



**MINISTRY OF MINING
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND
PETROLEUM AUTHORITY OF
MONGOLIA**

Mineral Resources and Petroleum Statistics



April, 2018

www.mrpam.gov.mn



STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM



Working group headed by D.Sumyabazar, Minister of Mining and Heavy Industry, and MRPAM Group worked in rural areas and some of the key issues were solved on-site. The Working Group worked on "Dongsheng Mongol" LLC operating in Zuunbayan sub-basin.

Compiled: Monitoring-Evaluation and Statistics Division
of Mineral Resources and Petroleum Authority

Address: Government building 12, Barilgachdyn talbai 3,
Chingeltei district, Ulaanbaatar 15170, Mongolia

Tel: 976-70183104

Fax: 11-310370

E-mail: info@mrpam.gov.mn

Web site: www.mrpam.gov.mn.

This bulletin is updated monthly and published on the MRPAM's website
www.mrpam.gov.mn.



Main indicators

1. Number of valid licenses (May 01, 2018)	3322
Mining licenses	1639
Exploration licenses	1683
2. Valid licensed area (May 01, 2018)	10,2 mln.ha
Mining licensed area	1,5 mln.ha
Exploration licensed area	8,7 mln.ha
3. Licensed area of Mongolian territory (May 01, 2018)	6,5%
Mining licensed area	1,0%
Exploration licensed area	5,5%
4. The role of Mining sector in Gross Domestic Product (2018)	21,86%*
5. Mining industry in Gross Industrial Output (2018)	71,39%*
6. Mining Products (Jan-Apr, 2018)	
Copper metal concentrate	445,4 ths.t*
Molybdenium metal concentrate	1767,8 t*
Gold	2888,3 kg
Fluorspar concentrate	21,3 ths.t*
Iron ore	1021,0 ths.t*
Zincum concentrate	30,0 ths.t*
7. Main minerals export (Jan-Apr, 2018)	
Fluorspar ore and concentrate	2035,7 ths.t**
Copper concentrate	458,6 ths.t**
Zinc	41,6 ths.t**
Gold	3431,9 kg**
Coal	11470,4 ths.t**
8. Produced coal (Apr, 2018)	15883,6 ths.t
9. Sold coal (Apr, 2018)	14974,4 ths.t
10. Implementation of approved budget revenue plan (Apr, 2018)	29,3%
License fee	24,1%
Petroleum export	32,9%
Reimbursement	13,0%

Notes: * Data from National Statistical Office, www.1212.mn

** Data from Customs General Administration, www.ecustoms.mn



1. GEOLOGICAL STATISTICS

1.1. Geological survey conducted at expense of the state budget, mln MNT, 2012-2017

Type of work	2013		2014		2015		2016		2017	
	mln MNT	%	mln MNT	%	mln MNT	%	mln MNT	%	mln MNT	%
TOTAL	6 809,9	93,0%	9 209,2	92%	9 280,6	82%	9 341,1	100%	12255	91,8
SGMP 1:200000	763,8	95,6%	807,2	89%	330,5	63%	642,7	100%	482,3	100,0
SGMP 1:50000	5 809,4	96,5%	7 314,8	93%	5 556,7	78%	4 975,8	100%	5355,9	100,0
Thematic work	155,8	34,3%	1 003,5	88%	3 167,7	92%	3 476,1	100%	6274,6	80,8
Cooperation projects	80,9	168,9%	83,6	70%	225,6	79%	246,6	100%	142,4	100,0



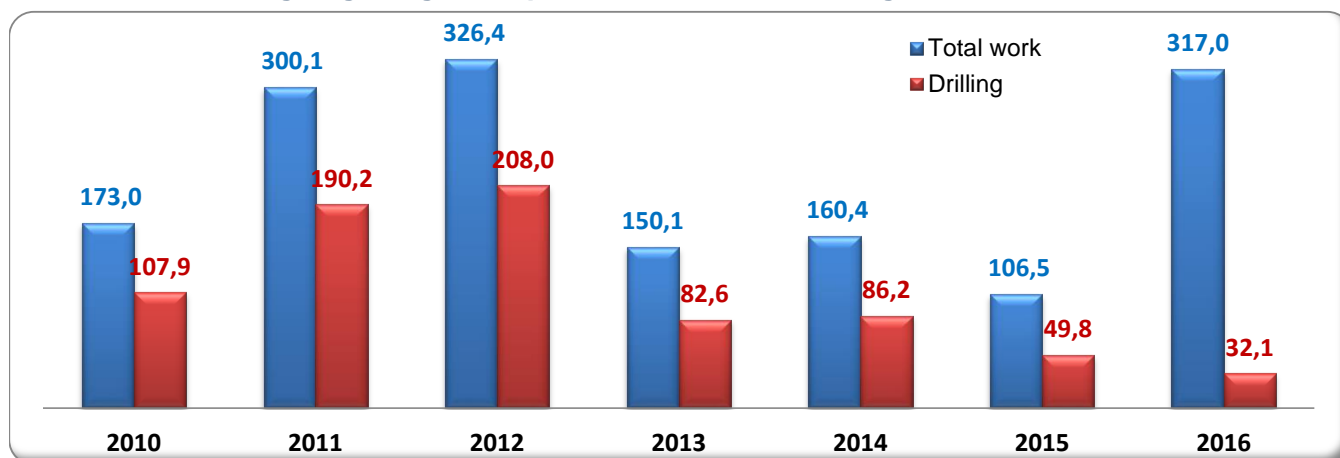
1.2. Geological and exploration survey conducted at expenses of the exploration license holders, mln.MNT, 2010-2016

Total	172 959,4	300 098,4	326 394,7	150 095,8	160 421,9	106 462,1	317 208,0	100,0
Preparation	4677,5	5051,8	4882,8	3 842,3	3 146,2	2 998,7	35 833,2	11,3
Mapping	2270,0	3957,4	4714,8	2 328,8	3 006,8	2 314,2	5 799,1	1,8
Geological survey	2862,7	6880,8	3925,7	2 530,5	2 535,4	2 789,2	6 334,2	2,0
Sampling	2561,0	5685,4	6603,1	2 659,3	2 259,7	2 047,1	32 368,9	10,2
Geophysical work	20581,7	28835,7	23573,7	13 427,2	12 413,9	10 716,5	10 097,6	3,2
Mining	4495,4	7389,5	5153,1	2 530,8	4 887,8	2 784,2	1 692,1	0,5
Drilling	107941,6	190240,1	208018,8	82 575,7	86 233,0	49 794,5	101 740,1	32,1
Geochemical work	377,0	1562,5	3292,1	2 133,4	746,0	779,1	-	-
Laboratory	7693,4	19023,1	22152,4	10 889,8	10 490,8	6 710,6	8 823,9	2,8
Topogeodetic work	1680,3	5778,5	2348,2	1 880,4	1 357,9	1 638,3	2 163,8	0,7
Hydrogeological work	510,3	2571,0	4116,9	751,6	2 781,3	2 549,9	1 168,0	0,4
Transport	5724,2	6526,7	6685,8	5 182,5	3 780,9	3 112,8	21 055,0	6,6
Indoor, laboratory in	4609,4	10475,1	18540,5	11 233,7	21 563,1	11 055,0	46 447,6	14,6
Environment reclam	675,1	699,8	1424,7	1 382,0	2 015,8	1 749,6	1 343,9	0,4
Field sampling	1547,9	2140,3	862,1	416,6	1 484,7	1 246,9	2 844,5	0,9
Geomorphology	0,0	0,0	11,0	25,3	0,0	20,6	-	-
Archeology	0,0	0,0	1070,9	528,3	123,0	96,8	231,2	-
Paleontology	0,0	0,0	925,4	448,9	88,3	43,3	-	0,1
Other	4752,0	3280,7	8092,8	5 328,7	1 506,9	4 791,0	39 264,9	12,4

Explanation: There are some types of expenditure in 2016 as aggregate and the cost of 2016 is not the final option.

Source: Reports from exploration license holders, MRPAM

1.2. Private funding of geological exploration work and drilling, bln.MNT





1.5. Mineral resource reserves registered in the State's integrated registry, 2010-2017

No	Deposit types	unit	Registered reserves									
			2010		2011		2012		2013		2014	
			ore	metal	ore	metal	ore	metal	ore	metal	ore	metal
1	Gold (rock)	ths.t/kg	36081	307073	112778	55716	44072	41109	46954	30107	54944	95376
2	Gold (placer)	kg	8419	8264	4450	4008	8410	7659	5222	4736	5435	4866
3	Iron	ths.t	155281	75430	80141	30172	122191	42311	464362	114554	151556	35698
4	Polymetal	ths.t							374094		357007	
	Cu	t							738773		978847	
	Zn	t	1041400	480290	6836190	239976			166173		198474	
	eqZn	t							36322			
	Pb	t							9791		235065	
	eqPb	t									1553766	
5	Molybdenium	ths.t	386101	198	181796	89	88	54				715556
6	Tungsten	ths.t/t	454	2680	72	1170				103553	292450	22
7	Rare earth elements	ths.t/t	154	1545					4874	52	282133	235564
8	Copper	ths.t/t	396439	798431	453235	410941	50995	115753	3999	33478	245527	628776
9	Tin	ths.t	801	6		1984	8153	3065	12614	4180	6435821	44429830
10	Fluorspar	ths.t	3469	922	5338	2083	11034	3551	6489	2804		
11	Uranium	t			20113		7327		67706,8		10938	4168
12	Coal	mln.t	349,74		7067,2		2376,17		4405,2		0,0	
13	Pear shaft	mln.t										
14	Limestone	mln.t	35,54		289,09		273,75		592,6		1840,4	

continued 1.5

No	Deposit types	unit	Registered reserves						
			2015		2016		2017		Total
			ore	metal	ore	metal	ore	metal	metal
1	Gold (rock)	ths.t/kg	8243	28044	62 864,24	33 819,66	8 412,83	3 211,86	591244
2	Gold (placer)	kg	6801	6130	6581	5955	3374,7	3015,0	43940
3	Iron	ths.t	202502	31911	54463	18030	45656	-	350431
4	Polymetal	ths.t	-	-	15091		-	-	-
	Cu	t	-	-	-	57547	-	-	1775167
	Zn	t	-	-	-	41043	-	77,66	1126034
	eqZn	t	-	-	-	-	-	-	36322
	Pb	t	-	-	-	-	-	83,35	244939
	eqPb	t	-	-	-	-	-	1636	1553766
	Molybdenium	ths.t	314824	287	-	-	-	-	715897
5	Tungsten	ths.t/t	254	2951	-	-	503	4	650
6	Rare earth elements	ths.t/t	268176	12031	-	-	0	0	349319
7	Copper	ths.t/t			2042008	7789024	29183	134,944	642405
8	Tin	ths.t	-	-	-	89,6	-	1	53577456
9	Fluorspar	ths.t	5140	2249	801	335	-	664,58	10961
10	Uranium	t	7,9		4,9		3869	-	16841
11	Coal	mln.t	4254,3		1295,4		-	-	95159
12	Shale	mln.t			-		1530,4	3580	27868
13	Peat shaft	mln.t	-	-				-	1840
14	Limestone	mln.t	5,8		155,4		185,7	-	1767

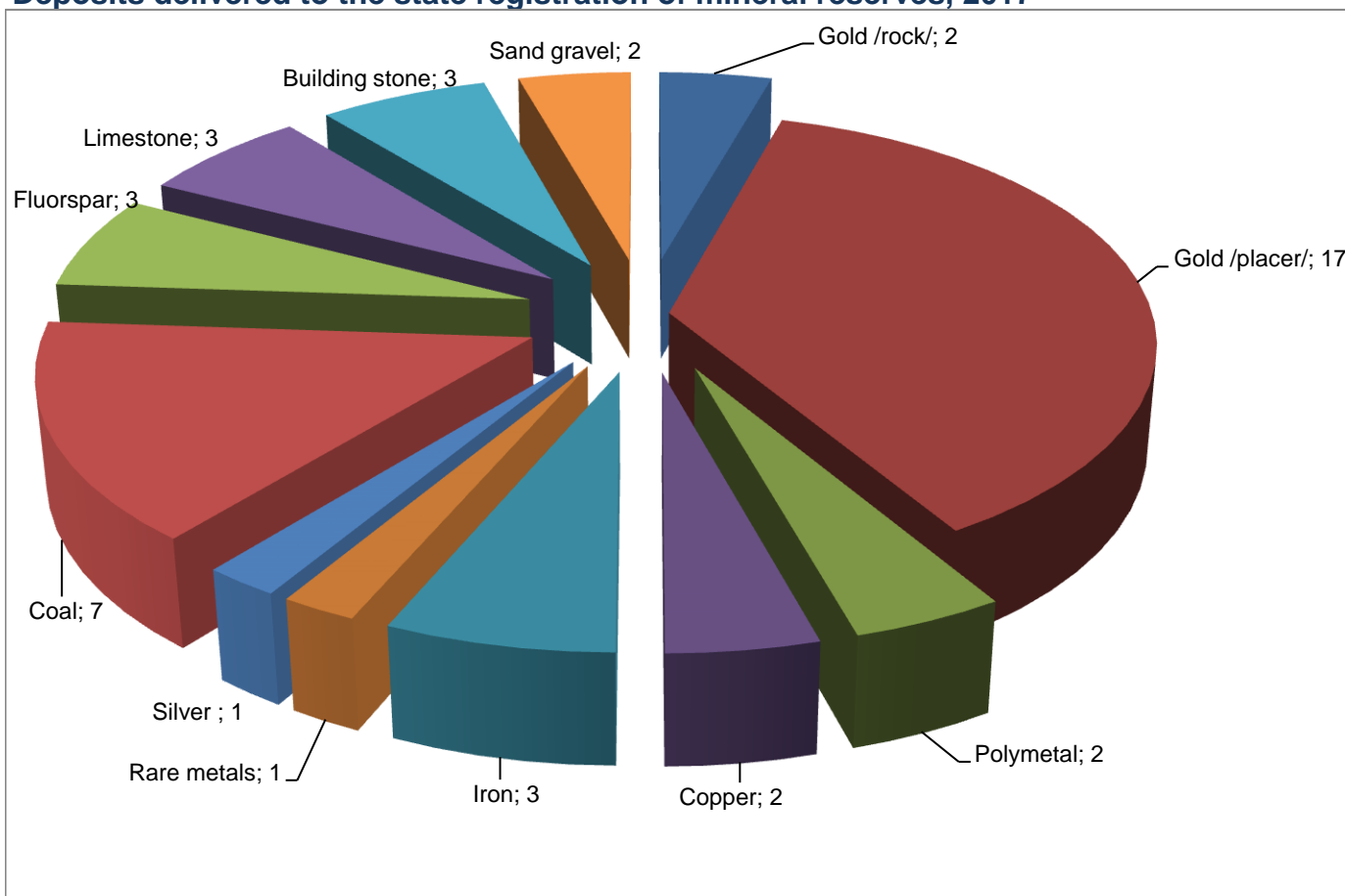
Source: Data from Geology and Exploration Division, MRPAM



1.6. Deposit delivered to the state registration of mineral reserves, 2017

Number	Type of minerals	Quantity
1	Gold (rock)	4
2	Gold (placer)	25
3	Polymetal	2
4	Worm	3
5	Copper	2
6	Iron	5
7	Rare metals	1
8	Silver	2
9	Coal	15
10	Fluorspar	6
11	Limestone	5
12	Building stone	11
13	Sand gravel	3
14	Silicon sandstone	5
15	Mud deposits	4

Deposits delivered to the state registration of mineral reserves, 2017



Source: Data from Geology and Exploration Division, MRPAM

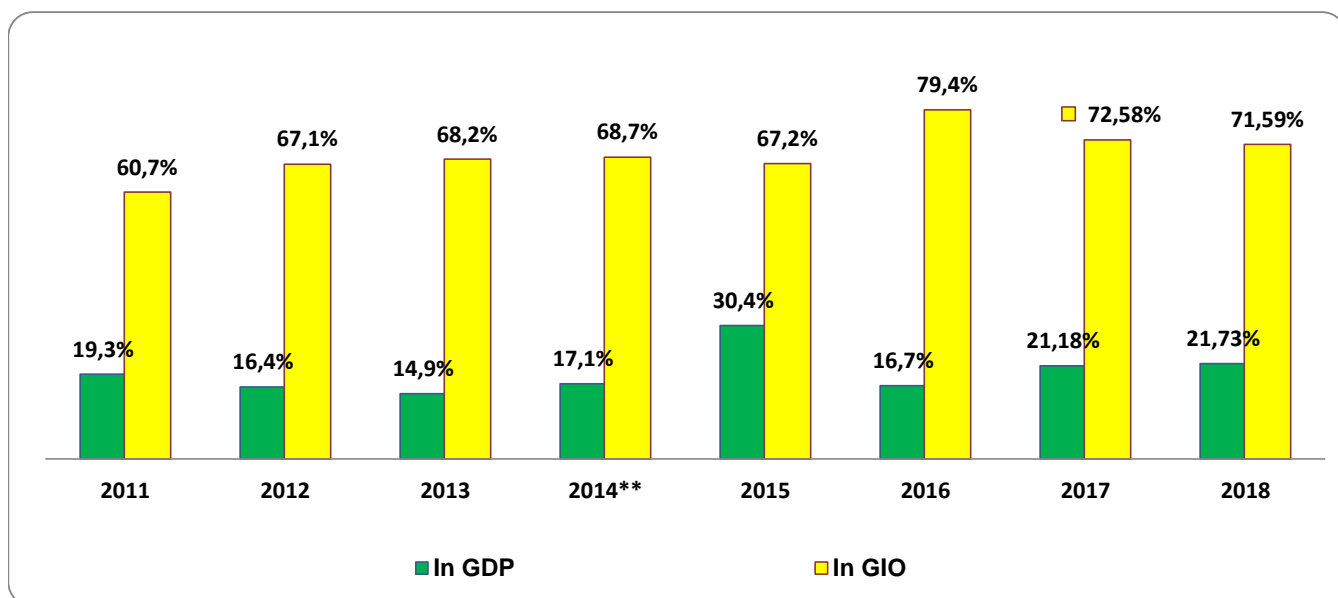


2. MINING STATISTICS

2.1. Production of commodities in mining industry, at current prices, /billion MNT /, 2011-2018

Production	2011	2012	2013	2014	2015	2016	2017	2018
Gross domestic production	13173,8	16688,4	19174,2	22227,1	23166,8	23 886,4	20 257,9	16992,1
Mining production	2536,2	2742,8	2849,4	3661,0	3867,7	3 984,8	4 291,3	3824,8
Gross industrial output	6185,6	5723,6	7651,7	9299,6	8714,4	9 927,1	12 932,7	5304,6
Mining and quarrying	3752,3	3839,7	5217,4	6388,9	5858,0	7 884,7	9 386,0	3787,2

2.2. The role of Mining sector in the National economy



2.3. Production of major mining commodities, 2010-2018

Type of minerals	2011	2012	2013	2014	2015	2016	2017	Jan-Apr, 2018
Copper concentrate with metal grade, thous.t	347,4	347,6	533,3	712,0	890,7	1445,1	1 084,9	445,4
Molybdenum concentrate with metal grade, ton	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	4 673,7	1767,8
Gold, kg	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	17 397,5	2888,3
Fluorspar concentrate, thous.t	116,4	157,2	76,4	374,9	230,8	34,1	17,1	21,3
Iron ore, concentrate, thous.t	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	3 069,1	1021
Zinc concentrate, thous	104,7	119,1	104,1	93,2	89,6	100,2	69,0	30,0
Tungsten concentrate, ton	12,6	66,0	-	-	-	-	-	-

Source: www.1212.mn, National Statistical Office

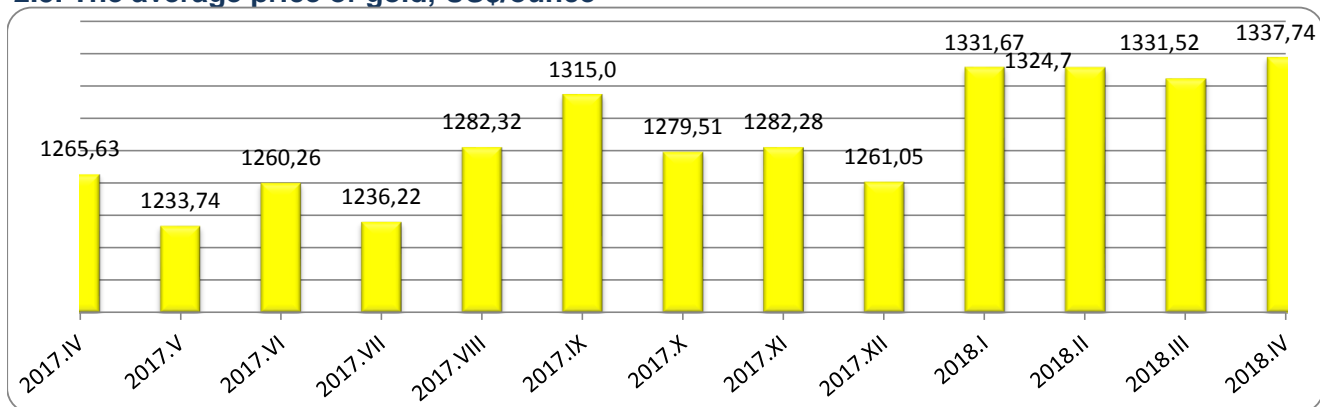


2.4. The average of commodity prices in the world market. US\$, 2013-2018

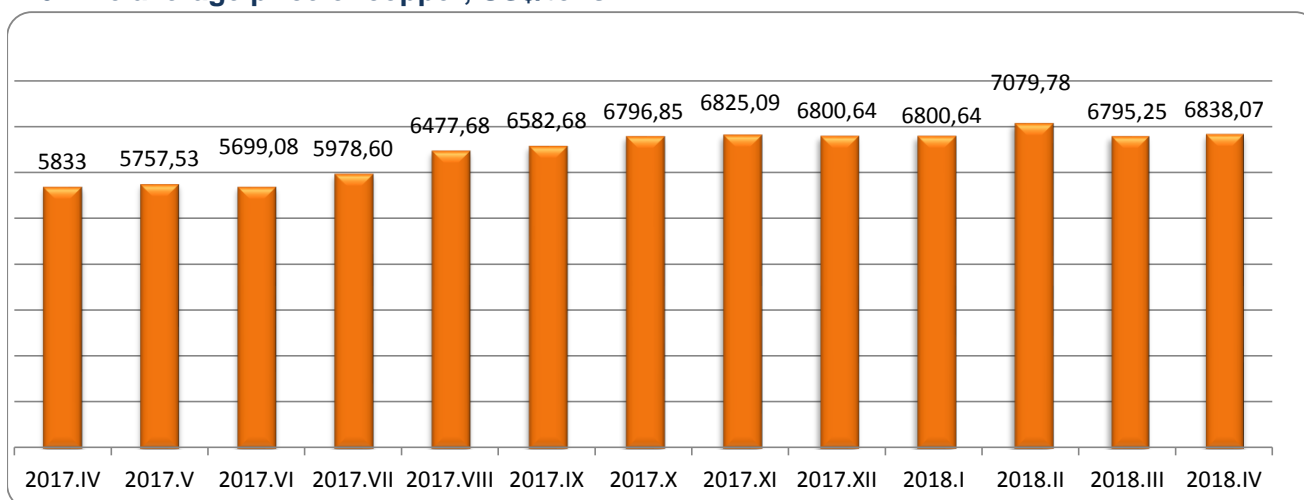
Number	Mineral commodities	Unit of measurement	2014	2015	2016	2017	Apr, 2018
1	Gold, ounce	\$/унци	1271,19	1160,09	1151,40	1257,11	1337,74
2	Silver, ounce	\$/унци	19,07	15,71	16,38	17,14	16,61
3	Copper, tons	\$/тн	6859,50	5501,03	5665,83	6162,36	6838,07
4	Zinc, tons	\$/тн	2161,05	1928,76	2671,34	2893,57	3190,48
5	Blue lead, tons	\$/тн	2095,44	1786,15	2230,30	2317,05	2356,96
6	Tin, tons	\$/тн	21909,93	16079,32	21274,13	20090,07	21152,75
7	Molybdenum, tons	\$/тн	25202,97	14618,15	15000,00	15665,13	25000
8	Tungsten, tons	\$/тн	50971,02	36082,38	32000,00	36011,13	43300,0
9	Iron ore, tons	\$/тн	93,11	49,82	62,00	54,28	47,48
10	Fluorite concentrate AG-97	\$/тн	305,66	283,29	260,00	345,38	500
11	Fluorite ore MG-85	\$/тн	240,00	244,33	250,00	293,88	360
12	Thermal coal	\$/тн	56,63	49,10	40,40	42,15	33,0
13	Coking coal	\$/тн	150,00	106,20	121,30	113,63	147,5

Source: www.kitco.com, www.westmetall.com, www.lme.com, www.asianmetal.com, www.lndmin.com

2.5. The average price of gold, US\$/ounce

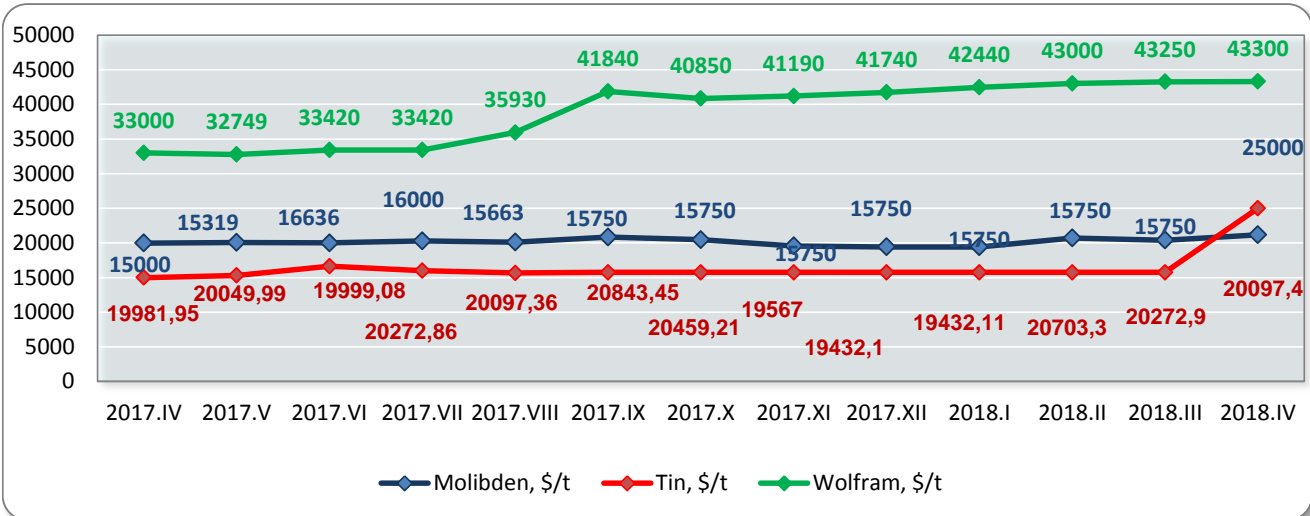


2.6. The average price of copper, US\$/tons

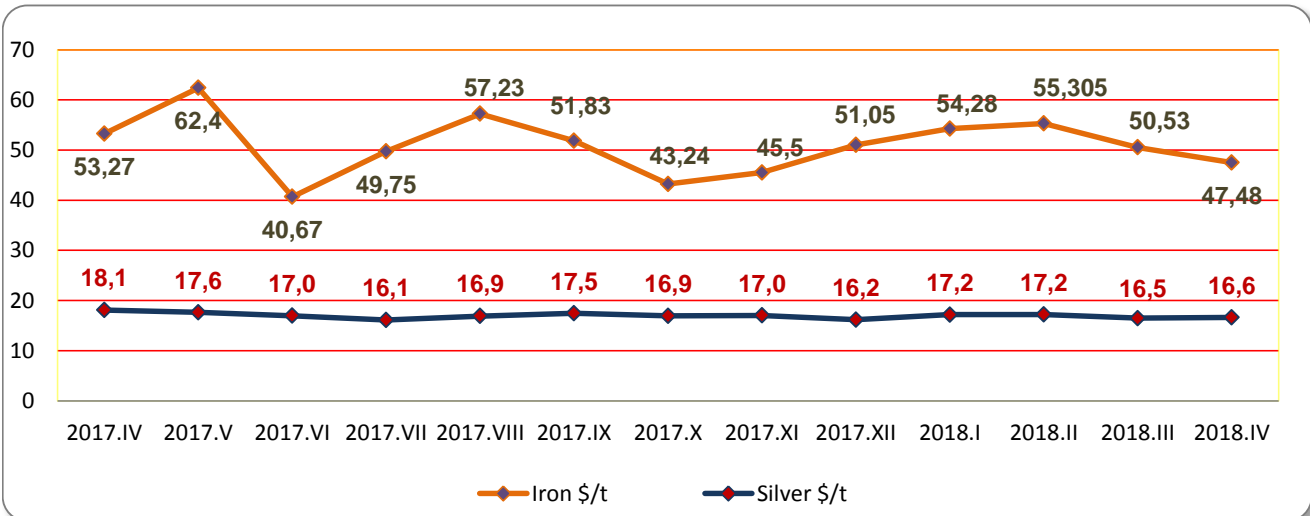




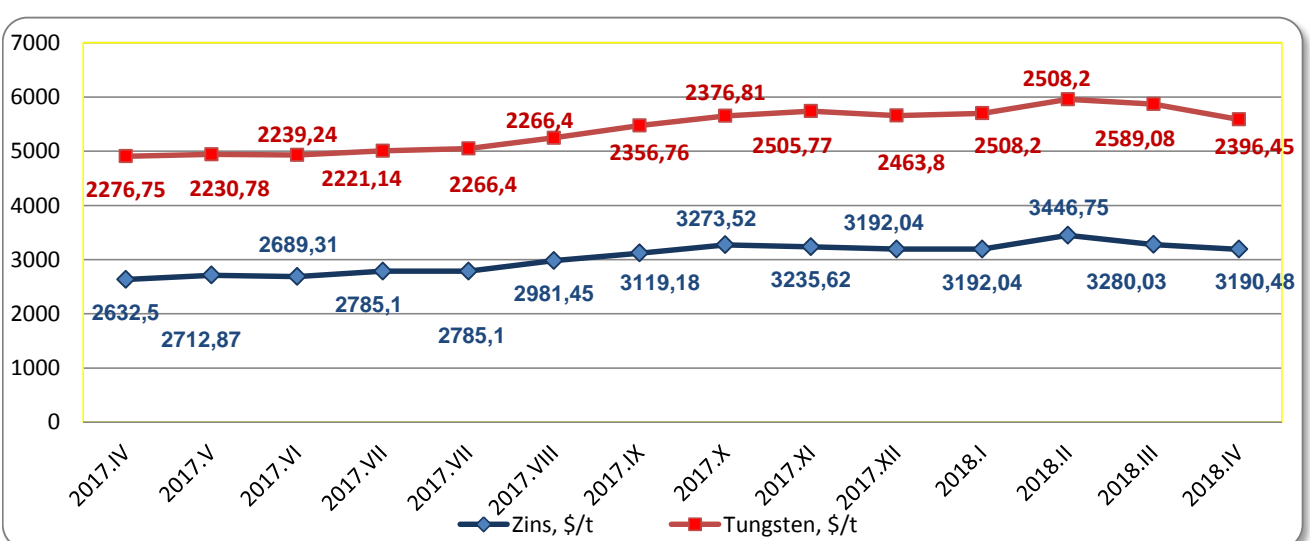
2.7. The average price of metals in the world market, last 12 months



2.8. The average price of metals in the world market, last 12 months



2.9. The average price of metals in the world, last 12 months



Source: www.Indmin.com, www.umetal.com www.sxcoal.com



2.10. Damaged area and rehabilitation work by mining license holders, 2008-2016

Parametres		Previous years	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total
1	Area covered by mining /hectare/	17077	709	631	1709	2042	1430	1038	1561	871	2511	29579
2	Rehabilitated area /hectare/	11527	932	711	1533	1443	1402	807	960	750	1000	21065
3	Expenses for rehabilitation	24805	7683	8300	9657	7013	14808	7382	9212	4019	2313	95191
4	Area covered by technical rehabilitation /hectare/	5381	823	580	1290	480	1177	532	523	589	654	12329
5	Area covered by biological rehabilitation /hectare/	4024	670	300	520	521	378	370	322	320	718	8141
6	Environmental expenses /mln.MNT/	12019	3592	4158	5708	3323	8597	3876	11683	8597	5455	62182
7	Abusive protection rehabilitation /hectare/	-	-	-	-	-	-	-	-	-	257,0	257,0
8	Abusive protection rehabilitation /mln.MNT/	-	-	-	-	-	-	-	-	-	739,1	739,1
9	Remodeling the mine and rehabilitation of the village /hectare/	-	-	-	-	-	-	-	-	-	29,0	29,0
10	Remodeling the mine and rehabilitation of the village /mln.MNT/	-	-	-	-	-	-	-	-	-	175,0	175,0

Note: The reclamation report for 2017 is not yet available.

In 2013, 2511 hectares of land damaged by new mining operations, 954.8 hectares of technical rehabilitation, and 999.5 hectares of biological rehabilitation were carried out.

As of May 09, 2017, 29580 hectares of land has been involved in mining due to mining activities in Mongolia.

Of these, 12329 hectares of technical rehabilitation area, 8141 hectares of biological rehabilitation, 95,775.0 tugrugs spent on rehabilitation, and 62.622 million tugrugs for environmental protection.

2.11. Mined and rehabited area, 2008-2016

Source: Based on data from the Minerals Law of 2016.

Note: The amount of land affected by the 2017 damages and rehabilitated area has not been available since the February 2017 Minerals Law of Mongolia was submitted on February 15th, according to the Minerals Law.



2.12. Investments of companies registered with international stock exchange companies operating in Mongolia's mining sector /by the May 07, 2018/

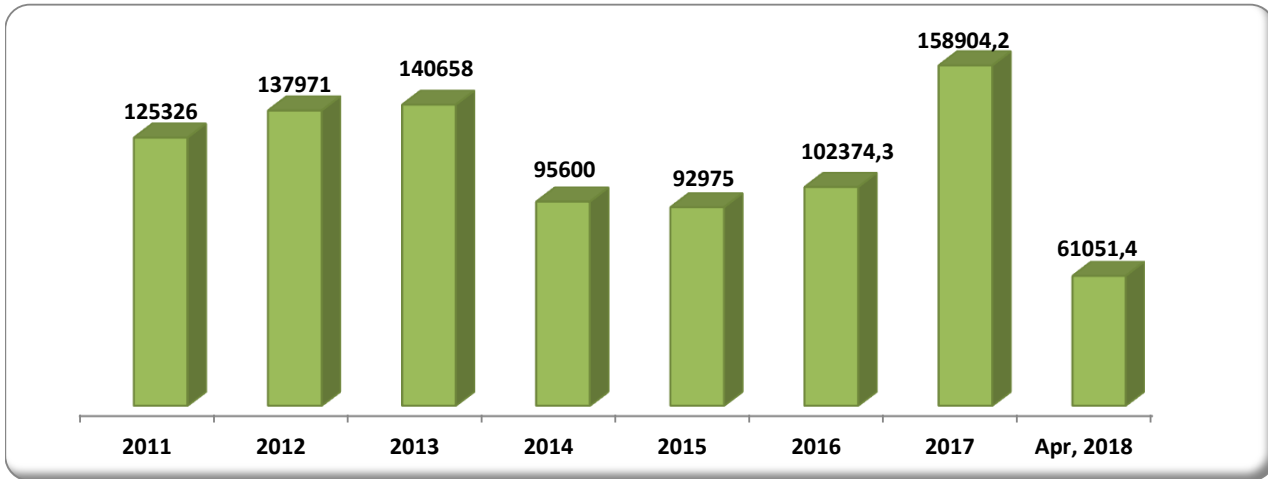
№	Company name	Exchange	Marking	Money unit	The average price of the shares						Market value, May 07, 2018
					2017	Jan, 2018	Feb, 2018	Mar, 2018	1st quarter, 2018	Apr, 2018	
1	Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	3,076	3,365	2,862	3,219	3,158	3,024	5.70B
2	Peabody Energy Corporation	NYQ	BTU	USD	28,498	40,056	40,108	39,236	39,79	36,988	4.57B
3	Rio Tinto plc	LSE	RIO.L	GBP	3,411.9	4,016.8	3,961.4	3,668.8	3,883.2	3,778.1	62.65B
4	Mongolia Energy Corporation Limited	HKG	0276.HK	HKD	0,246	0,207	0,19	0,184	0,194	0,173	325.46M
5	Mongolian Mining Corporation	HKG	0975.HK	HKD	0,237	0,233	0,235	0,211	0,226	0,161	1.58B
6	South Gobi Resources Ltd.	HKG	1878.HK	HKD	1,758	1,33	1,238	1,153	1,242	0,998	269.27M
7	Centerra Gold Inc.	TOR	CG.TO	CAD	7,413	6,275	6,454	7,048	6,592	7,6	2.13B
8	Erdene Resource Development Corporation	TOR	ERD.TO	CAD	0,852	0,535	0,462	0,423	0,475	0,391	56.36M
9	Entrée Resources Ltd.	TOR	ETG.TO	CAD	0,604	0,708	0,572	0,522	0,603	0,472	85.37M
10	Prophecy Development Corp.	TOR	PCY.TO	CAD	4,007	3,848	3,175	2,836	3,299	2,802	19.80M
11	Kincora Copper Limited	VAN	KCC.V	CAD	0,389	0,245	0,219	0,158	0,208	0,139	10.01M
12	Altan Rio Minerals Limited	VAN	AMO.V	CAD	0,02	0,017	0,02	0,018	0,018	0,01	891
13	Xanadu Mines Limited	ASX	XAM.AX	AUD	0,224	0,277	0,245	0,229	0,251	0,195	111.85M
14	Aspire Mining Limited	ASX	AKM.AX	AUD	0,018	0,012	0,011	0,009	0,011	0,009	20.21M
15	Haranga Resources Limited	ASX	HAR.AX	AUD	0,003	0,003	0,003	0,003	0,003	0,003	1.45M
16	Tian Pon Resources Limited	ASX	TPO.AX	AUD	0,047	0,073	0,082	0,09	0,081	0,09	34.79M
17	Banpu Public Company Limited	SET	BANPU.BK	THB	18,109	21,543	21,765	21,338	21,545	19,782	102.72B
18	Petro Matad Limited	LSE	MATD.L	GBP	15,085	9,244	8,62	11,89	9,928	11,93	52.74M
19	Wolf Petroleum Limited	ASX	WOF.AX	AUD	0,026	0,019	0,015	0,013	0,016	0,011	7.59M

Source: www.nyse.com, www.londonstockexchange.com, www.hkex.com.hk, www.tmx.com, www.tsx.com, www.asx.com.au, www.set.or.th

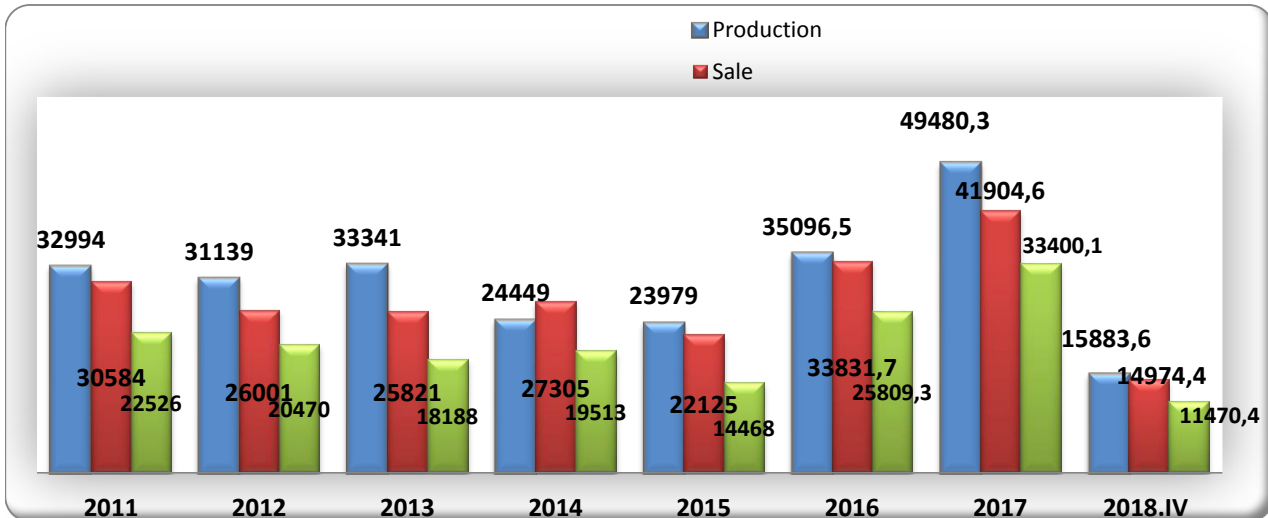


3. COAL STATISTICS

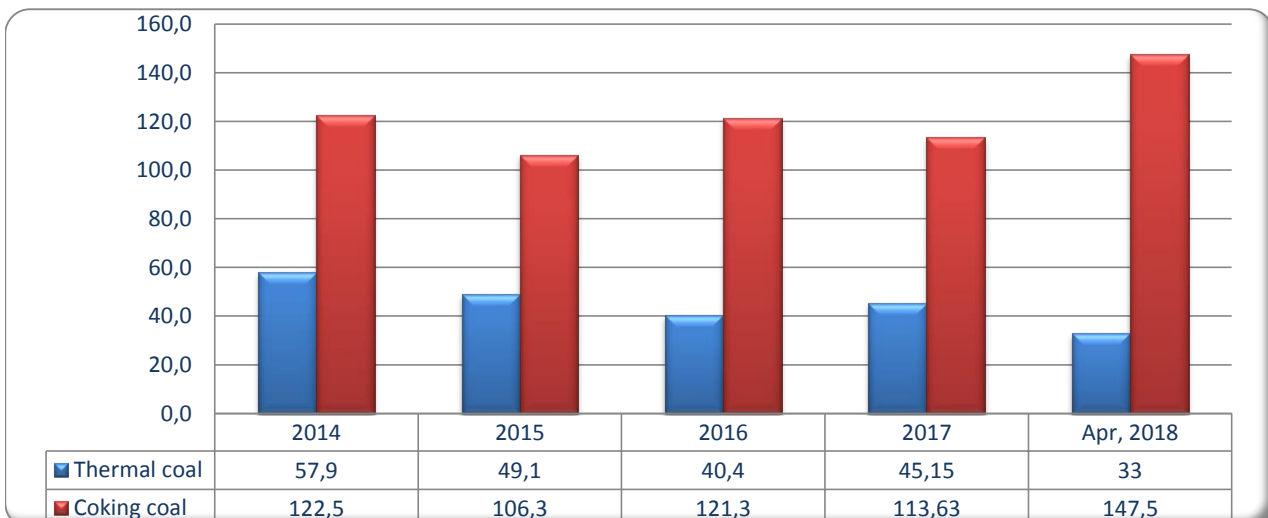
3.1. Striping, ths.m3



3.2. Coal production, sale and export, ths.t



3.3. Coal on the world market average price, US\$/t



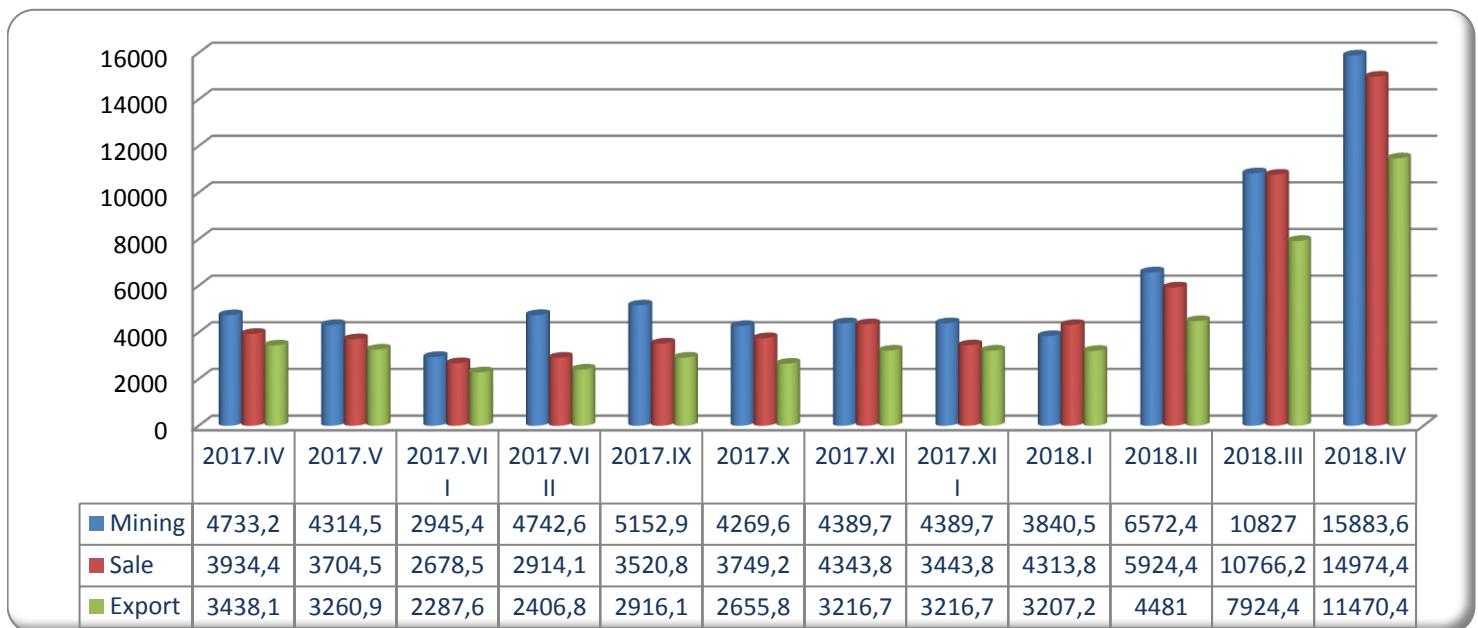
Source: Data from Coal mining companies to MRPAM
 infomine.com, <http://sxcoal.com/site/index?lang=en>



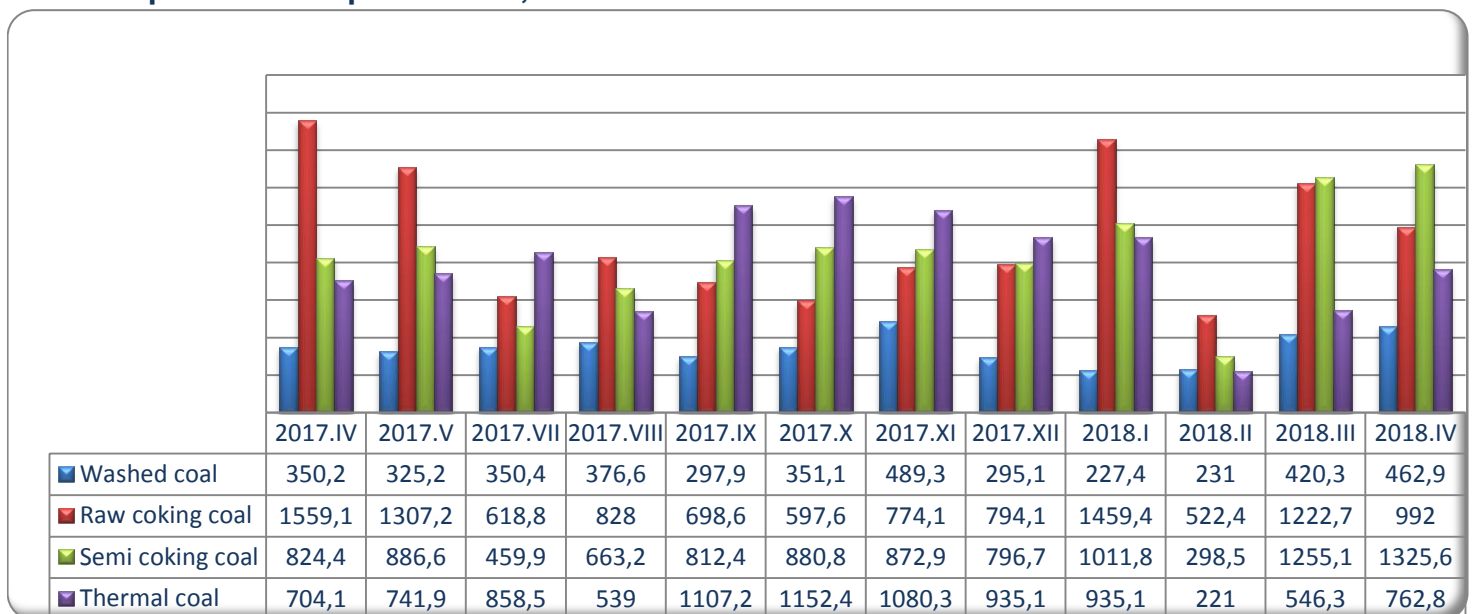
3.4. Stripping, mining, sale and export of Coal mines, Jan-Apr, 2018

Type	Stripping /ths.m3/	Mining /ths.t/	Selling /ths.t/	Export /ths.t/
Total	61 051,0	15 883,6	14 974,4	11 470,4
Energy coal mines	9579,1	2 985,1	2 861,8	-
Export coal mines	51 290,1	12 652,7	9579,1	9579,1
Local coal mines	182,2	245,9	2 533,5	-

3.5. Coal mining, sale, and export, last 12 months



3.6. Composition of exported coal, last 12 months



Source: Data form Coal mining companies to MRPAM



4. STATISTICS OF MINERAL LICENSES AND AREA

4.1. Number of valid licenses and area by provinces

May 01, 2018

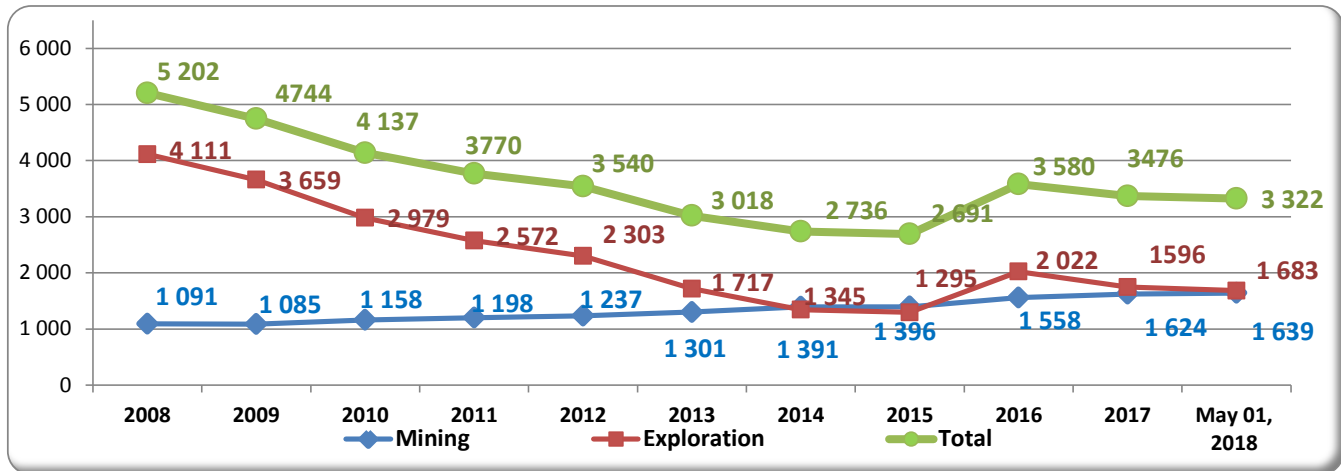
№	Aimags and capital city	Total			Thereof:					
					Mining			Exploration		
		Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory
1	Arkhangai	35	30,3	0,5	26	12,6	0,23	9	17,7	0,32
2	Bayan-Ulgii	75	238,7	5,2	25	10,6	0,23	50	228,0	4,98
3	Bayankhongor	179	483,1	4,2	87	67,1	0,58	92	416,1	3,60
4	Bulgan	126	243,3	5,0	69	34,9	0,72	57	208,4	4,28
5	Uvurkhangai	53	124,0	2,0	29	15,4	0,25	24	108,6	1,73
6	Govi-Altai	182	946,5	6,7	47	67,5	0,48	135	879,0	6,20
7	Govisumber	17	58,7	10,6	12	38,7	6,99	5	20,0	3,60
8	Darkhan Uul	83	21,0	6,4	68	9,6	2,95	15	11,4	3,49
9	Dornogovi	411	1720,1	15,7	174	209,1	1,91	237	1511,0	13,82
10	Dornod	178	570,0	4,6	69	57,2	0,46	109	512,8	4,15
11	Dundgovi	220	888,3	11,9	96	156,6	2,10	124	731,7	9,80
12	Zavhan	89	548,3	6,6	8	13,8	0,17	81	534,5	6,47
13	Umnugovi	222	1555,6	9,4	98	513,8	3,11	124	1041,8	6,31
14	Orkhon	9	11,0	13,1	9	11,0	13,12	0	0,0	0,00
15	Sukhbaatar	106	460,4	5,6	61	49,9	0,61	45	410,5	4,98
16	Selenge	197	122,7	3,0	142	37,3	0,90	55	85,4	2,06
17	Tuv	459	490,3	6,6	306	144,2	1,95	153	346,0	4,68
18	Uvs	182	664,3	9,5	44	17,5	0,25	138	646,8	9,30
19	Ulaanbaatar	184	14,1	3,0	170	12,6	2,65	14	1,5	0,32
20	Khuvsgul	29	90,3	0,9	19	8,5	0,08	10	81,8	0,81
21	Khovd	132	417,6	5,5	32	13,4	0,18	100	404,2	5,32
22	Khentii	259	526,7	6,5	108	41,0	0,51	151	485,7	6,02
Total		3322	10225,3	6,5	1639	1542,4	0,98	1683	8682,91	5,53

The total area of Mongolia is 1.56 million hectares

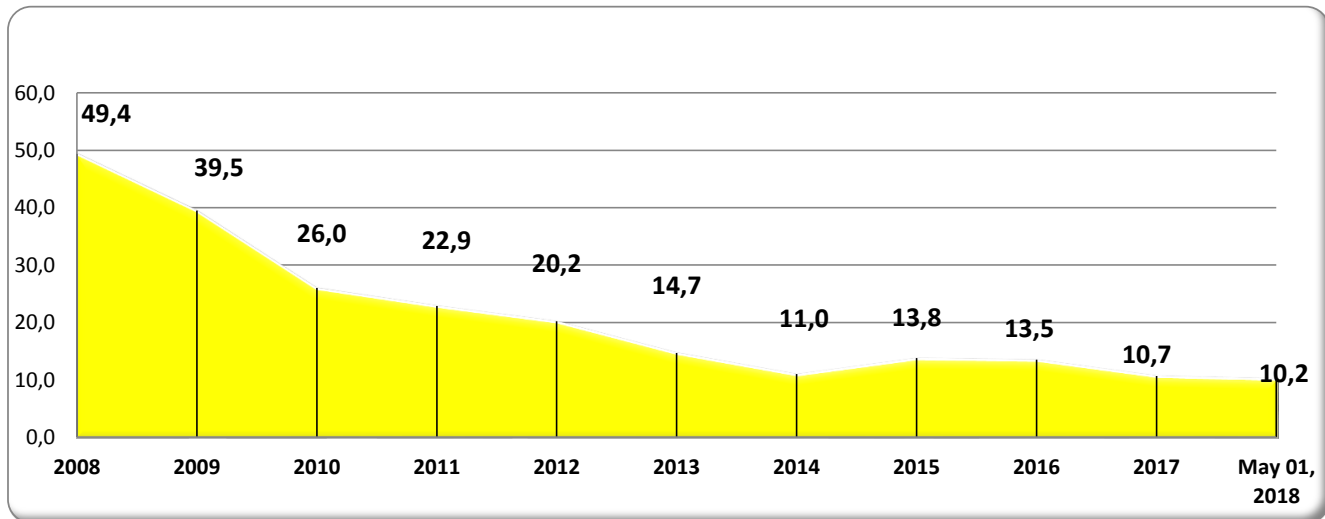
Explanation: Some licenses are crossing the boundaries of more than one aimag, thus increasing the number of each aimag.



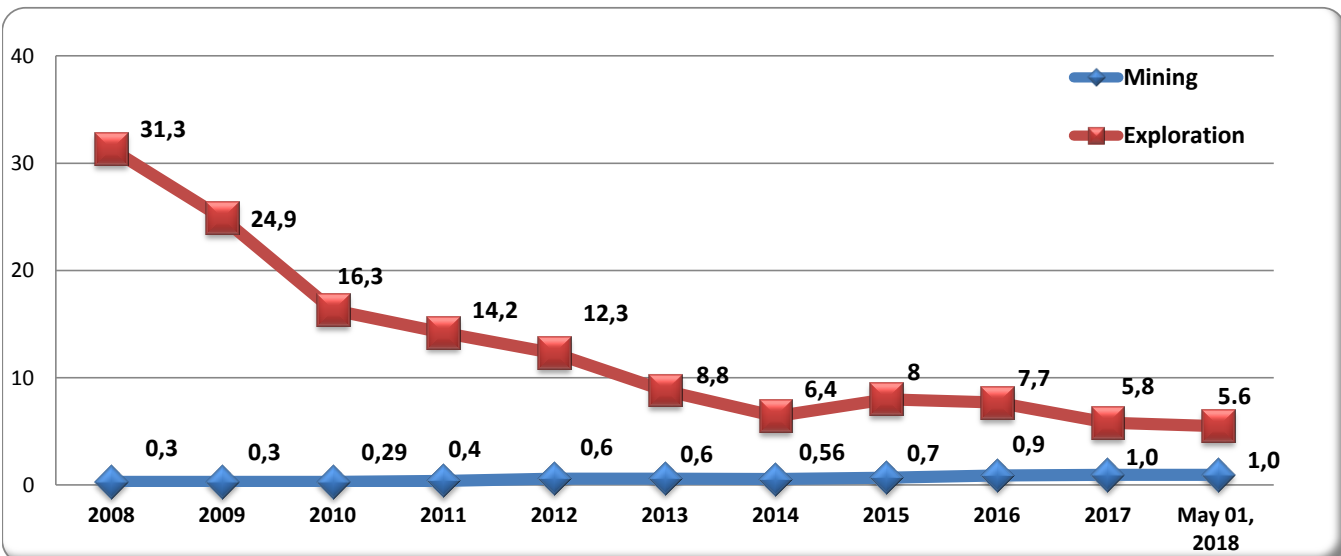
4.2. Number of valid licenses, 2008-May 01, 2018



4.3. Valid licensed area, million hectare, 2008-May 01, 2018



4.4. Percentage of total area, 2008-May 01, 2018



Notes: Exploration licenses stopped issuing since 2010.IV.20
Application for exploration licences started to receive 2015.I.26



4.5. Area registered in Geology and mining cadastre

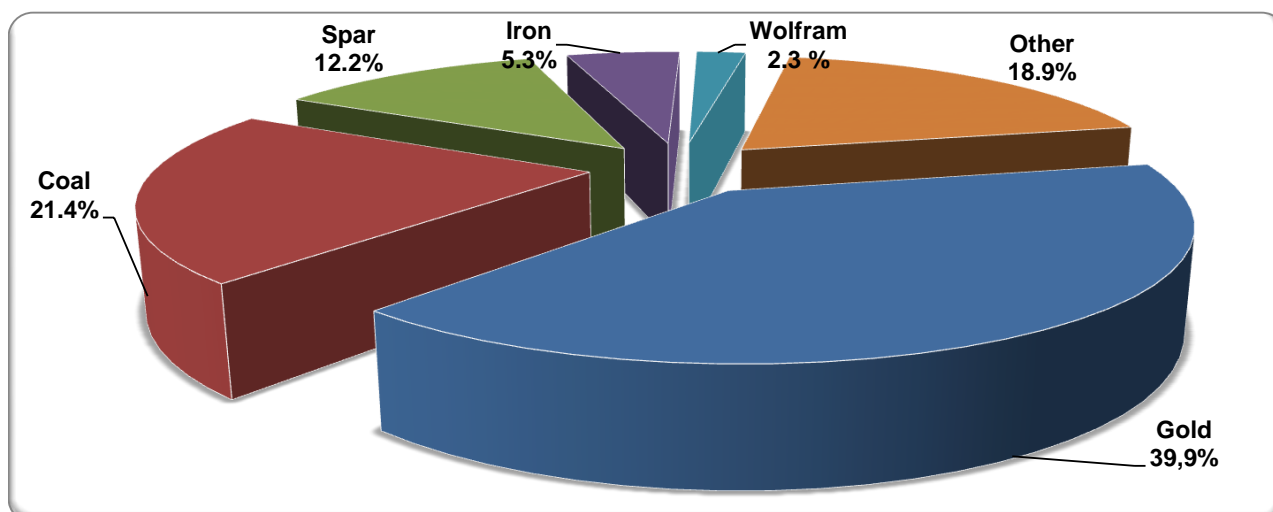
/Overlap/

May 01, 2018

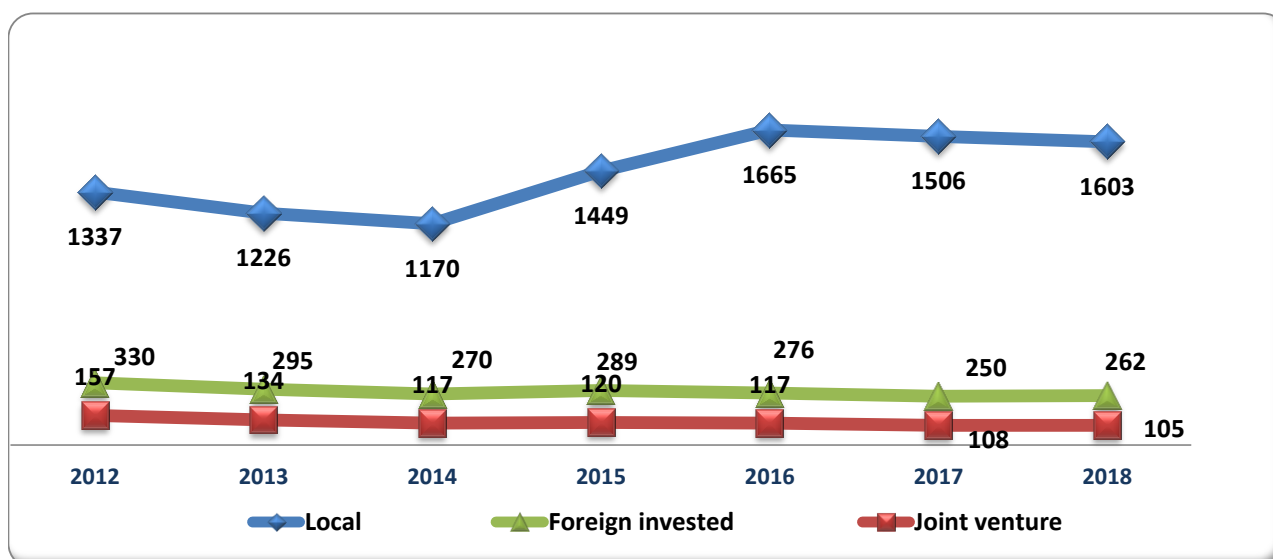
No	Name of area	Area /mln.hectare/	Percentage of total area
1	Valid mining licensed area	1,5	1,0%
2	Valid exploration licensed area	8,7	5,6%
3	State protected area	29,1	18,6%
4	Special purpose area	28,2	18,0%
5	Strategic deposit, government reserved area	39,2	25,1%
6	Settled area, border and railway strip area	1,1	0,7%
7	Other prohibited area	49,1	31,4%

4.6. Mining licenses by Minerals

May 01, 2018



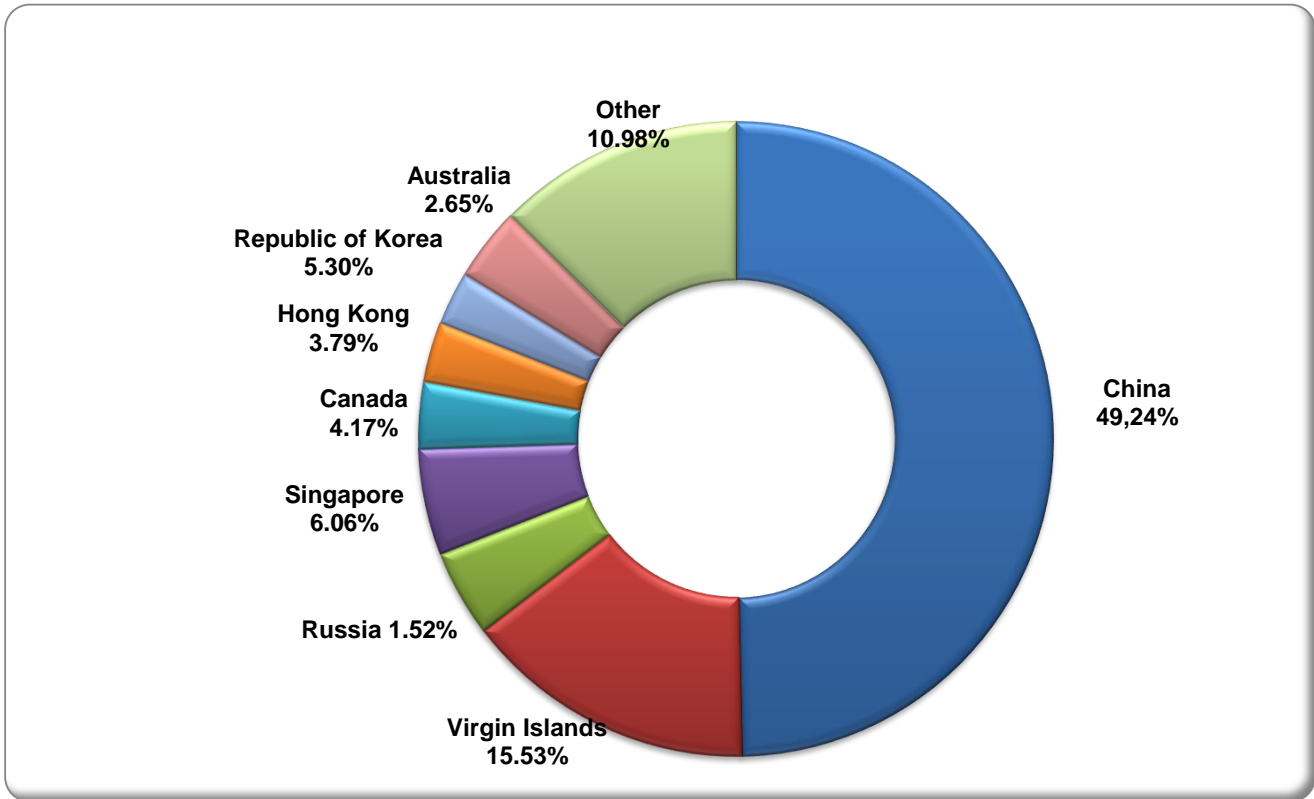
4.7. Number of licensees



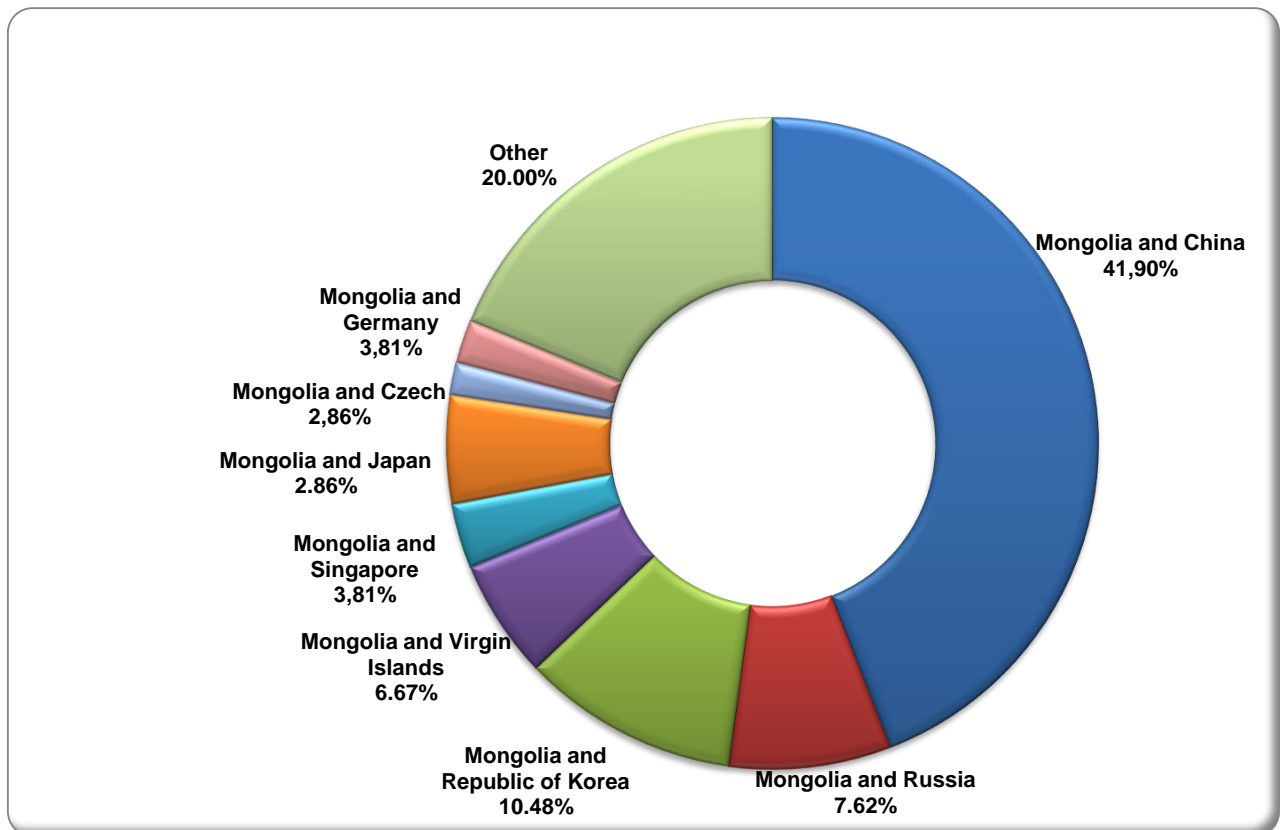
Source: Computerized mining cadastre system, MRPAM



4.8. Composition of foreign invested license holders by countries



4.9. Composition of the joint venture license holders by countries



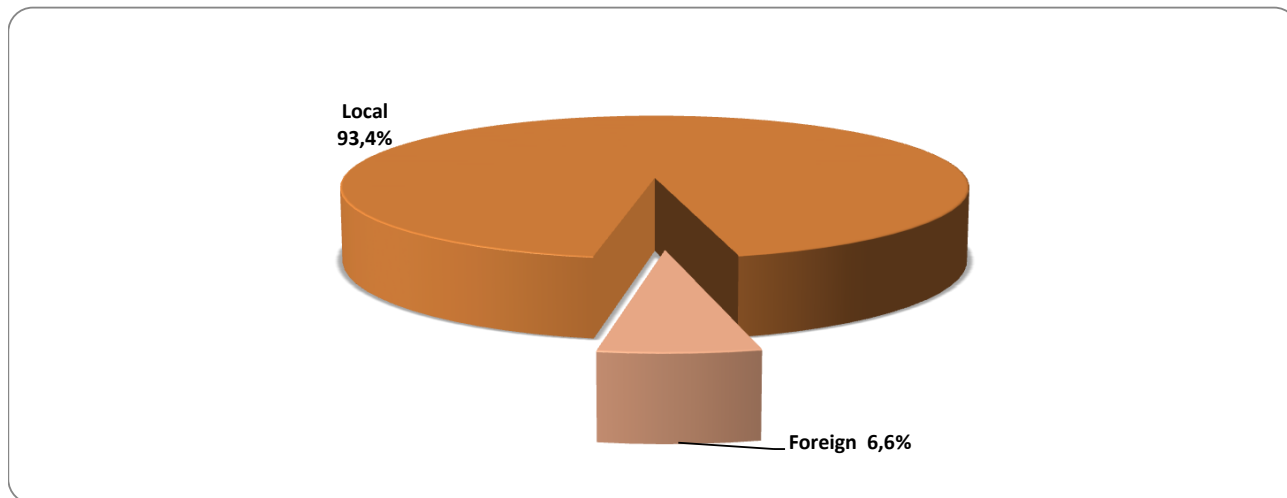
Source: Computerized mining cadastre system, MRPAM



4.10. Origin of license holders

Name of Country		Holder		License		Area /hectare/	
		Number	Percent	Number	Percent	Hectare	Percent
	TOTAL	1969	100,0%	3322	100,00%	10 225 278,4	100,00%
1	Mongolia	1603	0,8141188	2657	0,79981939	7755297,12	75,84%
2	China	182	0,0924327	242	0,07284768	550658,34	5,39%
3	Virgin Islands	46	0,0233621	118	0,03552077	396806,49	3,88%
4	Republic of Korea	27	0,0137125	41	0,01234196	121200,76	1,19%
5	Singapore	21	0,0106653	77	0,02317881	502700,5	4,92%
6	Hong Kong	13	0,0066023	29	0,00872968	195733,98	1,91%
7	Canada	12	0,0060945	30	0,0090307	237467	2,32%
8	Russia	12	0,0060945	15	0,00451535	8279,24	0,08%
9	Australia	7	0,0035551	8	0,00240819	38042,21	0,37%
10	Japan	7	0,0035551	29	0,00872968	111998,5	1,10%
11	Germany	6	0,0030472	7	0,00210716	13864	0,14%
12	Holland	5	0,0025394	21	0,00632149	133376,99	1,30%
13	Czech Republic	4	0,0020315	7	0,00210716	52526,28	0,51%
14	Great Britain	4	0,0020315	7	0,00210716	19669,24	0,19%
15	Luxenburg	4	0,0020315	8	0,00240819	20095,77	0,20%
16	Ukraine	2	0,0010157	2	0,00060205	291,84	0,00%
17	Bulgaria	2	0,0010157	4	0,00120409	4784,6	0,05%
18	Bermud	2	0,0010157	3	0,00090307	7314,33	0,07%
19	USA	2	0,0010157	4	0,00120409	3167,83	0,03%
20	Hungary	1	0,0005079	1	0,00030102	87,42	0,00%
21	Poland	1	0,0005079	1	0,00030102	1561,28	0,02%
22	Seychelles	1	0,0005079	1	0,00030102	36390,95	0,36%
23	Barbados	1	0,0005079	4	0,00120409	10734,57	0,10%
24	New Zealand	1	0,0005079	2	0,00060205	227,85	0,00%
25	Malaysia	1	0,0005079	2	0,00060205	2416,53	0,02%
26	Kazakhstan	1	0,0005079	1	0,00030102	551,23	0,01%
27	Switzerland	1	0,0005079	1	0,00030102	33,53	0,00%

4.11. License holders by Investors, Apr, 2018



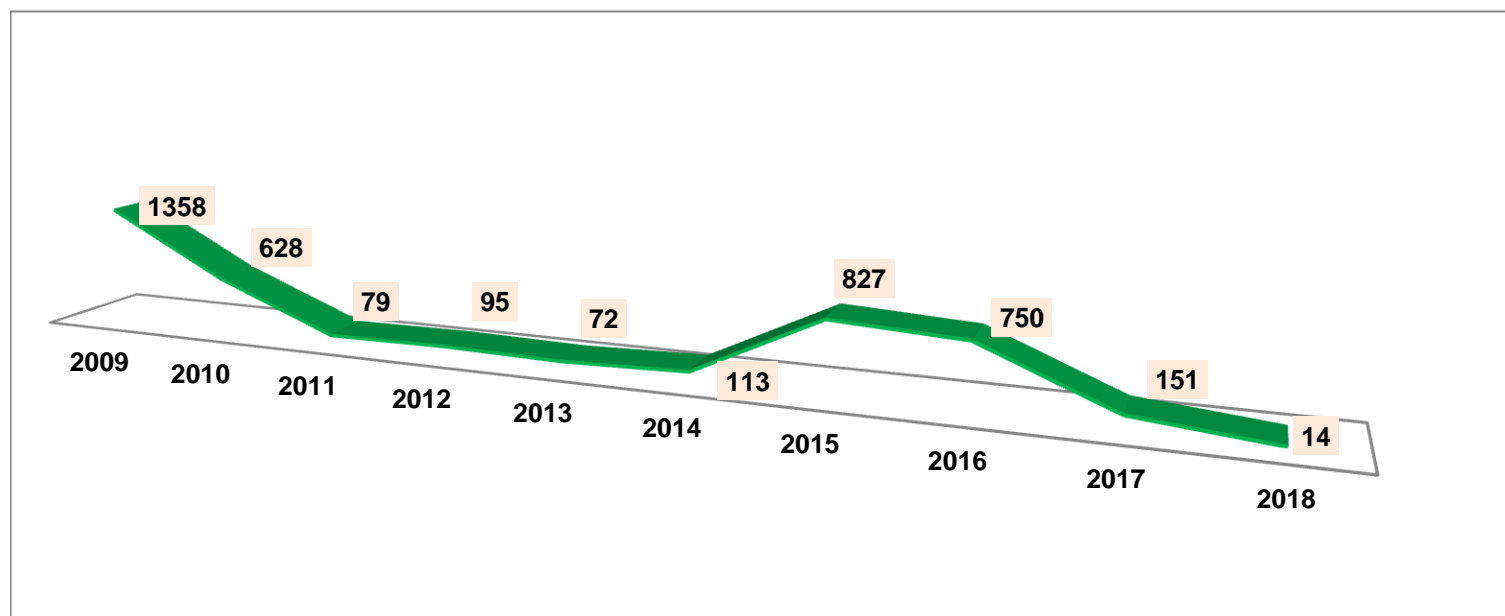
Source: Computerized mining cadastre system, MRPAM



4.12. Changes in license registry, 2010-Apr, 2018

Type of registration	2010	2011	2012	2013	2014	2015	2016	2017	Apr, 2018
1. New issued	235	79	95	72	113	827	750	140	14
<i>Mining</i>	90	79	95	72	97	91	93	65	10
<i>Exploration</i>	145	0	0	0	2	697	629	44	4
<i>Selection processed</i>	—	—	—	—	14	39	28	31	0
2. Reversed	105	89	141	146	119	150	166	72	39
<i>Mining</i>	6	4	7	16	13	25	25	9	6
<i>Exploration</i>	99	85	134	130	106	125	141	63	33
3. Canceled	458	275	270	347	123	173	241	220	48
<i>Mining</i>	39	65	139	43	14	10	37	35	3
<i>Exploration</i>	419	210	131	304	109	163	204	185	45
4. Expired	248	225	175	253	289	179	124	141	21
5. Transferred	448	441	200	8	51	88	146	122	81
<i>Mining</i>	59	58	47	8	38	46	50	58	17
<i>Exploration</i>	389	383	153	0	13	42	96	64	64
6. Extended	791	997	601	317	444	336	167	162	71
7. Pledged	50	62	38	61	40	22	29	36	22
<i>Mining</i>	36	39	22	42	34	22	27	32	22
<i>Exploration</i>	14	23	16	19	6	0	2	4	0
8. Terminated pledges		28	42	31	29	24	16	36	12
<i>Mining</i>		8	15	29	24	19	12	35	11
<i>Exploration</i>		20	27	2	5	5	4	1	1
9. Refunded		94	56	15	11	19	35	18	23
<i>Mining</i>		29	16	9	7	10	15	12	5
<i>Exploration</i>		65	40	6	4	9	20	6	18

4.13. Number of issued licenses, 2009-Apr, 2018

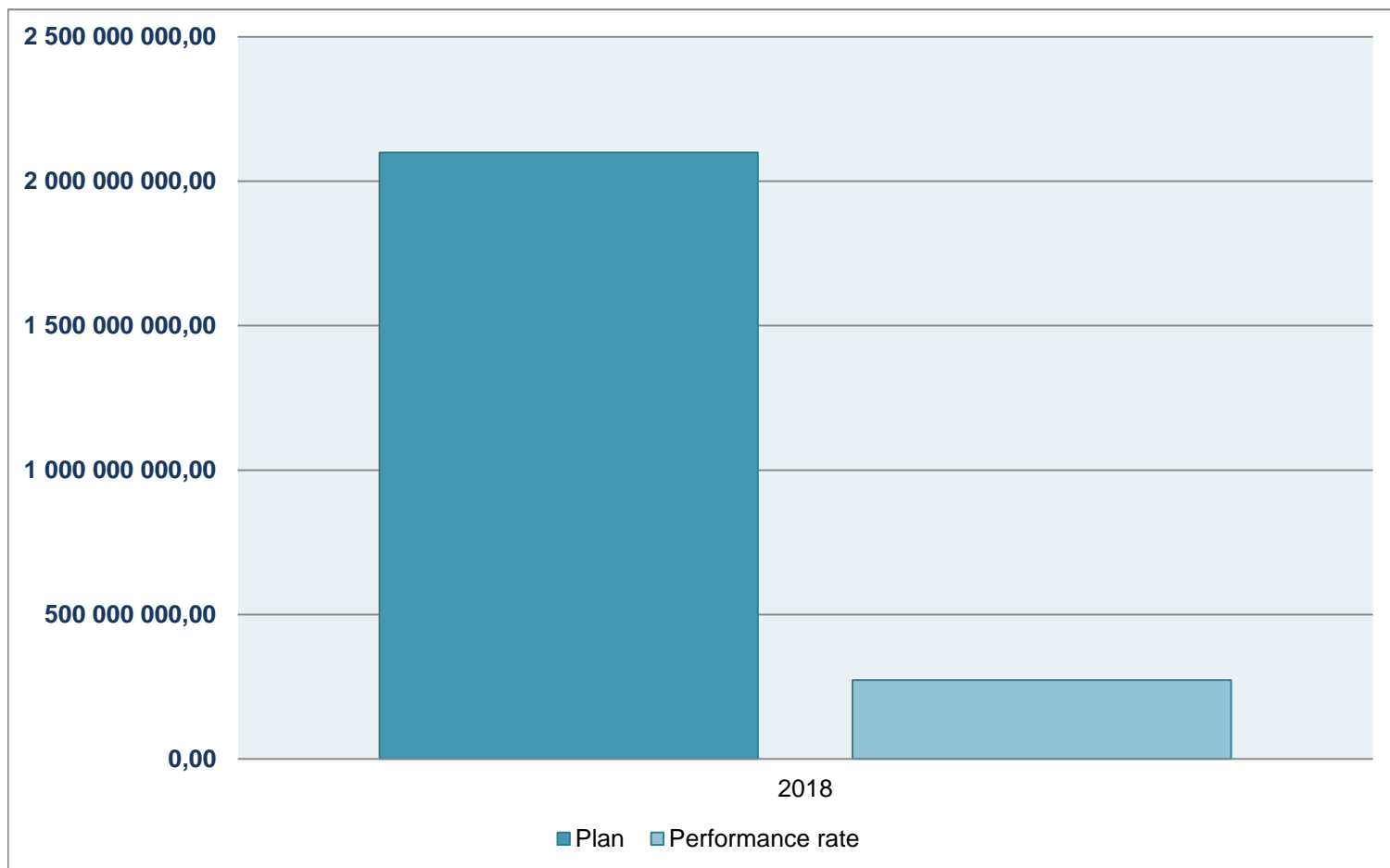


Source: Computerized mining cadastre system, MRPAM



5. Concentration of exploration expenditure

5.1. Reimbursement of deposits explored by the state budget, MNT



In 2018, According to the reimbursement contract, MNT 2,100,000,000 was planned, out of it, MNT 272 739 040,40 was paid back by the Apr of 2018. /in increasing amount /



6. State investment revenue

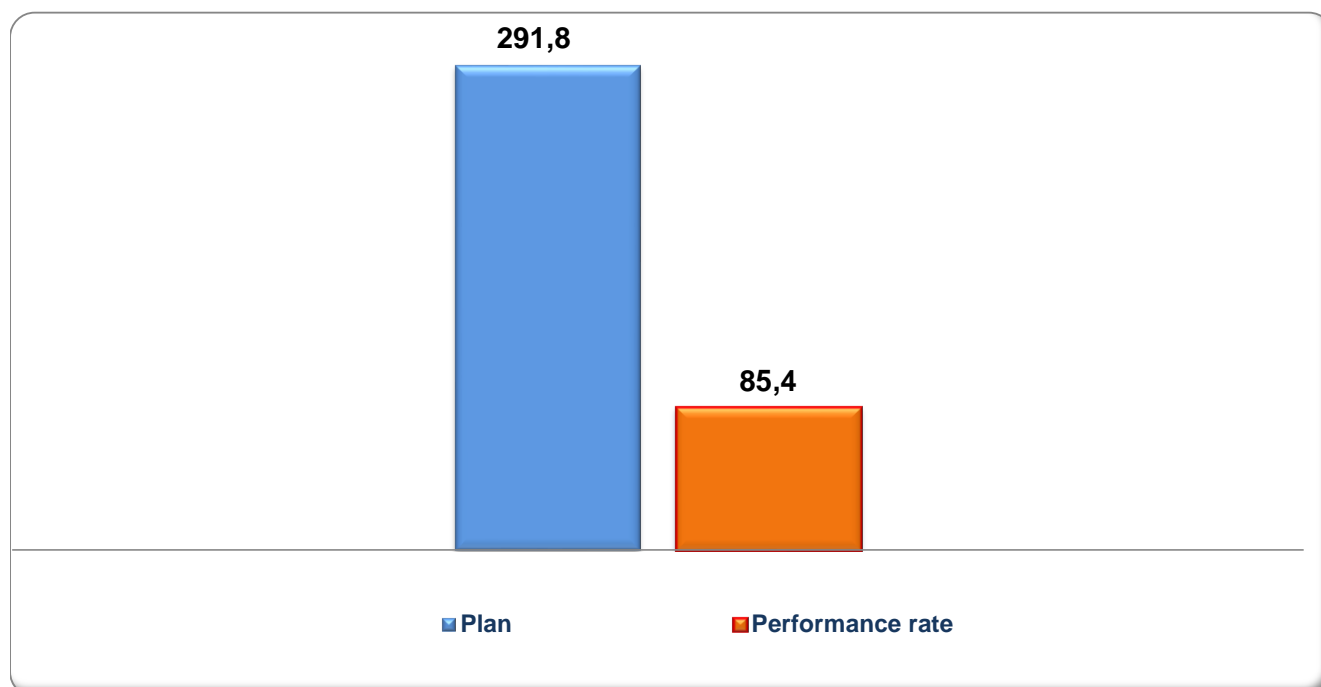
6.1. Budget revenue performance, MNT, Apr, 2018

Income type		Plan of 2018	Performance rate, Apr, 2018	Performance rate, Jan-Apr, 2018	Performance rate, 2018, %
№	State budget revenues	291 808 115 046	23 077 994 080	85 436 448 926	29,28%
1	License fee	37 000 000 000	2 609 235 232	8 905 334 675	24,07%
2	Reimbursement	2 100 000 000	25 927 494	272 739 040	12,99%
3	Petroleum revenues	223 448 349 919	20 199 983 174	73 528 424 197	32,91%
4	Other revenues /Service revenues/	6 109 765 127	242 848 180	2 729 951 014	44,68%
5	Own income /Selection of tender/	23 150 000 000	-	-	0%

Other revenues

№	Revenue type	Plan of 2018	Performance rate, Mar, 2018	Performance rate, Mar, 2018	Performance rate, Mar, 2018, %
1	Service revenue /mineral resources/	3 717 273 977	-	921 279 351	24,78%
2	Service revenue /petroleum/	2 392 491 150	239 098 973	1 795 367 209	75,04%
3	Interest income	0	3 749 207	13 304 453	-

6.3. Income plan and performance rate, bln.MNT, Jan-Apr, 2018

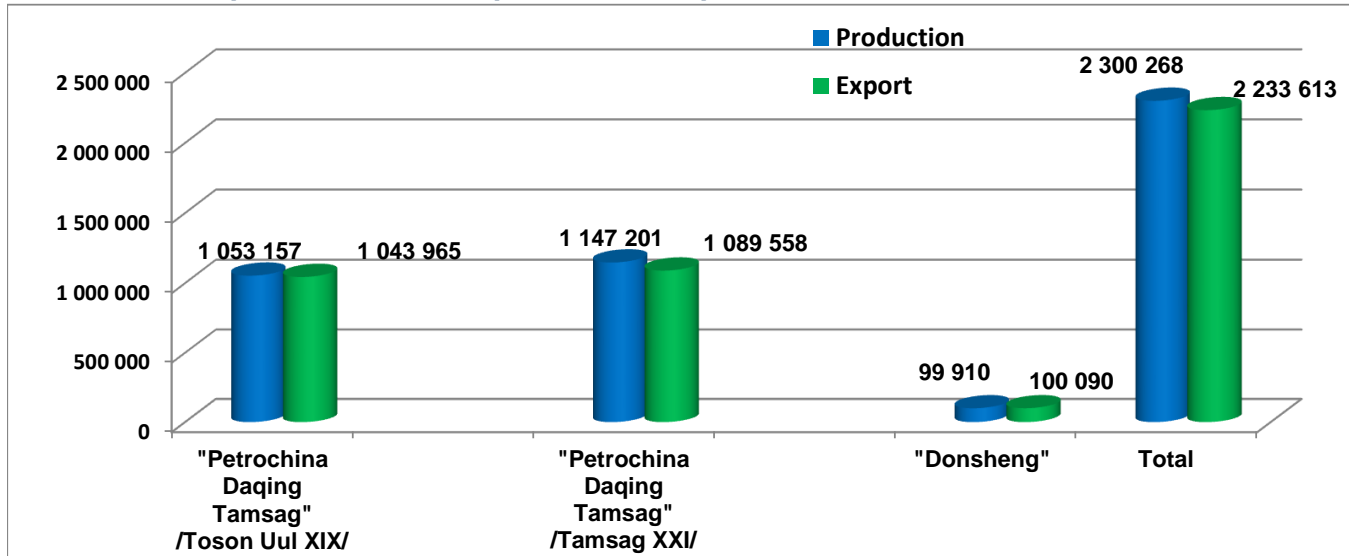


Source: Administration and Management Division, MRPAM



7. PETROLEUM STATISTICS

7.1. Petroleum production and export, barrel, Apr, 2018



7.2. Petroleum production and export, by companies

No	Type, size	"Petrochina Daqing Tamsag" /Toson Uul XIX/	"Petrochina Daqing Tamsag" /Tamsag XXI/	"Donsheng"	Total
1	Production	1 053 157	1 147 201	99 910	2 300 268
2	Export	1 043 965	1 089 558	100 090	2 233 613

7.3. Petroleum products importing, tn, Apr, 2018

No	State name	A-80	AI-92	AI-95	AI-98	DT	TC-1	lique-fied gas	Other	Total
1	Russia	4 188	21 803	641	-	58 596	3 895	4,431	23 645	112 772
2	China	-	2 019	-	-	487	-	-	201	2 707
3	Republic of Korea	-	-	-	-	-	-	0,164	687	688
4	Other counries	-	-	-	-	-	-	-	9 601	9 601
Total		4 188	23 821	641	-	59 083	3 895	4,60	34 135	125 768

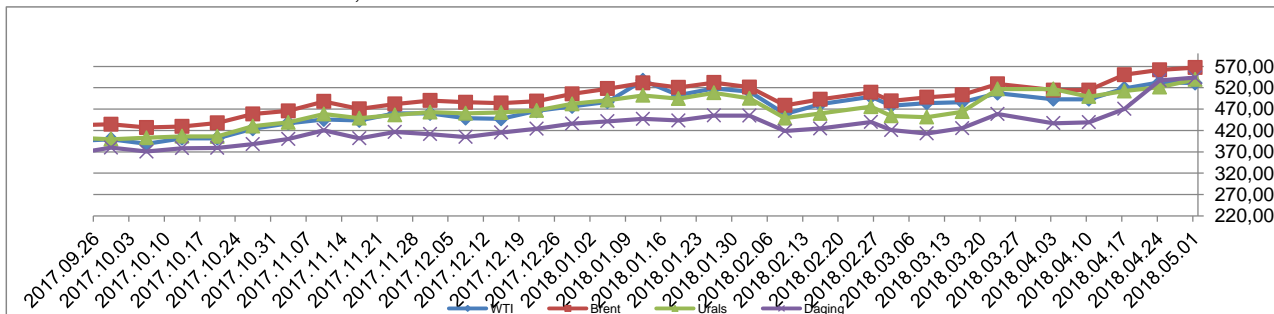
Source : Petroleum Product Division, MRPAM

7.4. The world average price of petroleum products are selling retail sale, Apr, 2018

US\$/tn

Date	New York		London		Russia		China	
	WTI		BRENT		URALS 32'		DAQING 33'	
2017.05.05	355,19	↓ -6,20%	362,69	↓ -5,27%	342,38	↓ -5,07%	305,27	↓ -5,85%
2017.05.12	369,00	↑ 3,89%	375,87	↑ 3,63%	354,47	↑ 3,53%	322,21	↑ 5,55%
2017.05.19	391,16	↑ 6,01%	401,10	↑ 6,71%	376,98	↑ 6,35%	341,47	↑ 5,98%
2017.05.26	383,91	↓ -1,86%	389,09	↓ -2,99%	363,90	↓ -3,47%	329,77	↓ -3,43%
2017.06.02	366,43	↓ -4,55%	371,16	↓ -4,61%	348,56	↓ -4,22%	316,17	↓ -4,12%
2017.06.09	352,15	↓ -3,90%	356,99	↓ -3,82%	336,90	↓ -3,34%	306,29	↓ -3,13%
2017.06.16	341,30	↓ -3,08%	349,62	↓ -2,06%	331,60	↓ -1,57%	303,89	↓ -0,78%
2017.06.23	325,31	↓ -4,69%	339,25	↓ -2,97%	323,63	↓ -2,40%	286,29	↓ -5,79%
2017.06.30	359,25	↑ 10,43%	364,10	↑ 7,32%	343,33	↑ 6,09%	306,79	↑ 7,16%
2017.07.14	363,15	↑ 1,09%	371,62	↑ 2,07%	351,81	↑ 2,47%	311,16	↑ 1,42%
2017.07.21	357,14	↓ -1,65%	365,16	↓ -1,74%	345,81	↓ -1,70%	320,61	↑ 3,04%
2017.07.28	378,91	↑ 6,10%	392,85	↑ 7,58%	374,10	↑ 8,18%	334,86	↑ 4,44%
2017.08.04	381,02	↓ 0,56%	398,59	↑ 1,46%	378,41	↑ 1,15%	332,82	↓ -0,61%
2017.08.11	376,65	↓ -1,15%	391,18	↓ -1,86%	373,33	↓ -1,34%	330,35	↓ -0,74%
2017.08.18	382,82	↑ 1,64%	386,85	↓ -1,11%	367,70	↓ -1,51%	331,73	↑ 0,42%
2017.08.25	370,10	↓ -3,32%	395,67	↑ 2,28%	366,73	↓ -0,26%	344,02	↑ 3,70%
2017.09.01	369,78	↓ -0,08%	397,53	↑ 0,47%	376,65	↑ 2,71%	341,69	↓ -0,68%
2017.09.08	360,73	↓ -2,45%	413,56	↑ 4,03%	383,30	↑ 1,77%	361,6098	↑ 5,83%
2017.09.22	395,30	↑ 1,50%	432,02	↑ 2,49%	402,96	↑ 2,13%	366,41	↑ 2,02%
2017.09.29	399,67	↑ 1,11%	434,38	↑ 0,55%	399,20	↓ -0,93%	379,64	↑ 3,61%
2017.10.06	389,14	↓ -2,64%	426,87	↓ -1,73%	402,90	↑ 0,93%	370,72	↓ -2,35%
2017.10.13	401,85	↑ 3,27%	429,51	↑ 0,62%	406,32	↑ 0,85%	378,69	↑ 2,15%
2017.10.20	401,62	↓ -0,06%	437,61	↑ 1,88%	406,07	↓ -0,06%	379,28	↑ 0,15%
2017.10.27	423,70	↑ 5,50%	458,43	↑ 4,76%	430,26	↑ 5,96%	388,15	↑ 2,34%
2017.11.03	436,89	↑ 3,11%	465,83	↑ 1,62%	438,70	↑ 1,96%	399,78	↑ 3,00%
2017.11.10	445,47	↑ 1,96%	487,87	↑ 4,73%	458,65	↑ 4,55%	420,50	↑ 5,18%
2017.11.17	443,21	↓ -0,51%	470,39	↓ -3,58%	448,71	↓ -2,17%	401,81	↓ -4,44%
2017.11.24	459,99	↑ 3,79%	481,94	↑ 2,46%	456,02	↑ 1,63%	416,57	↑ 3,67%
2017.12.01	459,67	↓ -0,07%	490,18	↑ 1,71%	462,63	↑ 1,45%	411,41	↓ -1,24%
2017.12.08	448,75	↓ -2,38%	485,89	↓ -0,88%	459,97	↓ -0,58%	404,79	↓ -1,61%
2017.12.15	447,11	↓ -0,37%	484,22	↓ -0,34%	461,94	↑ 0,43%	415,04	↑ 2,53%
2017.12.22	465,61	↑ 4,14%	488,48	↑ 0,88%	466,91	↑ 1,08%	423,84	↑ 2,12%
2017.12.29	476,14	↑ 2,26%	505,49	↑ 3,48%	482,04	↑ 3,24%	436,13	↑ 2,90%
2018.01.05	486,83	↑ 2,25%	517,88	↑ 2,45%	490,51	↑ 1,76%	441,58	↑ 1,25%
2018.01.12	513,83	↑ 5,55%	531,29	↑ 2,59%	502,13	↑ 2,37%	447,25	↑ 1,28%
2018.01.23	502,67	↓ -2,17%	520,92	↓ -1,95%	494,68	↓ -1,48%	443,40	↓ -0,86%
2018.01.26	518,43	↑ 3,14%	532,05	↑ 2,14%	507,94	↑ 2,68%	454,96	↑ 2,61%
2018.02.02	510,71	↓ -1,49%	521,07	↓ -2,06%	494,90	↓ -2,57%	454,81	↓ -0,03%
2018.02.09	458,82	↓ -10,16%	478,52	↓ -8,17%	448,86	↓ -9,30%	418,75	↓ -7,93%
2018.02.16	481,29	↑ 4,90%	492,65	↑ 2,95%	459,75	↑ 2,43%	424,57	↑ 1,39%
2018.02.26	498,69	↑ 3,62%	509,45	↑ 3,41%	475,39	↑ 3,40%	439,84	↑ 3,60%
2018.03.02	477,93	↓ -4,16%	489,08	↓ -4,00%	454,27	↓ -4,44%	420,93	↓ -4,30%
2018.03.09	484,10	↑ 1,29%	497,59	↑ 1,74%	451,20	↓ -0,68%	412,94	↓ -1,90%
2018.03.16	486,44	↑ 0,48%	503,06	↑ 1,10%	463,84	↑ 2,80%	425,30	↑ 2,99%
2018.03.23	512,81	↑ 5,42%	529,05	↑ 5,17%	516,82	↑ 11,42%	458,74	↑ 7,86%
2018.04.03	492,68	↓ -3,93%	514,46	↓ -2,76%	516,82	0,00%	436,93	↓ -4,75%
2018.04.10	497,52	↑ 0,98%	524,26	↑ 1,91%	499,21	↓ -3,41%	439,11	↑ 0,50%
2018.04.17	518,12	↑ 4,14%	550,55	↑ 5,01%	512,29	↓ -0,88%	470,37	↑ 7,12%
2018.04.24	532,48	↑ 2,77%	561,95	↑ 2,07%	521,06	↑ 4,38%	537,25	↑ 14,22%
2018.05.01	530,76	↓ -0,32%	567,27	↑ 0,95%	539,11	↑ 5,24%	543,80	↑ 1,22%

Source: Petroleum Product Division, MRPAM



7.5. The average retail price of petroleum products sold throughout Mongolia, Apr, 2018

/MNT/

Number	Zone name	Pillar center	Province, city	Type							
				A-80		AI-92		AI-95		DT	
				4 сарын 24-ний	5 сарын 01-ний	4 сарын 24-ний	5 сарын 01-ний	4 сарын 24-ний	5 сарын 01-ний	4 сарын 24-ний	5 сарын 01-ний
1	Western region	Khovd, Uliastai	Bayan-Ulgii	1550	1550	1700	1700	-	-	1800	1800
2			Govi-Altai	1750	1750	1860	1860	-	-	2140	2140
3			Zavkhan	1820	1820	1920	1920	-	-	2260	2260
4			Uvs	1730	1730	1900	1940	-	-	2060	2060
5			Hovd	1820	1820	1940	1940	-	-	2200	2200
The average price of western region				1 734	1 734	1 864	1 872			2 092	2 092
6	Hangai region	Kharkhorin, Erdenet	Arkhangai	1690	1690	1790	1790	2150	2150	2100	2100
7			Bayankhongor	1680	1680	1810	1810	-	-	2140	2140
8			Bulgan	1630	1630	1770	1770	2070	2070	2040	2040
9			Uvurkhangai	1660	1660	1790	1790	-	-	2100	2100
10			Orkhon	1620	1620	1760	1760	2070	2070	2040	2040
11			Selenge	1580	1580	1730	1730	2040	2070	2020	2020
12			Khuvsgul	1670	1670	1850	1850	2180	2180	2080	2080
The average price of hangai region				1 647	1 647	1 786	1 786	2 102	2 108	2 074	2 074
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1555	1555	1708	1708	2048	2048	2010	2010
14			Tuv	1520	1520	1740	1740	2040	2040	2 020	2 020
15			Darkhan	1580	1580	1730	1730	2040	2040	2010	2010
16			Govisumber	1640	1640	1780	1780	2050	2050	2100	2100
17			Dundgovi	1660	1660	1780	1780	2050	2050	2100	2100
18			Dornogovi	1650	1650	1780	1780	2050	2050	2080	2080
19			Umnugovi	1650	1650	1850	1850	2050	2050	2150	2150
20			Zamin Uud	1780	1690	1980	1820	2150	2100	2175	2100
The average price of central region				1 629	1 618	1 794	1 774	2 060	2 054	2 081	2 071
21	Eastern region	Choibalsan, Undurkhaan	Dornod	1680	1680	1830	1830	2100	2100	2100	2100
22			Sukhbaatar	1700	1700	1850	1850	2100	2100	2160	2160
23			Khentii	1630	1630	1780	1780	2050	2050	2100	2100
The average price of eastern region				1 670	1 670	1 820	1 820	2 083	2 083	2 120	2 120
State average price				1 670	1 667	1 816	1 813	2 082	2 082	2 092	2 089

The retail price main companies /in Ulaanbaatar city/

Number	Company name	A-80	AI-92	AI-95	Diesel
1	"Shunkhlai" LLC	1 580	1 730	2 050	2 010
2	"Sod Mongol" LLC	1 480	1 660	2 050	2 010
3	"Magnai trade" LLC	1 580	1 730	2 040	2 010
4	"Petrovis" LLC	1 580	1 710	2 050	2 010
Average price		1 555	1 708	2 048	2 010

Source: Aggregated data of the Petroleum Product Division submitted by the entities.



8. Mining and petroleum examination and testing central laboratory statistics

Apr, 2018

Type of coal	Name	Ангилал	Classificati on	Deposit name	Qualiti indicators						
					TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI
					Weight, %				kcal/kg	Index	
Raw coal	Antracite	Antracite	Khangi	Mandakh nuur	3,1	7,5	6	0,48	7546	0	0
	Coal	Coking	Khangi	Ail bayan	0	0,0	0,0	0,00	0	0,0	0,0
			Gashuun Sukhait	Baruun, zuun tsankhi	1,3	14,7	28,1	1,05	7083	7,0	80,0
				Tavan tolgoi 4rd orifice	2,7	14,2	27,3	0,10	7353	8,0	84,6
			Weak coking	Gashuun Sukhait	Tavan tolgoi 8 orifice	2,0	23,1	30,2	0,94	6417	6,5
		Shivee khuren		Khuren shand	4,2	13,9	36,3	1,04	6352	5,0	66,7
				Baruun noyon uul	0	0,0	0,0	0,00	0	0,0	0,0
				Nariin sukhait	1,4	7,6	32,9	0,86	7305	5,0	56,2
					0	0	0	0	0	0	0
					0	0	0	0	0	0	0
		Zamiin Uud		Mogoin gol	3,2	8,6	31,5	1,17	8115	9,0	102
		Non-Coking	Khangi	Ail bayan	0	0,0	0,0	0,00	0	0,0	0,0
				ETT Energy	4,8	19,5	25,0	0,57	6319	0,0	0,0
			Shivee khuren	Khuren shand	4,5	18,3	35,6	1,63	6199	1,5	15,3
				Nariin sukhait	3,5	34,5	27,2	0,55	5132	0,0	0,0
					0	0	0	0	0	0	0
	Zangat Uul			0	0	0	0	0	0	0	
	Other	Zamiin Uud	Dalan CHA	1,5	21,1	29,8	1,26	6492	0,0	0,0	
			Dalan Shtain	4,2	22,3	29,5	1,83	6242	0,0	0,0	
			Dalan FShR	0	0,0	0,0	0,00	0	0,0	0,0	
	Brown coal	Bichigt	Bayantsogt	0	0	0	0	0	0	0	
			Hhoot	0	0,0	0,0	0,00	0	0,0	0,0	
	Washed coal	Brown coal	Coking		Ukhaa khudag	0	0	0	0	0	0
Yarant				Khoshoot	0	0	0	0	0	0	0
Weak coking			Gashuun Sukhait	Ukhaa khudag	0	0	0	0	0	0	
Non-Coking			Gashuun Sukhait	-	1,1	20,4	23	0,57	6816	0	0
Brown coking cox and semi coking		27,04-0010	Gashuun Sukhait	Cox	0	0,0	0,0	0,00	0	0,0	0,0

Source: Mining and Petroleum Central Laboratoty



Mineral Resources and Petroleum Authority of Mongolia