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Fuel and energy balance of the Republic of Kazakhstan

2011-2015



Astana 2016

Ministry of National economy of the Republic of Kazakhstan
Committee on statistics

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Statistical collection

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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 2011-2015. 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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Conventional symbols:

«-» - not applicable;

0,0 – negligible magnitude;

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

In separate cases slight discrepancies between total and sum of items are explained by rounding of data

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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 the types of fuel 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 released to population.

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

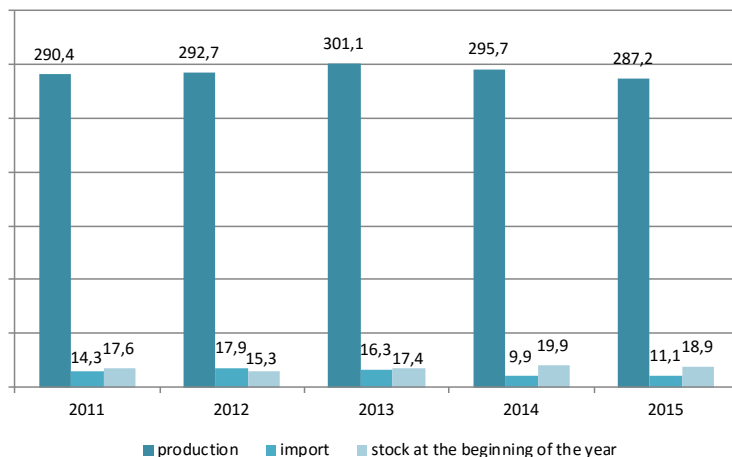
If in the obtained balances «Resources» exceed their «Distribution» or, on the contrary, i.e. in case of imbalance, additional items of the balance «Other receipts» in the «Resources» section or «Other consumption» in the «Distribution» section are introduced.

Fuel and energy balance Republic of Kazakhstan in 2015 year

Kazakhstan possesses a huge reserves of natural and energy resources. In spite of it, formed power balance for 2015 showed that republic provides domestic needs in energy supply incompletely, where import is 2,9% from resources total volume. As compared with a level of the previous year, production of energy resources has increased by 2,9%, apparent specific gravity of which is 74,9%.

Fuel and energy resource from structural part

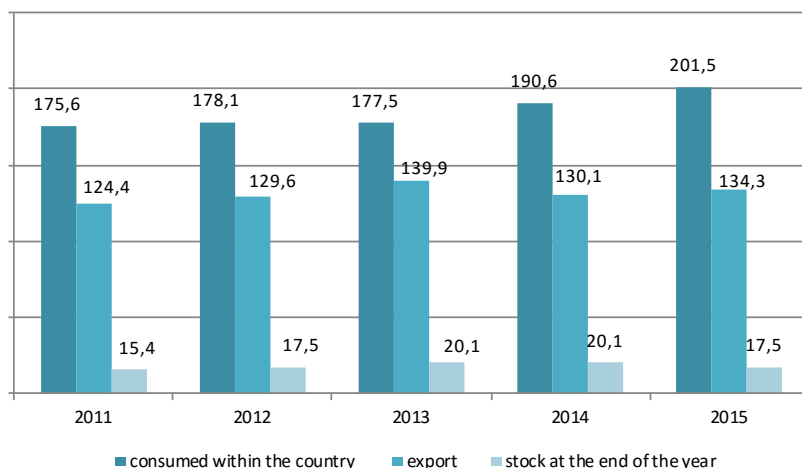
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There have been changes in the structure of distribution form: apparent specific gravity of energy resources supplied to domestic market has increased from 54,3% in 2011 to 52,5% in 2015, and the energy resources share of export has decreased from 38,4 to 35% respectively.

Fuel and energy distribution from structural part

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In 2015 on the domestic market of the country has consumed 201 575,7 thousands or 52,5% from the energy resources total volume, 21,6% has spent for conversion to other energy views and 52,6% 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 73,9%. In the natural resources compound there is 40,9 % of petrol, including gas-condensate, 35% of coal, 24,1% of natural gas.

1. Fuel and energy balance

1.1 Fuel and energy balance

	thousands of tons of conventional fuel					2015 in percent to			
	2011	2012	2013	2014	2015	2011	2012	2013	2014
Resources - total	323 658	333 907	347 342	349 660	383 601	118,5	114,9	110,4	109,7
Stock at the beginning of the year	17 621	15 283	17 400	19 912	18 952	107,6	124,0	108,9	95,2
Extracted (produced)	290 394	292 752	301 112	295 729	287 174	98,9	98,1	95,4	97,1
Received from aside from all the ources	1 368	7 931	12 551	24 039	66 373	4 851,8	836,9	528,8	276,1
Import	14 275	17 941	16 280	9 981	11 102	77,8	61,9	68,2	111,2
Distribution - total	323 658	333 907	347 342	349 660	383 601	118,5	114,9	110,4	109,7
Used up	135 687	136 906	139 572	147 543	149 619	110,3	109,3	107,2	101,4
conversion into other kinds of energy	52 259	54 653	55 311	62 144	43 599	83,4	79,8	78,8	70,2
production - technological and other needs	83 428	82 253	84 260	85 399	106 020	127,1	128,9	125,8	124,1

Continued

	thousands of tons of conventional fuel					2015 in percent to			
	2011	2012	2013	2014	2015	2011	2012	2013	2014
Losses	8 295	8 720	9 806	8 339	6 707	80,9	76,9	68,4	80,4
Other consumption	21 159	24 278	21 492	21 068	51 957	245,6	214,0	241,8	246,6
Released to population	15 119	16 912	16 387	21 877	23 291	154,1	137,7	142,1	106,5
Export	124 380	129 560	139 960	130 088	134 339	108,0	103,7	96,0	103,3
Bunkers	3 635	9	8	85	142	3,9	1 577,8	1 775,0	167,1
Stock at the end of the year	15 384	17 521	20 118	20 661	17 546	114,1	100,1	87,2	84,9

*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

	2011	2012	2013	2014	2015
Resources - total	100,0	100,0	100,0	100,0	100,0
Stock at the beginning of the year	5,4	4,6	5,0	5,7	4,9
Extracted (produced)	89,7	87,7	86,7	84,6	74,9
Received from aside from all the ourcees	0,4	2,4	3,6	6,9	17,3
Import	4,4	5,4	4,7	2,9	2,9
Distribution - total	100,0	100,0	100,0	100,0	100,0
Used up	41,9	41,0	40,2	42,2	39,0
conversion into other kinds of energy	16,1	16,4	15,9	17,8	11,4
production - technological and other needs	25,8	24,6	24,3	24,4	27,6
Losses	2,6	2,6	2,8	2,4	1,7
Other consumption	6,5	7,3	6,2	6,0	13,5
Released to population	4,7	5,1	4,7	6,3	6,1
Export	38,4	38,8	40,3	37,2	35,0
Bunkers	1,12	0,003	0,002	0,02	0,04
Stock at the end of the year	4,8	5,2	5,8	5,9	4,6

1.3 Fuel and energy balance of the Republic of Kazakhstan for 2011

thousands of tons of conventional fuel

	Total	Natural fuel	Of which			Other kinds of fuel and energy resources
			crude oil including gas condensate	natural gas	coal including lignite	
Resources - total	323 658	230 438	110 522	42 686	77 230	93 220
Extracted (produced)	290 394	205 377	98 795	35 508	71 073	85 018
Import	14 275	10 963	5 585	5 282	97	3 312
Other receipts	1 368	-	-	-	-	1 368
Stock at the beginning of the year	17 621	14 098	6 142	1 896	6 060	3 523
Distribution - total	323 658	230 438	110 522	42 686	77 230	93 220
Consumed within the country	135 686	87 294	19 640	27 529	40 126	48 392
conversion into other kinds of energy	52 259	50 982	193	19 766	31 023	1 276
production - technological and other needs	83 428	36 312	19 448	7 763	9 102	47 116
Export	124 380	110 813	84 773	7 104	18 936	13 567
Other consumption	39 912	15 757	585	5 492	9 680	24 155
Losses	8 295	4 045	750	1 187	2 109	4 250
Stock at the end of the year	15 384	12 528	4 775	1 374	6 379	2 856

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

thousands of tons of conventional fuel

	Total	Natural fuel	Of which			Other kinds of fuel and energy resources
			crude oil including gas condensate	natural gas	coal including lignite	
Resources - total	333 907	235 954	110 196	45 482	80 275	97 953
Extracted (produced)	292 752	207 048	97 763	35 524	73 761	85 704
Import	17 941	12 522	7 306	5 084	132	5 419
Other receipts	7 931	3 964	463	3 501	-	3 967
Stock at the beginning of the year	15 283	12 419	4 664	1 373	6 382	2 863
Distribution - total	333 907	235 954	110 196	45 482	80 275	97 953
Consumed within the country	136 906	87 574	18 765	28 058	40 750	49 333
conversion into other kinds of energy	54 653	53 180	128	20 956	32 095	1 474
production - technological and other needs	82 253	34 394	18 637	7 102	8 655	47 859
Export	129 560	118 291	85 712	12 531	20 047	11 270
Other consumption	41 199	11 583	90	2 496	8 998	29 615
Losses	8 720	4 384	859	1 171	2 355	4 336
Stock at the end of the year	17 521	14 122	4 771	1 226	8 125	3 399

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

thousands of tons of conventional fuel

	Total	Natural fuel	Of which			Other kinds of fuel and energy resources
			crude oil including gas condensate	natural gas	coal including lignite	
Resources - total	347 342	242 150	114 934	45 628	81 588	105 192
Extracted (produced)	301 112	212 429	100 925	38 110	73 395	88 683
Import	16 280	11 708	9 247	2 319	1433	4 572
Other receipts	12 551	3 974	-	3 974	-	8 576
Stock at the beginning of the year	17 400	14 038	4 762	1 226	8 050	3 361
Distribution - total	347 342	242 150	114 934	45 628	81 588	105 192
Consumed within the country	139 572	90 074	20 884	27 304	41 886	49 498
conversion into other kinds of energy	55 311	54 314	121	21 483	32 709	998
production - technological and other needs	84 260	35 760	20 763	5 820	9 177	48 500
Export	139 960	117 873	85 220	11 935	20 719	22 087
Other consumption	37 887	3 500	3 387	2 610	7 504	24 387
Losses	9 806	4 252	752	1 096	2 404	5 554
Stock at the end of the year	20 118	16 452	4 691	2 685	9 075	3 667

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

	Total	Natural fuel	Of which			Other kinds of fuel and energy resources
			crude oil including gas condensate	natural gas	coal including lignite	
Resources - total	349 660	246 530	106 405	53 361	86 765	103 130
Extracted (produced)	295 729	208 449	99 739	38 859	69 852	87 280
Import	9 980	6 127	1 195	4 875	58	3 853
Other receipts	24 039	15 572	771	6 942	7 859	8 467
Stock at the beginning of the year	19 912	16 382	4 701	2 685	8 996	3 530
Distribution - total	349 660	246 530	106 405	53 361	86 765	103 130
Consumed within the country	147 543	97 048	20 547	32 208	44 293	50 495
conversion into other kinds of energy	62 144	59 131	14	25 208	33 909	3 013
production - technological and other needs	85 399	37 917	20 533	7 000	10 385	47 482
Export	130 088	112 044	80 659	12 272	19 114	18 044
Other consumption	43 029	17 160	284	5 191	11 685	25 869
Losses	8 399	4 283	732	996	2 556	4 056
Stock at the end of the year	20 661	15 995	4 184	2 694	9 116	4 666

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

	Total	Natural fuel	Of which			Other kinds of fuel and energy resources
			crude oil including gas condensate	natural gas	coal including lignite	
Resources - total	383 601	283 641	116 007	68 483	99 151	99 960
Stock at the beginning of the year	18 952	15 132	3 950	2 342	8 840	3 820
Extracted (produced)	287 174	205 390	98 049	41 364	65 977	81 785
Received from aside from all the ources	66 373	56 206	13 917	17 964	24 325	10 167
Import	11 102	6 913	91	6 813	9	4 189
Distribution - total	383 601	283 641	116 007	68 483	99 151	99 960
Used up	149 619	97 439	19 906	32 328	45 206	52 180
conversion into other kinds of energy	43 599	40 344	14	8 720	31 610	3 255
production - technological and other needs	106 020	57 094	19 891	23 608	13 595	48 926
Losses	6 707	3 612	472	662	2 478	3 095
Other consumption	51 957	38 521	13 736	3 933	20 851	13 436
Released to population	23 291	7 718		3 884	3 834	15 573
Export	134 339	121 897	78 460	25 151	18 286	12 442
Bunkers	142					142
Stock at the end of the year	17 546	14 455	3 433	2 526	8 496	3 091

1.8 Fuel and energy balance by components for fuels and energy in terms of conventional fuel for 2015

Items of balance	thousands of tons of conventional fuel			
	Stone coal of coke	Stone coal of energy	Concentrate of coal	Stone coal of energy with high ash
Calorie conversion factor	0,626	0,626	0,626	0,626
Resources	10 942,0	55 738,9	3 705,8	8 474,5
Stock at the beginning of the year	1 035,1	6 657,7		962,7
Extracted (produced)	6 787,0	49 075,2	2 954,8	
Received from aside from all the sources	3 119,9		751,0	7 511,8
Import		6,0		
Distribution	10 942,0	55 738,9	3 705,8	8 474,5
Used up - total	7 116,6	26 397,2	3 667,0	6 846,7
to production electrical and fuel energy	1 433,8	23 377,9	37,8	5 929,9
as a raw material for conversion into other kinds of energy	5 405,2	241,4		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	55,4	148,9		13,7
as a material for non - fuel needs		96,7		52,6
as a energy for own needs	222,1	2 532,4	3 629,3	850,6
Losses	2 162,9	309,9		4,8
Other consumption		20 132,3		
Released to population	3,1	2 667,0		556,4
Exports	918,7	145,4		
Bunkers				
Stock at the end of the year	740,8	6 087,2	38,7	1 066,6

Continued

Items of balance	Other coal	Briguettes, pellets of coal		Lignite (brown coal)
		Briguettes, pellets of coal	Briguettes, pellets of lignite	
Calorie conversion factor	0,626	0,8	0,8	0,408
Resources	17 849,8	0,1	0,1	2 439,5
Stock at the beginning of the year		0,1		185,0
Extracted (produced)	4 905,1		0,1	2 254,5
Received from aside from all the sources	12 941,9			
Import	2,9			0,1
Distribution	17 849,8	0,1	0,1	2 439,5
Used up - total	1 095,4			82,7
to production electrical and fuel energy	819,7			11,1
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	0,6			12,1
as a energy for own needs	275,0			59,5
Losses				
Other consumption		0,1	0,1	718,5
Released to population	318,8			289,1
Exports	16 260,2			961,9
Bunkers				
Stock at the end of the year	175,4			387,3

Continued

Items of balance	Crude oil	Gas condensate	Natural gas	Associated petroleum gas
Calorie conversion factor	1,234	1,234	1,169	1,15
Resources	99 452,1	16 555,3	41 151,8	27 331,0
Stock at the beginning of the year	3 385,5	564,8	2 336,8	4,9
Extracted (produced)	82 086,4	15 962,7	14 037,8	27 326,1
Received from aside from all the sources	13 917,2		17 964,0	
Import	63,0	27,8	6 813,3	
Distribution	99 452,1	16 555,3	41 151,8	27 331,0
Used up - total	19 381,0	524,6	9 750,4	22 577,3
to production electrical and fuel energy	14,4		6 124,0	2 595,8
as a raw material for conversion into other kinds of energy	6 687,5	78,1	259,9	18 084,8
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	91,3		48,6	97,9
as a material for non - fuel needs	11 154,1		19,9	448,3
as a energy for own needs	1 433,6	446,5	3 298,1	1 350,5
Losses	427,1	45,4	286,6	375,0
Other consumption		13 736,4		3 933,5
Released to population			3 444,3	439,3
Exports	76 977,2	1 482,6	25 149,7	1,1
Bunkers				
Stock at the end of the year	2 666,8	766,4	2 520,9	4,9

Continued

Items of balance	Coke and semi - coke of coal	Sawdust and wood waste	Coal of wood	Aviation gasoline
Calorie conversion factor	0,99	0,36	0,93	1,49
Resources	3 874,8	34,9	85,6	32,0
Stock at the beginning of the year	240,1	2,8	24,0	4,3
Extracted (produced)	2 601,8	0,0	0,1	7,7
Received from aside from all the sources	69,9	32,1	52,5	19,8
Import	963,0		9,0	0,2
Distribution	3 874,8	34,9	85,6	32,0
Used up - total	3 672,8	5,6	38,4	26,9
to production electrical and fuel energy	0,6	3,9	11,8	
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	551,3			
as a material for non - fuel needs	509,2	0,5		
as a energy for own needs	2 611,7	1,2	26,5	26,9
Losses	3,7			
Other consumption				
Released to population	0,1	26,4	34,8	0,3
Exports	1,0			0,4
Bunkers				
Stock at the end of the year	197,2	2,9	12,4	4,4

Continued				
Items of balance	Motor gasoline	Jet fuel of gasoline type	Kerosene	Jet fuel of kerosene type
Calorie conversion factor	1,49	1,49	1,47	1,474
Resources	8 295,8	83,6	779,8	500,5
Stock at the beginning of the year	1 332,8	13,0	77,2	4,2
Extracted (produced)	4 267,5		49,1	405,4
Received from aside from all the sources	665,8	39,6	653,4	
Import	2 029,7	31,0		90,9
Distribution	8 295,8	83,6	779,8	500,5
Used up - total	2 179,1	80,7	620,7	28,2
to production electrical and fuel energy	0,4			
as a raw material for conversion into other kinds of energy	0,7		0,5	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products			0,7	
as a material for non - fuel needs	0,4		0,1	0,2
as a energy for own needs	2 177,6	80,7	619,3	28,0
Losses	5,5		0,3	
Other consumption				445,7
Released to population	4 757,0		0,2	
Exports				23,3
Bunkers	1,4		117,5	1,3
Stock at the end of the year	1 352,8	2,9	41,0	2,0

Continued				
Items of balance	Gasoil	Heating oil	Domestic heating fuel	Liquefied propane and butane
Calorie conversion factor	1,45	1,379	1,413	2,209
Resources	12 272,1	7 658,8	1 146,8	6 436,1
Stock at the beginning of the year	1 219,6	483,4	47,6	280,8
Extracted (produced)	6 506,9	5 377,3	262,4	4 568,3
Received from aside from all the sources	4 306,3	1 793,2	836,0	1 585,2
Import	239,4	5,0	0,7	1,8
Distribution	12 272,1	7 658,8	1 146,8	6 436,1
Used up - total	8 846,3	1 812,0	99,7	693,3
to production electrical and fuel energy	200,8	737,6	10,4	7,9
as a raw material for conversion into other kinds of energy	1,5	110,1	3,3	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,7	6,3	0,4	0,2
as a material for non - fuel needs	6,4	2,2		0,7
as a energy for own needs	8 636,9	955,8	85,6	684,5
Losses	1,5			35,0
Other consumption				
Released to population	2 447,5	0,7	18,6	1 013,5
Exports	243,9	5 526,2	1 003,1	4 413,3
Bunkers	21,7			
Stock at the end of the year	711,2	319,8	25,3	281,0

Continued

Items of balance	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases	Lean gas	Greased oil	Oil and shale coke
Calorie conversion factor	1,57	1,169	1,438	1,08
Resources	1 199,5	10 521,7	220,2	298,4
Stock at the beginning of the year	11,5		34,5	10,9
Extracted (produced)	1 187,5	10 521,7	14,5	276,8
Received from aside from all the sources				
Import	0,5		171,2	10,7
Distribution	1 199,5	10 521,7	220,2	298,4
Used up - total	451,6	1 875,5	79,1	12,0
to production electrical and fuel energy		880,8		
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				11,0
as a material for non - fuel needs	3,4		4,9	
as a energy for own needs	448,2	994,7	74,3	1,0
Losses		225,6		
Other consumption	318,1	8 420,5	32,8	48,5
Released to population			8,1	1,2
Exports	429,4	0,1	0,2	222,5
Bunkers				
Stock at the end of the year	0,4		100,0	14,2

Continued

Items of balance	Oil and shale bitumen	Furnace gas	Coke gas	Gas produced by distillation at refineries
Calorie conversion factor	0,544	0,143	0,571	1,169
Resources	352,8	720,8	516,7	115,4
Stock at the beginning of the year	24,8			
Extracted (produced)	326,3	720,8	516,7	2,0
Received from aside from all the sources				113,4
Import	1,7			
Distribution	352,8	720,8	516,7	115,4
Used up - total	197,0	720,8	516,7	115,2
to production electrical and fuel energy			42,3	
as a raw material for conversion into other kinds of energy				114,5
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	34,6			0,2
as a material for non - fuel needs	93,3	720,8		
as a energy for own needs	69,1		474,4	0,4
Losses				
Other consumption	96,0			
Released to population	39,8			
Exports	0,2			
Bunkers				
Stock at the end of the year	19,8			0,2

Items of balance	Continued			
	Shale-distilling	Tar	Oil easy distiller	Oil distillation products
Calorie conversion factor	0,3	1,3	1,49	1,45
Resources	0,5	24,8	199,0	25,1
Stock at the beginning of the year	0,3		5,2	2,5
Extracted (produced)		24,8	119,6	22,6
Received from aside from all the sources				
Import	0,2		74,2	
Distribution	0,5	24,8	199,0	25,1
Used up - total			7,6	5,6
to production electrical and fuel energy				
as a raw material for conversion into other kinds of energy			4,9	4,9
as a raw material for the production of chemical, petrochemical industries and other non - fuel products				
as a material for non - fuel needs			1,0	0,2
as a energy for own needs			1,7	0,5
Losses				
Other consumption	0,2	6,5	186,3	18,7
Released to population				0,1
Exports		18,3	3,7	
Bunkers				
Stock at the end of the year	0,3		1,3	0,7

Items of balance	Continued			
	Bio fuel	Electric power	Heat energy	Hydropower produced by hydroelectric power plants
Calorie conversion factor	0,48	0,345	0,149	0,345
Resources	2,9	28 916,6	12 385,5	3 197,9
Stock at the beginning of the year	0,1			
Extracted (produced)	1,4	28 358,3	12 385,5	3 197,9
Received from aside from all the sources				
Import	1,4	558,3		
Distribution	2,9	28 916,6	12 385,5	3 197,9
Used up - total	1,5	21 587,6	7 266,0	1 235,9
to production electrical and fuel energy		1 272,7	73,0	12,3
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		617,9	45,1	
as a material for non - fuel needs		0,1		
as a energy for own needs	1,5	19 696,9	7 148,0	1 223,6
Losses		1 776,6	1 038,2	8,5
Other consumption		1 160,8	1 012,6	1 632,4
Released to population		3 834,9	3 068,7	321,1
Exports		556,7		
Bunkers				
Stock at the end of the year	1,3			

Continued

Items of balance	Wind electric power produced by wind power plants	Solar electric power produced by solar power plants	Fuel and energy resources
Calorie conversion factor	0,345	0,345	
Resources	45,4	15,9	383 601,0
Stock at the beginning of the year			18 952,0
Extracted (produced)	45,4	15,9	287 174,2
Received from aside from all the sources			66 373,1
Import			11 101,8
Distribution	45,4	15,9	383 601,0
Used up - total	2,2	2,1	149 618,8
to production electrical and fuel energy			43 598,9
as a raw material for conversion into other kinds of energy			30 997,4
as a raw material for the production of chemical, petrochemical industries and other non - fuel products			1 724,3
as a material for non - fuel needs			13 127,6
as a energy for own needs	2,2	2,1	60 170,6
Losses			6 706,6
Other consumption	43,3	13,8	51 956,9
Released to population			23 291,1
Exports			134 339,1
Bunkers			142,0
Stock at the end of the year			17 546,4

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

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Items of balance	Stone coal of coke	Stone coal of energy	Consentrate of coal	Stone coal of energy with high ash
Calorie conversion factor	29,310	29,310	29,310	29,310
Resources	512 317,9	2 609 755,6	173 508,0	396 786,1
Stock at the beginning of the year	48 466,3	311 720,1		45 073,9
Extracted (produced)	317 776,1	2 297 754,5	138 346,1	
Received from aside from all the sources	146 075,4		35 161,9	351 712,1
Import		281,1		
Distribution	512 317,9	2 609 755,6	173 508,0	396 786,1
Used up - total	333 205,4	1 235 945,2	171 695,2	320 568,7
to production electrical and fuel energy	67 131,6	1 094 578,7	1 769,2	277 642,2
as a raw material for conversion into other kinds of energy	253 077,1	11 301,1		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	2 596,2	6 971,0		639,5
as a material for non - fuel needs	0,4	4 525,3		2 463,3
as a energy for own needs	10 400,2	118 569,0	169 926,0	39 823,7
Losses	101 269,0	14 508,7		223,8
Other consumption		942 616,1		
Released to population	144,4	124 870,5	0,1	26 052,4
Exports	43 015,0	6 806,0		
Bunkers				
Stock at the end of the year	34 684,1	285 009,2	1 812,6	49 941,3

Fuel and energy balance of the Republic of Kazakhstan

15

Items of balance	Continued			
	Other coal	Briguettes, pellets of coal	Briguettes, pellets of lignite	Lignite (brown coal)
Calorie conversion factor	29,310	29,310	29,310	11,280
Resources	835 748,9	2,2	2,9	67 446,2
Stock at the beginning of the year		2,2		5 114,3
Extracted (produced)	229 661,4		2,9	62 329,9
Received from aside from all the sources	605 952,4			
Import	135,0			2,0
Distribution	835 748,9	2,2	2,9	67 446,2
Used up - total	51 287,9	0,3		2 287,3
to production electrical and fuel energy	38 380,9			307,4
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				
as a material for non - fuel needs	29,1			335,3
as a energy for own needs	12 877,8	0,3		1 644,5
Losses				0,3
Other consumption		1,9	2,9	19 863,9
Released to population	14 925,8			7 991,4
Exports	761 320,4			26 594,6
Bunkers				
Stock at the end of the year	8 214,7			10 708,7

Items of balance	Continued			
	Crude oil	Gas condensate	Natural gas	Associated petroleum gas
Calorie conversion factor	42,620	44,320	39,020	45,590
Resources	3 434 883,7	594 594,7	1 373 605,7	1 083 496,3
Stock at the beginning of the year	116 927,0	20 286,3	77 998,5	195,8
Extracted (produced)	2 835 108,0	573 310,2	468 567,8	1 083 300,5
Received from aside from all the sources	480 672,3		599 618,2	
Import	2 176,4	998,1	227 421,2	
Distribution	3 434 883,7	594 594,7	1 373 605,7	1 083 496,3
Used up - total	669 381,4	18 840,0	325 457,2	895 041,4
to production electrical and fuel energy	498,1		204 412,4	102 907,0
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	230 974,3	2 804,2	8 674,6	716 945,4
as a material for non - fuel needs	3 153,9		1 621,4	3 879,2
as a energy for own needs	385 242,5		663,2	17 771,4
as a energy for own needs	49 512,7	16 035,8	110 085,6	53 538,5
Losses	14 749,5	1 630,0	9 566,1	14 867,3
Other consumption		493 352,3		155 935,8
Released to population			114 966,5	17 416,3
Exports	2 658 646,9	53 248,3	839 472,0	42,4
Bunkers				
Stock at the end of the year	92 106,0	27 524,0	84 143,9	193,0

Continued

Items of balance	Coke and semi - coke of coal	Sawdust and wood waste	Coal of wood	Aviation gasoline
Calorie conversion factor	26,380	12,600	28,890	43,970
Resources	103 250,1	1 220,9	2 658,4	944,7
Stock at the beginning of the year	6 397,6	96,9	744,1	127,7
Extracted (produced)	69 329,3	0,2	3,3	228,6
Received from aside from all the sources	1 863,7	1 123,8	1 632,2	583,8
Import	25 659,5		278,7	4,5
Distribution	103 250,1	1 220,9	2 658,4	944,7
Used up - total	97 866,8	194,7	1 191,9	794,0
to production electrical and fuel energy	15,7	135,3	367,2	
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	14 691,5			
as a material for non - fuel needs	13 567,4	18,7	0,6	
as a energy for own needs	69 592,2	40,8	824,2	794,0
Losses	99,8			
Other consumption				
Released to population	3,8	924,1	1 079,9	9,5
Exports	25,3			11,9
Bunkers				
Stock at the end of the year	5 254,4	102,1	386,6	129,2

Continued

Items of balance	Motor gasoline	Jet fuel of gasoline type	Kerosene	Jet fuel of kerosene type
Calorie conversion factor	43,970	43,680	43,210	43,210
Resources	244 809,8	2 451,7	22 922,2	14 672,1
Stock at the beginning of the year	39 330,8	380,6	2 270,3	123,8
Extracted (produced)	125 934,5		1 443,2	11 882,8
Received from aside from all the sources	19 649,1	1 161,8	19 207,4	
Import	59 895,5	909,3	1,3	2 665,5
Distribution	244 809,8	2 451,7	22 922,2	14 672,1
Used up - total	64 305,6	2 365,6	18 245,0	826,6
to production electrical and fuel energy	12,2		0,1	
as a raw material for conversion into other kinds of energy	21,1		15,6	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products			20,8	
as a material for non - fuel needs	12,0		3,8	5,1
as a energy for own needs	64 260,3	2 365,6	18 204,8	821,4
Losses	161,8		9,0	
Other consumption				13 066,1
Released to population	140 379,6		7,1	
Exports			0,5	682,2
Bunkers	42,3		3 454,3	37,8
Stock at the end of the year	39 920,5	86,1	1 206,2	59,4

Continued

Items of balance	Gasoil	Heating oil	Domestic heating fuel	Liquefied propane and butane
Calorie conversion factor	42,500	41,510	42,500	45,590
Resources	359 700,3	230 542,2	34 491,9	132 829,6
Stock at the beginning of the year	35 746,9	14 550,0	1 432,7	5 794,4
Extracted (produced)	190 718,8	161 864,1	7 892,3	94 281,5
Received from aside from all the sources	126 218,6	53 976,8	25 146,5	32 715,9
Import	7 016,1	151,3	20,5	37,8
Distribution	359 700,3	230 542,2	34 491,9	132 829,6
Used up - total	259 288,3	54 545,2	2 999,4	14 308,3
to production electrical and fuel energy	5 885,5	22 204,0	314,2	162,8
as a raw material for conversion into other kinds of energy	45,0	3 313,7	98,5	
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	22,0	189,3	11,6	5,0
as a material for non - fuel needs	186,4	66,9		14,3
as a energy for own needs	253 149,5	28 771,4	2 575,0	14 126,1
Losses	43,7	0,5	0,2	723,1
Other consumption				
Released to population	71 737,7	21,7	560,1	20 916,7
Exports	7 148,0	166 347,6	30 170,6	91 082,2
Bunkers	636,4			
Stock at the end of the year	20 846,2	9 627,2	761,6	5 799,4

Continued

Items of balance	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases	Lean gas	Greased oil	Oil and shale coke
Calorie conversion factor	45,590	45,590	41,800	36,400
Resources	34 832,1	410 338,1	6 401,2	10 056,6
Stock at the beginning of the year	334,0		1 002,4	367,2
Extracted (produced)	34 484,3	410 338,1	422,2	9 329,3
Received from aside from all the sources				
Import	13,9		4 976,6	360,2
Distribution	34 832,1	410 338,1	6 401,2	10 056,6
Used up - total	13 113,9	73 142,5	2 299,8	403,1
to production electrical and fuel energy		34 350,9	0,1	
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	0,3			369,6
as a material for non - fuel needs	98,0		141,3	0,1
as a energy for own needs	13 015,6	38 791,6	2 158,5	33,3
Losses		8 800,1		
Other consumption	9 236,5	328 391,9	954,1	1 633,6
Released to population			235,0	41,9
Exports	12 469,2	3,5	5,4	7 498,5
Bunkers				
Stock at the end of the year	12,7		2 906,8	479,5

Continued

Items of balance	Oil and shale bitumen	Furnace gas	Coke gas	Gas produced by distillation at refineries
Calorie conversion factor	41,800	4,000	17,590	46,100
Resources	27 108,5	20 163,2	15 917,2	4 550,6
Stock at the beginning of the year	1 903,9			0,0
Extracted (produced)	25 075,8	20 163,2	15 917,2	78,4
Received from aside from all the sources				4 472,2
Import	128,8			
Distribution	27 108,5	20 163,2	15 917,2	4 550,6
Used up - total	15 136,0	20 163,1	15 917,1	4 541,4
to production electrical and fuel energy			1 302,6	
as a raw material for conversion into other kinds of energy				4 517,2
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	2 661,3			8,8
as a material for non - fuel needs	7 166,9	20 163,1		
as a energy for own needs	5 307,9		14 614,5	15,4
Losses				
Other consumption	7 376,7	0,1	0,1	
Released to population	3 061,0			
Exports	12,5			
Bunkers				
Stock at the end of the year	1 522,2			9,3

Continued

Items of balance	Shale-distilling	Tar	Oil easy distiller	Oil distillation products
Calorie conversion factor	9,200	3,800	43,970	42,500
Resources	15,6	72,6	5 871,7	735,8
Stock at the beginning of the year	9,6		152,6	72,8
Extracted (produced)		72,6	3 530,8	663,0
Received from aside from all the sources				
Import	6,0	0,0	2 188,4	
Distribution	15,6	72,6	5 871,7	735,8
Used up - total			224,0	165,5
to production electrical and fuel energy				
as a raw material for conversion into other kinds of energy			145,1	143,9
as a raw material for the production of chemical, petrochemical industries and other non - fuel products				
as a material for non - fuel needs			30,2	5,5
as a energy for own needs			48,7	16,1
Losses			0,2	0,9
Other consumption	6,0	19,1	5 497,8	547,5
Released to population				1,9
Exports		53,5	110,2	
Bunkers				
Stock at the end of the year	9,6		39,4	20,1

Continued

Items of balance	Bio fuel	Electric power	Heat energy	Hydropower produced by hydroelectric power plants
Calorie conversion factor	8,400	3,600	4,187	3,600
Resources	50,2	301 738,2	348 041,9	33 369,1
Stock at the beginning of the year	1,5			
Extracted (produced)	24,7	295 912,9	348 041,9	33 369,1
Received from aside from all the sources				
Import	24,1	5 825,3		
Distribution	50,2	301 738,2	348 041,9	33 369,1
Used up - total	26,2	225 261,5	204 180,6	12 896,1
to production electrical and fuel energy		13 280,0	2 051,6	128,0
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		6 447,8	1 266,3	
as a material for non - fuel needs		0,6	0,1	
as a energy for own needs	26,2	205 533,2	200 862,6	12 768,1
Losses		18 538,6	29 173,2	88,5
Other consumption	0,5	12 112,5	28 454,4	17 033,7
Released to population		40 015,9	86 233,7	3 350,8
Exports	0,6	5 809,5		
Bunkers				
Stock at the end of the year	22,9	0,2	0,1	

Continued

Items of balance	Wind electric power produced by wind power plants	Solar electric power produced by solar power plants	Fuel and energy resources
Calorie conversion factor		3,600	
Resources		474,2	13 452 545,1
Stock at the beginning of the year			736 624,4
Extracted (produced)	474,2	166,2	9 867 799,7
Received from aside from all the sources			2 506 944,0
Import			341 177,1
Distribution	474,2	166,2	13 452 545,1
Used up - total	22,8	22,1	5 128 157,0
to production electrical and fuel energy			1 867 837,7
as a raw material for conversion into other kinds of energy			1 232 076,6
as a raw material for the production of chemical, petrochemical industries and other non - fuel products			44 555,4
as a material for non - fuel needs			452 511,3
as a energy for own needs	22,8	22,1	1 531 176,0
Losses			214 454,3
Other consumption	451,4	144,1	2 036 699,1
Released to population			674 947,8
Exports			4 710 576,9
Bunkers			4 170,8
Stock at the end of the year			683 539,2

2. Commodity markets of certain types of fuel and energy

Coal market including lignite

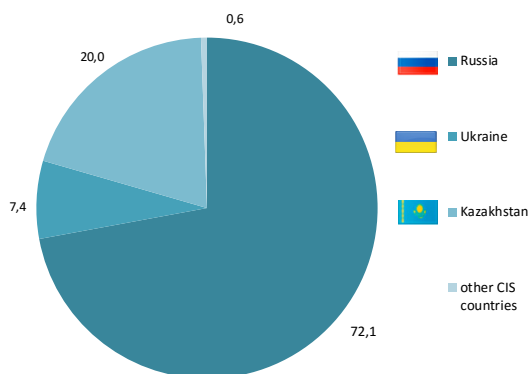
The share of coal in the natural resources total volume in 2011-33,5%, in 2012-34 %, in 2013-33,7%, 2014-35,2%, 2015-35%. In the coal resources structure the share of the export in distribution in 2011-24%, in 2012-25,1%, in 2013-25,5%, 2014-22,4%, 2015-17,9%. Herewith, the share of domestic market is: 73,3%, 72%, 71,6% up to 74,7%, 79,5 respectively.

2.1 Balances of resources and distribution of coal, including lignite

	thousands of tons				
	2011	2012	2013	2014	2015
Resources	126 374	131 042	132 735	141 091	160 470
Stock at the beginning of the year	9 769	10 301	12 932	14 459	14 280
Extracted (produced)	116 450	120 527	119 574	113 985	107 318
Received from aside from all the sources including imports	155	214	229	12 647	38 871
Distribution	126 374	131 042	132 735	141 091	160 470
Used up	64 727	65 356	66 976	70 834	72 284
conversion into other kinds of energy	50 143	51 470	52 262	54 181	50 505
production - technological and other needs	14 583	13 886	14 714	16 653	21 779
Losses	3 370	3 762	3 841	4 083	3 958
Released to other enterprises, population and for export*	47 978	48 873	47 333	51 451	36 404
Stock at the end of the year	10 299	13 051	14 585	14 723	13 903

Extraction in the CIS countries in 2015

in percent to total



Consumption, export and import

thousands of tons

	Coal including lignite		
	consumption in the domestic market	export	import
Akmolinskaya	2 364,7	232,7	0,1
Aktubinskaya	127,7	0,6	0,1
Almatinskaya	1 502,5	-	1,0
Atyrauskaya	0,5	-	-
Zapadno - Kazakhstanskaya	16,9	-	-
Zhambylskaya	229,0	5,9	-
Karagandinskaya	33 293,9	8 544,1	7,7
Kostanaiskaya	1 803,7	-	-
Kyzylordinskaya	96,2	-	-
Mangystauskaya	92,3	-	-
Yuzhno - Kazakhstanskaya	1 346,9	3,3	1,9
Pavlodarskaya	25 416,3	20 548,7	-
Severo - Kazakhstanskaya	2 980,9	2,9	0,1
Vostochno - Kazakhstanskaya	3 651,6	589,4	3,3
Astana city	3 328,3	104,0	0,1
Almaty city	2 314,5	0,7	0,1

Crude oil market

Unrefined oil resources in 2015 where 80,6 mln.tons, including 66,5 mln.tons was mining in republic and 0,1 mln. tons import. From the total resources volume on domestic market consumption was 15,7 mln tons and for exports was released 62,4 mln.tons. Republic oil market still has export raw orientation. Oil supplies implement generally to Italy (28,4%), Netherlands (13,6%) France (8,9%).

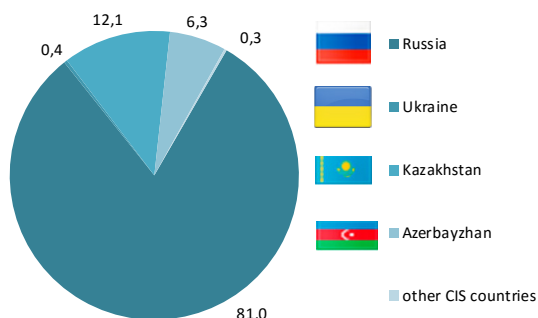
2.2 Balance of resources and distribution of crude oil

thousands of tons

	2011	2012	2013	2014	2015
Resources	76 690	75 866	79 963	71 996	80 593
Stock at the beginning of the year	4 403	3 219	3 217	3 292	2 743
Extracted (produced)	67 765	66 475	69 484	67 908	66 521
Received from aside from all the sources including imports	4 522	6 172	7 262	796	11 329
Distribution	76 690	75 866	79 963	71 996	80 593
Used up	15 506	15 128	16 666	16 503	15 706
conversion into other kinds of energy	156	104	98	11	12
production - technological and other needs	15 350	15 024	16 568	16 492	15 694
Losses	591	640	577	553	346
Released to other enterprises, population and for export	57 284	56 873	59 435	52 009	62 380
Stock at the end of the year	3 309	3 225	3 284	2 931	2 161

Oil extraction in the CIS countries in 2015

in percent to total



Consumption, export and import

thousands of tons

	Crude oil		
	consumption in the domestic market	export	import
Akmolinskaya	-	-	-
Aktubinskaya	327,0	3 544,3	2,5
Almatinskaya	11,6	-	-
Atyrauskaya	5 331,8	30 642,0	0,1
Zapadno - Kazakhstanskaya	141,1	10 355,1	46,2
Zhambylskaya	6,7	-	-
Karagandinskaya	1,2	-	-
Kostanaiskaya	-	-	-
Kyzylordinskaya	246,6	2 920,6	-
Mangistauskaya	435,9	9 952,4	-
Yuzhno - Kazakhstanskaya	4 493,6	693,5	-
Pavlodarskaya	4 720,9	-	-
Severo - Kazakhstanskaya	1,1	-	0,4
Vostochno - Kazakhstanskaya	-	-	0,2
Astana city	-	4 126,3	0,1
Almaty city	-	146,0	1,5

Natural gas market

In 2015 natural gas resources for 34,1% by equity production, and for 16,6% by import from CIS countries. There is tendency the share of natural gas is increasing in total volume of natural resources (from 18,5% in 2011 up to 24,1% in 2015)

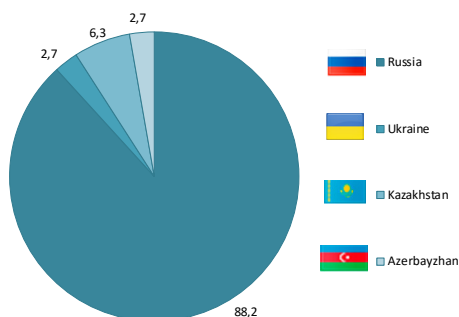
2.3 Balances of resources and natural gas distribution

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	2011	2012	2013	2014	2015
Resources	16 635	19 404	17 689	24 099	35 203
Stock at the beginning of the year	1 613	1 170	1 033	2 292	1 999
Extracted (produced)	10 504	10 890	11 273	11 698	12 008
Received from aside from all the sources including imports	4 518	7 344	5 383	10 109	21 195
Distribution	16 635	19 404	17 689	24 099	35 203
Used up	6 548	6 969	4 474	8 632	8 341
conversion into other kinds of energy production - technological and other needs	1 737	3 337	1 870	5 006	5 239
Losses	4 811	3 632	2 604	3 626	3 102
Released to other enterprises, population and for export*	96	132	153	198	245
Stock at the end of the year	8 821	11 270	10 770	12 968	24 460
	1 170	1 033	2 292	2 301	2 156

Extraction in the CIS countries in 2015

in percent to total



Consumption, export and import

mln. m3

	Natural gas		
	consumption in the domestic market	export	import
Akmolinskaya	-	-	-
Aktubinskaya	20,9	-	-
Almatinskaya	308,8	-	-
Atyrauskaya	1 843,6	2 687,9	-
Zapadno - Kazakhstanskaya	965,1	239,4	-
Zhambylskaya	1 334,5	-	-
Karagandinskaya	-	-	-
Kostanaiskaya	914,7	-	-
Kyzylordinskaya	148,7	-	-
Mangistauskaya	3 385,5	-	-
Yuzhno - Kazakhstanskaya	1 469,5	-	-

Continued

	Natural gas		
	consumption in the domestic market	export	import
Pavlodarskaya	-	-	-
Severo - Kazakhstanskaya	-	-	-
Vostochno - Kazakhstanskaya	0,1	603,1	-
Astana city	930,7	2 609,9	3 699,1
Almaty city	995,8	15 373,5	2 129,3

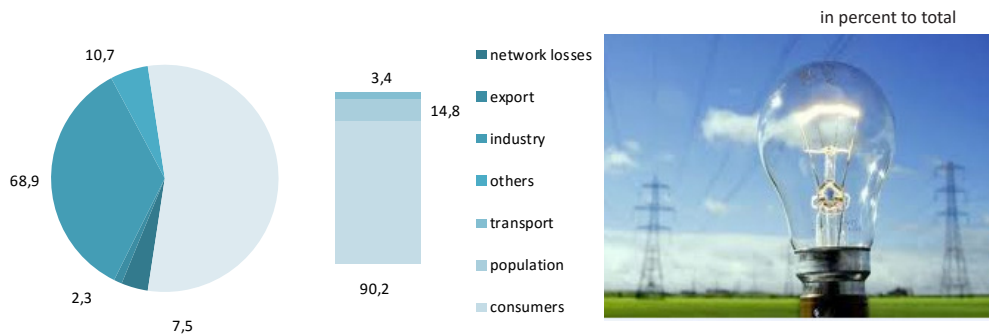
Electric power market

Electricity production was in 2011-78,7 mlr.kw/h, in 2012-83,6 mlr.kw/h, in 2013-87,6 mlr.kw/h, 2014-86,9 mlr.kw/h, 2015-82,2 mlr.kw/h. In 2015 export to Russia was 1,6 mlr.kw/h of electricity. Electricity from Russia supplies generally to the consumers of West Kazakhstan, but from Middle Asia to the consumers of Southern Kazakhstan. Thus, 1,6 mlr.kw/h of electricity was imported, thence 2,7% from Kyrgyzstan, 97,3% from Russia. Electricity consumption on domestic market of the country was in 2015-77,1 mlr.kw/h, it made 91,9% from the resources total volume. Electricity losses in 2015 were -6,1%.

2.4 Balances of resources and electricity distribution

	mln. kWh				
	2011	2012	2013	2014	2015
Resources	81 302	87 819	89 249	87 543	83 816
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	78 702	83 567	87 631	86 936	82 198
Received from aside from all the sources including imports	2 600	4 252	1 618	607	1 618
Distribution	81 302	87 819	89 249	87 543	83 816
Used up	61 888	62 833	64 407	63 614	62 573
conversion into other kinds of energy	1 887	1 966	995	3 461	3 689
production - technological and other needs	60 001	60 867	63 412	60 153	58 884
Losses	6 368	7 142	11 174	7 061	5 150
Released to other enterprises, population and for export	13 047	17 844	13 669	16 868	12 729
Stock at the end of the year	-	-	-	-	-

Electricity consumption in 2015



Consumption, export and import by regions

mln. kWh

	Electricity		
	consumption in the domestic market	export	import
Akmolinskaya	3 045,0	-	-
Aktubinskaya	2 645,2	-	68,6
Almatinskaya	3 448,0	-	40,1
Atyrauskaya	4 397,2	-	73,9
Zapadno - Kazakhstanskaya	1 948,6	-	207,9
Zhambylskaya	3 873,2	411,9	1,7
Karagandinskaya	13 175,3	-	-
Kostanaiskaya	4 123,6	-	-
Kyzylordinskaya	2 039,9	-	-
Mangistauskaya	4 580,9	-	-
Yuzhno - Kazakhstanskaya	3 433,7	-	-
Pavlodarskaya	15 499,0	-	-
Severo - Kazakhstanskaya	1 686,1	44,9	-
Vostochno - Kazakhstanskaya	5 399,2	-	-
Astana city	2 888,5	1 157,0	1 018,3
Almaty city	1 504,7	-	207,5

Heat energy market

Heat energy supplies on republic domestic market. In 2011 the consumption was 74,9 mln.Gcal, in 2015-76,2 mln.Gcal. There are losses in 2015 and 2015-6,4 mln.Gcal, 6,9 mln.Gcal, that is in the percentage from the heat power resources total volume is – 7,8%, 8,4% respectively.

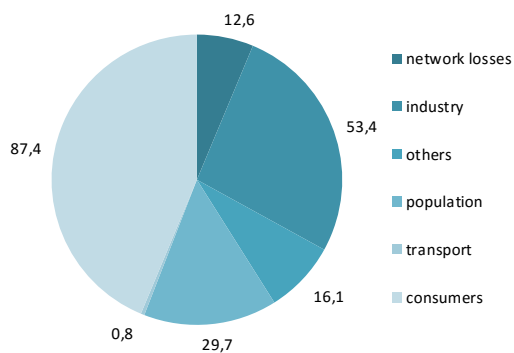
2.5 Balances of resources and heat energy distribution

thousands of Gcal

	2011	2012	2013	2014	2015
Resources	96 825	99 852	94 743	98 890	83 124
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	96 825	99 852	94 743	98 890	83 124
Received from aside from all the sources including imports	-	-	-	-	-
Distribution	96 825	99 852	94 743	98 890	83 124
Used up	54 110	57 120	56 307	56 789	48 765
conversion into other kinds of energy	482	519	222	247	490
production - technological and other needs	53 628	56 602	56 086	56 542	48 275
Losses	10 728	10 806	8 852	9 053	6 968
Released to other enterprises, population and for export	31 988	31 926	29 584	33 048	20 596
Stock at the end of the year	-	-	-	-	-

Heat energy consumption in 2015

in percent to total



Consumption by regions

thousands of Gcal

	Heat energy	
	consumption in the domestic market	
Akmolinskaya		2 537,6
Aktubinskaya		4 634,3
Almatinskaya		12 408,4
Atyrauskaya		5 885,6
Zapadno - Kazakhstanskaya		4 558,4
Zhambylskaya		1 606,1
Karagandinskaya		10 059,2
Kostanaiskaya		3 300,9
Kyzylordinskaya		441,3
Mangistauskaya		3 727,9
Yuzhno - Kazakhstanskaya		1 508,1
Pavlodarskaya		12 493
Severo - Kazakhstanskaya		2 524,6
Vostochno - Kazakhstanskaya		7 984,2
Astana city		3 900,9
Almaty city		2 355,7

Oil products market

The demand for mineral oil products partly was made by its import. In 2015 in comparison 2014 the production residual oil on 0,6%, propane and butane has increased on 13,4%, gas oils on 10,9 % and motor gasoline on 5,3%.

2.6 Balances of resources and motor gasoline distribution

	thousands of tons				
	2011	2012	2013	2014	2015
Resources	4 201	5 136	5 055	5 686	5 568
Stock at the beginning of the year	783	549	841	756	895
Extracted (produced)	2 775	2 877	2 738	3 023	2 864
Received from aside from all the sources including imports	643	1 710	1 476	1 907	1 809
Distribution	4 201	5 136	5 055	5 686	5 568
Used up	1 502	1 367	1 203	1 238,8	1 463
to production electrical and fuel energy	0,3	2,8	0,1	0,5	0,3
as a raw material for conversion into other kinds of energy	2,2	0,9	-	-	0,5
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	-	-	-	-
as a material for non - fuel needs	1,0	0,7	2,7	4,6	0,3
as a energy for own needs	1 498	1 362	1 200	1 234	1 462
Losses	15,8	12,1	24,3	11,1	3,7
Released to other enterprises, population and for export*	2 119	2 911	2 993	3 360	3 193
Stock at the end of the year	564	847	835	1 075	908

Consumption, export and import

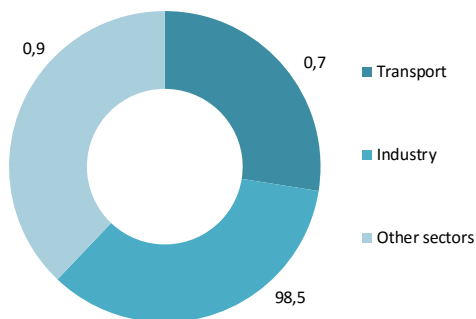
	thousands of tons		
	Motor gasoline		
	consumption in the domestic market	export	import
Akmolinskaya	230,8	-	15,9
Aktubinskaya	158,9	-	46,8
Almatinskaya	632,4	-	36,9
Atyrauskaya	534,7	-	-
Zapadno - Kazakhstanskaya	111,3	-	33,8
Zhambylskaya	261,3	-	-
Karagandinskaya	256,1	-	-
Kostanaiskaya	179,4	-	7,6
Kyzylordinskaya	192,2	-	0,6
Mangistauskaya	97,8	-	0,9
Yuzhno - Kazakhstanskaya	358,4	-	-
Pavlodarskaya	158,9	-	2,7
Severo - Kazakhstanskaya	121,5	-	256,1
Vostochno - Kazakhstanskaya	330,4	-	12,0
Astana city	407,0	-	103,0
Almaty city	624,3	-	845,9

2.7 Balances of resources and distribution of kerosene

	2011	2012	2013	2014	2015
Resources	427 519	535 611	604 810	626 010	530 484
Stock at the beginning of the year	39 664	37 613	67 280	71 447	52 541
Extracted (produced)	387 146	366 906	367 579	113 828	33 400
Received from aside from all the sources including imports	709	131 092	169 951	440 735	444 543
Distribution	427 519	535 611	604 810	626 010	530 484
Used up	281 206	458 798	511 787	504 641	422 241
to production electrical and fuel energy	-	-	1	3	2
as a raw material for conversion into other kinds of energy	886	-	65	9	360
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	644	211	25	40	482
as a material for non - fuel needs	331	105	865	309	87
as a energy for own needs	279 345	458 482	510 831	504 280	421 311
Losses	41	84	231	612	209
Released to other enterprises, population and for export	108 513	6 970	20 982	43 146	176
Stock at the end of the year	37 759	69 759	71 810	77 611	27 915

Kerosene consumption in 2015

in percent to total



Consumption, export and import

thousands of tons

	Kerosene		
	consumption in the domestic market	export	import
Akmolinskaya	2,8	-	-
Aktubinskaya	0,6	-	-
Almatinskaya	2,1	-	-
Atyrauskaya	4,2	-	-
Zapadno –Kazakhstanskaya	3,5	-	-
Zhambylskaya	1,1	-	-
Karagandinskaya	13,1	-	-

Continued

	Kerosene		
	consumption in the domestic market	export	import
Kostanaiskaya	0,1	-	-
Kyzylordinskaya	0,7	-	-
Mangistauskaya	0,1	-	-
Yuzhno – Kazakhstanskaya	9,7	-	-
Pavlodarskaya	2,7	-	-
Severo – Kazakhstanskaya	-	-	-
Vostochno – Kazakhstanskaya	1,8	-	-
Astana city	3,1	-	-
Almaty city	377,6	-	-

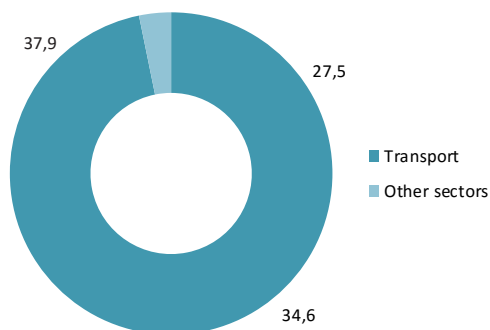
2.8 Balances of resources and gasoil distribution

thousands of tons

	2011	2012	2013	2014	2015
Resources	6 465	7 823	8 074	8 599	8 464
Stock at the beginning of the year	826	720	758	746	841
Extracted (produced)	4 665	4 714	5 140	5 039	4 488
Received from aside from all the sources including imports	974	2 389	2 176	2 814	3 135
Distribution	6 465	7 823	8 074	8 599	8 464
Used up	3 981	4 205	4 298	4 320	6 101
to production electrical and fuel energy	38,1	73,1	55,2	64,8	139
as a raw material for conversion into other kinds of energy	17,1	31,4	2,8	29,1	1,1
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,7	0,5	0,5	0,6	0,5
as a material for non - fuel needs	9,5	3,8	59,1	31,6	4
as a energy for own needs	3 915	4 096	4 180	4 194	5 957
Losses	5,8	20,8	60,9	11,0	1
Released to other enterprises, population and for export	1 776	2 831	2 030	3 260	1 856
Stock at the end of the year	720,1	765,3	784,8	1 007,9	491

Gasoil consumption in 2015

in percent to total



Consumption, export and import

thousands of tons

	Gasoil		
	consumption in the domestic market	export	import
Akmolinskaya	299,6	-	2,8
Aktubinskaya	255,7	0,1	23,6
Almatinskaya	1 306,0	-	1,9
Atyrauskaya	2 201,7	141,0	7,2
Zapadno - Kazakhstanskaya	88,5	27,0	6,7
Zhambylskaya	417,8	-	-
Karagandinskaya	393,8	-	-
Kostanaiskaya	357,9	-	0,5
Kyzylordinskaya	303,3	-	0,1
Mangistauskaya	195,7	-	0,1
Yuzhno - Kazakhstanskaya	788,9	-	-
Pavlodarskaya	222,2	0,1	0,5
Severo - Kazakhstanskaya	192,4	-	46,4
Vostochno - Kazakhstanskaya	258,3	-	0,6
Astana city	294,0	-	14,6
Almaty city	213,1	-	60,1

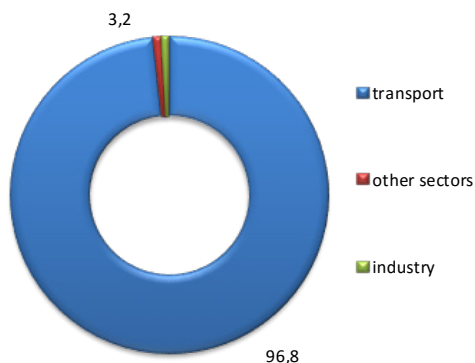
2.9 Balances of resources and heating oil distribution

thousands of tons

	2011	2012	2013	2014	2015
Resources	4 645	4 446	7 131	5 498	5 554
Stock at the beginning of the year	366	387	284	436	351
Extracted (produced)	4 277	3 936	3 734	3 877	3 899
Received from aside from all the sources including imports	2,3	123	3 113	1 186	1 304
Distribution	4 645	4 446	7 131	5 498	5 554
Used up	1 352	1 551	1 288	1 176	1 314
to production electrical and fuel energy	336	405	369	554	535
as a raw material for conversion into other kinds of energy	141	75	61	11,1	80
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,1	0,1	0,9	1,9	4,6
as a material for non - fuel needs	3,6	3,1	1,1	6,1	1,6
as a energy for own needs	871	1 067	857	603	693
Losses	0,1	0,1	0,2	0,6	-
Released to other enterprises, population and for export	2 906	2 612	5 394	3 952	4 008
Stock at the end of the year	387	284	449	370	232

Heating oil consumption in 2015

in percent to total



Consumption, export and import

thousands of tons

	Heating oil		
	consumption in the domestic market	export	import
Akmolinskaya	37,7	-	-
Aktubinskaya	-	25,1	0,6
Almatinskaya	85,6	11,0	-
Atyrauskaya	1,8	2 337,7	-
Zapadno - Kazakhstanskaya	0,1	-	-
Zhambylskaya	230,1	6,2	-
Karagandinskaya	414,5	-	-
Kostanaiskaya	22,7	-	1,3
Kyzylordinskaya	35,3	7,3	0,1
Mangistauskaya	2,4	-	-
Yuzhno - Kazakhstanskaya	91,6	1 221,7	-
Pavlodarskaya	330,2	365,1	-
Severo - Kazakhstanskaya	8,3	-	-
Vostochno - Kazakhstanskaya	43,7	-	-
Astana city	12,3	-	-
Almaty city	20,2	33,2	1,6

2.10 Balances of resources and distribution of domestic heating fuel

thousands of tons

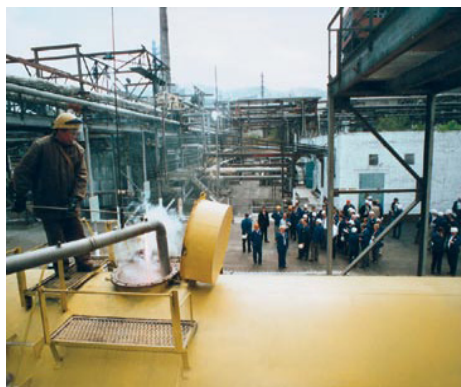
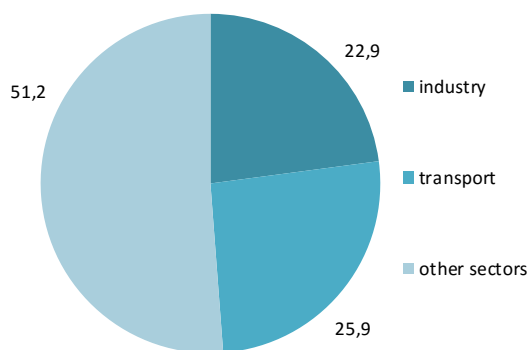
	2011	2012	2013	2014	2015
Resources	167	264	195	389	812
Stock at the beginning of the year	31	38	25	23	34
Extracted (produced)	109	176	158	243	186
Received from aside from all the sources including imports	26	50	12	124	592
Distribution	167	264	195	389	812
Used up	73	91	79	105	71
to production electrical and fuel energy as a raw material for conversion into other kinds of energy	1	17	3	11	7
	-	-	-	2	2

Continued

	2011	2012	2013	2014	2015
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	1	-	1	-	0,3
as a material for non - fuel needs	-	-	-	1	-
as a energy for own needs	71	74	75	91	61
Losses	1	-	-	-	-
Released to other enterprises, population and for export*	57	145	88	154	723
Stock at the end of the year	36	28	29	131	18

Domestic heating fuel consumption in 2015

in percent to total



Consumption, export and import

thousands of tons

	Domestic heating fuel		
	consumption in the domestic market	export	import
Akmolinskaya	13,2	-	-
Aktubinskaya	1,1	5,0	-
Almatinskaya	4,6	-	-
Atyrauskaya	-	-	-
Zapadno - Kazakhstanskaya	0,8	166,8	-
Zhambylskaya	2,8	44,4	-
Karagandinskaya	10,2	-	-
Kostanaiskaya	5,8	-	0,5
Kyzylordinskaya	0,2	-	-
Mangistauskaya	4,6	-	-
Yuzhno - Kazakhstanskaya	-	-	-
Pavlodarskaya	-	-	-
Severo - Kazakhstanskaya	13,3	-	-
Vostochno - Kazakhstanskaya	11,6	-	-
Astana city	14,9	445,0	-
Almaty city	0,7	48,7	-

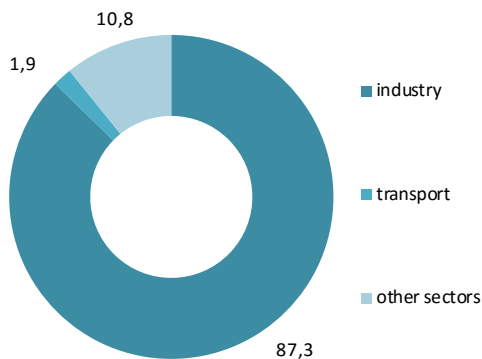
2.11 Balances of resources and distribution of liquefied propane and butane

thousands of tons

	2011	2012	2013	2014	2015
Resources	2 176	2 189	2 833	2 791	2 914
Stock at the beginning of the year	145	77	109	119	127
Extracted (produced)	2 028	2 057	2 202	2 388	2 068
Received from aside from all the sources including imports	3,1	55	521	283	718
Distribution	2 172	2 189	2 833	2 791	2 914
Used up	154	162	187	194	314
to production electrical and fuel energy	4,5	1,5	2,9	3,5	3,6
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
as a material for non - fuel needs	7,2	1,1	5,8	2,7	0,3
as a energy for own needs	147	155	179	187	310
Losses	5,8	12,5	35,6	17	16
Released to other enterprises, population and for export	1 935	1 904	2 486	2 444	2 457
Stock at the end of the year	77	109	124	136	127
Resources	2 176	2 189	2 833	2 791	2 914

Consumption of liquefied propane and butane in 2015

in percent to total



Consumption, export and import

thousands of tons

	Liquefied propane and butane		
	consumption in the domestic market	export	import
Akmolinskaya	139,6	-	-
Aktubinskaya	28,3	238,7	0,7
Almatinskaya	134,9	32,4	-
Atyrauskaya	23,9	1204,1	-
Zapadno - Kazakhstanskaya	10,8	-	-

Continued

	Liquefied propane and butane		
	consumption in the domestic market	export	import
Zhambylskaya	4,7	4,6	-
Karagandinskaya	35,1	-	-
Kostanaiskaya	11,1	-	-
Kyzylordinskaya	15,9	10,4	-
Mangystauskaya	72,0	-	-
Yuzhno - Kazakhstanskaya	49,8	91,8	-
Pavlodarskaya	181,9	102,7	-
Severo - Kazakhstanskaya	23,8	-	-
Vostochno - Kazakhstanskaya	7,5	-	-
Astana city	70,3	276,7	-
Almaty city	28,0	36,4	0,1

2.12 Balances of resources and distribution of oil and shale bitumen

thousands of tons

	2011	2012	2013	2014	2015
Resources	617,7	822,0	818,4	689,8	648,5
Stock at the beginning of the year	85,9	59,7	45,1	42,3	45,5
Extracted (produced)	257,2	286,6	331,5	602,2	599,9
Received from aside from all the sources including imports	274,6	475,7	441,8	45,3	3,1
Distribution	617,7	822,0	818,4	689,8	648,5
Used up	392,8	478,7	403,3	403,7	362,1
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	67,0	114,1	91,4	78,0	63,7
as a material for non - fuel needs	226,5	275,4	198,9	242,2	171,5
as a energy for own needs	99,3	89,2	113,0	83,6	127,0
Losses	0,1	-	-	-	-
Released to other enterprises, population and for export*	165,2	298,3	377,8	215,2	73,5
Stock at the end of the year	59,6	45,0	37,3	70,8	36,4

Consumption, export and import

thousands of tons

	Oil and shale bitumen		
	consumption in the domestic market	export	import
Akmolinskaya	13,9	-	0,1
Aktubinskaya	14,1	-	0,1
Almatinskaya	54,5	-	-
Atyrauskaya	-	-	-
Zapadno - Kazakhstanskaya	8,5	-	-
Zhambylskaya	22,0	-	-
Karagandinskaya	36,1	-	-
Kostanaiskaya	19,8	-	-
Kyzylordinskaya	46,6	-	-

Continued

	Oil and shale bitumen		
	consumption in the domestic market	export	import
Mangistauskaya	10,2	-	-
Yuzhno - Kazakhstanskaya	12,4	0,3	-
Pavlodarskaya	88,2	-	-
Severo - Kazakhstanskaya	10,8	-	0,3
Vostochno - Kazakhstanskaya	18,1	-	2,5
Astana city	23,0	-	-
Almaty city	57,0	-	-

3. Consumption of fuel and energy resources by types of economic activity in 2015

Items of balance	Stone coal of coke, tons	Stone coal of energy, tons	Stone coal of energy with high ash, tons	Lignite (brown coal), tons
Agriculture, forestry and fishing	1 031,5	101 496,1	133 602,0	8 423,9
The mining industry and working out of open - cast mines	29 217,6	1 598 732,3	31 758,5	17 758,6
Manufacturing industry	11 264 761,0	5 517 626,5	890 785,6	62 115,3
Electrical supply, giving of gas, steam and air - conditioning	12 765,0	34 044 192,0	9 127 204,0	37 241,8
Construction	5 353,5	54 848,0	10 742,5	799,6
Wholesale and retail trade; car and motorcycles repairs	686,3	23 180,2	43 912,4	8 908,7
Land transport and pipeline transportation	837,0	27 240,5	8 057,5	
Water transport				27,5
Air transport	80,6			
Warehousing and auxiliary transport activity	2 866,4	44 911,3	12 163,2	556,0
Information and communication	1 217,0	3 955,1	718,6	
Financial and insurance activities	42,7	735,2	914,2	
Real estate operations	56,6	31 785,5	47 929,6	43,0
Governance and defence; obligatory social security	14 524,0	158 878,5	132 977,1	3 271,2
Education	22 307,4	310 116,3	325 892,8	45 300,5
Public health services and social services	5 138,4	107 282,7	86 716,2	8 659,2
Other services provision	102,2	3 391,9	1 130,6	223,0

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			14 950,0	9 304,0
The mining industry and working out of open - cast mines	887 773,3	377 600,0	754 754,7	17 634 236,0
Manufacturing industry	14 562 951,0	46 818,4	1 084 727,8	858 672,2
Electrical supply, giving of gas, steam and air - conditioning			5 037 804,5	955 462,6
Construction	70,4		30 700,7	7 813,4
Wholesale and retail trade; car and motorcycles repairs	5 404,7	395,0	17 379,5	2 213,8

Continued

Items of balance	Crude oil, tons	Gas condensate, tons	Natural gas, thousands of cubic metre	Associated petroleum gas, thousands of cubic metre
Land transport and pipeline transportation	3 549,1		335 146,7	7 868,8
Water transport			110,2	
Air transport			14,7	121,0
Warehousing and auxiliary transport activity	49 500,0	258,0	14 286,4	2 013,8
Information and communication			7 111,4	236,4
Financial and insurance activities			12 462,3	627,1
Real estate operations			66 496,7	6 851,8
Governance and defence; obligatory social security			536 793,9	2 895,4
Education			183 973,8	10 466,9
Public health services and social services			44 038,5	6 572,3
Other services provision			1 813,8	1 132,0

Continued

Items of balance	Coke and semi coke of coal, tons	Sawdust and wood waste, tons	Coal of wood, tons	Aviation gasoline, tons
Agriculture, forestry and fishing		1 676,7		37,0
The mining industry and working out of open - cast mines	27 027,1			4,0
Manufacturing industry	3 682 831,5	1 297,1	1 186,6	1 125,0
Electrical supply, giving of gas, steam and air - conditioning	23,2		12 397,0	
Construction	1,0	3,0	0,4	6,0
Wholesale and retail trade; car and motorcycles repairs		333,8	4 510,8	24,0
Land transport and pipeline transportation	2,2	10,2	8,0	
Water transport				
Air transport				16 179,7
Warehousing and auxiliary transport activity		244,6		17,0
Information and communication		48,0		14,0
Financial and insurance activities		96,1		8,0
Real estate operations		686,1	73,0	5,0
Governance and defence; obligatory social security		3 790,5	727,1	3,0
Education		2 755,6	19 485,3	629,0
Public health services and social services		1 268,5	1 420,9	
Other services provision		188,0	7,0	

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	51 374,4	46,5	387,0	
The mining industry and working out of open - cast mines	326 723,4	126,0	776,6	11,0
Manufacturing industry	103 354,6		1 942,0	

Continued

Items of balance	Motor gasoline, tons	Jet fuel of gasoline type, tons	Kerosene, tons	Jet fuel of kerosene type, tons
Electrical supply, giving of gas, steam and air - conditioning	63 200,1		22,9	
Construction	286 186,8	21,0	143,3	
Wholesale and retail trade; car and motorcycles repairs	103 924,2	11,2	2 985,3	
Land transport and pipeline transportation	71 078,1		28,3	1,9
Water transport	263,7			
Air transport	989,1	53 795,0	306 297,5	1 389,7
Warehousing and auxiliary transport activity	34 461,1		96 197,6	17 726,6
Information and communication	14 351,7			
Financial and insurance activities	39 439,7			
Real estate operations	6 543,5			
Governance and defence; obligatory social security	116 586,6	28,9	13 363,3	
Education	32 906,6	12,6		
Public health services and social services	50 873,4		4,7	
Other services provision	5 207,7			

continued

Items of balance	Gasoil, tons	Heating oil, tons	Domestic heating fuel, tons	Liquefied propane and butane, tons
Agriculture, forestry and fishing	427 894,0	142,0	1 015,0	4 865,5
The mining industry and working out of open - cast mines	1 562 447,6	4 886,2	1 274,0	3 407,1
Manufacturing industry	399 982,0	829 437,2	14 892,0	254 347,8
Electrical supply, giving of gas, steam and air - conditioning	102 318,9	437 355,7	39,9	15 615,0
Construction	1 381 633,8	11 648,9	8 999,1	3 345,1
Wholesale and retail trade; car and motorcycles repairs	170 117,8	1 589,7	6 369,9	16 672,2
Land transport and pipeline transportation	1 295 062,7		1 255,1	3 809,9
Water transport	9 161,2			0,5
Air transport	1 428,3			
Warehousing and auxiliary transport activity	368 681,0	3 314,4	16 843,0	2 102,4
Information and communication	7 146,3			137,6
Financial and insurance activities	2 855,2		18,1	29,7
Real estate operations	13 822,9	10 868,0	6 284,3	238,5
Governance and defence; obligatory social security	23 691,2	116,1	8 813,2	376,9
Education	99 754,2	2 539,7	2 257,0	1 166,7
Public health services and social services	19 879,3	530,0	1 558,5	3 149,2
Other services provision	3 213,0	9,7	13,0	22,3

Continued

Items of balance	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum, gases	Lean gas	Greased oil	Oil and shale bitumen coke
Agriculture, forestry and fishing	1,1		2 408,4	
The mining industry and working out of open - cast mines		1 526 407,8	2 716,2	
Manufacturing industry	287 470,8	77 812,0	7 326,3	11 073,0
Electrical supply, giving of gas, steam and air - conditioning	14,0		2 392,8	
Construction	12,8		7 146,1	
Wholesale and retail trade; car and motorcycles repairs	96,0	134,4	11 002,8	
Land transport and pipeline transportation	27,1		8 996,0	
Water transport			210,9	
Air transport			8,8	
Warehousing and auxiliary transport activity	0,7		2 810,5	
Information and communication			166,1	
Financial and insurance activities			15,1	
Real estate operations			470,5	
Governance and defence; obligatory social security	1,7		5 103,6	
Education	2,7		40,6	
Public health services and social services	21,0		9,5	
Other services provision				

Continued

Items of balance	Oil and shale bitumen	Oil easy distiller	Oil distillation products	Bio fuel
Agriculture, forestry and fishing	4,8			1 840,0
The mining industry and working out of open - cast mines	19 132,0			
Manufacturing industry	112 894,7	4 653,4	1 020,9	324,0
Electrical supply, giving of gas, steam and air - conditioning	41,9			
Construction	202 246,1			
Wholesale and retail trade; car and motorcycles repairs	31,0	221,3	2872,5	
Land transport and pipeline transportation	25 746,0			
Water transport				
Air transport				
Warehousing and auxiliary transport activity	5,7	215,0		
Information and communication				
Education				750,0
Public health services and social services				208,1
Other services provision				

Items of balance	Electric power	Heat energy	Hydropower produced by hydroelectric power plants	Wind electric power produced by wind power plants	Solar electric power produced by solar power plants
Agriculture, forestry and fishing	791 934,3	822,3	1 007,4	6 291,7	11,6
The mining industry and working out of open - cast mines	12 964 982,0	7 028,5	1 817,0		689,0
Manufacturing industry	27 119 054,0	20 538,2	3 244 662,5		3 147,7
Electrical supply, giving of gas, steam and air - conditioning	10 378 855,0	8 969,3	92 029,2		2 169,1
Construction	562 791,8	384,1	580,0		52,8
Wholesale and retail trade; car and motorcycles repairs	616 190,0	468,6	616,9	4,0	
Land transport and pipeline transportation	1 328 072,8	238,0	421,0	0,6	0,6
Water transport	2 795,1				
Air transport	3 174,5	1,3			
Warehousing and auxiliary transport activity	1 222 392,8	292,5			8,3
Information and communication	296 992,2	180,6	80,0		42,8
Financial and insurance activities	262 254,2	314,6			
Real estate operations	891 461,8	767,1	234 407,6		1,3
Governance and defence; obligatory social security	1 126 223,8	1 311,4	222,4		6,2
Education	2 117 635,5	4 415,0	386,0	2,0	2,0
Public health services and social services	550 338,2	1 256,9	418,1	27,0	
Other services provision	42 967,2	105,0			

4. Main energy indicators

	2011	2012	2013	2014	2015
Energy intensity, toe per thousand usd in prices 2000 y.	1,80	1,59	1,50	1,36	1,27
Energy intensity, toe per thousand usd in prices 2005 y.	0,94	0,83	0,78	0,71	0,66
Energy intensity, toe per thousand usd in prices 2010 y.	0,49	0,43	0,41	0,37	0,35
Total Final Energy consumption, thousand toe	45 207	38 677	43 080	27 604	38 779
Total Primary Energy consumption, thousand toe	78 295	72 630	72 268	68 558	64 572

Total final consumption

	2011	2012	2013	2014	2015
Agriculture, forestry and fishing	38,3	35,0	31,3	65,2	45,2
Industry	6 443,3	6 286,9	8 199,1	8 313,0	8 017,7
Transport	82,1	47,2	69,2	233,2	76,9
Servises	41,3	41,2	146,4	364,4	406,5

Total primary consumption

	2011	2012	2013	2014	2015
Crude oil	17,3	15,7	20,2	16,8	4,8
Coal	34,4	35,4	35,4	34,9	33,3
Natural gas	10,9	5,1	1,9	5,9	3,9

Energy intensity of GRP in Kazakhstan

	2011	2012	2013	2014	2015
Republic of Kazakhstan	1,80	1,59	1,50	1,36	1,27
Akmolinskaya	0,83	0,51	0,67	0,45	0,39
Aktubinskaya	2,63	2,31	2,67	2,23	2,31
Almatinskaya	0,17	0,20	0,08	0,02	0,06
Atyrauskaya	1,92	1,92	1,25	1,07	0,94
Vostochno - Kazakhstanskaya	0,96	0,88	0,82	0,85	0,80
Zhambylskaya	1,00	0,31	1,00	0,21	0,14
Zapadno - Kazakhstanskaya	3,28	3,31	3,39	3,12	2,86
Karagandinskaya	4,54	3,77	3,54	3,13	2,95
Kostanaiskaya	0,04	0,03	0,01	0,01	0,05
Kyzylordinskaya	6,55	5,69	4,81	4,91	4,58
Mangistauskaya	2,65	2,79	3,18	3,41	3,34
Pavlodarskaya	7,39	6,58	6,49	5,83	5,49
Severo - Kazakhstanskaya	0,29	0,37	0,54	0,40	0,32
Yuzhno - Kazakhstanskaya	0,12	0,11	0,47	0,67	0,71
Almaty city	0,23	0,14	0,12	0,18	0,17
Astana city	0,06	0,04	0,20	0,19	0,13

Fuel and energy balance of the Republic of Kazakhstan

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.

Fuel and energy balance of the Republic of Kazakhstan/ Statistical collection / Astana city, 2016

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