



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

2012-2016



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Committee on statistics

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2012-2016

Statistical collection

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Conventional symbols:

«-» - not applicable

0,0 – negligible magnitude

x – data are confidential

«...» - data are not available (not presented)

In separate cases slight discrepancies between total and sum of items are 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 2012-2016. 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. The statistical collection contains tables that represent the format of the fuel and energy balance of the Republic of Kazakhstan taking into account the recommendations of the experts of the International Energy Agency.

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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.

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.

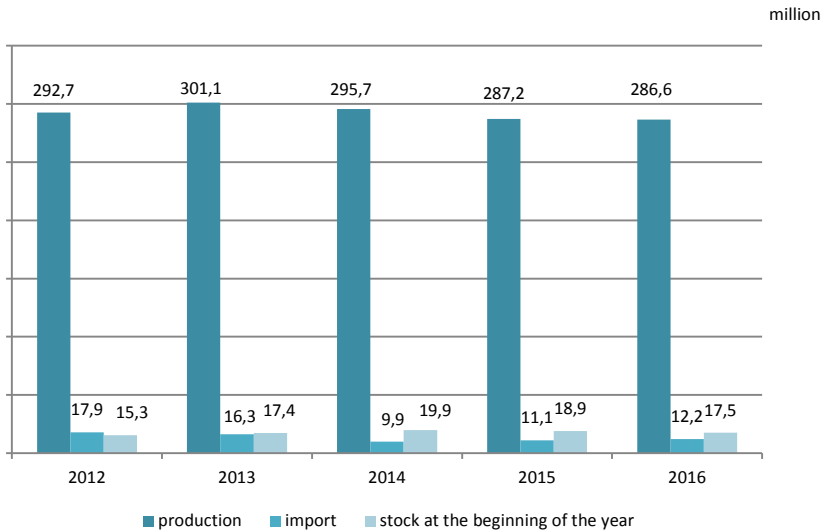
In the part 2.5 shipment of fuel and energy resources by sea ports and airports is completed, in which foreign ships are bunkered and foreign aircraft are refueled (bunkering is the amount of fuel delivered to ships and aircraft of different countries, including military and fishing vessels).

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 2016

Kazakhstan possesses a huge reserves of natural and energy resources. In spite of it, formed power balance for 2016 showed that republic provides domestic needs in energy supply incompletely, where import is 3,2% from resources total volume. As compared with a level of the previous year, production of energy resources has increased by 0,2%, apparent specific gravity of which is 76%.

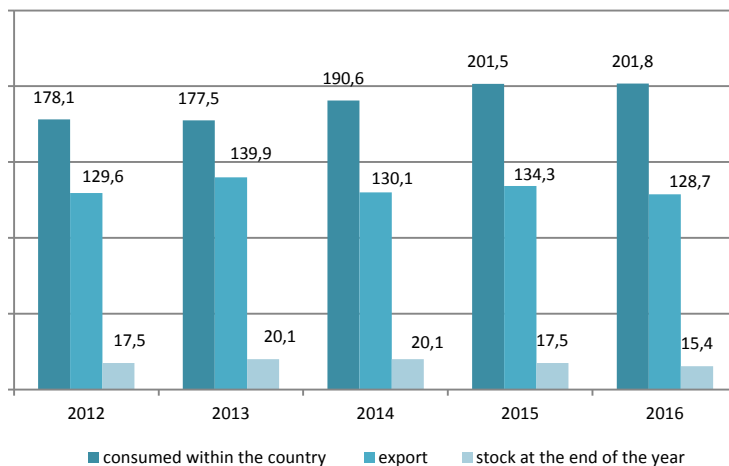
Fuel and energy resource from structural part



There have been changes in the structure of distribution form: apparent specific gravity of energy resources supplied to domestic market has increased from 53,3% in 2012 to 53,5% in 2016, and the energy resources share of export has decreased from 38,8 to 34,1% respectively.

Fuel and energy distribution from structural part

million



In 2016 on the domestic market of the country has consumed 201,8 million tcf or 53,5% from the energy resources total volume, 21,9% has spent for conversion to other energy views and 50,9% 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 74,1%. In the natural resources compound there is 41,1 % of petrol, including gas-condensate, 34,2% of coal, 24,7% of natural gas.

1. Fuel and energy balance

1.1 Fuel and energy balance

	Thousands of tons of conventional fuel					2016 in percent to			
	2012	2013	2014	2015	2016	2012	2013	2014	2015
Resources - total	333 907	347 342	349 660	383 601	377 404	113,0	108,7	107,9	98,4
Stock at the beginning of the year	15 283	17 400	19 912	18 952	17 546	114,8	100,8	88,1	92,6
Extracted (produced)	292 752	301 112	295 729	287 174	286 645	97,9	95,2	96,9	99,8
Received from aside from all the sources	7 931	12 551	24 039	66 373	60 988	769,0	485,9	253,7	91,9
Import	17 941	16 280	9 981	11 102	12 225	68,1	75,1	122,5	110,1
Distribution - total	333 907	347 342	349 660	383 601	377 404	113,0	108,7	107,9	98,4
Used up	136 906	139 572	147 543	149 619	146 806	107,2	105,2	99,5	98,1
conversion into other kinds of energy	54 653	55 311	62 144	43 599	44 127	80,7	79,8	71,0	101,2
production - technological and other needs	82 253	84 260	85 399	106 020	102 679	124,8	121,9	120,2	96,8
Losses	8 720	9 806	8 339	6 707	7 782	89,2	79,4	93,3	116,0
Other consumption	24 278	21 492	21 068	51 957	55 025	226,6	256,0	261,2	105,9
Released to population*	16 912	16 387	21 877	23 291	23 484	138,9	143,3	107,3	100,8
Export	129 560	139 960	130 088	134 339	128 684	99,3	91,9	98,9	95,8
Bunkers	9	8	85	142	235	2 615,6	2 942,5	276,9	165,8
Stock at the end of the year	17 521	20 118	20 661	17 546	15 389	87,8	76,5	74,5	87,7

* Here and further in tables cited data from 2015 it is released to the population.

1.2 Structure of the fuel and energy balance

	in percent to total				
	2012	2013	2014	2015	2016
Resources - total	100,0	100,0	100,0	100,0	100,0
Stock at the beginning of the year	4,6	5,0	5,7	4,9	4,6
Extracted (produced)	87,7	86,7	84,6	74,9	76,0
Received from aside from all the sources	2,4	3,6	6,9	17,3	16,2
Import	5,4	4,7	2,9	2,9	3,2
Distribution - total	100,0	100,0	100,0	100,0	100,0
Used up	41,0	40,2	42,2	39,0	38,9
conversion into other kinds of energy	16,4	15,9	17,8	11,4	11,7
production - technological and other needs	24,6	24,3	24,4	27,6	27,2
Losses	2,6	2,8	2,4	1,7	2,1
Other consumption	7,3	6,2	6,0	13,5	14,5
Released to population*	5,1	4,7	6,3	6,1	6,2
Export	38,8	40,3	37,2	35,0	34,1
Bunkers	0,003	0,002	0,02	0,04	0,1
Stock at the end of the year	5,2	5,8	5,9	4,6	4,1

* Here and further in tables cited data from 2015 it is released to the population.

1.3 Fuel and energy balance of the Republic of Kazakhstan for 2012

thousand tonnes of oil equivalent										
Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Production	52 763	82 608		28 550	59			657		164 638
Imports	645	6 030	2 468	3 647		366				13 155
Exports	-14 292	-71 217	-6 425	-8 993		-252				-101 179
International marine bunkers										
International aviation bunkers			-202							-202
Stock changes	-1 260	-89	-316	-880						-2 544
TPES	37 856	17 333	-4 476	22 324	59	113		657		73 867
Transfers		-1 443	1 443							98
Statistical differences	2 124	356	67	1662		20				4 230
Electricity plants						657		-657		
CHP plants	-19 755		-185	-3 689		7 325	9 984			-6 320
Heat plants										
Blast furnaces	-744									-744
Gas works										
Coke/pat.fuel/BKB/PB plants	-1 145									-1 145
Oil refineries		-14 729	13 637							-1 903
Petrochemical plants										
Liquefaction plants										
Other transformation										
Energy industry own use	-440	-488	-792	-16 444		-1 632	-2 240			-22 037
Losses	-1 669	-708	-47	-954		-614	-1 080			-5 074
TFC	16 227	322	9 646	2 899	59	5 869	6 663			41 686
INDUSTRY	12 463	322	1 925	1 454		4 228	2 359			22 752
Iron and steel	4 236		717	235		1 948	1 551			8 686
Chemical and petrochemical	49		29	316		259	136			790
Non-ferrous metals	614		72	142		108	14			950
Non-metallic minerals	11		200							211
Transport equipment	1		2	3		4	8			18
Machinery	12		12	13		38	35			109
Mining and quarrying	1 000		312	514		482	210			2 518
Food and tobacco	41		60	165		109	174			548
Paper pulp and printing			3	2		6	11			22
Wood and wood products			1	1		1	2			5
Construction	37		45	60		114	56			313

Continued

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Textile and leather	2		2	5		8	2			18
Non-specified	6 461	322	470			1 150	161			8 564
TRANSPORT	53		4 897			288				5 238
Domestic aviation			91							91
Road			4 564							4 564
Rail	6		229			60				295
Pipeline transport										
Domestic navigation			5							5
Non-specified	47		8			228				282
OTHER	3 712		2 191	1 256	59	1 353	4 304			12 875
Residential	1 563		1 455	838	48	872	2 525			7 300
Comm. and public services	678		80	406		442	862			2 469
Agriculture/forestry	175		444	12		38	180			850
Fishing										
Non-specified	1 295		212		12		738			2 256
NON-ENERGY USE			632	189						821
in industry/transf./energy			632	189						821
in transport										
in other										

1.4 Fuel and energy balance of the Republic of Kazakhstan for 2013

thousand tonnes of oil equivalent

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Production	52 439	85 207		30 693	66			665	1	169 071
Imports	598	7 638	2 599	4 322		185				15 341
Exports	-14 827	-70 795	-6 347	-8 561		-258				-100 787
International marine bunkers										
International aviation bunkers			-168							-168
Stock changes	-731	66	-203	-1 046						-1 914
TPES	37 479	22 117	-4 119	25 407	66	-73		665	1	81 542
Transfers		-1 451	1 451							
Statistical differences	2 424	4		-2 039		15				404
Electricity plants						665		-665	-1	
CHP plants	-20 918		-169	-2 337		7 536	9 473			-6 414
Heat plants										
Blast furnaces	-497									-497

Continued

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Gas works										
Coke/pat.fuel/BKB/PB plants	-1 618									-1 618
Oil refineries		-15 097	13 867							-1 230
Petrochemical plants										
Liquefaction plants										
Other transformation										
Energy industry own use	-436	-1 612	-655	-17 379		-1 482	-2 524			-24 088
Losses	-1 705	-623	-127	-892		-961	-885			-5 193
TFC	14 730	3 337	10 248	2 761	66	5 701	6 064			42 907
Industry	11 920	3 337	1 776	1 534		3 856	2 036			24 461
Iron and steel	3 158		686	290		1 917	1 314			7 364
Chemical and petrochemical	28		26	353		257	144			808
Non-ferrous metals	799		67	149		114	13			1 142
Non-metallic minerals	1		87							88
Transport equipment	1		2	4		52	10			69
Machinery	21		9	13		36	35			113
Mining and quarrying	790		366	491		551	148			2 347
Food and tobacco	36		40	181		111	173			542
Paper pulp and printing			3	14		5	11			34
Wood and wood products			1	1		1	1			5
Construction	28		52	36		41	34			190
Textile and leather	1		2	3		7	2			15
Non-specified	7 056	3 337	436			764	151			11 745
Transport	35		4 646			255				4 935
Domestic aviation			76							76
Road			4 386							4 386
Rail	4		172			61				237
Pipeline transport										
Domestic navigation			12							12
Non-specified	31					193				224
Other	2 775		3 200	1 063	66	1 590	4 028			12 721
Residential	1 273		1 555	540	46	918	2 362			6 694
Comm. and public services	718		950	502		603	973			3 745
Agriculture/forestry	159		448	21		68	89			786

Continued

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Fishing										
Non-specified	625		247		20		604			1 496
Non-Energy USE			626	164						790
in industry/			626	164						790
transf./energy										
in transport										
in other										

1.5 Fuel and energy balance of the Republic of Kazakhstan for 2014

thousand tonnes of oil equivalent

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Production	49 940	84 346		31 264	22			711	1	166 284
Imports	737	988	1 980	3 497		150				7 352
Exports	-13 510	-67 006	-6 795	-8 802		-251				-96 364
International marine bunkers										
International aviation bunkers			-232							-232
Stock changes	-132	420	-654	-7						-372
TPES	37 035	18 748	-5 701	25 952	22	-100		711	1	76 667
Transfers		-1 574	1 574							
Statistical differences	158	177	338	592		-31				1 233
Electricity plants						712		-711	-1	
CHP plants	-21 001		-289	-5 011		8 324	9 526			-8 450
Heat plants										
Blast furnaces	-719									-719
Gas works										
Coke/pat.fuel/BKB/ PB plants	-2 681									-2 681
Oil refineries		-15 891	14 636							-1 255
Petrochemical plants										
Liquefaction plants										
Other transformation										
Energy industry own use	-359	-522	-442	-17 900		-2 370	-1 818			-23 410
Losses	-1 812	-607	-43	-810		-609	-905			-4 786
TFC	10 621	331	10 073	2 823	22	5 925	6 803			36 598
Industry	6 998	331	1 724	1 535		3 915	1 971			16 474
Iron and steel	4 266		683	332		1 944	1 235			8 460
Chemical and petrochemical	25		26	308		301	152			814
Non-ferrous metals	854		65	181		139	14			1 252

Continued

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Non-metallic minerals	4		80							84
Transport equipment	1		2	4		4	8			19
Machinery	25		9	16		30	37			116
Mining and quarrying	710		401	440		571	147			2 269
Food and tobacco	41		37	189		93	171			531
Paper pulp and printing			3	14		5	12			34
Wood and wood products			1	1		2	1			4
Construction	45		40	45		44	41			215
Textile and leather	1		2	6		7	1			18
Non-specified	1 026	331	374			776	150			2 658
TRANSPORT	2		4 665			216				4 883
Domestic aviation			93							93
Road			4 379							4 379
Rail			189			57				247
Pipeline transport										
Domestic navigation			5							5
Non-specified	2					159				160
OTHER	3 621		3 119	1 124	22	1 794	4 832			14 513
Residential	2 719		1 663	667	22	1 000	2 113			8 184
Comm. and public services	754		716	438		729	1 161			3 798
Agriculture/forestry	148		561	19		64	104			896
Fishing						1				1
Non-specified			179				1 455			1 634
NON-ENERGY USE			564	164						729
in industry/transf./energy			564	164						729
in transport										
in other										

1.6 Fuel and energy balance of the Republic of Kazakhstan for 2015

Supply and consumption	thousand tonnes of oil equivalent									
	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Production	47 110	82 733		33 350	70			797	15	164 076
Imports	590	75	1 818	4 887	7	139				7 517
Exports	-13 649	-65 179	-4 402	-10 655		-139				-94 022
International marine bunkers			-97							-97
International aviation bunkers			-316							-316
Stock changes	188	429	451	-132						935
TPES	34 239	18 059	-2 546	27 450	77			797	15	78 093
Transfers		-1 363	1 363							
Statistical differences	-5	47	372	-249	-7	27	378			563
Electricity plants						813		-797	-15	
CHP plants	-18 731		-437	-4 853		8 344	9 747			-5 931
Heat plants										
Blast furnaces	-775									-775
Gas works										
Coke/pat.fuel/BKB/PB plants	-1 929									-1 929
Oil refineries		-14 943	13 454							-1 489
Petrochemical plants										
Liquefaction plants										
Other transformation										
Energy industry own use	-458	-908	-365	-18 625		-2 873	-3 035			-26 265
Losses	-1 759	-392	-23	-536		-446	-697			-3 852
TFC	10 582	499	11 820	3 186	70	5 865	6 393			38 416
Industry	7 741	499	3 344	1 786		3 879	1 892			19 141
Iron and steel	2 385		482	303		908	1 208			5 286
Chemical and petrochemical	26		23	342		248	133			771
Non-ferrous metals	1 002		302	182		701	12			2 199
Non-metallic minerals	13		238			152				403
Transport equipment	2		1	6		5	13			27
Machinery	21		46	13		18	36			134
Mining and quarrying	455		45	633		493	147			1 773
Food and tobacco	48		61	247		113	128			597
Paper pulp and printing			2	17		5	16			40
Wood and wood products	2		1	1		3	4			11
Construction	36		1 618	36		48	38			1 777
Textile and leather	1		2	7		8	1			20
Non-specified	3 749	499	522			1 177	156			6 103
TRANSPORT	36		5 005			307				5 349
Domestic aviation			61							61
Road			4 561			10				4 571
Rail			87			65				152

Continued

Supply and consumption	Coal	Crude oil	Oil products	Natural gas	Biofuels and waste	Electricity	Heat	Hydro	Geothermal solar etc.	Total
Pipeline transport						41				41
Domestic navigation			9							9
Non-specified	36		287			192				515
OTHER	2 805		3 245	1 105	70	1 678	4 501			13 404
Residential	1 931		1 998	313	70	1 038	2 059			7 409
Comm. and public services	760		804	769		572	1 405			4 310
Agriculture/forestry	114		443	23		68	82			730
Fishing										
Non-specified							955			955
NON-ENERGY USE			226	295						522
in industry/transf./energy			226	295						522
in transport										
in other										

1.7 Import of energy products

	thousand tonnes of oil equivalent			
	2012	2013	2014	2015
Coal	645	598	737	590
Crude oil	6 030	7 638	988	75
Natural gas	3 647	4 322	3 497	4 887
Liquefied propane and butane	7	4	1	1
Motor gasoline	1 329	1 198	674	1 431
Kerosene	114	79	73	
Gasoil	501	627	503	168
Heating oil	25	220	3	4
Oil and shale bitumen	443	411	35	3
Oil and shale coke	13	20	4	8
Electricity	366	185	150	139

1.8 Export of energy products

thousand tonnes of oil equivalent

	2012	2013	2014	2015
Coal	14 292	14 827	13 510	13 649
Crude oil	71 217	70 795	67 006	65 179
Natural gas	8 993	8 561	8 802	10 655
Liquefied propane and butane	1 849	2 452	2 411	2 496
Motor gasoline	43	40	18	
Kerosene	1	16	12	
Gasoil	1 687	1 707	1 898	171
Heating oil	2 484	5 149	3 771	3 827
Oil and shale bitumen	92	102	9	
Oil and shale coke	125	189	243	157
Electricity	252	258	251	139

1.9 Total primary energy supply

thousand tonnes of oil equivalent

	2012	2013	2014	2015
Coal	37 856	37 479	37 035	34 239
Crude oil	17 333	22 117	18 748	18 059
Natural gas	22 324	25 407	25 952	27 450
Liquefied propane and butane	1 877	2 465	2 430	2 195
Motor gasoline	972	1 244	322	1 418
Kerosene	86	64	71	107
Gasoil	1 233	1 107	1 619	369
Heating oil	2 361	5 087	3 705	3 710
Oil and shale bitumen	364	316	4	11
Oil and shale coke	115	176	245	152
Electricity	113	73	100	

1.10 Total Final consumption

thousand tonnes of oil equivalent

	2012	2013	2014	2015
Coal	16 227	14 730	10 621	10 582
Crude oil	322	3 337	331	499
Natural gas	2 899	2 761	2 823	3 186
Liquefied propane and butane	1 892	2 557	2 454	2 227
Motor gasoline	946	1 094	299	1 414
Kerosene	86	63	69	107
Gasoil	1 359	1 654	1 642	368
Heating oil	2 833	5 642	4 252	3 881
Oil and shale bitumen	364	316	4	11
Oil and shale coke	115	176	245	152
Electricity	5 869	5 701	5 925	5 865
Heat	6 663	6 064	6 803	6 393

1.11 Fuel and energy balance of the Republic of Kazakhstan for 2016

terajoule

Items of balance	Stone coal of coke	Stone coal of energy	Concentrate of coal	Stone coal of energy with high ash
Calorific conversion factor	29,310	29,310	29,310	29,310
Resources	524 459,9	2 487 019,9	133 235,8	402 625,6
Stock at the beginning of the year	34 684,1	285 009,2	1 812,6	49 941,3
Extracted (produced)	308 874,6	2 201 863,9	131 423,1	439,7
Received from aside from all the sources	180 901,1			352 244,7
Import		146,9		
Distribution	524 459,9	2 487 019,9	133 235,8	402 625,6
Used up - total	337 731,0	1 179 616,8	130 495,5	324 737,2
to production electrical and fuel energy	53 762,2	1 093 897,2		294 362,8
as a raw material for conversion into other kinds of energy	265 216,0	13 696,3		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	2 634,8	5 596,5		503,0
as a material for non - fuel needs		4 341,7		2 535,0
as a energy for own needs	16 118,0	62 085,1	130 495,5	27 336,5
Losses	115 407,9	47 478,0		1 801,9
Other consumption		920 685,9	2 448,1	
Released to population	3,2	124 970,3		31 222,8
Exports	33 039,8	587,0		
Bunkers				
Stock at the end of the year	38 278,0	213 682,0	292,2	44 863,7

Continued

Items of balance	Other coal	Briguettes, pellets of lignite	Lignite (brown coal)	Crude oil
Calorific conversion factor	29,310	29,310	11,280	42,620
Resources	800 013,0	8,8	75 581,9	3 411 301,3
Stock at the beginning of the year	8 214,7		10 708,7	92 106,0
Extracted (produced)	209 953,4	8,8	64 864,5	2 794 576,4
Received from aside from all the sources	581 301,8			524 320,1
Import	543,1		8,6	298,9
Distribution	800 013,0	8,8	75 581,9	3 411 301,3
Used up - total	84 660,7		5 474,9	693 458,2
to production electrical and fuel energy	52 848,6		4 626,9	552,4
as a raw material for conversion into other kinds of energy				235 813,2

Continued

Items of balance	Other coal	Briguettes, pellets of lignite	Lignite (brown coal)	Crude oil
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	2 061,9			
as a material for non - fuel needs	14,2			411 559,9
as a energy for own needs	29 736,0		847,9	45 532,8
Losses	0,3			15 517,9
Other consumption		7,9	28 965,0	
Released to population	24 959,9	0,9	7 581,3	
Exports	663 631,6		24 859,5	2 598 511,3
Bunkers				
Stock at the end of the year	26 760,5		8 701,3	103 813,9

Continued

Items of balance	Gas condensate	Natural gas	Associated petroleum gas	Coke and semi - coke of coal
Calorific conversion factor	44,320	39,020	45,590	26,380
Resources	580 576,7	1 349 464,9	1 142 181,6	105 016,4
Stock at the beginning of the year	27 524,0	84 143,9	193,0	5 254,4
Extracted (produced)	552 324,7	492 206,1	1 141 988,5	74 916,6
Received from aside from all the sources		505 438,9		2 826,7
Import	728,0	267 676,0	0,1	22 018,8
Distribution	580 576,7	1 349 464,9	1 142 181,6	105 016,4
Used up - total	21 730,6	327 807,7	911 957,8	100 083,6
to production electrical and fuel energy		216 109,8	106 611,5	33,7
as a raw material for conversion into other kinds of energy	8 481,5	8 169,7	728 864,3	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		9 582,9	3 931,7	12 160,1
as a material for non - fuel needs		873,9	17 763,8	13 979,6
as a energy for own needs	13 249,1	93 071,4	54 786,5	73 910,3
Losses	1 254,3	7 026,3	15 436,7	106,0
Other consumption	480 115,2		196 363,4	
Released to population		102 224,6	18 231,1	
Exports	53 395,9	843 681,0		91,5
Bunkers				
Stock at the end of the year	24 080,7	68 725,3	192,6	

Continued

Items of balance	Sawdust and wood waste	Wood coal	Aviation gasoline	Motor gasoline
Calorific conversion factor	12,600	28,890	43,970	43,970
Resources	1 226,8	3 645,7	997,9	219 016,2
Stock at the beginning of the year	102,1	386,6	129,2	39 920,5
Extracted (produced)		38,1	391,3	129 223,4
Received from aside from all the sources	1 122,6	2 911,8	467,8	
Import	2,1	309,2	9,5	49 872,3
Distribution	1 226,8	3 645,7	997,9	219 016,2
Used up - total	208,9	1 840,3	995,6	57 087,8
to production electrical and fuel energy	116,7	451,2		15,4
as a raw material for conversion into other kinds of energy				28,5
as a raw material for the production of chemical, petrochemical industries and other non - fuel products				
as a material for non - fuel needs	15,7	0,9		10,7
as a energy for own needs	76,6	1 388,2	995,6	57 033,3
Losses				143,7
Other consumption				5 937,6
Released to population	949,1	1 433,9		133 327,1
Exports				24,0
Bunkers				37,3
Stock at the end of the year	68,8	371,5	2,3	22 458,7

Continued

Items of balance	Jet fuel of gasoline type	Kerosene	Jet fuel of kerosene type	Gasoil
Calorific conversion factor	43,680	43,210	43,210	42,500
Resources	2 403,1	21 799,8	15 676,2	301 372,4
Stock at the beginning of the year	86,1	1 206,2	59,4	20 846,2
Extracted (produced)		73,5	11 018,6	197 688,8
Received from aside from all the sources	336,6	20 508,5		64 374,9
Import	1 980,4	11,6	4 598,3	18 462,6
Distribution	2 403,1	21 799,8	15 676,2	301 372,4
Used up - total	2 327,0	14 884,3	193,2	217 612,5
to production electrical and fuel energy				2 879,5
as a raw material for conversion into other kinds of energy		12,8		79,1
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		22,0		40,7
as a material for non - fuel needs		4,7	0,0	200,2

Continued

Items of balance	Jet fuel of gasoline type	Kerosene	Jet fuel of kerosene type	Gasoil
as a energy for own needs	2 327,0	14 844,8	193,1	214 413,0
Losses		9,4		77,4
Other consumption			14 132,1	
Released to population		1,7		58 458,1
Exports			660,4	2 343,8
Bunkers		6 236,0	613,5	31,0
Stock at the end of the year	76,1	668,5	77,0	22 849,6

Continued

Items of balance	Heating oil	Domestic heating fuel	Liquefied propane and butane	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases
Calorific conversion factor	41,510	42,500	45,590	45,590
Resources	202 985,6	13 221,9	127 567,0	44 939,9
Stock at the beginning of the year	9 627,2	761,6	5 799,4	12,7
Extracted (produced)	128 714,2	4 301,0	96 245,0	44 906,2
Received from aside from all the sources	64 637,2	8 159,4	25 446,4	
Import	7,0		76,1	21,1
Distribution	202 985,6	13 221,9	127 567,0	44 939,9
Used up - total	52 572,9	2 573,0	6 875,0	14 492,5
to production electrical and fuel energy	23 644,2	341,7	151,5	1 187,4
as a raw material for conversion into other kinds of energy	3 499,9	110,8		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	289,5	12,2	5,0	0,2
as a material for non - fuel needs	88,2	6,5	67,8	0,1
as a energy for own needs	25 051,0	2 101,7	6 650,7	13 304,8
Losses			646,5	
Other consumption				21 531,9
Released to population	198,7	361,2	28 351,5	
Exports	141 674,3	9 635,3	85 539,4	8 819,0
Bunkers				
Stock at the end of the year	8 539,6	652,4	6 154,6	96,5

Continued

Items of balance	Lean gas	Greased oil	Oil and shale coke	Oil and shale bitumen
Calorific conversion factor	45,590	41,800	36,400	41,800
Resources	425 759,6	9 286,9	14 252,2	27 042,4
Stock at the beginning of the year		2 906,8	479,5	1 522,2
Extracted (produced)	425 759,5	2 227,9	11 324,0	25 272,3
Received from aside from all the sources				
Import		4 152,1	2 448,6	247,8
Distribution	425 759,6	9 286,9	14 252,2	27 042,4
Used up - total	69 783,9	2 585,9	3 488,2	12 191,0
to production electrical and fuel energy	29 591,7	0,2		
as a raw material for conversion into other kinds of energy		140,6		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		1 233,9	3 488,2	2 914,6
as a material for non - fuel needs		127,9		5 927,1
as a energy for own needs	40 192,1	1 083,2		3 349,4
Losses	6 348,5			
Other consumption	349 623,6	5 941,9	3 581,5	13 529,2
Released to population		243,7	8,3	145,3
Exports	3,6	9,0	6 702,1	582,2
Bunkers				
Stock at the end of the year		506,4	472,1	594,7

Continued

Items of balance	Furnace gas	Coke gas	Gas produced by distillation at refineries	Shale-distilling
Calorific conversion factor	4,000	17,590	46,100	9,200
Resources	23 669,4	16 909,3	6 514,0	9,7
Stock at the beginning of the year			9,3	9,6
Extracted (produced)	23 669,2	16 909,3	6 504,7	
Received from aside from all the sources	0,2			0,1
Import				
Distribution	23 669,4	16 909,3	6 514,0	9,7
Used up - total	23 669,4	16 898,3	6 427,8	
to production electrical and fuel energy		1 272,5		
as a raw material for conversion into other kinds of energy			6 421,7	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products			6,1	
as a material for non - fuel needs	23 669,4			

Continued

Items of balance	Furnace gas	Coke gas	Gas produced by distillation at refineries	Shale-distilling
as a energy for own needs		15 625,7		
Losses				
Other consumption		11,0	76,9	
Released to population				
Exports				
Bunkers				
Stock at the end of the year			9,3	9,6

Continued

Items of balance	Tar	Oil easy distiller	Oil distillation products	Bio fuel
Calorific conversion factor	3,800	43,970	42,500	8,400
Resources	122,1	3 178,9	5 548,5	84,7
Stock at the beginning of the year		39,4	20,1	22,9
Extracted (produced)	122,0	3 139,5	896,8	33,6
Received from aside from all the sources			1 681,2	
Import	0,1		2 950,5	28,1
Distribution	122,1	3 178,9	5 548,5	84,7
Used up - total		51,3	110,9	31,6
to production electrical and fuel energy				
as a raw material for conversion into other kinds of energy		50,8	110,9	
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		0,4		31,6
Losses			0,9	
Other consumption	26,0	2 900,7		25,4
Released to population				
Exports	96,0		5 426,6	0,2
Bunkers				
Stock at the end of the year		226,9	10,2	27,6

Continued

Items of balance	Electric power	Heat energy	Hydropower produced by hydroelectric power plants	Wind electric power produced by wind power plants
Calorific conversion factor	3,600	4,187	3,600	3,600
Resources	302 316,8	351 875,5	41 834,8	989,9
Stock at the beginning of the year				
Extracted (produced)	297 569,6	351 875,5	41 834,8	989,9
Received from aside from all the sources				

Continued				
Items of balance	Electric power	Heat energy	Hydropower produced by hydroelectric power plants	Wind electric power produced by wind power plants
Import	4 747,0			
Distribution	302 316,8	351 875,5	41 834,8	989,9
Used up - total	219 886,3	195 658,9	9 875,6	20,0
to production electrical and fuel energy	10 916,3	795,0	159,8	
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	3 843,9	1 173,8		
as a material for non - fuel needs	0,5			
as a energy for own needs	205 125,5	193 689,9	9 715,8	20,0
Losses	19 111,9	31 794,5	118,6	
Other consumption	14 457,6	22 723,4	27 509,0	969,9
Released to population	39 603,4	101 698,8	4 331,6	
Exports	9 257,6			
Bunkers				
Stock at the end of the year				

Continued		
Items of balance	Solar electric power produced by solar power plants	Fuel and energy resources
Calorific conversion factor	3,600	
Resources	318,3	13 196 051,2
Stock at the beginning of the year		683 539,2
Extracted (produced)	318,3	9 794 487,1
Received from aside from all the sources		2 336 680,0
Import		381 344,9
Distribution	318,3	13 196 051,2
Used up - total	20,3	5 050 116,1
to production electrical and fuel energy		1 894 328,5
as a raw material for conversion into other kinds of energy		1 270 696,0
as a raw material for the production of chemical, petrochemical industries and other non - fuel products		49 501,0
as a material for non - fuel needs		481 187,9
as a energy for own needs	20,3	1 354 402,7
Losses		262 280,7
Other consumption	297,9	2 111 861,4
Released to population		678 306,4
Exports		4 488 571,1
Bunkers		6 917,8
Stock at the end of the year		597 997,8

2. Commodity markets of certain types of fuel and energy

Coal market including lignite

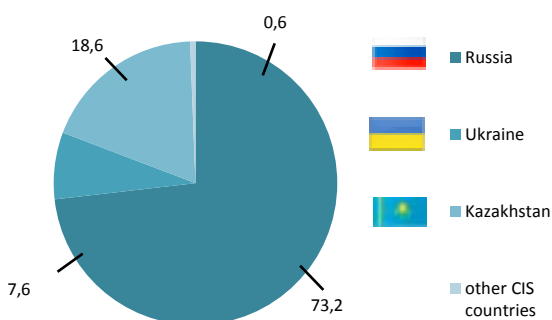
The share of coal in the natural resources total volume in 2012 - 34%, in 2013 - 33,7%, in 2014 - 35,2%, 2015 - 35%, 2016 - 34,2%. In the coal resources structure the share of the export in distribution in 2012 - 25,1%, in 2013 - 25,5%, in 2014 - 22,4%, 2015 - 17,9%, 2016 - 16,8%. Here with, the share of domestic market is: 72%, 71,6%, 74,7% up to 79,5%, 79,6 respectively.

2.1 Balances of resources and distribution of coal, including lignite

	thousands of tons				
	2012	2013	2014	2015	2016
Resources	131 042	132 735	141 091	160 470	155 024
Stock at the beginning of the year	10 301	12 932	14 459	14 280	13 903
Extracted (produced)	120 527	119 574	113 985	107 318	103 074
Received from aside from all the sources including imports	214	229	12 647	38 871	38 023
Distribution	131 042	132 735	141 091	160 470	155 024
Used up	65 356	66 976	70 834	72 284	70 674
conversion into other kinds of energy	51 470	52 262	54 181	50 505	51 412
production - technological and other needs	13 886	14 714	16 653	21 779	19 262
Losses	3 762	3 841	4 083	3 958	5 619
Released to other enterprises, population and for export	48 873	47 333	51 451	36 404	32 846
Stock at the end of the year	13 051	14 585	14 723	13 903	11 821

Extraction in the CIS countries in 2016

in percent to total



2.2 Consumption, export and import

thousands of tons

	Coal including lignite		
	consumption in the domestic market	export	import
Akmolinskaya	2 430	60,4	-
Aktubinskaya	159,1	1	-
Almatinskaya	1 356,2	0,7	1,0
Atyrauskaya	0,3	-	-
Zapadno-Kazakhstanskaya	11	-	-
Zhambylskaya	212,1	9,6	-
Karagandinskaya	31 867,1	6 578,7	5,6
Kostanaiskaya	1 597,9	-	-
Kyzylordinskaya	96,4	-	-
Mangistauskaya	93,5	-	-
Yuzhno-Kazakhstanskaya	1 234,3	0,1	0,3
Pavlodarskaya	25 205,6	18 759,2	-
Severo-Kazakhstanskaya	3 305,1	0,9	0,1
Vostochno-Kazakhstanskaya	4 094,4	581	18,3
Astana city	3 542,6	104,3	0,1
Almaty city	2 324,1	-	-

Crude oil market

Unrefined oil resources in 2016 where 80 mln. tons, including 65,6 mln. tons was mining in republic and 0,01 million tons import. From the total resources volume on domestic market consumption was 16,3 mln. tons and for exports was released 61 million tons. Republic oil market still has export raw orientation. Oil supplies implement generally to Italy (35,4%), Netherlands (12,5%), Switzerland (12,4%).

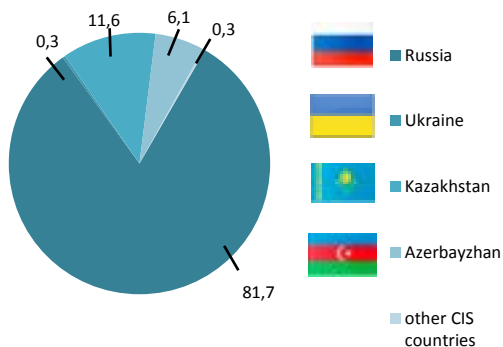
2.3 Balance of resources and distribution of crude oil

thousands of tons

	2012	2013	2014	2015	2016
Resources	75 866	79 963	71 996	80 593	80 039
Stock at the beginning of the year	3 219	3 217	3 292	2 743	2 161
Extracted (produced)	66 475	69 484	67 908	66 521	65 570
Received from aside from all the sources including imports	6 172	7 262	796	11 329	12 309
Distribution	75 866	79 963	71 996	80 593	80 039
Used up	15 128	16 666	16 503	15 706	16 271
conversion into other kinds of energy	104	98	11	12	13
production - technological and other needs	15 024	16 568	16 492	15 694	16 258
Losses	640	577	553	346	364
Released to other enterprises, population and for export	56 873	59 435	52 009	62 380	60 969
Stock at the end of the year	3 225	3 284	2 931	2 161	2 436

Oil extraction in the CIS countries in 2016

in percent to total



2.4 Consumption, export and import

thousands of tons

	Crude oil		
	consumption in the domestic market	export	import
Akmolinskaya	-	-	-
Aktubinskaya	123,3	3 126,3	-
Almatinskaya	-	-	-
Atyrauskaya	5 995,6	30 740,9	-
Zapadno-Kazakhstanskaya	39,6	9 724,1	7,0
Zhambylskaya	64,9	-	-
Karagandinskaya	1,0	-	-
Kostanaiskaya	-	-	-
Kyzylordinskaya	238,3	2 285,4	-
Mangistauskaya	634,9	12 046,3	-
Yuzhno-Kazakhstanskaya	4 682,8	527,3	-
Pavlodarskaya	4 490,2	-	-
Severo-Kazakhstanskaya	0,3	-	-
Vostochno-Kazakhstanskaya	-	-	-
Astana city	-	2 254,3	-
Almaty city	-	264,7	-

Natural gas market

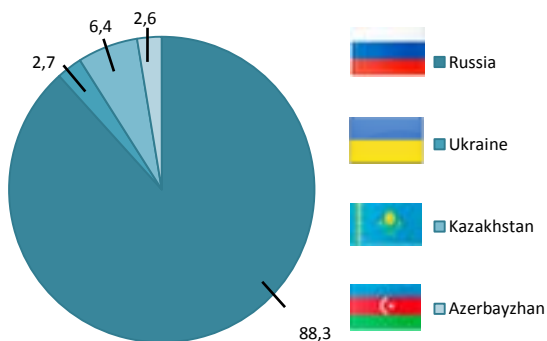
In 2016 natural gas resources for 36,5% by equity production, and for 19,8% by import from CIS countries. There is tendency the share of natural gas is increasing in total volume of natural resources (from 19,3% in 2012 up to 24,7% in 2016).

2.5 Balances of resources and natural gas distribution

	2012	2013	2014	2015	2016
	million m ³				
Resources	19 404	17 689	24 099	35 203	34 584
Stock at the beginning of the year	1 170	1 033	2 292	1 999	2 156
Extracted (produced)	10 890	11 273	11 698	12 008	12 614
Received from aside from all the sources including imports	7 344	5 383	10 109	21 195	19 813
Distribution	19 404	17 689	24 099	35 203	34 584
Used up	6 969	4 474	8 632	8 341	8 401
conversion into other kinds of energy	3 337	1 870	5 006	5 239	5 538
production - technological and other needs	3 632	2 604	3 626	3 102	2 863
Losses	132	153	198	245	180
Released to other enterprises, population and for export	11 270	10 770	12 968	24 460	24 241
Stock at the end of the year	1 033	2 292	2 301	2 156	1 761

Extraction in the CIS countries in 2016

in percent to total



2.6 Consumption, export and import

million m³

	Natural gas		
	consumption in the domestic market	export	import
Akmolinskaya	-	-	-
Aktubinskaya	-	-	-
Almatinskaya	271,2	-	-
Atyrauskaya	1 915	3 991,8	-
Zapadno-Kazakhstanskaya	1 095	-	-
Zhambylskaya	1 358,2	-	-
Karagandinskaya	-	-	-
Kostanaiskaya	919,8	-	-
Kyzylordinskaya	149	-	-
Mangistauskaya	3 431,5	-	-
Yuzhno-Kazakhstanskaya	1 279,5	-	-
Pavlodarskaya	-	-	-
Severo-Kazakhstanskaya	-	-	-
Vostochno-Kazakhstanskaya	3,4	459,2	-
Astana city	-	1 833,1	1 663
Almaty city	598,2	15 337,7	5 197

Electric power market

Electricity production was in 2012-83,6 mlr. kw/h, in 2013-87,6 mlr. kw/h, in 2014-86,9 mlr. kw/h, 2015-82,2 mlr. kw/h, 2016-82,7 mlr. kw/h. In 2016 export to Russia was 2,6 mlr. kw/h of electricity. Electricity from Russia supplies generally to the consumers of West Kazakhstan, but from Middle Asia to the consumers of South Kazakhstan. Thus, 1,3 mlr. kw/h of electricity was imported, thence 10,8% from Kyrgyzstan, 89,2% from Russia. Electricity consumption on domestic market of the country was in 2016-76,1 mlr. kw/h, it made 90,6% from the resources total volume. Electricity losses in 2016 where -6,3%.

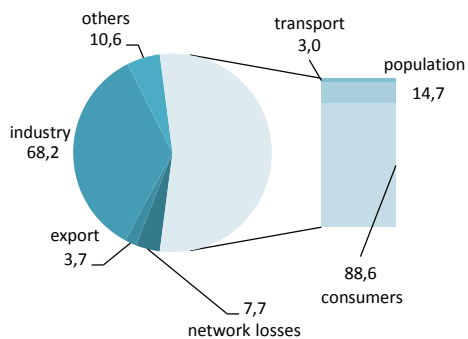
2.7 Balances of resources and electricity distribution

million kWh

	2012	2013	2014	2015	2016
Resources	87 819	89 249	87 543	83 816	83 977
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	83 567	87 631	86 936	82 198	82 658
Received from aside from all the sources including imports	4 252	1 618	607	1 618	1 319
Distribution	87 819	89 249	87 543	83 816	83 977
Used up	62 833	64 407	63 614	62 573	61 080
conversion into other kinds of energy	1 966	995	3 461	3 689	3 032
production - technological and other needs	60 867	63 412	60 153	58 884	58 047
Losses	7 142	11 174	7 061	5 150	5 309
Released to other enterprises, population and for export	17 844	13 669	16 868	12 729	13 573
Stock at the end of the year	-	-	-	-	-

Electricity consumption in 2016

in percent to total



2.8 Consumption, export and import by regions

million m³

	Electricity		
	consumption in the domestic market	export	import
Akmolinskaya	3 088,8	-	-
Aktubinskaya	4 945,3	-	5,3
Almatinskaya	1 214,6	-	-
Atyrauskaya	4 339,5	-	57,1
Zapadno-Kazakhstanskaya	1 785,2	-	59,8
Zhambylskaya	2 929,5	-	1,7
Karagandinskaya	12 061	-	-
Kostanaiskaya	3 821,2	-	-
Kyzylordinskaya	2 021,8	-	-
Mangistauskaya	4 389	-	-
Yuzhno-Kazakhstanskaya	3 419,3	-	-
Pavlodarskaya	16 393,2	1 493,4	-
Severo-Kazakhstanskaya	1 741	59,6	-
Vostochno-Kazakhstanskaya	4 893,4	-	-
Astana city	2 753,8	1 018,5	1 005,2
Almaty city	2 284	-	189,6

Heat energy market

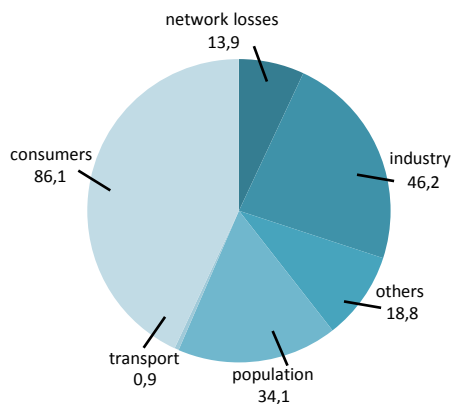
Heat energy supplies on republic domestic market. In 2012 the consumption was 89 million Gcal, in 2016-76,4 million Gcal. There are losses in 2012 and 2016-10,8 million Gcal, 7,6 mln. Gcal, that is in the percentage from the heat power resources total volume is – 10,8%, 9,0% respectively.

2.7 Balances of resources and electricity distribution

	thousands of Gcal				
	2012	2013	2014	2015	2016
Resources	99 852	94 743	98 890	83 124	84 040
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	99 852	94 743	98 890	83 124	84 040
Received from aside from all the sources including imports	-	-	-	-	-
Distribution	99 852	94 743	98 890	83 124	84 040
Used up	57 120	56 307	56 789	48 765	46 730
conversion into other kinds of energy	519	222	247	490	190
production - technological and other needs	56 602	56 086	56 542	48 275	46 540
Losses	10 806	8 852	9 053	6 968	7 593
Released to other enterprises, population and for export	31 926	29 584	33 048	20 596	24 289
Stock at the end of the year	-	-	-	-	-

Heat energy consumption in 2016

in percent to total



2.10 Consumption by regions

thousands of Gcal

	Heat energy	
	consumption in the domestic market	
Akmolinskaya	3 029,5	
Aktubinskaya	4 430,5	
Almatinskaya	2 161,9	
Atyrauskaya	5 488,4	
Zapadno-Kazakhstanskaya	2 392,7	
Zhambylskaya	1 494,5	
Karagandinskaya	10 048,9	
Kostanaiskaya	3 226,9	
Kyzylordinskaya	458,2	
Mangistauskaya	3 770,3	
Yuzhno-Kazakhstanskaya	1 239,5	
Pavlodarskaya	11 985,8	
Severo-Kazakhstanskaya	2 546,9	
Vostochno-Kazakhstanskaya	8 734,7	
Astana city	3 971,4	
Almaty city	6 039,4	

Oil products market

Demand for petroleum products is partially replenished by their imports. In 2016 In comparison with 2015, gasoil production increased by 3,7%, motor gasoline by 2,6%, propane and butane liquefied by 2,1%, fuel oil production by 20,5% decreased.

2.11 Balances of resources and motor gasoline distribution

thousands of tons

	2012	2013	2014	2015	2016
Resources	5 136	5 055	5 686	5 568	4 981
Stock at the beginning of the year	549	841	756	895	908
Extracted (produced)	2 877	2 738	3 023	2 864	2 939
Received from aside from all the sources including imports	1 710	1 476	1 907	1 809	1 134
Distribution	5 136	5 055	5 686	5 568	4 981
Used up	1 367	1 203	1 238,8	1 463	1 298
to production electrical and fuel energy	2,8	0,1	0,5	0,3	0,3
as a raw material for conversion into other kinds of energy	0,9			0,5	0,6
as a raw material for the production of chemical, petrochemical industries and other non - fuel products					
as a material for non - fuel needs	0,7	2,7	4,6	0,3	0,2
as a energy for own needs	1 362	1 200	1 234	1 462	1 297
Losses	12,1	24,3	11,1	3,7	3,3
Released to other enterprises, population and for export	2 911	2 993	3 360	3 193	3 033
Stock at the end of the year	847	835	1 075	908	511

2.12 Consumption and import

thousands of tons

	Motor gasoline	
	consumption in the domestic market	import
Akmolinskaya	203,3	17,1
Aktubinskaya	160,4	31,7
Almatinskaya	725,7	45,3
Atyrauskaya	276,2	1,0
Zapadno-Kazakhstanskaya	101	42,6
Zhambylskaya	279,1	-
Karagandinskaya	212,0	-
Kostanaiskaya	171,1	0,5
Kyzylordinskaya	183,6	-
Mangistauskaya	68,0	2,4
Yuzhno-Kazakhstanskaya	405,2	-
Pavlodarskaya	152,9	-
Severo-Kazakhstanskaya	113,4	160,8
Vostochno-Kazakhstanskaya	299,5	0,5
Astana city	371,3	51,9
Almaty city	608,2	780,5

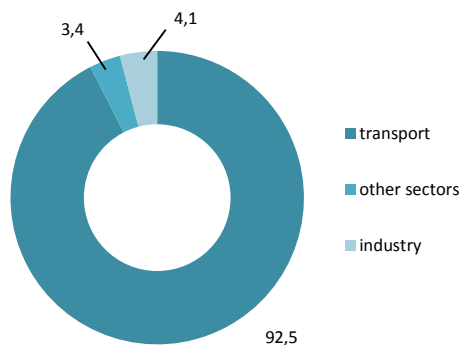
2.13 Balances of resources and distribution of kerosene

tons

	2012	2013	2014	2015	2016
Resources	535 611	604 810	626 010	530 484	504 507
Stock at the beginning of the year	37 613	67 280	71 447	52 541	27 915
Extracted (produced)	366 906	367 579	113 828	33 400	1 700
Received from aside from all the sources including imports	131 092	169 951	440 735	444 543	474 625
Distribution	535 611	604 810	626 010	530 484	268
Used up	458 798	511 787	504 641	422 241	504 507
to production electrical and fuel energy		1	3	2	
as a raw material for conversion into other kinds of energy		65	9	360	295
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	211	25	40	482	509
as a material for non - fuel needs	105	865	309	87	110
as a energy for own needs	458 482	510 831	504 280	421 311	343 550
Losses	84	231	612	209	216
Released to other enterprises, population and for export	6 970	20 982	43 146	176	39
Stock at the end of the year	69 759	71 810	77 611	27 915	15 470

Kerosene consumption in 2016

in percent to total



2.14 Consumption and import

thousands of tons

	Kerosene	
	consumption in the domestic market	import
Akmolinskaya	11,2	-
Aktubinskaya	0,3	0,3
Almatinskaya	0,7	-
Atyrauskaya	4,5	-
Zapadno-Kazakhstanskaya	-	-
Zhambylskaya	2,4	-
Karagandinskaya	8,9	-
Kostanaiskaya	0,1	-
Kyzylordinskaya	0,2	-
Mangistauskaya	0,2	-
Yuzhno-Kazakhstanskaya	3,9	-
Pavlodarskaya	1,0	-
Severo-Kazakhstanskaya	-	-
Vostochno-Kazakhstanskaya	1,9	-
Astana city	5,0	-
Almaty city	304,3	-

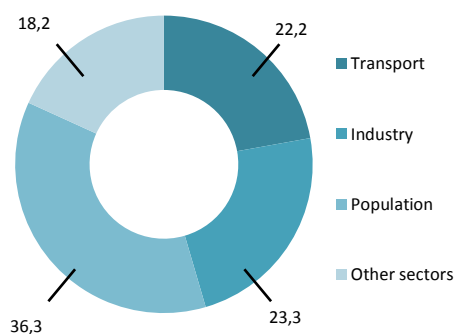
2.15 Balances of resources and gasoil distribution

thousands of tons

	2012	2013	2014	2015	2016
Resources	7 823	8 074	8 599	8 464	7 091
Stock at the beginning of the year	720	758	746	841	490
Extracted (produced)	4 714	5 140	5 039	4 488	4 652
Received from aside from all the sources including imports	2 389	2 176	2 814	3 135	1 949
Distribution	7 823	8 074	8 599	8 464	7 091
Used up	4 205	4 298	4 320	6 101	5 121
to production electrical and fuel energy	73,1	55,2	64,8	139	68
as a raw material for conversion into other kinds of energy	31,4	2,8	29,1	1,1	1,8
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,5	0,5	0,6	0,5	1
as a material for non - fuel needs	3,8	59,1	31,6	4	4,7
as a energy for own needs	4 096,4	4 180,9	4 194,1	5 957	5 045
Losses	20,8	60,9	11,0	1	1,8
Released to other enterprises, population and for export	2 831,4	2 030,2	3 260,4	1 856	1 431
Stock at the end of the year	765,3	784,8	1 007,9	491	538

Gasoil consumption in 2016

in percent to total



2.16 Consumption, export and import

thousands of tons

	Gasoil		
	consumption in the domestic market	export	import
Akmolinskaya	287		12,3
Aktubinskaya	290,7	2,4	45,1
Almatinskaya	878,1		5,4
Atyrauskaya	446,8	21,8	17,8
Zapadno-Kazakhstanskaya	113,6	21,1	22,5
Zhambylskaya	1 259,6		
Karagandinskaya	423		0,1
Kostanaiskaya	354,6		2,6
Kyzylordinskaya	273,7		0,5
Mangistauskaya	142,7		
Yuzhno-Kazakhstanskaya	318	0,1	
Pavlodarskaya	236		0,3
Severo-Kazakhstanskaya	207,2		57,9
Vostochno-Kazakhstanskaya	613,2		2,8
Astana city	211,7	0,1	17,4
Almaty city	440	9,6	249,8

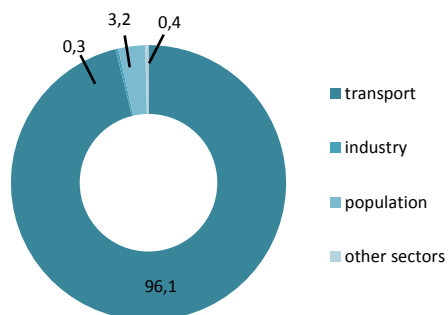
2.17 Balances of resources and heating oil distribution

thousands of tons

	2012	2013	2014	2015	2016
Resources	4 446	7 131	5 498	5 554	4 890
Stock at the beginning of the year	387	284	436	351	232
Extracted (produced)	3 936	3 734	3 877	3 899	3 101
Received from aside from all the sources including imports	123	3 113	1 186	1 304	1 557
Distribution	4 446	7 131	5 498	5 554	4 890
Used up	1 551	1 288	1 176	1 314	1 267
to production electrical and fuel energy	405	369	554	535	570
as a raw material for conversion into other kinds of energy	75	61	11,1	80	84
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,1	0,9	1,9	4,6	7
as a material for non - fuel needs	3,1	1,1	6,1	1,6	2
as a energy for own needs	1 067	857	603	693	603
Losses	0,1	0,2	0,6		
Released to other enterprises, population and for export	2 612	5 394	3 952	4 008	3 418
Stock at the end of the year	284	449	370	232	206

Heating oil consumption in 2016

in percent to total



2.18 Consumption, export and import

thousands of tons

	Heating oil		
	consumption in the domestic market	export	import
Akmolinskaya	34,9	-	-
Aktubinskaya	-	24,9	-
Almatinskaya	59,7	-	-
Atyrauskaya	2,1	1822,7	-
Zapadno-Kazakhstanskaya	0,1	-	-
Zhambylskaya	235	-	-
Karagandinskaya	406	-	-
Kostanaiskaya	21,5	0,2	-
Kyzylordinskaya	35	16,3	-
Mangistauskaya	0,5	-	-
Yuzhno-Kazakhstanskaya	99,3	1 363,6	-
Pavlodarskaya	310,6	106,9	0,1
Severo-Kazakhstanskaya	10	-	-
Vostochno-Kazakhstanskaya	38	-	-
Astana city	8,5	6,8	-
Almaty city	10,2	71,5	-

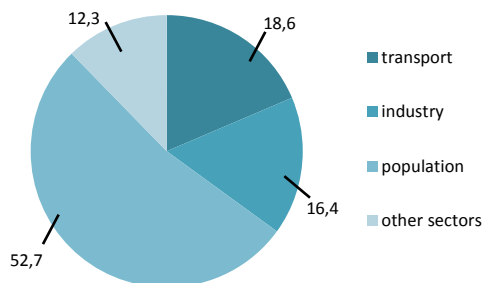
2.19 Balances of resources and distribution of domestic heating fuel

thousands of tons

	2012	2013	2014	2015	2016
Resources	264	195	389	812	311
Stock at the beginning of the year	38	25	23	34	18
Extracted (produced)	176	158	243	186	101
Received from aside from all the sources including imports	50	12	124	592	192
Distribution	264	195	389	812	311
Used up	91	79	105	71	61
to production electrical and fuel energy	17	3	11	7	8
as a raw material for conversion into other kinds of energy	-	-	2	2	3
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	1	-	0,3	0,2
as a material for non - fuel needs			1		0,1
as a energy for own needs	74	75	91	61	49
Losses					
Released to other enterprises, population and for export	145	88	154	723	235
Stock at the end of the year	28	29	131	18	15

Domestic heating fuel consumption in 2016

in percent to total



2.20 Consumption and export

thousands of tons

	Domestic heating fuel	
	consumption in the domestic market	export
Akmolinskaya	11,3	-
Aktubinskaya	0,5	0,5
Almatinskaya	3,7	-
Atyrauskaya	-	17,8
Zapadno-Kazakhstanskaya	1,8	117,2
Zhambylskaya	2,5	2,4
Karagandinskaya	11,6	-
Kostanaiskaya	3,3	-
Kyzylordinskaya	0,2	-
Mangistauskaya	4,6	69,8
Yuzhno-Kazakhstanskaya	0,7	-
Pavlodarskaya	-	-
Severo-Kazakhstanskaya	8	-
Vostochno-Kazakhstanskaya	7,7	-
Astana city	12,6	1,3
Almaty city	0,6	17,7

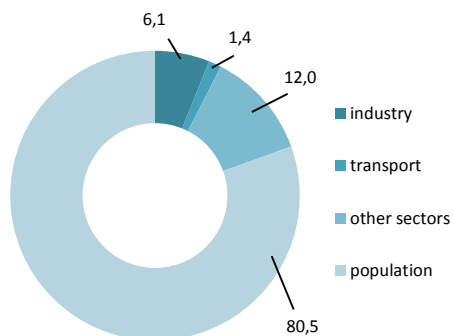
2.21 Balances of resources and distribution of liquefied propane and butane

thousands of tons

	2012	2013	2014	2015	2016
Resources	2 189	2 833	2 791	2 914	2 798
Stock at the beginning of the year	77	109	119	127	127
Extracted (produced)	2 057	2 202	2 388	2 068	2 111
Received from aside from all the sources including imports	55	521	283	718	560
Distribution	2 189	2 833	2 791	2 914	2 798
Used up	162	187	194	314	151
to production electrical and fuel energy	1,5	2,9	3,5	3,6	3,3
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	5,0	0,2	0,1	0,1	0,1
as a material for non - fuel needs	1,1	5,8	2,7	0,3	1,5
as a energy for own needs	155	179	187	310	146
Losses	12,5	35,6	17	16	14
Released to other enterprises, population and for export	1 904	2 486	2 444	2 457	2 498
Stock at the end of the year	109	124	136	127	135

Domestic heating fuel consumption in 2016

in percent to total



2.22 Consumption, export and import

thousands of tons

	Liquefied propane and butane		
	consumption in the domestic market	export	import
Akmolinskaya	35,9	-	-
Aktubinskaya	56,5	233,4	-
Almatinskaya	175,3	60,2	0,1
Atyrauskaya	23,1	1 194	-
Zapadno-Kazakhstanskaya	17,2	-	-
Zhambylskaya	10,7	2,1	-
Karagandinskaya	46,7	-	-
Kostanaiskaya	16,8	-	-
Kyzylordinskaya	35,8	3	-
Mangistauskaya	59,5	-	-
Yuzhno-Kazakhstanskaya	73,1	37,6	-
Pavlodarskaya	262	37,4	-
Severo-Kazakhstanskaya	29,1	-	0,1
Vostochno-Kazakhstanskaya	7,4	-	-
Astana city	25,1	37,1	1,5
Almaty city	18,8	271,1	-

2.23 Balances of resources and distribution of oil and shale bitumen

thousands of tons

	2012	2013	2014	2015	2016
Resources	822,0	818,4	689,8	648,5	646,9
Stock at the beginning of the year	59,7	45,1	42,3	45,5	36,4
Extracted (produced)	286,6	331,5	602,2	599,9	604,6
Received from aside from all the sources including imports	475,7	441,8	45,3	3,1	6,5
Distribution	822,0	818,4	689,8	648,5	646,9
Used up	478,7	403,3	403,7	362,1	291,7
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	114,1	91,4	78,0	63,7	69,7
as a material for non - fuel needs	275,4	198,9	242,2	171,5	141,8
as a energy for own needs	89,2	113,0	83,6	127,0	80,1
Losses					
Released to other enterprises, population and for export	298,3	377,8	215,2	73,5	17,4
Stock at the end of the year	45,0	37,3	70,8	36,4	14,2

2.24 Consumption, export and import

thousands of tons

	Oil and shale bitumen		
	consumption in the domestic market	export	import
Akmolinskaya	10,4		0,1
Aktubinskaya	20,9		
Almatinskaya	33		
Atyrauskaya			
Zapadno-Kazakhstanskaya	1,4		
Zhambylskaya	12,8		
Karagandinskaya	18,4		
Kostanaiskaya	15,7		
Kyzylordinskaya	31,3		
Mangistauskaya	10,2		
Yuzhno-Kazakhstanskaya	18,6	12,6	
Pavlodarskaya	16,7		
Severo-Kazakhstanskaya	14,1		2,2
Vostochno-Kazakhstanskaya	22,5		3,5
Astana city	23,1		
Almaty city	46,1	1,3	

3. Consumption of fuel and energy resources by types of economic activity in 2016

Items of balance	Stone coal of coke, tons	Stone coal of energy, tons	Stone coal of energy with high ash, tons	Other coal	Lignite (brown coal), tons
Agriculture, forestry and fishing	932,8	95 433,5	118 039,8		6 676,8
Fishery and aquaculture					
The mining industry and working out of open - cast mines	8 016,0	1 691 912,1	23 718,9	9 171,6	15 889,2
Manufacturing industry	11 460 325,0	4 474 865,5	747 523,1	1 601 344,2	37 518,8
Electrical supply, giving of gas, steam and air - conditioning	2 401,0	33 120 727,8	9 459 400,8	1 131 422,2	342 671,6
Construction	3 601,7	35 140,3	11 558,0		1 335,7
Wholesale and retail trade; car and motorcycles repairs	1 758,2	58 089,1	9 596,6	2 974,6	6 625,3
Land transport and pipeline transportation	571,5	29 436,6	3 153,9		2 153,0
Water transport					568,8
Air transport	80,5				
Warehousing and auxiliary transport activity	210,0	30 609,1	11 430,4		915,7
Information and communication	927,0	3 366,0	340,1	69,0	
Financial and insurance activities		284,8	177,2	59,0	
Real estate operations	173,7	27 711,2	23 313,0	1 455,0	52,0
Governance and defence; obligatory social security	12 706,2	161 245,3	124 729,1	18 594,1	3 124,2
Education	21 126,1	279 011,3	324 091,8	37 300,7	45 461,2
Public health services and social services	3 204,2	97 254,5	85 956,3	25 517,1	11 035,6
Other services provision	130,0	2 795,8	890,7	797,7	218,0

Continued

Items of balance	Crude oil, tons	Gas condensate, tons	Natural gas, thousands of cubic metre	Associated petroleum gas, thousands of cubic metre
Agriculture, forestry and fishing			17 808,9	8 954,2
Fishery and aquaculture				
The mining industry and working out of open - cast mines	1 577 644,5	306 112,6	764 381,5	17 717 199,7
Manufacturing industry	14 580 594,9	183 740,5	997 828,0	994 091,9
Electrical supply, giving of gas, steam and air - conditioning			5 043 814,4	1 129 561,2
Construction	45,4		31 440,2	4 225,9
Wholesale and retail trade; car and motorcycles repairs	55 192,2		22 161,9	2 649,9
Land transport and pipeline transportation	3 142,4		330 405,9	2 680,1
Water transport			217,0	
Air transport			32,9	110,0

Continued

Items of balance	Crude oil, tons	Gas condensate, tons	Natural gas, thousands of cubic metre	Associated petroleum gas, thousands of cubic metre
Warehousing and auxiliary transport activity	46 804,9	417,0	9 969,5	2 559,4
Information and communication			1 676,9	358,0
Financial and insurance activities			13 589,8	689,1
Real estate operations			28 391,9	6 854,5
Governance and defence; obligatory social security			445 426,5	4 375,3
Education			182 092,2	15 268,6
Public health services and social services			45 672,4	6 921,1
Other services provision			3 809,6	1 014,7

Continued

Items of balance	Coke and semi coke of coal, tons	Sawdust and wood waste, tons	Wood coal, tons	Aviation gasoline, tons
Agriculture, forestry and fishing		1 827,2		86,9
Fishery and aquaculture				
The mining industry and working out of open - cast mines	29 459,6			46,5
Manufacturing industry	3 764 448,5	1 532,5	13 347,3	12,6
Electrical supply, giving of gas, steam and air - conditioning	10,5		15 397,0	
Construction		16,9	2,2	4,1
Wholesale and retail trade; car and motorcycles repairs		406,0	13 050,1	7,5
Land transport and pipeline transportation	0,3	6,7	13,0	
Water transport				
Air transport				22 370,8
Warehousing and auxiliary transport activity		79,7		13,2
Information and communication		47,0		
Financial and insurance activities		14,7		
Real estate operations		645,7		7,0
Governance and defence; obligatory social security		5 517,1	570,7	
Education		2 065,3	18 424,8	
Public health services and social services		1 538,9	2 054,5	93,2
Other services provision		695,0	8,0	

Continued

Items of balance	Motor gasoline, tons	Jet fuel of gasoline type, tons	Kerosene, tons	Jet fuel of kerosene type, tons
Agriculture, forestry and fishing	67 430	55,0	486,0	
Fishery and aquaculture				
The mining industry and working out of open - cast mines	219 914,4	53,0	761,1	21,7
Manufacturing industry	93 895,7		13 020,1	
Electrical supply, giving of gas, steam and air - conditioning	27 367,1		69,0	
Construction	288 269,8	1,1	130,6	
Wholesale and retail trade; car and motorcycles repairs	110 698,3		8,9	0,2
Land transport and pipeline transportation	69 828,6		27,5	0,9
Water transport	286,0			
Air transport	1 192,1	53 036,2	304 678,5	1 232,9
Warehousing and auxiliary transport activity	31 737,2		14 075,0	2 240,2
Information and communication	13 290,7			
Financial and insurance activities	42 041,2			
Real estate operations	5 902,6			
Governance and defence; obligatory social security	98 865,4	3,2	11 159,9	
Education	18 792,6	11,2		975,0
Public health services and social services	46 046,0		2,0	
Other services provision	5 922,2			

Continued

Items of balance	Gasoil, tons	Heating oil, tons	Domestic heating fuel, tons	Liquefied propane and butane, tons
Agriculture, forestry and fishing	447 623,7	152,5	579,4	4 709,8
Fishery and aquaculture				
The mining industry and working out of open - cast mines	801 654,2	5 478,6	2 107,8	2 428,1
Manufacturing industry	856 329,5	789 530,6	10 621,5	85 474,7
Electrical supply, giving of gas, steam and air - conditioning	101 074,5	427 244,3	115,0	4 802,4
Construction	1 854 204,3	11 344,8	10 591,3	16 854,4
Wholesale and retail trade; car and motorcycles repairs	160 636,0	758,9	4 153,2	13 010,3
Land transport and pipeline transportation	355 407,6	419,9	868,5	7 781,1
Water transport	6 326,9			10,4
Air transport	1 641,2			
Warehousing and auxiliary transport activity	247 315,7	3 690,5	10 371,9	2 473,4
Information and communication	6 440,2			762,1

Continued

Items of balance	Gasoil, tons	Heating oil, tons	Domestic heating fuel, tons	Liquefied propane and butane, tons
Financial and insurance activities	3 633,7		22,1	11,4
Real estate operations	19 409,2	10 062,5	6 560,0	379,0
Governance and defence; obligatory social security	21 901,3	112,6	10 038,5	1 115,9
Education	60 240,4	1 478,0	1 588,9	349,5
Public health services and social services	22 212,1	666,0	1 666,5	3 836,8
Other services provision	615,9	1,6	15,0	33,9

Continued

Items of balance	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases, tons	Lean gas, thousands of cubic metre	Greased oil, tons	Oil and shale bitumen coke, tons
Agriculture, forestry and fishing			2 354,1	
Fishery and aquaculture				
The mining industry and working out of open - cast mines		1 461 108,1	2 990,4	
Manufacturing industry	316 887,5	69 567,0	42 228,7	95 829,5
Electrical supply, giving of gas, steam and air - conditioning	39,7		577,5	
Construction	5,0		8 365,9	
Wholesale and retail trade; car and motorcycles repairs	73,2	8,7	408,1	
Land transport and pipeline transportation	86,0		1 842,5	
Water transport			1 260,2	
Air transport			2,0	
Warehousing and auxiliary transport activity	8,1		924,4	
Information and communication			54,8	
Financial and insurance activities			0,2	
Real estate operations			53,4	
Governance and defence; obligatory social security	2,8		265,0	
Education	3,0		8,3	
Public health services and social services			8,6	
Other services provision				

Continued

Items of balance	Oil and shale bitumen, tons	Oil easy distiller, tons	Oil distillation products, tons	Bio fuel, tons
Agriculture, forestry and fishing	1,0			1 958,8
Fishery and aquaculture				
The mining industry and working out of open - cast mines	10 111,1			
Manufacturing industry	95 727,3	1 156,0	2 496,6	
Electrical supply, giving of gas, steam and air - conditioning	72,4			
Construction	163 522,7			
Wholesale and retail trade; car and motorcycles repairs	2 458,4	10,0		
Land transport and pipeline transportation	17 000,0			
Water transport				
Air transport				
Warehousing and auxiliary transport activity	1 063,3		112,3	
Information and communication				
Financial and insurance activities				
Real estate operations				
Governance and defence; obligatory social security				
Education				1 554,4
Public health services and social services				246,0
Other services provision				

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	620 028,9	779,0	1 526,1	5 153,7	11,8
Fishery and aquaculture					
The mining industry and working out of open - cast mines	12 193 822,8	4 292,6	830,9	2,5	2 132,1
Manufacturing industry	29 168 427,6	19 929,5	2 642 608,6		3 396,2
Electrical supply, giving of gas, steam and air - conditioning	9 541 410,5	8 638,1	83 721,3		
Construction	453 226,4	316,3	5 591,4		7,8
Wholesale and retail trade; car and motorcycles repairs	582 025,7	478,4	515,9		17,0
Land transport and pipeline transportation	1 372 510,8	355,5	41,5	382,5	1,7
Water transport	3 719,8	0,2			
Air transport	3 363,0	0,1			

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
Warehousing and auxiliary transport activity	879 568,9	269,1	390,7		
Information and communication	291 622,8	175,1	80,0	24,0	32,2
Financial and insurance activities	141 165,8	200,6			
Real estate operations	962 755,8	1 700,6	422,2		
Governance and defence; obligatory social security	647 274,5	1 253,5	311,3		38,0
Education	1 146 725,4	4 009,5	946,3		
Public health services and social services	482 605,1	1 580,7	508,2		
Other services provision	29 832,7	109,6			

4.1 Main energy indicators

4.1 Main energy indicators

	2012	2013	2014	2015	2016
Energy intensity, toe per thousand usd in prices 2000 y.	1,62	1,69	1,52	1,53	1,54
Energy intensity, toe per thousand usd in prices 2010 y.	0,44	0,46	0,42	0,42	0,42
Total Final Energy consumption, thousand toe	41 686	42 907	36 599	38 416	42 601
Total Primary Energy Supply, thousand toe	73 866	81 542	76 667	78 091	79 249

4.2 Total final consumption

thousand toe

	2012	2013	2014	2015	2016
Agriculture, forestry and fishing	850	786	896	730	934
Industry	22 752	24 461	16 474	19 141	20 762
Transport	5 238	4 935	4 883	5 349	6 604
Services	2 469	3 745	3 798	4 310	4 593

4.3 Total primary supply

thousand toe

	2012	2013	2014	2015	2016
Crude oil	17 333	22 117	18 748	18 059	20 595
Coal	37 856	37 479	37 035	34 239	35 653
Natural gas	22 324	25 407	25 952	27 450	25 596

4.4 Energy intensity of GRP in Kazakhstan

toe per thousand US dollars in prices 2000

	2012	2013	2014	2015	2016
Republic of Kazakhstan	1,62	1,69	1,52	1,53	1,54
Akmolinskaya	0,51	0,67	0,62	0,39	0,45
Aktubinskaya	2,31	3,55	3,36	3,43	3,41
Almatinskaya	0,20	0,21	0,20	0,13	0,14
Atyrauskaya	1,92	1,53	1,43	1,42	1,46
Vostochno-Kazakhstanskaya	0,88	0,82	0,68	0,80	0,84
Zhambylskaya	0,31	1,0	0,24	0,37	0,24
Zapadno-Kazakhstanskaya	4,08	5,15	4,72	5,46	5,68
Karagandinskaya	3,77	3,54	3,06	2,70	2,69
Kostanaiskaya	0,03	0,01	0,01	0,05	0,02
Kyzylordinskaya	5,69	5,08	5,00	5,40	5,96
Mangistauskaya	2,79	4,07	3,96	4,14	4,15
Pavlodarskaya	6,58	6,49	5,94	6,22	6,31
Severo-Kazakhstanskaya	0,37	0,54	0,50	0,42	0,22
Yuzhno-Kazakhstanskaya	0,11	0,47	0,49	0,71	0,70
Almaty city	0,14	0,12	0,13	0,12	0,11
Astana city	0,04	0,20	0,19	0,10	0,09

5. Number of heat sources in 2016

units

	Sources of heat supply	Including power, Gkal/h				Of which	Installed boilers (power plants)
		under 3	from 3,1 to 20	from 20,1 to 100	over 100,1	being in lease and concessions	
Republic of Kazakhstan	2 207	1 365	545	184	113	59	5 477
Akmolinskaya	371	271	85	10	5	5	919
Aktubinskaya	245	159	54	28	4	x	561
Almatinskaya	93	55	18	17	3		190
Atyrauskaya	67	41	9	12	5		99
Zapadno-Kazakhstanskaya	135	61	44	5	25		352
Zhambylskaya	142	84	39	15	4	3	395
Karagandinskaya	120	56	38	17	9	26	432
Kostanaiskaya	127	89	26	4	8		366
Kyzylordinskaya	72	46	21	x	x		93
Mangistauskaya	153	98	40	8	7		205
Yuzhno-Kazakhstanskaya	75	42	18	x	x	x	128
Pavlodarskaya	100	58	32	2	8	3	310
Severo-Kazakhstanskaya	121	96	18	-	7	x	295
Vostochno-Kazakhstanskaya	120	49	40	22	9	12	422
Astana city	33	13	16	x	x	x	104
Almaty city	233	147	47	31	8	5	606

6. The length of thermal and steam networks in 2016

kilometr

	Length of networks in two-pipe calculation	Including diameter, millimetr			
		under 200	from 201 to 400	from 401 to 600	over 600
Republic of Kazakhstan	11 386,7	7 438,2	1 978,0	1 001,3	969,3
Akmolinskaya	928,4	662,3	166,5	62,5	37,1
Aktubinskaya	532,6	350,3	124,4	25,4	32,5
Almatinskaya	582,0	433,3	87,3	40,9	20,5
Atyrauskaya	290,5	212,0	x	x	8,8
Zapadno-Kazakhstanskaya	367,3	258,2	53,9	40,2	15,0
Zhambylskaya	588,6	397,5	101,6	x	x
Karagandinskaya	1 616,5	798,1	360,9	220,4	237,2
Kostanaiskaya	815,8	597,1	99,6	83,5	35,7
Kyzylordinskaya	237,1	136,8	57,1	23,9	19,3
Mangistauskaya	580,5	408,6	106,7	35,8	29,4
Yuzhno-Kazakhstanskaya	368,0	187,4	48,6	69,4	62,6
Pavlodarskaya	1 085,0	723,5	200,5	73,3	87,6
Severo-Kazakhstanskaya	361,1	237,1	63,6	x	x
Vostochno-Kazakhstanskaya	1 029,5	656,8	228,3	91,6	52,9
Astana city	631,5	326,9	x	x	141,9
Almaty city	1 372,1	1 052,4	137,9	71,5	110,2

7. Expenditures of population of the Republic of Kazakhstan for paid services

average per capita, tenge

	2012	2013	2014	2015	2016
Electricity	5 854	6 483	7 027	7 750	8 322
Cold water	1 537	1 714	1 941	2 121	2 406
Hot water	1 151	1 271	1 314	1 361	1 471
Central heating	3 368	3 969	4 052	4 258	4 414
Gas transported through distribution networks	2 085	2 315	2 642	3 060	3 648
Payment for liquefied gas	1 935	2 007	2 002	1 781	1 763
Liquid fuel for heating living quarters	15	4	13	10	6
Liquid fuel for illumination of residential premises	0,2		0,2	0,1	3
Hard coal	4 523	4 308	4 726	4 656	4 483
Firewood	1 175	1 271	1 307	1 379	1 343
Peat	1				
Other solid fuels	37	24	28	30	32

8. The price index of enterprises manufacturing industrial products for energy resources

at the end of the period, in percent to December of the previous year

	2012	2013	2014	2015	2016
Energy resources - total	104,1	99,0	94,1	85,2	114,9
Raw materials	103,4	98,5	92,7	81,2	114,7
crude oil	102,8	98,1	93,2	82,5	161,4
natural gas in the gaseous state	108,0	100,6	113,1	99,6	98,1
coal and lignite mining	107,6	103,8	104,3	107,7	101,4
Manufacture of refined petroleum products	108,3	100,9	102,0	105,8	125,3
Electricity	113,6	106,6	107,3	111,8	108,8

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

	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	94 642 384,0	11 984 149,8	11 620 763,9	274 982,8	88 403,1	12,7
Akmolinskaya	883 541,5	153 006,1		152 971,3	34,8	17,3
Aktubinskaya	3 790 890,8	0,0				
Almatinskaya	4 291 211,0	3 096 975,7	3 092 499,7	1 367,0	3 109,0	72,2
Atyrauskaya	4 556 729,2	0,3		0,3		
Vostochno-Kazakhstanskaya	9 930 542,5	7 879 484,4	7 879 483,6	0,6	0,2	79,3
Zhambylskaya	2 895 058,9	265 942,0	69 552,0	116 728,0	79 662,0	9,2
Zapadno-Kazakhstanskaya	1 705 873,6	0,0				
Karagandinskaya	14 033 276,6	4 419,9	4 419,9			
Kostanaiskaya	1 299 918,0	0,0				
Kyzylordinskaya	1 566 609,0	1 404,1			1 404,1	0,1
Mangistauskaya	5 283 002,1	0,0				
Pavlodarskaya	34 205 013,3	8,7			8,7	
Severo-Kazakhstanskaya	3 229 236,5	21 368,5	17 454,7	3 913,8		0,7
Yuzhno-Kazakhstanskaya	990 405,3	350 337,5	346 156,0		4 181,5	35,4
Almaty city	3 210 651,1	211 198,0	211 198,0			6,6
Astana city	2 770 424,6	4,6		1,8	2,8	

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

thousands of kWh

	2012	2013	2014	2015	2016
Released, total	82 990 093,3	79 091 712,5	85 304 858,3	84 109 582,5	86 327 001,6
including:					
Agriculture	1 845 263,2	1 222 579,6	1 197 622,0	1 163 282,0	1 175 810,0
Industry	57 656 162,3	54 466 817,9	57 740 298,6	58 455 957,0	60 953 876,7
of which:					

Continued

	2012	2013	2014	2015	2016
for production needs of the power plant	8 934 893,9	7 981 932,0	8 943 227,3	7 760 709,4	8 193 632,8
Construction	1 353 641,2	1 216 878,3	1 205 950,6	1 190 763,4	1 202 671,0
Trade	1 887 573,6	2 021 057,5	2 560 518,5	2 537 018,5	2 248 371,2
Services for accommodation and meals, information and communication	761 495,5	896 838,4	1 043 590,2	1 017 599,9	995 724,7
For lighting apartments and other housing needs of population	10 085 385,0	10 549 649,9	11 360 477,7	9 992 432,0	10 296 914,6
of which:					
urban population	7 061 757,0	7 204 777,1	7 744 390,4	6 353 235,6	6 648 332,5
rural population	3 023 628,0	3 344 872,8	3 616 087,3	3 639 196,4	3 648 582,1
On street lighting	706 431,5	703 667,5	830 942,8	759 677,7	684 454,5
of which:					
in urban areas	608 657,0	596 133,6	616 162,4	567 368,2	573 041,9
in rural areas	97 774,5	107 533,9	214 780,4	192 309,5	111 412,6
Transport and storage	4 612 358,0	4 129 033,5	4 429 169,1	4 362 130,6	4 221 217,6
Government agencies, financial and insurance activities, real estate transactions	1 487 131,2	1 429 271,4	1 650 944,6	1 569 211,8	1 540 412,4
Professional, scientific and technical activities, administrative and support services	207 525,5	187 577,3	643 898,1	619 446,6	605 220,8
Education	877 921,4	898 322,7	1 070 468,5	921 608,7	940 959,6
Health and social services, art, entertainment and recreation	1 485 922,1	1 370 018,5	1 570 977,6	1 520 454,3	1 461 368,7
Loss of electricity	8 915 739,6	11 143 868,2	7 017 217,4	7 119 268,1	7 190 460,8

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

million tonnes of oil equivalent

	Natural gas			Coal			Crude oil		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
Total World including:	3 073,0	3 146,7	3 204,1	3 889,4	3 784,4	3 732,0	4 254,8	4 341,0	4 418,2
OECD	1 434,8	1 464,9	1 495,2	1 040,9	972,7	913,3	2 036,7	2 062,4	2 086,8
European Union	344,7	359,2	385,9	268,4	261,1	238,4	590,8	600,6	613,3
Total North America	862,0	881,2	886,8	486,0	424,2	386,9	1 026,6	1 040,0	1 046,9
including:									
US	690,0	710,5	716,3	453,5	391,8	358,4	838,1	856,5	863,1
Canada	93,8	92,2	89,9	19,7	19,6	18,7	103,1	99,1	100,9
Mexico	78,1	78,4	80,6	12,7	12,7	9,8	85,4	84,4	82,8
Total S./Cent.America	152,0	158,3	154,7	36,1	35,9	34,7	336,5	334,4	326,2
of which:									
Argentina	42,5	43,4	44,6	1,5	1,4	1,1	31,3	32,2	31,9
Brazil	35,6	37,5	32,9	17,5	17,7	16,5	150,6	146,6	138,8
Venezuela	27,7	31,1	32,0	0,2	0,2	0,1	33,6	30,2	28,7
Total Europe& Eurasia	905,0	909,2	926,9	487,3	471,3	451,6	858,8	865,9	884,6

Continued

	Natural gas			Coal			Crude oil		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
of which:									
United Kingdom	60,0	61,3	69,0	29,7	23,0	11,0	69,8	71,8	73,1
Germany	63,5	66,2	72,4	79,6	78,5	75,3	110,4	110,0	113,0
Italy	50,7	55,3	58,1	13,1	12,3	10,9	55,8	57,6	58,1
France	32,6	35,1	38,3	8,6	8,4	8,3	76,9	76,8	76,4
Netherlands	28,6	28,3	30,2	9,1	11,0	10,3	39,6	38,7	39,9
Romania	9,5	9,0	9,5	5,7	5,9	5,4	9,0	9,2	9,5
Belgium	12,4	13,6	13,9	3,3	3,2	3,0	29,7	31,0	31,8
Azerbaijan	8,5	9,6	9,4				4,4	4,5	4,6
Belarus	16,5	14,0	15,3	0,8	0,7	0,8	8,1	7,7	7,5
Kazakhstan	25,6	27,5	25,6	37,0	34,2	35,7	18,7	18,1	20,6
Russian Federation	368,7	362,5	351,8	87,6	92,2	87,3	152,3	144,2	148,0
Turkmenistan	23,0	26,5	26,6				6,5	6,6	6,7
Ukraine	33,1	25,9	26,1	35,6	27,3	31,5	10,3	9,2	9,1
Uzbekistan	43,9	45,2	46,2	1,2	1,1	1,0	2,7	2,7	2,8
Total Middle East	414,7	444,3	461,1	10,8	10,2	9,3	408,4	412,8	417,8
of which:									
Saudi Arabia	92,1	94,0	98,4	0,1	0,1	0,1	159,8	166,6	167,9
Iran	165,3	171,7	180,7	1,6	1,6	1,7	90,4	84,5	83,8
United Arab Emirates	59,3	66,4	69,0	1,5	1,3	1,3	38,6	40,9	43,5
Total Africa	114,3	122,2	124,3	102,3	95,3	95,9	177,5	182,1	185,4
of which:									
Algeria	33,7	35,5	36,0	0,2	0,1	0,1	17,7	19,5	18,9
Egypt	43,2	43,0	46,1	0,4	0,4	0,4	38,3	39,6	40,6
South Africa	4,5	4,6	4,6	89,8	83,4	85,1	27,0	27,9	26,9
Total Asia Pacific	624,9	631,6	650,3	2 767,0	2 747,7	2 753,6	1 447,0	1 505,8	1 557,3
of which:									
Australia	34,4	38,6	37,0	42,6	44,1	43,8	48,1	47,9	47,8
China	169,6	175,3	189,3	1 954,5	1 913,6	1 887,6	528,0	561,8	578,7
India	43,9	41,2	45,1	387,5	396,6	411,9	180,8	195,8	212,7
Japan	106,2	102,1	100,1	119,1	119,9	119,9	197,0	189,0	184,3

12. Consumption of fuel and energy resources in transport

12.1 Consumption of certain types of fuel and energy resources by transport enterprises

	tons				
	2012	2013	2014	2015	2016
Hard coal	120 496	81 169	94 867	106 200	92 512
including enterprises:					
railway transport	13 299	9 048	18 218	18 442	17 193
automobile and city electric transport	13 142	13 446	7 122	17 056	7 151
water transport					
air transport	429	76	88	81	81

Continued

	2012	2013	2014	2015	2016
warehousing and auxiliary transport activity	93 626	58 599	52 446	63 802	47 168
Crude oil	42 289	59 696	139 635	53 049	49 947
including enterprises:					
pipeline transportation	3 882	3 162	3 647	3 549	3 142
warehousing and auxiliary transport activity	38 407	56 534	135 988	49 500	46 805
Natural gas, thousands of cubic metre	784 079	443 350	362 932	350 990	341 181
including enterprises:					
railway transport	834	1 058	750	1 549	944
automobile and city electric transport	9 968	14 656	20 438	6 275	2 335
pipeline transportation	745 654	397 237	302 904	327 322	325 378
water transport	137	125	183	110	217
air transport	10 617	10 600	7	15	33
warehousing and auxiliary transport activity	16 869	19 674	35 991	14 286	9 970
Aviation gasoline	8 820	9 499	13 051	16 197	22 384
including enterprises:					
air transport	3 389	3 412	13 034	16 180	22 371
warehousing and auxiliary transport activity	5 431	6 087	17	17	13
Motor gasoline	207 972	100 120	106 830	110 530	107 171
including enterprises:					
railway transport	79 378	8 859	1 643	1 831	42 184
automobile and city electric transport	72 420	46 063	15 900	14 892	10 361
pipeline transportation	5 782	3 654	4 065	3 406	3 415
water transport	291	285	824	264	286
air transport	2 223	1 196	1 314	989	1 192
warehousing and auxiliary transport activity	47 878	40 063	43 021	34 461	31 737
Gasoil	1 106 613	892 346	1 261 434	1 674 333	611 644
including enterprises:					
railway transport	225 058	169 087	302 784	188 230	195 516
automobile and city electric transport	332 224	186 175	56 151	65 462	58 756
pipeline transportation	12 739	7 310	7 630	6 688	5 336
water transport	4 524	12 351	3 042	9 161	6 327
air transport	850	872	1 376	1 428	1 641
warehousing and auxiliary transport activity	531 218	516 551	527 445	368 681	247 315
Kerosene, kerosene type jet fuel	443 996	437 751	430 216	421 642	318 781
including enterprises:					
railway transport	2	2		6	1
automobile and city electric transport	50	1	1		
pipeline transportation		1		1	1
air transport	263 031	289 919	298 986	307 687	305 911
warehousing and auxiliary transport activity	180 913	147 828	131 204	113 924	16 315

12.2 Consumption of electricity and heat by transport enterprises

	average per capita, tenge				
	2012	2013	2014	2015	2016
Electricity, thousands of kWh	3 341 235	2 950 455	2 510 642	2 570 938	2 274 394
including enterprises:					
railway transport	700 016	710 949	665 777	751 391	820 823
automobile and city electric transport	88 531	83 892	67 680	11 2210	85 161
pipeline transportation	383 706	192 161	160 213	439 992	437 796
water transport	2 363	2 500	2 447	2 795	3 720
air transport	4 147	3 771	4 161	3 175	3 363
warehousing and auxiliary transport activity	2 162 472	1 957 182	1 563 287	1 222 392	879 569
Heat, thousands Gcal	712,2	603,1	709,3	563,5	653
including enterprises:					
railway transport	27,5	46,4	110,5	59,5	53,1
automobile and city electric transport	159,6	147,4	93,4	93,4	202,8
pipeline transportation	121,9	77,3	82,4	38,8	36,6
water transport	2,4	1,7	2,1		0,2
air transport	3,4	1,3	1,3	1,3	0,1
warehousing and auxiliary transport activity	397,5	329,1	339,6	292,5	269,1

12.3 The presence of registered cars on the type of fuel used on January 1, 2012*

	units					
	Total	Including				
		gasoline	diesel oil	gas fired	mixed	electrical
Republic of Kazakhstan	3 553 814	3 513 098	24 559	2 127	13 876	154
Akmolinskaya	168 088	166 535	1 310	34	209	
Aktubinskaya	149 330	148 600	233	454	43	
Almatinskaya	410 260	408 235	1 864	85	67	9
Atyrauskaya	106 439	102 697	3 510	229	3	
Zapadno-Kazakhstanskaya	111 575	111 326	49	23	177	
Zhambylskaya	181 641	176 149	3 472	143	1 873	4
Karagandinskaya	273 735	272 626	946	59	103	1
Kostanaiskaya	185 271	184 232	1 014	20	5	
Kyzylordinskaya	91 120	90 931	169	10	9	1
Mangistauskaya	116 066	115 829	232	1	4	
Yuzhno-Kazakhstanskaya	398 501	397 360	934	98	108	1
Pavlodarskaya	157 585	157 426	128	14	17	
Severo-Kazakhstanskaya	161 778	150 561	477	261	10 399	
Vostochno-Kazakhstanskaya	309 820	309 107	667	22	24	
Astana city	206 876	205 779	876	135	82	4
Almaty city	525 729	515 625	8 678	539	753	134

* On the basis of vehicles of the Ministry of Internal Affairs of the Republic of Kazakhstan.

In view of diplomatic numbers and numbers without indicating the region.

Note: «electric» - using an electric battery, «mixed» - on gasoline and electric fuel.

12.4 The presence of registered cars on the type of fuel used on January 1, 2013*

units

	Total	Including				
		gasoline	diesel oil	gas fired	mixed	electrical
Republic of Kazakhstan	3 642 826	3 580 756	31 277	2 753	27 908	132
Akmolinskaya	143 305	141 710	1 382	38	175	
Aktubinskaya	131 231	130 430	209	550	40	2
Almatinskaya	456 774	453 756	2 703	140	160	15
Atyrauskaya	130 485	126 495	3 648	340	2	
Zapadno-Kazakhstanskaya	97 944	97 186	284	44	430	
Zhambylskaya	234 888	226 904	4 566	183	3 233	2
Karagandinskaya	321 108	319 427	1 394	77	206	4
Kostanaiskaya	167 644	166 232	1 363	41	8	
Kyzylordinskaya	115 025	114 745	244	18	16	2
Mangistauskaya	91 413	91 032	368	2	11	
Yuzhno-Kazakhstanskaya	377 978	376 609	1 152	115	102	
Pavlodarskaya	152 462	152 306	123	11	18	4
Severo-Kazakhstanskaya	162 708	138 931	548	624	22 605	
Vostochno-Kazakhstanskaya	327 376	326 110	1 205	30	30	1
Astana city	233 619	232 188	1 148	152	125	6
Almaty city	498 866	486 695	10 940	388	747	96

12.5 The presence of registered cars on the type of fuel used on January 1, 2014*

units

	Total	Including				
		gasoline	diesel oil	gas fired	mixed	electrical
Republic of Kazakhstan	3 678 282	3 613 651	32 245	2 781	29 473	132
Akmolinskaya	144 471	142 861	1 384	37	189	
Aktubinskaya	132 233	131 434	213	544	40	2
Almatinskaya	463 110	459 966	2 812	147	170	15
Atyrauskaya	132 676	128 600	3 686	344	46	
Zapadno-Kazakhstanskaya	98 752	97 992	285	44	431	
Zhambylskaya	235 984	227 972	4 592	183	3 235	2
Karagandinskaya	322 174	320 376	1 504	78	212	4
Kostanaiskaya	168 158	166 782	1 326	41	9	
Kyzylordinskaya	115 833	115 550	247	18	16	2
Mangistauskaya	93 134	91 388	423	2	1 321	
Yuzhno-Kazakhstanskaya	383 615	382 212	1 175	120	108	
Pavlodarskaya	153 733	153 572	126	11	20	4
Severo-Kazakhstanskaya	163 220	139 443	549	632	22 596	
Vostochno-Kazakhstanskaya	329 501	328 222	1 218	30	30	1
Astana city	236 486	234 888	1 234	157	201	6
Almaty city	505 202	492 393	11 471	393	849	96

12.6 The presence of registered cars on the type of fuel used on January 1, 2015*

units

	Total	Including by type of fuel used					
		gasoline	diesel oil	gas fired	mixed	electrical	not indicated
Republic of Kazakhstan	4 000 109	3 846 116	45 945	2 868	46 429	134	58 617
Akmolinskaya	183 074	172 791	1 430	45	352	1	8 455
Aktubinskaya	165 432	162 281	282	654	124	1	2 090
Almatinskaya	501 053	494 236	4 978	218	261	14	1 346
Atyrauskaya	117 631	113 327	2 493	214	822		775
Zapadno-Kazakhstanskaya	118 385	114 199	1 843	19	1 230		1 094
Zhambylskaya	193 795	184 735	3 050	90	1 497	1	4 422
Karagandinskaya	352 766	339 583	3 702	83	358	11	9 029
Kostanaiskaya	216 275	211 541	3 427	35	141		1 131
Kyzylordinskaya	111 824	110 866	482	119	39		318
Mangistauskaya	145 854	113 909	1 381	43	27 807	7	2 707
Yuzhno-Kazakhstanskaya	477 722	471 056	1 633	208	342	1	4 482
Pavlodarskaya	170 591	165 827	201	13	44	2	4 504
Severo-Kazakhstanskaya	167 478	152 269	734	398	9 289		4 788
Vostochno-Kazakhstanskaya	315 022	311 540	1 124	28	56		2 274
Astana city	248 941	245 470	1 838	253	1 344	9	27
Almaty city	514 266	482 486	17 347	448	2 723	87	11 175

12.7 The presence of registered cars on the type of fuel used on January 1, 2016*

units, on January 1, 2016

	Total	Including by type of fuel used					
		gasoline	diesel oil	gas fired	mixed	electrical	not indicated
Republic of Kazakhstan	3 856 505	3 667 017	49 257	3 474	67 761	785	68 211
Akmolinskaya	177 428	167 835	1 430	48	373	1	7 741
Aktubinskaya	158 632	155 085	273	539	774	1	1 960
Almatinskaya	459 465	452 828	4 751	234	402	12	1 238
Atyrauskaya	118 328	112 811	2 566	237	1 999		715
Zapadno-Kazakhstanskaya	120 167	115 482	2 102	18	1 573		992
Zhambylskaya	186 769	177 907	3 062	99	1 645	2	4 054
Karagandinskaya	285 061	272 756	3 806	96	809	3	7 591
Kostanaiskaya	179 012	174 800	3 034	34	311		833
Kyzylordinskaya	109 831	107 766	550	166	1 063		286
Mangistauskaya	142 218	96 012	1 650	50	41 890	9	2 607
Yuzhno-Kazakhstanskaya	470 010	462 906	1 732	268	854	2	4 248
Pavlodarskaya	161 908	157 060	585	13	544	2	3 704
Severo-Kazakhstanskaya	151 129	137 829	1 016	326	8 383		3 575
Vostochno-Kazakhstanskaya	308 187	304 608	1 302	29	187	1	2 060
Astana city	244 545	239 359	2 167	400	2 587	11	21
Almaty city	468 337	440 336	17 160	503	3 246	101	6 991

13. Expenditure of enterprises by main types of expenses

million tenge

	2012	2013	2014	2015	2016
Fuel	723 401,3	886 515,3	955 546,2	782 915,7	882 202
Energy	483 596	500 637,3	563 293,8	570 136,2	617 647,5

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.

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