 362 130,6	4 251 273,3	4 945 390,6
Government agencies, financial and insurance activities, real estate transactions	1 429 271,4	1 650 944,6	1 569 211,8	1 546 855,9	1 988 590,3
Professional, scientific and technical activities, administrative and support services	187 577,3	643 898,1	619 446,6	608 019	621 986,3
Education	898 322,7	1 070 468,5	921 608,7	949 894,6	1 001 593,8
Health and social services, art, entertainment and recreation	1 370 018,5	1 570 977,6	1 520 454,3	1 476 804,4	913 605,7
Loss of electricity	11 143 868,2	7 017 217,4	7 119 268,1	7 149 997,5	6 302 610,7

9. Consumption of basic natural fuels in the World and OECD areas, Europe and Eurasia

9.1 Consumption of basic natural fuels in the World and OECD areas, Europe and Eurasia

	million tonnes of oil equivalent								
	Natural gas			Coal			Oil		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
Total World									
including:									
OECD	3 052,6	3 141,9	3 309,4	3 710,0	3 718,4	3 772,1	4 548,3	4 607,0	4 662,1
European Union	1 416,0	1 435,2	1 505,2	900	892,9	861,3	2 180,5	2 196,5	2 204,8
Total North America	462,2	481,9	472,0	326,8	315,5	307,1	733,3	746,2	742
including:	806,5	804,4	879,1	371,7	365,1	343,3	1 091,1	1 096,6	1 112,5
US	644,1	635,8	702,6	340,6	331,3	317,0	893,3	902	919,7
Canada	91,0	94,3	99,5	18,7	18,6	14,4	108,7	108,8	110,0
Mexico	71,4	74,3	77,0	12,4	15,2	11,9	89,1	85,8	82,8
Total S./Cent.America	147,5	148,4	144,8	35,5	34,8	36,0	67,1	67,4	68,3
of which:									
Argentina	41,5	41,5	41,9	1,0	1,1	1,2	32,3	32,0	30,1
Brazil	31,9	32,4	30,9	15,9	16,6	15,9	132,7	136,1	135,9
Venezuela	32,3	33,4	28,7	0,1	0,1	0,1	25,9	22,1	19,5
Total Europe& Eurasia									
of which:									
United Kingdom	69,8	67,8	67,8	11,1	9,1	7,6	77,5	78,0	77,0
Germany	73,0	77,2	75,9	76,5	71,5	66,4	116,5	119,0	113,2
Italy	58,1	61,5	59,5	11,0	9,6	8,9	61,6	62,0	60,8
France	38,3	38,5	36,7	8,2	9,3	8,4	10,5	10,3	10,7
Netherlands	30,2	31,0	30,7	10,2	9,1	8,2	41,0	39,6	40,9
Romania	9,0	9,6	9,3	5,4	5,4	5,3	9,8	10,3	10,2
Belgium	13,9	14,1	14,5	3,2	3,1	3,3	33,7	33,7	34,1
Azerbaijan	9,4	9,1	9,3	-	-	-	4,7	4,7	4,6
Belarus	15,3	15,7	16,6	0,8	0,8	1,0	6,9	6,7	6,8
Kazakhstan	13,6	13,7	16,7	33,9	36,4	40,8	14,5	15,0	16,4
Russian Federation	361,7	370,7	390,8	89,3	83,9	88,0	153,1	151,5	152,3
Turkmenistan	20,7	21,8	24,4	-	-	-	6,7	6,9	7,1
Ukraine	27,0	26,0	26,3	32,5	25,7	26,2	9,9	9,9	9,6
Uzbekistan	37,3	37,1	36,6	2,7	3,5	3,1	2,4	2,7	2,6
Total Middle East	430,7	453,2	475,6	9,7	8,2	7,9	417,4	412,5	412,1
of which:									
Saudi Arabia	90,6	93,9	96,4	0,1	0,1	0,1	171,5	168,8	162,6
Iran	168,8	180,5	193,9	1,5	1,4	1,5	81,8	84,5	86,2
United Arab Emirates	62,5	64,0	65,8	1,8	1,0	1,1	46,6	43,8	45,1
Total Africa	116,1	121,0	129,0	99,1	97,6	101,4	189,0	192,1	191,3
of which:									
Algeria	33,2	33,4	36,7	-	0,2	0,2	19,7	19,4	19,6
Egypt	42,4	48,1	51,2	1,7	1,6	2,8	42,1	39,2	36,7
South Africa	3,9	3,8	3,7	86,9	84,3	86,0	27,5	27,5	26,3

	Natural gas			Coal			Oil		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
Total Asia Pacific	627,1	660,6	709,6	2 738,9	2 770,8	2 841,3	1 606,2	1 651,3	1 695,4
<i>of which:</i>									
Australia	35,9	35,5	35,6	46,5	45,1	44,3	50,3	51,1	53,3
China	180,1	206,7	243,3	1 889,1	1 890,4	1 906,7	587	610,7	641,2
India	43,7	46,2	49,9	400,4	415,9	452,2	219,5	227,1	239,1
Japan	100,1	100,6	99,5	118,8	119,9	117,5	191,0	187,8	182,4

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Division of services and energy statistics

Tel. +7 7172 749429

Head of the division

Karaulova G.S.

Tel. +7 7172 749060

Computer layout and design:

