



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

Fuel and energy balance of the Republic of Kazakhstan 2009-2013

Astana 2014

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Committee on statistics**

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**FUEL AND ENERGY BALANCE
OF THE REPUBLIC OF KAZAKHSTAN**

2009-2013

Statistical collection

Astana 2014

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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 2009-2013. 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.

Address:

House of Ministries, Entrance 4
The Left bank, 8 Orynbor str.
Astana, Republic of Kazakhstan 010000
Ministry of National economy of the Republic of Kazakhstan
Committee on statistics
tel. +7 7172 749547, 749295
fax +7 7172 749546
e-mail: statistika@stat.kz
Internet-resource: [http: //www.stat.gov.kz](http://www.stat.gov.kz)

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	Extraction (production)
1.2	Import
1.3	Stock at the beginning of the year
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	Export
2.3	Losses
2.4	Stock at the end of the year

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

1.1 «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.

1.2 «Import» describes a number of fuels imported from other countries (including the CIS countries).

1.3 «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.

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

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

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

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

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.

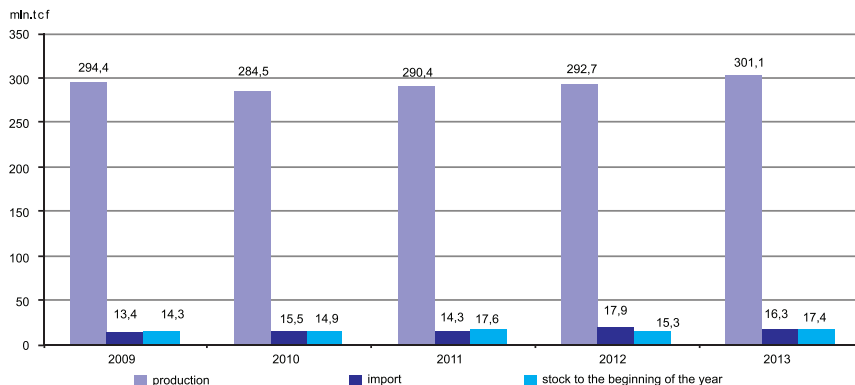
Kazakhstan possesses a huge reserves of natural and energy resources.

Fuel and energy balance in 2013

In spite of it, formed power balance for 2013 showed that republic provides domestic needs in energy supply incompletely, where import is 4,7% 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 86,7%.

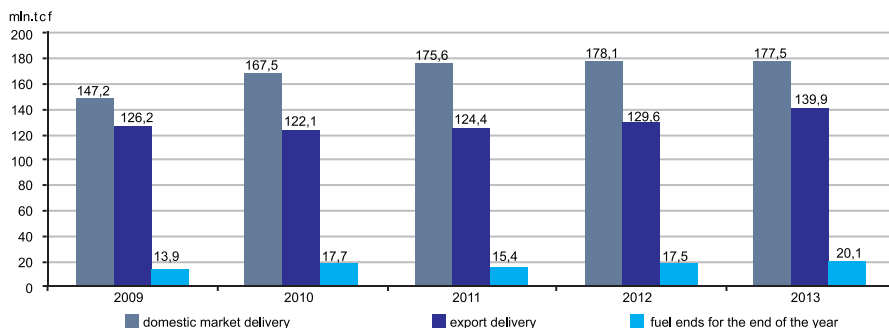
Fuel and energy plan resource form structural part



There have been changes in the structure of distribution form: apparent specific gravity of energy resources supplied to domestic market has increased

from 50% in 2009 to 51,1% in 2013, and the energy resources share of export has decreased from 42,9 to 40,3% respectively.

Fuel and energy balance plan distribution form structural part



In 2013 on the domestic market of the country has consumed 177458,2 thousands or 51,1% from the energy resources total volume, 31,2% has spent for conversion to other energy views and 47,5% has spent for engineering and manufacturing and other needs.

Fuel and energy balance of the republic

composed of the most important energy resources produce markets, the most important are natural resources. Natural resources in energy resources total volume is 69,7%. In the natural resources compound there is 47,5 % of petrol, including gas-condensate, 33,7% of coal, 18,8% of natural gas.

1. Fuel and energy balance

1.1 Fuel and energy balance

	thousands of tons of conventional fuel					2013 in percent to			
	2009	2010	2011	2012	2013	2009	2010	2011	2012
Resources - total	294 428	315 029	323 658	333 907	347 342	118,0	110,3	107,3	104,0
Extracted									
(produced)	266 189	284 461	290 394	292 752	301 112	113,1	105,9	103,7	102,9
Import	13 413	15 483	14 275	17 941	16 280	121,4	105,1	114,0	90,7
Other receipts	562	167	1 368	7 931	12 551	2 233,2	7 515,4	917,4	158,2
Stock at the beginning of the year	14 264	14 918	17 621	15 283	17 400	122,0	116,6	98,7	113,9
Distribution - total	294 428	315 029	323 658	333 907	347 342	118,0	110,3	107,3	104,0
Used up	122 391	130 551	135 686	136 906	139 572	114,0	106,9	102,9	101,9
Including conversion into other kinds of energy	50 079	52 530	52 259	54 653	55 311	110,4	105,3	105,8	101,2
production - technological and other needs	72 313	78 021	83 428	82 253	84 260	116,5	108,0	101,0	102,4
Export	126 181	122 144	124 380	129 560	139 960	110,9	114,6	112,5	108,0
Other consumption	24 817	37 003	39 912	41 199	37 887	152,7	102,4	94,9	92,0
Losses	7 133	7 622	8 295	8 720	9 806	137,5	128,6	118,2	112,4
Stock at the end of the year	13 905	17 709	15 384	17 521	20 118	144,7	113,6	130,8	114,8

1.2 Structure of the fuel and energy balance

in percent to total

	2009	2010	2011	2012	2013
Resources - total	100,0	100,0	100,0	100,0	100,0
Extracted (produced)	90,4	90,3	89,7	87,7	86,7
Import	4,6	4,9	4,4	5,4	4,7
Other receipts	0,2	0,1	0,4	2,4	3,6
Stock at the beginning of the year	4,8	4,7	5,4	4,6	5,0
Distribution - total	100,0	100,0	100,0	100,0	100,0
Used up	41,6	41,4	41,9	41,0	40,2
Including conversion into other kinds of energy	17,0	16,7	16,1	16,4	15,9
production - technological and other needs	24,6	24,8	25,8	24,6	24,3
Export	42,9	38,8	38,4	38,8	40,3
Other consumption	9,9	11,7	12,3	12,3	10,9
Losses	2,4	2,4	2,6	2,6	2,8
Stock at the end of the year	4,7	5,6	4,8	5,2	5,8

1.3 Fuel and energy balance of the Republic of Kazakhstan for 2009

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	294 428	210 976	106 842	37 192	66 943	83 452
Extracted (produced)	266 189	189 549	94 380	33 143	62 026	76 640
Import	13 413	10 133	7 440	2 519	175	3 279
Other receipts	562	-	-	-	-	562
Stock at the beginning of the year	14 264	11 294	5 022	1 531	4 742	2 970
Distribution - total	294 428	210 976	106 842	37 192	66 943	83 452
Consumed within the country	122 391	76 248	16 344	23 790	36 114	46 143
conversion into other kinds of energy	50 079	48 594	387	18 723	29 484	1 485
production - technological and other needs	72 313	27 654	15 957	5 068	6 630	44 658
Export	126 181	110 316	84 737	7 741	17 839	15 865
Other consumption	24 817	10 675	43	3 241	7 391	14 142
Losses	7 133	2 625	751	1 183	690	4 508
Stock at the end of the year	13 905	11 112	4 967	1 237	4 909	2 793

1.4 Fuel and energy balance of the Republic of Kazakhstan for 2010

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	315 029	224 568	110 652	40 984	72 931	90 461
Extracted (produced)	284 461	201 183	98 331	34 998	67 854	83 278
Import	15 483	11 643	7 377	4 107	158	3 841
Other receipts	167	-	-	-	-	167
Stock at the beginning of the year	14 918	11 742	4 944	1 879	4 918	3 176
Distribution - total	315 029	224 568	110 652	40 984	72 931	90 461
Consumed within the country	130 551	83 680	18 115	27 652	37 913	46 871
conversion into other kinds of energy	52 530	51 032	674	19 526	30 833	1 498
production - technological and other needs	78 021	32 648	17 441	8 126	7 080	45 373
Export	122 144	105 346	78 891	7 283	19 172	16 798
Other consumption	37 003	18 100	6 619	2 938	8 543	18 903
Losses	7 622	3 335	883	1 216	1 235	4 288
Stock at the end of the year	17 709	14 108	6 145	1 896	6 067	3 601

1.5 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

1.6 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

1.7 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	347 342,1	242 149,8	114 933,6	45 628,4	81 587,8	105 192,3
Extracted (produced)	301 111,9	212 429,3	100 925,1	38 109,5	73 394,7	88 682,6
Import	16 280,0	11 708,1	9 246,6	2 318,6	142,9	4 571,9
Other receipts	12 550,7	3 974,3	-	3 974,3	-	8 576,4
Stock at the beginning of the year	17 399,6	14 038,2	4 761,9	1 226,1	8 050,2	3 361,4
Distribution - total	347 342,1	242 149,8	114 933,6	45 628,4	81 587,8	105 192,3
Consumed within the country	139 571,6	90 073,6	20 884,0	27 303,6	41 886,0	49 498,0
conversion into other kinds of energy	55 311,4	54 313,6	121,1	21 483,4	32 709,1	997,8
production - technological and other needs	84 260,2	35 760,0	20 762,9	5 820,2	9 176,9	48 500,2
Export	139 959,8	117 873,1	85 219,7	11 934,5	20 718,9	22 086,7
Other consumption	37 886,6	13 500,0	3 386,9	2 609,6	7 503,5	24 386,6
Losses	9 805,6	4 251,6	751,8	1 095,6	2 404,2	5 554,0
Stock at the end of the year	20 118,3	16 451,7	4 691,4	2 685,1	9 075,2	3 666,6

1.8 Fuel and energy balance by components for fuels and energy in terms of conventional fuel for 2013

thousands of tons of conventional fuel

Items of balance	Fuel and energy resources	Coal	Briguettes, pellets of coal	Lignite (brown coal)
Calorie conversion factor	-	0,626	0,8	0,408
Resources	347 342,1	78 772,9	1,5	2 814,9
Stock at the beginning of the year	17 399,6	7 965,2	0,2	85,0
Extracted (produced)	301 111,9	70 665,1	-	2 729,6
Received from aside from all the sources including imports	28 830,7	142,6	1,3	0,3
Distribution	347 342,1	78 772,9	1,5	2 814,9
Used up - total	139 571,7	41 809,5	1,2	76,5
Including conversion into other kinds of energy	55 311,4	32 696,6	1,2	12,5
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non-fuel products	5 627,9	4 222,2	-	-
as a material for non - fuel needs	6 812,2	85,5	-	5,2
Directly as a fuel or energy	13 683,6	246,4	-	0,7
Losses	58 136,5	4 558,7	-	58,2
Released to other enterprises, population and for export	9 805,6	2 404,2	-	-
Stock at the end of the year	177 846,5	25 587,5	-	2 635,0
	20 118,3	8 971,8	0,3	103,4

Continuation

Items of balance	Crude oil	Gas condensate	Natural gas	Associated petroleum gas
Calorie conversion factor	1,234	1,234	1,169	1,15
Resources	98 673,9	16 259,7	20 678,8	24 949,6
Stock at the beginning of the year				
Extracted (produced)	3 970,2	791,7	1 207,5	18,6
Received from aside from all the sources including imports	85 742,8	15 182,3	13 178,4	24 931,1
Distribution	8 960,9	285,7	6 292,9	-
Used up – total	98 673,9	16 259,7	20 678,8	24 949,6
Including	20 565,9	318,1	5 230,1	22 073,5
conversion into other kinds of energy				
Recycling and other types of fuel	121,1	-	2 185,9	19 297,5
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	1 057,9	96,4	12,1	149,8
as a material for non - fuel needs	5 505,1	8,0	39,5	530,6
Directly as a fuel or energy	11 605,1	42,6	0,1	458,9
Losses	2 276,7	171,1	2 992,5	1 636,7
Released to other enterprises, population and for export	712,5	39,3	178,9	916,7
Stock at the end of the year	73 342,8	15 263,8	12 590,3	1 953,8
	4 052,7	638,7	2 679,5	5,6

Continuation

Items of balance	Coke and semi - coke of coal	Sawdust and wood waste	Aviation gasoline	Motor gasoline
Calorie conversion factor	0,99	0,36	1,49	1,49
Resources	3 616,3	3,3	18,5	7 532,6
Stock at the beginning of the year	182,4	0,4	3,7	1 252,8
Extracted (produced)	2 355,3	1,2	10,0	4 080,1
Received from aside from all the sources including imports				
Distribution	1 078,7	1,7	4,9	2 199,7
Used up - total	3 616,3	3,3	18,5	7 532,6
Including	3 404,7	2,6	15,8	1 792,1
conversion into other kinds of energy				
Recycling and other types of fuel	0,7	-	-	0,1
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	-	1,1	-
as a material for non - fuel needs	564,3	-	-	-
Directly as a fuel or energy	474,3	1,4	-	4,0
Losses	2 365,4	1,2	14,7	1 788,0
Released to other enterprises, population and for export	3,5	-	0,2	36,1
Stock at the end of the year	22,6	0,1	0,1	4 460,2
	185,5	0,6	2,4	1 244,1

Continuation

Items of balance	Jet fuel of gasoline type	Kerosene	Gasoil	Heating oil
Calorie conversion factor	1,49	1,47	1,45	1,379
Resources	97,2	889,1	11 707,9	9 833,7
Stock at the beginning of the year	9,5	98,9	1 098,6	391,1
Extracted (produced)	61,4	540,3	7 453,6	5 149,6
Received from aside from all the sources including imports	26,4	249,8	3 155,6	4 292,9
Distribution	97,2	889,1	11 707,9	9 833,7
Used up - total	81,5	752,3	6 232,8	1 776,6
Including conversion into other kinds of energy	-	-	80,0	508,1
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	0,1	4,0	84,2
as a material for non - fuel needs	-	-	0,7	1,3
Directly as a fuel or energy	-	1,3	85,7	1,5
Losses	81,5	750,9	6 062,3	1 181,4
Released to other enterprises, population and for export	-	0,3	88,3	0,3
Stock at the end of the year	11,4	30,8	4 248,8	7 437,6
	4,4	105,6	1 138,0	619,2

Continuation

Items of balance	Domestic heating fuel	Wood fuel	Liquefied propane and butane	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases
Calorie conversion factor	1,413	0,266	2,209	1,57
Resources	276,1	70,4	6 257,4	927,3
Stock at the beginning of the year	35,0	7,6	241,2	2,7
Extracted (produced)	223,6	57,4	4 864,6	789,1
Received from aside from all the sources including imports	17,4	5,4	1 151,6	135,5
Distribution	276,1	70,4	6 257,4	927,3
Used up - total	111,8	20,7	414,1	391,3
Including conversion into other kinds of energy	4,6	-	6,3	-
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	-	-	-
as a material for non - fuel needs	0,8	-	0,4	-
Directly as a fuel or energy	0,4	-	12,8	1,2
Losses	106,0	20,6	394,6	390,1
Released to other enterprises, population and for export	-	-	78,6	-
Stock at the end of the year	123,9	40,8	5 491,2	534,6
	40,3	8,9	273,5	1,4

Continuation

Items of balance	Lean gas	Oil and shale coke	Oil and shale bitumen	Furnace gas
Calorie conversion factor	1,57	1,08	0,544	0,143
Resources	14 304,6	324,7	445,2	638,9
Stock at the beginning of the year	-	12,8	24,5	-
Extracted (produced)	14 304,6	283,3	180,3	638,9
Received from aside from all the sources including imports	-	28,6	240,3	-
Distribution	14 304,6	324,7	445,2	638,9
Used up - total	2 306,0	29,1	219,4	638,9
Including conversion into other kinds of energy	20,7	-	-	-
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	20,9	49,7	-
as a material for non - fuel needs	-	-	108,2	638,9
Directly as a fuel or energy	2 285,3	8,1	61,5	-
Losses	168,9	-	-	-
Released to other enterprises, population and for export	11 829,7	273,3	205,5	-
Stock at the end of the year	-	22,2	20,3	-

Continuation

Items of balance	Coke gas	Gas produced by distillation at refineries	Electric power	Heat energy
Calorie conversion factor	0,571	1,169	0,345	0,149
Resources	450,5	220,4	30 791,0	14 116,7
Stock at the beginning of the year	-	-	-	-
Extracted (produced)	450,5	220,4	30 232,7	14 116,7
Received from aside from all the sources including imports	-	-	558,3	-
Distribution	450,5	220,4	30 791,0	14 116,7
Used up - total	450,5	218,2	22 220,3	8 389,8
Including conversion into other kinds of energy	-	-	343,1	33,1
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	0,1	-	-
as a material for non - fuel needs	-	-	-	-
Directly as a fuel or energy	450,5	218,1	21 877,2	8 356,7
Losses	-	-	3 854,9	1 318,9
Released to other enterprises, population and for export	-	2,2	4 715,8	4 408,0
Stock at the end of the year	-	-	-	-

Completion

Items of balance	Hydropower produced by hydroelectric power plants	Wind electric power produced by wind power plants	Solar electric power produced by solar power plants
Calorie conversion factor	0,345	0,345	0,345
Resources	2 667,1	1,6	0,3
Stock at the beginning of the year	-	-	-
Extracted (produced)	2 667,1	1,6	0,3
Received from aside from all the sources including imports	-	-	-
Distribution	2 667,1	1,6	0,3
Used up - total	27,6	0,7	-
Including			
conversion into other kinds of energy	-	-	-
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	-	-
as a material for non - fuel needs	-	-	-
Directly as a fuel or energy	27,6	0,7	-
Losses	4,1	-	-
Released to other enterprises, population and for export	2 635,5	0,9	0,3
Stock at the end of the year	-	-	-

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

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Items of balance	Fuel and energy resources	Coal	Briguettes, pellets of coal	Lignite (brown coal)
Calorie conversion factor		29,310	29,310	11,280
Resources	11 839 412,6	3 688 231,4	55,2	77 823,1
Stock at the beginning of the year	679 793,9	372 939,9	6,4	2 350,3
Extracted (produced)	10 245 648,0	3 308 615,9		75 465,6
Received from aside from all the sources including imports	913 970,7	6 675,6	48,8	7,1
Distribution	11 839 412,6	3 688 231,4	55,2	77 823,1
Used up - total	4 753 263,1	1 957 564,6	44,8	2 115,8
Including				
conversion into other kinds of energy	2 396 484,9	1 530 892,1	43,3	344,5
Recycling and other types of fuel	246 721,8	197 687,9		
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	236 585,2	4 005,0		143,3
as a material for non - fuel needs	473 998,3	11 534,9		19,9
Directly as a fuel or energy	1 399 472,9	213 444,7	1,4	1 608,0
Losses	268 524,2	112 565,3		
Released to other enterprises, population and for export	6 035 513,5	1 198 032,3		72 849,8
Stock at the end of the year	782 111,9	420 069,1	10,4	2 857,4

Continuation

Items of balance	Crude oil	Gas condensate	Natural gas	Associated petroleum gas
Calorie conversion factor	42,620	44,320	39,020	45,590
Resources	3 408 008,4	583 980,6	690 237,6	989 090,2
Stock at the beginning of the year	137 123,8	28 434,4	40 305,2	735,4
Extracted (produced)	2 961 392,9	545 284,5	439 880,5	988 354,8
Received from aside from all the sources including imports	309 491,7	10 261,7	210 051,9	
Distribution	3 408 008,4	583 980,6	690 237,6	989 090,2
Used up - total	710 308,0	11 423,7	174 575,9	875 069,6
Including conversion into other kinds of energy	4 182,7	-	72 962,4	765 018,9
Recycling and other types of fuel	36 539,5	3 463,7	404,5	5 936,9
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	190 134,2	285,9	1 319,8	21 036,3
as a material for non - fuel needs	400 817,7	1 529,9	2,9	18 192,3
Directly as a fuel or energy	78 633,9	6 144,2	99 886,2	64 885,3
Losses	24 606,8	1 410,0	5 971,7	36 340,2
Released to other enterprises, population and for export	2 533 121,6	548 209,1	420 250,5	77 457,0
Stock at the end of the year	139 971,9	22 937,8	89 439,4	223,3

Continuation

Items of balance	Coke and semi - coke of coal	Sawdust and wood waste	Aviation gasoline	Motor gasoline
Calorie conversion factor	26,380	12,600	43,970	43,970
Resources	96 362,9	116,0	546,9	222 288,8
Stock at the beginning of the year	4 859,6	14,5	108,7	36 971,6
Extracted (produced)	62 759,7	41,5	294,6	120 403,1
Received from aside from all the sources including imports	28 743,5	60,0	143,6	64 914,1
Distribution	96 362,9	116,0	546,9	222 288,8
Used up - total	90 722,8	91,8	467,5	52 886,3
Including conversion into other kinds of energy	17,7	-	-	3,3
Recycling and other types of fuel	-	-	32,5	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	15 037,3	-	-	0,2
as a material for non - fuel needs	12 637,4	50,1	0,7	118,8
Directly as a fuel or energy	63 030,4	41,7	434,2	52 764,0
Losses	94,4	-	5,4	1 066,7
Released to other enterprises, population and for export	603,2	1,9	2,2	131 622,3
Stock at the end of the year	4 942,4	22,3	71,9	36 713,5

Continuation

Items of balance	Jet fuel of gasoline type	Kerosene	Gasoil	Heating oil
Calorie conversion factor	43,680	43,210	42,500	41,510
Resources	2 849,9	26 133,8	343 161,9	296 008,0
Stock at the beginning of the year	277,7	2 907,2	32 201,0	11 773,9
Extracted (produced)	1 799,1	15 883,1	218 468,0	155 011,0
Received from aside from all the sources including imports	773,2	7 343,6	92 492,9	129 223,2
Distribution	2 849,9	26 133,8	343 161,9	296 008,0
Used up - total	2 389,3	22 114,3	182 685,1	53 477,2
Including conversion into other kinds of energy	0,2	-	2 345,1	15 295,0
Recycling and other types of fuel	-	2,8	118,7	2 535,2
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	1,1	21,5	39,3
as a material for non - fuel needs	-	37,4	2 510,9	46,3
Directly as a fuel or energy	2 389,1	22 073,0	177 689,0	35 561,4
Losses	0,1	10,0	2 587,6	8,0
Released to other enterprises, population and for export	333,0	906,6	124 534,4	223 883,9
Stock at the end of the year	127,5	3 102,9	33 354,9	18 638,9

Continuation

Items of balance	Domestic heating fuel	Wood fuel	Liquefied propane and butane	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases
Calorie conversion factor	42,500	12,600	45,590	45,590
Resources	8 303,9	3 336,0	129 141,3	26 926,1
Stock at the beginning of the year	1 053,4	359,1	4 977,0	78,1
Extracted (produced)	6 725,8	2 720,0	100 396,8	22 913,2
Received from aside from all the sources including imports	524,7	256,9	23 767,5	3 934,9
Distribution	8 303,9	3 336,0	129 141,3	26 926,1
Used up - total	3 364,0	979,6	8 545,5	11 362,4
Including conversion into other kinds of energy	138,0	0,2	130,4	-
Recycling and other types of fuel	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	24,7	-	7,3	-
as a material for non - fuel needs	12,7	2,1	264,5	34,8
Directly as a fuel or energy	3 188,7	977,3	8 143,3	11 327,6
Losses	1,4	-	1 622,5	-
Released to other enterprises, population and for export	3 725,3	1 935,0	113 328,6	15 524,0
Stock at the end of the year	1 213,2	421,4	5 644,7	39,7

Continuation

Items of balance	Lean gas	Oil and shale coke	Oil and shale bitumen	Furnace gas
Calorie conversion factor	45,590	36,400	41,800	4,000
Resources	415 380,2	10 943,5	34 209,7	17 871,9
Stock at the beginning of the year	-	431,6	1 885,3	-
Extracted (produced)	415 380,2	9 548,5	13 857,7	17 871,9
Received from aside from all the sources including imports	-	963,4	18 466,7	-
Distribution	415 380,2	10 943,5	34 209,7	17 871,9
Used up - total	66 961,7	981,0	16 858,3	17 871,9
Including conversion into other kinds of energy	602,0	-	-	-
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	706,1	3 820,7	-
as a material for non - fuel needs	-	0,7	8 312,3	17 871,9
Directly as a fuel or energy	66 359,7	274,3	4 725,3	-
Losses	4 904,2	-	-	-
Released to other enterprises, population and for export	343 514,3	9 212,8	15 792,0	-
Stock at the end of the year	-	749,7	1 559,4	-

Continuation

Items of balance	Coke gas	Gas produced by distillation at refineries	Electric power	Heat energy
Calorie conversion factor	17,590	46,100	3,600	4,187
Resources	13 878,9	8 690,4	321 297,2	396 688,9
Stock at the beginning of the year	-	-	-	-
Extracted (produced)	13 878,9	8 690,4	315 471,5	396 688,9
Received from aside from all the sources including imports	-	-	5 825,7	-
Distribution	13 878,9	8 690,4	321 297,2	396 688,9
Used up - total	13 878,9	8 604,4	231 864,5	235 758,9
Including conversion into other kinds of energy	-	-	3 580,3	928,9
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	2,7	-	-
as a material for non - fuel needs	-	-	-	-
Directly as a fuel or energy	13 878,9	8 601,7	228 284,2	234 830,0
Losses	-	-	40 224,9	37 062,6
Released to other enterprises, population and for export	-	86,0	49 207,9	123 867,4
Stock at the end of the year	-	-	-	-

end

Items of balance	Hydropower produced by hydroelectric power plants	Wind electric power produced by wind power plants	Solar electric power produced by solar power plants
Calorie conversion factor	3,600	3,600	3,600
Resources	27 830,7	16,4	2,8
Stock at the beginning of the year	-	-	-
Extracted (produced)	27 830,7	16,4	2,8
Received from aside from all the sources including imports	-	-	-
Distribution	27 830,7	16,4	2,8
Used up - total	287,8	7,3	
Including conversion into other kinds of energy	-	-	-
Recycling and other types of fuel as a raw material for the production of chemical, petrochemical industries and other non - fuel products as a material for non - fuel needs	-	-	-
Directly as a fuel or energy	287,8	7,3	-
Losses	42,4	-	-
Released to other enterprises, population and for export	27 500,5	9,1	2,8
Stock at the end of the year	-	-	-

2. Commodity markets of certain types of fuel and energy

Coal market including lignite

The share of coal in the natural resources total volume in 2009-31,7%, in 2010-32,5%, in 2011-33,5%, in 2012-34 %, in 2013-33,7%. In the coal resources structure the share of the export in distribution in 2009-26,3%, in 2010-26,3%, in 2011-24%, in 2012-25,1%, in 2013-25,5%. Herewith, the share of domestic market is: 72,7%, 72,1%, 73,3%, 72%, 71,6% respectively.

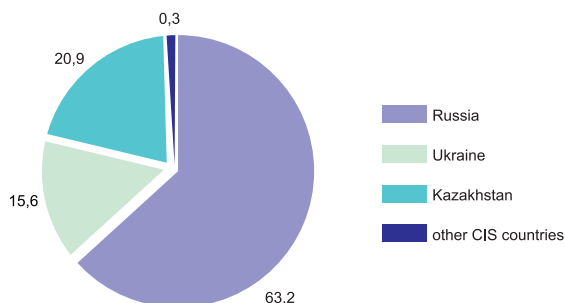
2.1 Balances of resources and distribution of coal, including lignite

thousands of tons

	2009	2010	2011	2012	2013
Resources	108 748,9	119 105,8	126 374,1	131 042,1	132 734,5
Stock at the beginning of the year	7 614,9	7 920,8	9 769,2	10 301,2	12 932,3
Extracted (produced)	100 854,3	110 929,6	116 449,5	120 527,3	119 573,7
Received from aside from all the sources including imports	279,7	255,4	155,3	213,6	228,4
Distribution	108 748,9	119 105,8	126 374,1	131 042,1	132 734,5
Used up	58 316,7	61 269,2	64 726,8	65 356,2	66 975,9
Including conversion into other kinds of energy	47 690,9	49 913,7	50 143,5	51 470,3	52 261,6
production - technological and other needs	10 625,8	11 355,5	14 583,3	13 885,9	14 714,3
Losses	1 104,4	1 974,7	3 369,9	3 761,8	3 840,5
Released to other enterprises, population and for export	41 421,8	46 081,2	47 978,4	48 872,9	47 332,8
Stock at the end of the year	7 906,0	9 780,7	10 299,0	13 051,2	14 585,3

Extraction in the CIS countries in 2013

in percent to total



Consumption, export and import

thousands of tons

	Coal including lignite		
	consumption in the domestic market	export	import
Akmolinskaya	1 943,8	405,1	-
Aktubinskaya	104,3	-	-
Almatinskaya	3 323,1	0,4	1,0
Atyrauskaya	0,5	-	-
Zapadno - Kazakhstanskaya	14,6	-	-
Zhambylskaya	210,3	18,2	4,0
Karagandinskaya	21 810,2	7 852,7	11,6
Kostanaiskaya	1 722,7	-	-
Kyzylordinskaya	149,4	-	-
Mangistauskaya	4,5	-	3,5
Yuzhno - Kazakhstanskaya	851,6	-	0,9
Pavlodarskaya	27 843,1	24 974,3	158,1
Severo - Kazakhstanskaya	2 648,9	3,9	0,1
Vostochno - Kazakhstanskaya	3 507,5	556,3	40,5
Astana city	2 664,7	-	0,1
Almaty city	178,3	-	8,6

Crude oil market

Unrefined oil resources in 2013 where 80 mln.tons, including 69,5 mln.tons was mining in republic and 7,3 mln.tons import. From the total resources volume on domestic market consumption was 16,7 mln tons and for exports was released 59,4 mln.tons. Republic oil market still has export raw orientation. Oil supplies implement generally to Italy (26,6%), France (8,9%).

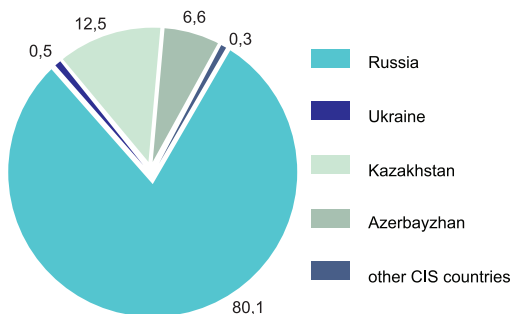
2.2 Balance of resources and distribution of crude oil

thousands of tons

	2009	2010	2011	2012	2013
Resources	74 021,3	77 537,6	76 689,4	75 866,6	79 962,7
Stock at the beginning of the year	3 637,5	3 475,0	4 402,7	3 219,0	3 217,4
Extracted (produced)	64 354,6	68 084,3	67 765,1	66 475,2	69 483,6
Received from aside from all the sources including imports	6 029,2	5 978,3	4 521,6	6 172,4	7 261,7
Distribution	74 021,3	77 537,6	76 689,4	75 866,6	79 962,7
Used up	12 723,4	14 245,1	15 506,0	15 127,9	16 666,1
Including conversion into other kinds of energy	287,4	193,1	156,0	104,0	98,1
production - technological and other needs	12 436,0	14 052,0	15 350,1	15 023,9	16 567,9
Losses	582,0	696,5	591,2	640,4	577,4
Released to other enterprises, population and for export	57 222,5	58 191,0	57 283,6	56 873,3	59 435,0
Stock at the end of the year	3 493,5	4 405,0	3 308,6	3 224,9	3 284,2

Oil extraction in the CIS countries in 2013

in percent to total



Consumption, export and import

thousands of tons

	Crude oil		
	consumption in the domestic market	export	import
Akmolinskaya	-	-	-
Aktubinskaya	1 476,5	6 494,7	13,5
Almatinskaya	6,5	-	-
Atyrauskaya	5 141,9	30 475,4	0,1
Zapadno - Kazakhstanskaya	436,8	279,2	160,2
Zhambylskaya	176,4	-	-
Karagandinskaya	1,0	-	-
Kostanaiskaya	-	-	-
Kyzylordinskaya	328,6	6 483,5	-
Mangistauskaya	542,1	11 878,7	-
Yuzhno - Kazakhstanskaya	4 252,8	1 054,4	-
Pavlodarskaya	4 299,2	-	1 881,4
Severo - Kazakhstanskaya	3,6	-	3,9
Vostochno - Kazakhstanskaya	0,5	-	-
Astana city	-	-	-
Almaty city	-	218,6	5 202,5

Natural gas market

In 2013 natural gas resources for 63,7% by equity production, and for 11,2% by import from CIS countries. There is tendency the share of natural gas is increasing in total volume of natural resources (from 17,6% in 2009 up to 18,8% in 2013)

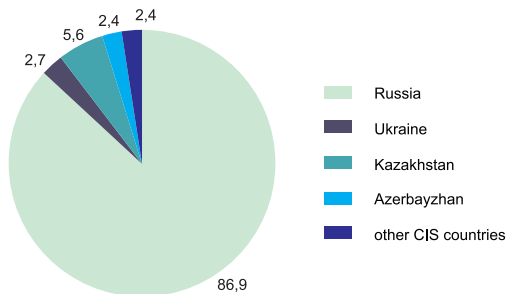
2.3 Balances of resources and natural gas distribution

mln. m³

	2009	2010	2011	2012	2013
Resources	14 301,7	15 719,3	16 635,3	19 404,1	17 689,3
Stock at the beginning of the year	1 195,3	1 598,7	1 612,8	1 169,9	1 032,9
Extracted (produced)	10 951,8	10 607,3	10 504,4	10 890,3	11 273,2
Received from aside from all the sources including imports	2 154,7	3 513,3	4 518,1	7 343,9	5 383,2
Distribution	14 301,7	15 719,3	16 635,3	19 404,1	17 689,3
Used up	5 780,5	6 630,8	6 548,5	6 969,1	4 474,0
Including conversion into other kinds of energy	3 026,9	1 545,9	1 737,0	3 336,9	1 869,9
production - technological and other needs	2 753,6	5 084,9	4 811,5	3 632,2	2604,1
Losses	76,9	82,8	95,6	131,7	153,0
Released to other enterprises, population and for export	7 395,6	7 392,8	8 821,3	11 270,4	10 770,1
Stock at the end of the year	1 048,8	1 612,8	1 169,9	1 032,9	2 292,1

Extraction in the CIS countries in 2013

in percent to total



Consumption, export and import

mln. m³

	Natural gas		
	consumption in the domestic market	export	import
Akmolinskaya	-	-	-
Aktubinskaya	87,1	-	-
Almatinskaya	128,7	-	-
Atyrauskaya	254,3	-	-
Zapadno - Kazakhstanskaya	611,4	-	-
Zhambylskaya	532,5	-	-
Karagandinskaya	-	-	-
Kostanaiskaya	583,4	-	-
Kyzylordinskaya	61,6	-	-
Mangistauskaya	721,7	-	-
Yuzhno - Kazakhstanskaya	485,9	-	-
Pavlodarskaya	-	-	-
Severo - Kazakhstanskaya	-	-	-
Vostochno - Kazakhstanskaya	92,2	72,4	-
Astana city	-	1 940,1	625,6
Almaty city	915,0	8 196,6	1 357,8

Electric power market

Electricity production was in 2009-78,7 mlr.kw/h, in 2010-82,6 mlr.kw/h, in 2011-78,7 mlr.kw/h, in 2012-83,6 mlr.kw/h, in 2013-87,6 mlr.kw/h. In 2013 export to Russia was 4 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, 2,1 mlr.kw/h of electricity was imported, thence 17,7% from Kyrgyzstan, 82,3% from Russia. Electricity consumption on domestic market of the country was in 2013-75,1 mlr.kw/h, it made 84,1% from the resources total volume. Electricity losses in 2013 where -12,5%.

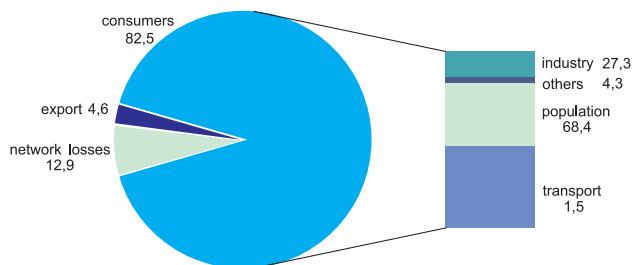
2.4 Balances of resources and electricity distribution

mln. kWh

	2009	2010	2011	2012	2013
Resources	80 438,9	85 560,1	81 302,0	87 818,5	89 249,2
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	78 729,3	82 646,5	78 701,6	83 566,6	87 631,0
Received from aside from all the sources including imports	1 709,6	2 913,6	2 600,4	4 251,9	1 618,2
Distribution	80 438,9	85 560,1	81 302,0	87 818,5	89 249,2
Used up	63 049,4	64 955,6	61 887,8	62 832,8	64 406,8
Including conversion into other kinds of energy	1 780,0	1 871,5	1 886,5	1 965,8	994,5
production - technological and other needs	61 269,4	63 084,2	60 001,3	60 867,1	63 412,3
Losses	6 471,6	6 633,2	6 367,5	7 141,9	11 173,6
Released to other enterprises, population and for export	10 917,8	13 971,2	13 046,7	17 843,7	13 668,9
Stock at the end of the year	-	-	-	-	-

Electricity consumption in 2013

in percent to total



Consumption, export and import

mln. kWh

	Electricity		
	consumption in the domestic market	export	import
Akmolinskaya	2 242,9	-	-
Aktubinskaya	3 205,6	-	27,6
Almatinskaya	3 120,3	-	13,6
Atyrauskaya	3 017,8	-	51,6
Zapadno-Kazakhstanskaya	1 242,4	2,6	42,3
Zhambylskaya	3 679,9	-	37,4
Karagandinskaya	10 822,8	-	51,8
Kostanaiskaya	4 683,8	-	28,7
Kyzylordinskaya	1 789,3	-	-
Mangistauskaya	3 435,6	-	-
Yuzhno-Kazakhstanskaya	2 891,9	-	120,4
Pavlodarskaya	13 170,5	2 955,5	-
Severo-Kazakhstanskaya	1 356,6	38,3	-
Vostochno-Kazakhstanskaya	5 027,9	-	53,3
Astana city	2 996,6	-	25,2
Almaty city	1 723,0	-	389,2

Heat energy market

Heat energy supplies on republic domestic market. In 2009 the consumption was 82,3 mlnGcal, in 2013-85,9 mlnGcal. There are losses in 2013-11,1 mlnGcal, 8,8 mlnGcal, that is in the percentage from the heat power resources total volume is - 11,9%, 9,3% respectively.

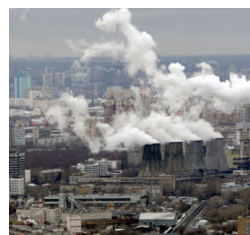
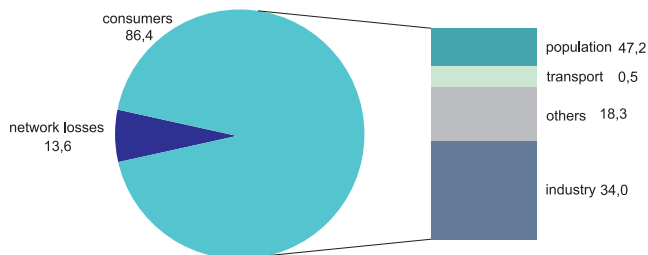
2.5 Balances of resources and heat energy distribution

thousands of Gcal

	2009	2010	2011	2012	2013
Resources	93 380,5	96 103,5	96 825,3	99 852,2	94 743,0
Stock at the beginning of the year	-	-	-	-	-
Extracted (produced)	93 380,5	96 103,5	96 825,3	99 852,2	94 743,0
Received from aside from all the sources including imports	-	-	-	-	-
Distribution	93 380,5	96 103,5	96 825,3	99 852,2	94 743,0
Used up	57 563,6	55 782,3	54 109,9	57 120,3	56 307,4
Including conversion into other kinds of energy	1 280,3	1 301,4	482,1	518,5	221,8
production - technological and other needs	56 283,2	54 480,9	53 627,8	56 601,8	56 085,5
Losses	11 092,0	10 579,5	10 727,8	10 805,6	8 851,8
Released to other enterprises, population and for export	24 724,9	29 741,7	31 987,6	31 926,3	29 583,8
Stock at the end of the year	-	-	-	-	-

Heat energy consumption in 2013

in percent to total



Consumption

thousands of Gkal

	Thermal energy	
	consumption in the domestic market	
Akmolinskaya		2 292,8
Aktubinskaya		4 043,8
Almatinskaya		1 815,3
Atyrauskaya		1 822,5
Zapadno - Kazakhstanskaya		2 152,1
Zhambylskaya		1 156,8
Karagandinskaya		8 311,2
Kostanaiskaya		3 800,6
Kyzylordinskaya		743,2
Mangistauskaya		2 225,6
Yuzhno - Kazakhstanskaya		1 708,8
Pavlodarskaya		10 515,7
Severo - Kazakhstanskaya		3 084,4
Vostochno - Kazakhstanskaya		5 125,9
Astana city		3 073,8
Almaty city		4 435,1

Oil products market

The demand for mineral oil products partly was made by its import. In 2013 the production of propane and butane has increased, reduced on 9%, petrol on 7,1 %, residual oil on 5,1 %, gas oils production has reduced on 4,8%.

2.6 Balances of resources and motor gasoline distribution

thousands of tons

	2009	2010	2011	2012	2013
Resources	4 047,3	4 378,3	4 201,0	5 136,5	5 055,5
Stock at the beginning of the year	545,5	724,3	782,6	549,4	840,8
Extracted (produced)	2 613,2	2 926,0	2 775,4	2 876,7	2 738,3
Received from aside from all the sources including imports	888,5	728,0	642,9	1 710,5	1 476,3
Distribution	4 047,3	4 378,3	4 201,0	5 136,5	5 055,5
Used up	1 597,2	1 650,2	1 501,9	1 366,6	1 202,8
Including					
conversion into other kinds of energy	2,4	3,1	0,3	2,8	0,1
as a raw material for other types of fuel	-	-	2,2	0,9	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	30,9	0,7	-	-	-
as a raw material for non - fuel needs	4,0	1,6	1,0	0,7	2,7
directly as fuel or energy	1 559,9	1 644,9	1 498,4	1 362,2	1 200,0
Losses	8,3	6,4	15,8	12,1	24,3
Released to other enterprises, population and for export	1 892,2	1 904,6	2 119,1	2 910,8	2 993,5
Stock at the end of the year	549,5	817,0	564,2	847,0	835,0

Consumption, export and import

thousands of tons

	Motor gasoline		
	consumption in the domestic market	export	import
Akmolinskaya	59,5	-	-
Aktubinskaya	59,3	-	81,0
Almatinskaya	111,4	-	14,6
Atyrauskaya	48,5	35,9	11,6
Zapadno - Kazakhstanskaya	39,4	-	23,1
Zhambylskaya	44,1	-	-
Karagandinskaya	63,2	-	2,8
Kostanaiskaya	57,1	-	-
Kyzylordinskaya	99,2	-	-
Mangistauskaya	30,9	-	-
Yuzhno - Kazakhstanskaya	126,9	-	-
Pavlodarskaya	52,0	-	3,4
Severo - Kazakhstanskaya	37,9	-	374,5
Vostochno - Kazakhstanskaya	93,7	-	-
Astana city	99,8	-	108,6
Almaty city	179,8	1,9	520,1

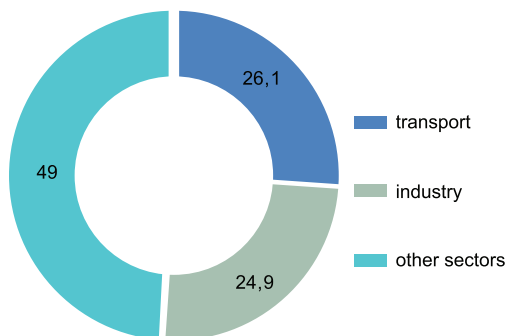
2.7 Balances of resources and gasoil distribution

thousands of tons

	2009	2010	2011	2012	2013
Resources	5 124,7	5 514,4	6 464,6	7 822,7	8 074,4
Stock at the beginning of the year	611,5	662,2	825,8	720,3	757,7
Extracted (produced)	4 260,9	4 435,8	4 664,8	4 713,8	5 140,4
Received from aside from all the sources including imports	252,4	416,4	974,0	2 388,6	2 176,3
Distribution	5 124,7	5 514,4	6 464,6	7 822,7	8 074,4
Used up	2 171,1	2 372,4	3 980,5	4 205,2	4 298,5
Including					
conversion into other kinds of energy	18,3	44,5	38,1	73,1	55,2
as a raw material for other types of fuel	-	-	17,1	31,4	2,8
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,3	1,4	0,7	0,5	0,5
as a raw material for non - fuel needs	10,6	6,5	9,5	3,8	59,1
directly as fuel or energy	2 142,0	2 320,0	3 915,1	4 096,4	4 180,9
Losses	2,2	3,4	5,8	20,8	60,9
Released to other enterprises, population and for export	2 351,1	2 304,6	1 776,2	2 831,4	2 930,2
Stock at the end of the year	600,3	834,0	702,1	765,3	784,8

Gasoil consumption in 2013

in percent to total



Consumption, export and import

thousands of tons

	Gasoil		
	consumption in the domestic market	export	import
Akmolinskaya	251,7	-	-
Aktubinskaya	205,7	-	66,1
Almatinskaya	458,8	-	28,9
Atyrauskaya	122,3	9,8	1,9
Zapadno - Kazakhstanskaya	356,2	111,3	42,7
Zhambylskaya	127,4	5,9	-
Karagandinskaya	286,1	-	-
Kostanaiskaya	307,0	-	23,7
Kyzylordinskaya	345,8	-	0,6
Mangistauskaya	185,3	-	4,5
Yuzhno - Kazakhstanskaya	200,8	0,7	-
Pavlodarskaya	427,3	400,0	2,7
Severo - Kazakhstanskaya	141,8	-	136,5
Vostochno - Kazakhstanskaya	424,0	-	-
Astana city	288,7	-	32,1
Almaty city	169,6	1 123,4	314,5

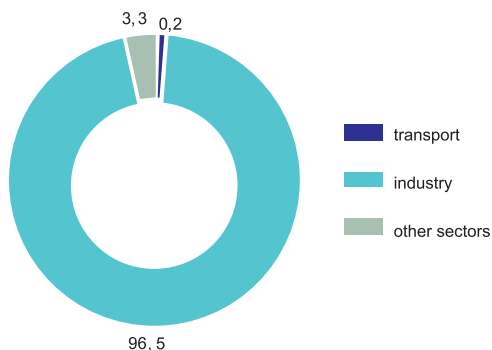
2.8 Balances of resources and heating oil distribution

thousands of tons

	2009	2010	2011	2012	2013
Resources	4 140,3	4 269,9	4 645,1	4 445,7	7 131,0
Stock at the beginning of the year	564,7	463,1	365,9	387,0	283,6
Extracted (produced)	3 261,3	3 806,0	4 276,9	3 935,8	3 734,3
Received from aside from all the sources including imports	314,3	0,9	2,3	122,9	3 113,1
Distribution	4 140,3	4 269,9	4 645,1	4 445,7	7 131,0
Used up	1 365,5	1 287,5	1 351,6	1 550,5	1 288,3
Including conversion into other kinds of energy	457,7	412,1	336,2	405,3	368,5
as a raw material for other types of fuel	-	-	140,7	74,7	61,1
as a raw material for the production of chemical, petrochemical industries and other non-fuel products	8,6	0,9	0,1	0,1	0,9
as a raw material for non-fuel needs	5,1	3,8	3,6	3,1	1,1
directly as fuel or energy	894,1	870,7	871,0	1 067,3	856,7
Losses	0,1	0,1	0,1	0,1	0,2
Released to other enterprises, population and for export	2 311,1	2 608,3	2 906,3	2 611,6	5 393,5
Stock at the end of the year	463,6	374,1	387,1	283,7	449,0

Heating oil consumption in 2013

in percent to total



Consumption, export and import

thousands of tons

	Heating oil		
	consumption in the domestic market	export	import
Akmolinskaya	30,6	-	-
Aktubinskaya	3,4	54,2	-
Almatinskaya	95,7	15,7	1,7
Atyrauskaya	2,6	1 961,7	-
Zapadno - Kazakhstanskaya	7,3	-	3,2
Zhambylskaya	178,5	17,3	-
Karagandinskaya	347,5	-	-
Kostanaiskaya	22,0	-	1,5
Kyzylordinskaya	58,7	17,3	0,2
Mangistauskaya	0,3	0,6	-
Yuzhno - Kazakhstanskaya	104,7	1 507,8	-
Pavlodarskaya	345,6	389,9	3,2
Severo - Kazakhstanskaya	11,0	7,1	4,4
Vostochno - Kazakhstanskaya	44,2	-	3,3
Astana city	11,0	-	47,1
Almaty city	25,2	1 420,5	165,7

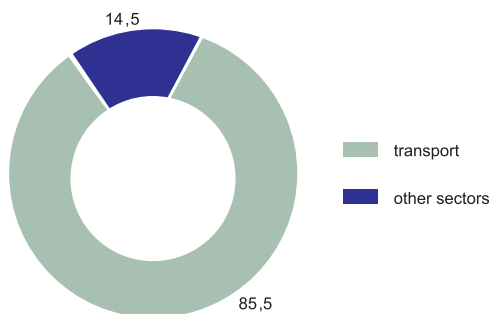
2.9 Balances of resources and distribution of kerosene including jet fuel of kerosene type

tons

	2009	2010	2011	2012	2013
Resources	492 605	541 619	427 519	535 611	604 810
Stock at the beginning of the year	48 089	45 706	39 664	37 613	67 280
Extracted (produced)	374 346	490 828	387 146	366 906	367 579
Received from aside from all the sources including imports	70 170	5 085	709	131 092	169 951
Distribution	492 605	541 619	427 519	535 611	604 810
Used up	370 579	336 643	281 206	458 798	511 787
Including conversion into other kinds of energy	-	102	-	-	1
as a raw material for other types of fuel	-	-	886	-	65
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	35	-	644	211	25
as a raw material for non - fuel needs	282	4 229	331	105	865
directly as fuel or energy	370 262	332 312	279 345	458 482	510 831
Losses	1 912	454	41	84	231
Released to other enterprises, population and for export	65 275	164 849	108 513	6 970	20 982
Stock at the end of the year	54 839	39 673	37 759	69 759	71 810

Kerosene consumption including jet fuel of kerosene type in 2013

in percent to total



Consumption, export and import

thousands of tons

	Kerosene including jet fuel of kerosene type		
	consumption in the domestic market	export	import
Akmolinskaya	189,7	-	-
Aktubinskaya	34,0	-	46,9
Almatinskaya	1,0	-	-
Atyrauskaya	7,2	-	6,5
Zapadno -Kazakhstanskaya	0,3	-	0,5
Zhambylskaya	2,9	-	-
Karagandinskaya	8,5	-	-
Kostanaiskaya	1,3	0,1	-
Kyzylordinskaya	0,3	-	-
Mangistauskaya	0,9	0,2	-
Yuzhno - Kazakhstanskaya	5,8	-	-
Pavlodarskaya	1,1	-	-
Severo - Kazakhstanskaya	-	-	-
Vostochno - Kazakhstanskaya	1,1	1,1	-
Astana city	8,6	2,6	15,2
Almaty city	248,9	11,8	7,9

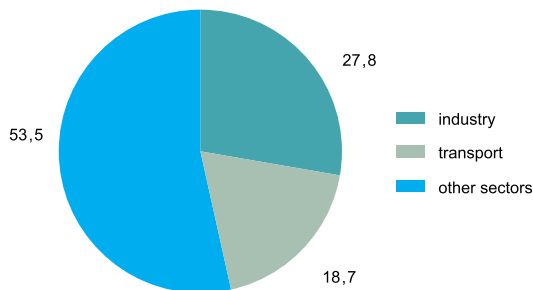
2.10 Balances of resources and distribution of domestic heating fuel

thousands of tons

	2009	2010	2011	2012	2013
Resources	165,1	228,7	166,6	263,9	195,4
Stock at the beginning of the year	20,6	22,5	30,8	38,4	24,8
Extracted (produced)	144,5	176,9	109,4	176,0	158,3
Received from aside from all the sources including imports	-	29,3	26,4	49,5	12,3
Distribution	165,1	228,7	166,6	263,9	195,4
Used up	69,8	70,2	72,6	91,2	79,2
Including					
conversion into other kinds of energy	3,8	3,2	1,3	16,8	3,2
as a raw material for other types of fuel	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,2	0,2	0,5	0,4	0,6
as a raw material for non - fuel needs	-	-	0,2	0,3	0,3
directly as fuel or energy	65,8	66,8	70,6	73,6	75,0
Losses	-	0,4	0,6	0,1	-
Released to other enterprises, population and for export	71,3	126,4	57,0	144,9	87,7
Stock at the end of the year	24,0	31,8	36,4	27,7	28,5

Domestic heating fuel consumption in 2013

in percent to total



Consumption, export and import

thousands of tons

	Domestic heating fuel		
	consumption in the domestic market	export	import
Akmolinskaya	7,1	-	-
Aktubinskaya	0,7	-	-
Almatinskaya	2,7	-	-
Atyrauskaya	23,4	18,6	-
Zapadno - Kazakhstanskaya	5,4	-	-
Zhambylskaya	1,4	-	-
Karagandinskaya	5,8	-	-
Kostanaiskaya	1,8	-	-
Kyzylordinskaya	0,3	-	-
Mangistauskaya	2,5	-	-
Yuzhno - Kazakhstanskaya	0,5	-	-
Pavlodarskaya	0,8	-	-
Severo - Kazakhstanskaya	3,5	-	-
Vostochno - Kazakhstanskaya	1,1	0,1	-
Astana city	3,8	-	-
Almaty city	18,5	68,9	-

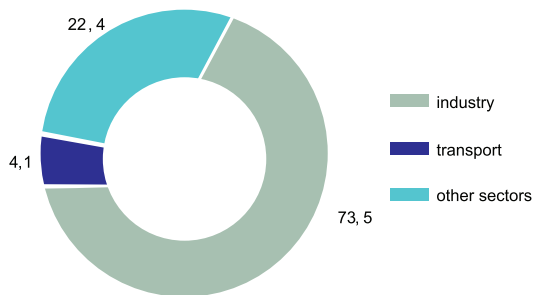
2.11 Balances of resources and distribution of liquefied propane and butane

thousands of tons

	2009	2010	2011	2012	2013
Resources	1 830,5	2 244,1	2 176,1	2 188,6	2 832,7
Stock at the beginning of the year	86,5	111,5	144,6	76,9	109,2
Extracted (produced)	1 732,1	2 128,8	2 028,3	2 056,9	2 202,1
Received from aside from all the sources including imports	11,8	3,8	3,1	54,9	521,3
Distribution	1 830,5	2 244,1	2 176,1	2 188,6	2 832,7
Used up	156,5	143,5	158,3	162,6	187,4
Including					
conversion into other kinds of energy	2,8	2,3	4,5	1,5	2,9
as a raw material for other types of fuel	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	0,6	-	-	5,0	0,2
as a raw material for non - fuel needs	1,2	1,9	7,2	1,1	5,8
directly as fuel or energy	151,9	139,3	146,6	154,9	178,6
Losses	3,6	6,4	5,8	12,5	35,6
Released to other enterprises, population and for export	1 581,8	1 949,7	1 935,2	1 904,3	2 485,8
Stock at the end of the year	88,6	144,5	76,7	109,3	123,8

Consumption of liquefied propane and butane in 2013

in percent to total



Consumption, export and import

thousands of tons

	Liquefied propane and butane		
	consumption in the domestic market	export	import
Akmolinskaya	5,5	0,5	-
Aktubinskaya	13,4	134,5	-
Almatinskaya	23,1	2,5	-
Atyrauskaya	1,7	1 263,2	-
Zapadno - Kazakhstanskaya	8,2	138,1	-
Zhambylskaya	2,0	3,2	-
Karagandinskaya	15,6	-	-
Kostanaiskaya	4,0	-	-
Kyzylordinskaya	7,6	101,4	-
Mangistauskaya	17,8	3,5	0,1
Yuzhno - Kazakhstanskaya	33,3	130,5	-
Pavlodarskaya	26,3	164,2	-
Severo - Kazakhstanskaya	11,7	-	-
Vostochno - Kazakhstanskaya	4,7	-	-
Astana city	7,7	234,9	-
Almaty city	4,8	54,9	3,1

2.12 Balances of resources and distribution of oil and shale bitumen

thousands of tons

	2009	2010	2011	2012	2013
Resources	532,2	548,1	617,8	822,0	818,4
Stock at the beginning of the year	40,9	54,6	85,9	59,7	45,1
Extracted (produced)	129,4	174,0	257,2	286,6	331,5
Received from aside from all the sources including imports	361,9	319,5	274,6	475,6	441,8
Distribution	532,2	548,1	617,8	822,0	818,4
Used up	332,6	368,9	392,9	478,7	403,3
Including					
conversion into other kinds of energy	4,6	-	-	-	-
as a raw material for other types of fuel	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	68,6	67,0	67,0	114,1	91,4
as a raw material for non - fuel needs	195,4	212,8	226,5	275,4	198,9
directly as fuel or energy	64,0	89,1	99,3	89,2	113,0
Losses	-	0,7	0,1	-	-
Released to other enterprises, population and for export	145,0	92,5	165,1	298,3	377,8
Stock at the end of the year	54,6	86,0	59,6	45,0	37,3

Consumption, export and import

thousands of tons

	Oil and shale bitumen		
	consumption in the domestic market	export	import
Akmolinskaya	14,6	-	-
Aktubinskaya	104,5	-	177,6
Almatinskaya	19,1	-	4,8
Atyrauskaya	0,1	-	-
Zapadno - Kazakhstanskaya	28,6	-	50,5
Zhambylskaya	10,2	-	-
Karagandinskaya	29,3	-	45,7
Kostanaiskaya	15,7	-	9,4
Kyzylordinskaya	32,8	-	0,1
Mangistauskaya	8,5	-	1,4
Yuzhno - Kazakhstanskaya	19,8	21,4	5,8
Pavlodarskaya	44,3	88,5	21,2
Severo - Kazakhstanskaya	8,5	-	78,5
Vostochno - Kazakhstanskaya	12,0	-	2,9
Astana city	19,2	-	28,0
Almaty city	35,9	-	15,9

2.13 Balances of resources and distribution of coke and semi-coke of coal

tons

	2009	2010	2011	2012	2013
Resources	3 426 143	3 524 641	3 834 039	3 672 651	3 652 876
Stock at the beginning of the year	133 684	109 287	166 529	133 382	184 216
Extracted (produced)	2 552 040	2 526 926	2 663 394	2 569 349	2 379 064
Received from aside from all the sources including imports	740 419	888 428	1 004 116	969 920	1 089 596
Distribution	3 426 143	3 524 641	3 834 039	3 672 651	3 652 876
Used up	3 271 408	3 253 925	3 673 921	3 458 081	3 439 077
Including conversion into other kinds of energy	-	81	-	529	671
as a raw material for other types of fuel	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	265 787	384 401	506 296	470 641	479 052
as a raw material for non - fuel needs	386 005	463 424	455 121	493 658	570 027
directly as fuel or energy	2 619 616	2 406 019	2 712 504	2 493 253	2 389 327
Losses	4 468	5 130	6 300	4 935	3 579
Released to other enterprises, population and for export	40 290	95 801	20 436	25 238	22 865
Stock at the end of the year	109 977	169 785	133 382	184 397	187 355

Consumption, export and import

thousands of tons

	Coke and semi - coke of coal		
	consumption in the domestic market	export	import
Akmolinskaya	0,1	-	-
Aktubinskaya	310,0	-	214,6
Almatinskaya	0,5	-	0,4
Atyrauskaya	-	-	-
Zapadno - Kazakhstanskaya	-	-	-
Zhambylskaya	255,3	-	-
Karagandinskaya	2 129,4	22,8	27,0
Kostanaiskaya	0,3	-	-
Kyzylordinskaya	-	-	-
Mangistauskaya	-	-	-
Yuzhno - Kazakhstanskaya	-	-	-
Pavlodarskaya	504,8	-	395,9
Severo- Kazakhstanskaya	-	-	-
Vostochno - Kazakhstanskaya	235,5	-	187,0
Astana city	-	-	-
Almaty city	3,3	-	2,2

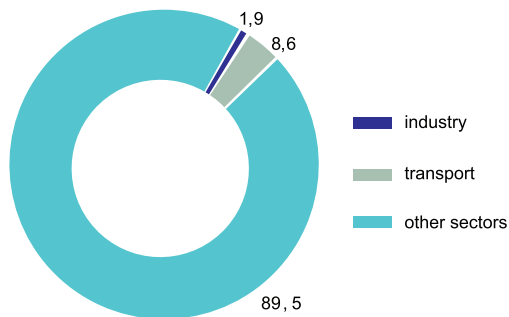
2.14 Balances of resources and wood fuel distribution

thousands of density m³

	2009	2010	2011	2012	2013
Resources	311,6	342,0	325,6	251,3	264,8
Stock at the beginning of the year	34,1	25,1	24,2	26,5	28,5
Extracted (produced)	220,2	269,5	257,4	193,7	215,9
Received from aside from all the sources including imports	57,3	47,4	44,0	31,1	20,4
Distribution	311,6	342,0	325,6	251,3	264,8
Used up	80,2	94,1	100,6	57,8	77,7
Including					
conversion into other kinds of energy	-	0,1	-	-	-
as a raw material for other types of fuel	-	-	-	-	-
as a raw material for the production of chemical, petrochemical industries and other non - fuel products	-	-	-	-	-
as a raw material for non - fuel needs	0,4	0,5	0,2	0,2	0,2
directly as fuel or energy	79,7	93,5	100,3	57,6	77,6
Losses	-	-	-	-	-
Released to other enterprises, population and for export	206,3	223,6	198,2	158,0	153,6
Stock at the end of the year	25,1	24,3	26,9	35,5	33,4

Wood fuel consumption in 2013

in percent to total



Consumption

thousands of density m³

	Wood fuel consumption in the domestic market
Akmolinskaya	15,1
Aktubinskaya	-
Almatinskaya	1,5
Atyrauskaya	-
Zapadno - Kazakhstanskaya	1,1
Zhambylskaya	1,5
Karagandinskaya	0,1
Kostanaiskaya	16,1
Kyzylordinskaya	1,3
Mangistauskaya	0,3
Yuzhno - Kazakhstanskaya	1,8
Pavlodarskaya	0,5
Severo - Kazakhstanskaya	27,7
Vostochno - Kazakhstanskaya	10,5
Astana city	0,3
Almaty city	-

2.15 Consumption of fuel and energy resources by types of economic activity in 2013

Items of balance	Coal, tons	Briquettes, pellets of coal, tons	Lignite, tons	Crude oil, tons
Agriculture, forestry and fishing	358 238	-	124	-
Fishery and aquaculture	84	-	-	-
The mining industry and working out of open - cast mines	2 329 834	-	15 202	1 560 978
Manufacturing industry	13 442 952	1 488	48 569	14 708 777
Electrical supply, giving of gas, steam and air - conditioning	48 923 349	-	42 239	500
Construction	61 606	-	382	-
Wholesale and retail trade; car and motorcycles repairs	119 092	-	12 248	146 736
Land transport and pipeline transportation	22 494	-	10	3 162
Water transport	-	-	482	-
Air transport	76	-	-	-
Warehousing and auxiliary transport activity	58 599	35	788	56 534
Information and communication	5 472	-	29	-
Financial and insurance activities	980	-	-	-
Real estate operations	45 172	-	-	-
Governance and defence; obligatory social security	347 983	-	2 711	-
Education	615 567	-	45 388	-
Public health services and social services	224 481	-	9 281	-
Other services provision	4 286	-	578	-

Continuation

Items of balance	Natural gas, thsd m3	Gas condensate, tons	Associated petroleum gas, thsd m3	Coke and semi - coke of coal, tons
Agriculture, forestry and fishing	18 162	-	4 361	-
Fishery and aquaculture	248	-	-	-
The mining industry and working out of open - cast mines	426 356	15 450	17 185 917	41 422
Manufacturing industry	752 294	108 237	540 301	3 359 876
Electrical supply, giving of gas, steam and air - conditioning	2 481 540	9 264	1 239 361	14
Construction	26 572	6	11 266	17 589
Wholesale and retail trade; car and motorcycles repairs	29 840	124 797	4 540	20 015
Land transport and pipeline transportation	412 951	-	1 324	2
Water transport	125	-	-	-
Air transport	10 600	-	112	-
Warehousing and auxiliary transport activity	19 674	-	2 382	-
Information and communication	8 764	-	255	-
Financial and insurance activities	1 931	-	319	-
Real estate operations	27 740	-	6 384	-
Governance and defence; obligatory social security	27 320	-	2 812	-
Education	110 345	-	13 778	-
Public health services and social services	49 032	-	5 388	-
Other services provision	8 290	-	22 421	-

Continuation

Items of balance	Sawdust and wood waste, tons	Aviation gasoline, tons	Motor gasoline, tons	Jet fuel of gasoline type, tons
Agriculture, forestry and fishing	1 206	244	49 065	36
Fishery and aquaculture	-	-	879	-
The mining industry and working out of open - cast mines	-	10	89 832	113
Manufacturing industry	2 466	774	99 875	12
Electrical supply, giving of gas, steam and air - conditioning	-	-	27 959	-
Construction	-	-	215 614	24
Wholesale and retail trade; car and motorcycles repairs	17	63	108 124	32
Land transport and pipeline transportation	-	-	58 576	-
Water transport	-	-	285	-
Air transport	-	3 412	1 196	54 459
Warehousing and auxiliary transport activity	-	6 087	40 063	-
Information and communication	-	-	22 426	-
Financial and insurance activities	-	-	13 691	1
Real estate operations	-	-	8 954	-
Governance and defence; obligatory social security	-	7	96 092	6
Education	77	3	33 375	-
Public health services and social services	-	13	51 134	-
Other services provision	2	-	6 163	5

Continuation

Items of balance	Gasoil, tons	Heating oil, tons	Domestic heating fuel, tons	Kerosene, tons
Agriculture, forestry and fishing	432 966	605	569	2 554
Fishery and aquaculture	291	-	-	-
The mining industry and working out of open - cast mines	794 617	5 744	2 100	677
Manufacturing industry	306 893	888 184	19 441	4 398
Electrical supply, giving of gas, steam and air - conditioning	43 952	348 901	478	79
Construction	746 525	13 291	20 840	4 941
Wholesale and retail trade; car and motorcycles repairs	303 020	1 430	696	53 516
Land transport and pipeline transportation	362 572	-	762	4
Water transport	12 351	-	-	-
Air transport	872	-	-	289 919
Warehousing and auxiliary transport activity	516 551	3 314	13 998	147 828
Information and communication	11 958	-	20	1
Financial and insurance activities	2 936	-	502	-
Real estate operations	117 503	11 609	5 705	17
Governance and defence; obligatory social security	32 000	209	4 027	5 776
Education	50 997	226	5 606	1 387
Public health services and social services	24 255	34	1 836	29
Other services provision	1 416	-	26	-

Continuation

Items of balance	Wood fuel, m3	Purified gases including ethylene, propylene, butylenes, butadiene and other petroleum gases, tons	Lean gas, thsd m3	Liquefied propane and butane, tons
Agriculture, forestry and fishing	6 257	-	-	4 989
Fishery and aquaculture	-	-	-	-
The mining industry and working out of open - cast mines	7	3 146 773	-	16 186
Manufacturing industry	1 225	223 897	4	116 243
Electrical supply, giving of gas, steam and air - conditioning	239	5	-	5 324
Construction	4 021	-	-	6 357
Wholesale and retail trade; car and motorcycles repairs	248	25 326	1	16 646
Land transport and pipeline transportation	246	-	-	4 838
Water transport	-	-	-	-
Air transport	-	-	-	-
Warehousing and auxiliary transport activity	4 607	-	-	2 877
Information and communication	826	-	-	179
Financial and insurance activities	104	-	-	1
Real estate operations	2 083	-	-	214
Governance and defence; obligatory social security	26 932	-	-	105
Education	6 662	-	-	324
Public health services and social services	5 220	-	-	8 551
Other services provision	339	-	-	7

Continuation

Items of balance	Oil and shale bitumen, tons	Oil and shale coke, tons	Electric power, thsd. kWh	Heat energy, Gkal
Agriculture, forestry and fishing	312	-	800 726	893 259
Fishery and aquaculture	-	-	4 705	253
The mining industry and working out of open - cast mines	9 588	-	13 225 951	5 222 302
Manufacturing industry	111 562	26 922	30 311 992	21 060 866
Electrical supply, giving of gas, steam and air - conditioning	159	3	9 618 557	19 062 716
Construction	264 635	-	475 792	340 373
Wholesale and retail trade; car and motorcycles repairs	5 488	25	732 445	387 149
Land transport and pipeline transportation	-	-	987 003	271 039
Water transport	-	-	2 500	1 720
Air transport	-	-	3 771	1 279
Warehousing and auxiliary transport activity	6	-	1 957 182	329 065
Information and communication	-	-	258 795	130 253
Financial and insurance activities	-	-	50 850	81 183
Real estate operations	90	-	806 726	710 691
Governance and defence; obligatory social security	-	-	694 224	1 544 944
Education	-	-	1 455 172	3 528 992
Public health services and social services	-	-	847 051	1 192 183
Other services provision	83	-	46 945	91 750

Items of balance	Hydropower produced by hydroelectric power plants, thsd. kWh	Wind electric power produced by wind power plants, thsd. kWh	Solar electric power produced by solar power plants, thsd. kWh
Agriculture, forestry and fishing	586	2 016	10
Fishery and aquaculture	-	-	-
The mining industry and working out of open - cast mines	-	-	-
Manufacturing industry	17 330	-	-
Electrical supply, giving of gas, steam and air - conditioning	61 471	-	-
Construction	304	-	-
Wholesale and retail trade; car and motorcycles repairs	-	-	-
Land transport and pipeline transportation	-	-	-
Water transport	-	-	-
Air transport	-	-	-
Warehousing and auxiliary transport activity	-	-	-
Information and communication	6	-	-
Financial and insurance activities	-	-	-
Real estate operations	-	-	-
Governance and defence; obligatory social security	-	-	-
Education	-	2	1
Public health services and social services	-	-	-
Other services provision	-	-	-

3. Energy intensity of GDP in Kazakhstan

Energy intensity of GDP in Kazakhstan

toe per thousand usd in prices 2000

	2009	2010	2011	2012	2013
Energy intensity	1,48	1,84	1,73	1,53	1,44

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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Responsible for issue:

Division of services and energetic statistics

Head of the division

Yakupova Z.R.

tel. +7 7172 74 90 60

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Address: Astana, Akzhol str., 51

tel. +7 7172 68 27 37