



**MINISTRY OF MINING  
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND  
PETROLEUM AUTHORITY OF  
MONGOLIA**

# **Mineral Resources and Petroleum Statistics**



**June, 2018**



## STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM



On June 5, 2018, the German-Mongolian Development Cooperation was established by the Federal Ministry of Geology and Natural Resources of Mongolia with the launch of "Mongolia's Mineral Resource Development Capacity Building" jointly with Mongolia's Mineral Resource and Petroleum Authority organized. The opening ceremony was attended Ms. Ch.Anun, by Chairman of the Ministry of Foreign Affairs and Trade of Mongolia; Mr. Kh.Kherlen, Chairman of Mineral Resources and Petroleum Authority; Mr.Christian Glasse, Head of Development Cooperation Division of the German Embassy, and representatives of BGR, Projects of Soemim, Merit, Australia, Canada universities and institutes participated.

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

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This bulletin is updated monthly and published on the MRPAM's website

[www.mrpam.gov.mn](http://www.mrpam.gov.mn).



## Main indicators

<b>1. Number of valid licenses (by the July 05, 2018)</b>	<b>3233</b>
Mining licenses	1651
Exploration licenses	1582
<b>2. Valid licensed area (by the July 05, 2018)</b>	<b>9,7 mln.ha</b>
Mining licensed area	1,5 mln.ha
Exploration licensed area	8,2 mln.ha
<b>3. Licensed area of Mongolian territory (by the July 05, 2018)</b>	<b>6,2%</b>
Mining licensed area	1,0%
Exploration licensed area	5,2%
<b>4. The role of Mining sector in Gross Domestic Product (2018)</b>	21,86%*
<b>5. Mining industry in Gross Industrial Output (June, 2018)</b>	79,80%*
<b>6. Production of major mining products (June, 2018):</b>	
Copper metal concentrate	653,7 ths.t*
Molybdenium metal concentrate	2549,0 t*
Gold	6937,2 kg
Fluorspar concentrate	32,5 ths.t*
Iron ore	1516,1 ths.t*
Zincum concentrate	39,6 ths.t*
<b>7. Main minerals export (Jan-June, 2018):</b>	
Flourspar ore and concentrate	3373,2 ths t**
Copper concentrate	773,7 ths.t**
Zinc	61,6 ths.t**
Gold	3431,9 kg**
Coal	19042,1 ths.t**
<b>8. Produced coal (June, 2018)</b>	<b>25940,3 ths.t</b>
<b>9. Sold coal (June, 2018)</b>	<b>23420 ths.t</b>
<b>10. Implementation of approved budget revenue plan (June, 2018)</b>	<b>46,1%</b>
License fee	43,9%
Petroleum export	51,4%
Reimbursement	15,3%

Notes: \* Data from National Statistical Office, [www.1212.mn](http://www.1212.mn)

\*\* Data from Customs General Administration, [www.ecustoms.mn](http://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

Source: Data from Geology and Exploration Division, MRPAM



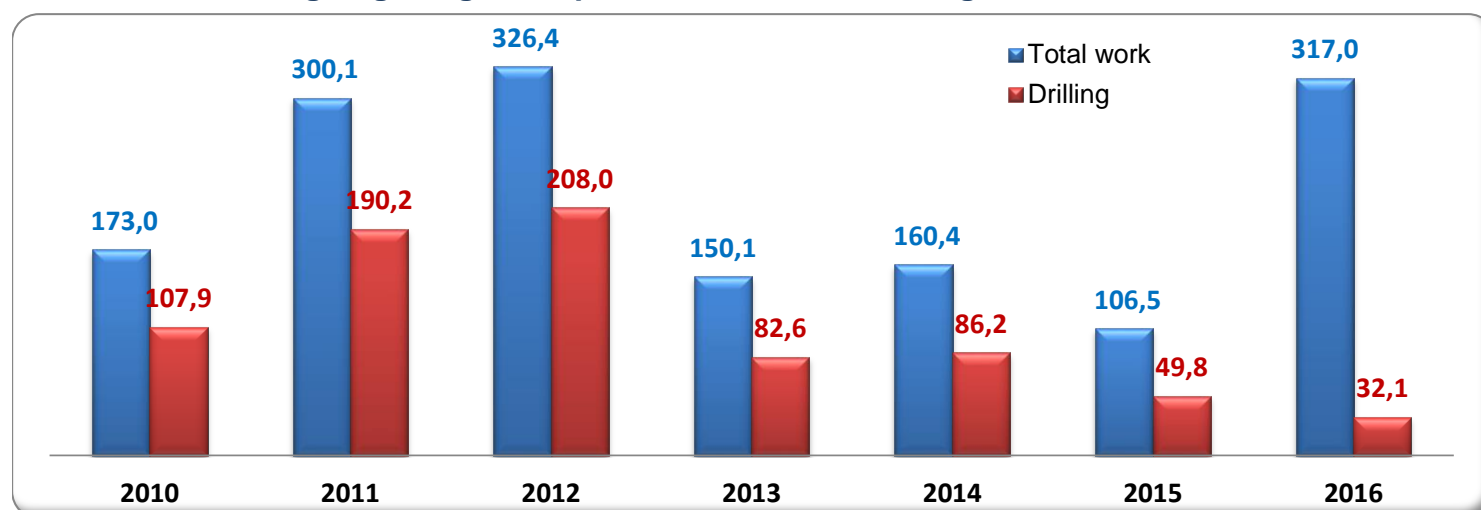
## 1.2. Geological and exploration survey conducted at expenses of the exploration license holders, mln.MNT, 2010-2016

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 wo	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

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





#### 1.4. Mineral resource reserves registered in the State's integrated registry, 2016-2018

No	Deposit types	unit	Registered reserves					
			2016		2017		2018	
			ore	metal	ore	metal	ore	metal
1	Gold (rock)	ths.t/kg	62 864,24	33 819,66	8412,8	3211,9	61657,9	15924,4
2	Gold (placer)	kg	6581,0	5955,2	3374,7	3015,0	2 464,41	2 201,15
3	Iron	ths.t	54463,2	18030,0	45655,7	11870,9	-	-
4	Polymetal	ths.t	15091,4	-	-	-	2837,3	-
	Cu	t	-	57547,3	-	-	-	-
	Zn	t	-	41043,0	-	77,7	-	-
	eqZn	t	-	-	-	-	-	73807,0
	Pb	t	-	-	-	83,4	-	-
	eqPb	t	-	-	-	1636,3	-	-
5	Molybdenium	ths.t	-	-	-	-	35 270,97	10 352,37
6	Tungsten	ths.t/t	-	-	502,6	4,4	-	-
7	Rare earth elements	ths.t/t	-	-	0,12	0,041	274,6	0,02
8	Copper	ths.t/t	2042008.33*	7789023.59*	29183,0	134,9	-	-
9	Tin	ths.t	-	89,6	-	0,7	-	-
10	Fluorspar	ths.t	801,1	335,0	1177,56	664,58	258,08	118,47
11	Uranium	t	4,9	-	-	-	-	-
12	Coal	mln.t	1295,43		3579,7		1359,3	
13	Pear shaft	mln.t	-	-	-	-	-	-
14	Limestone	mln.t	155,4		185,8		36,3	

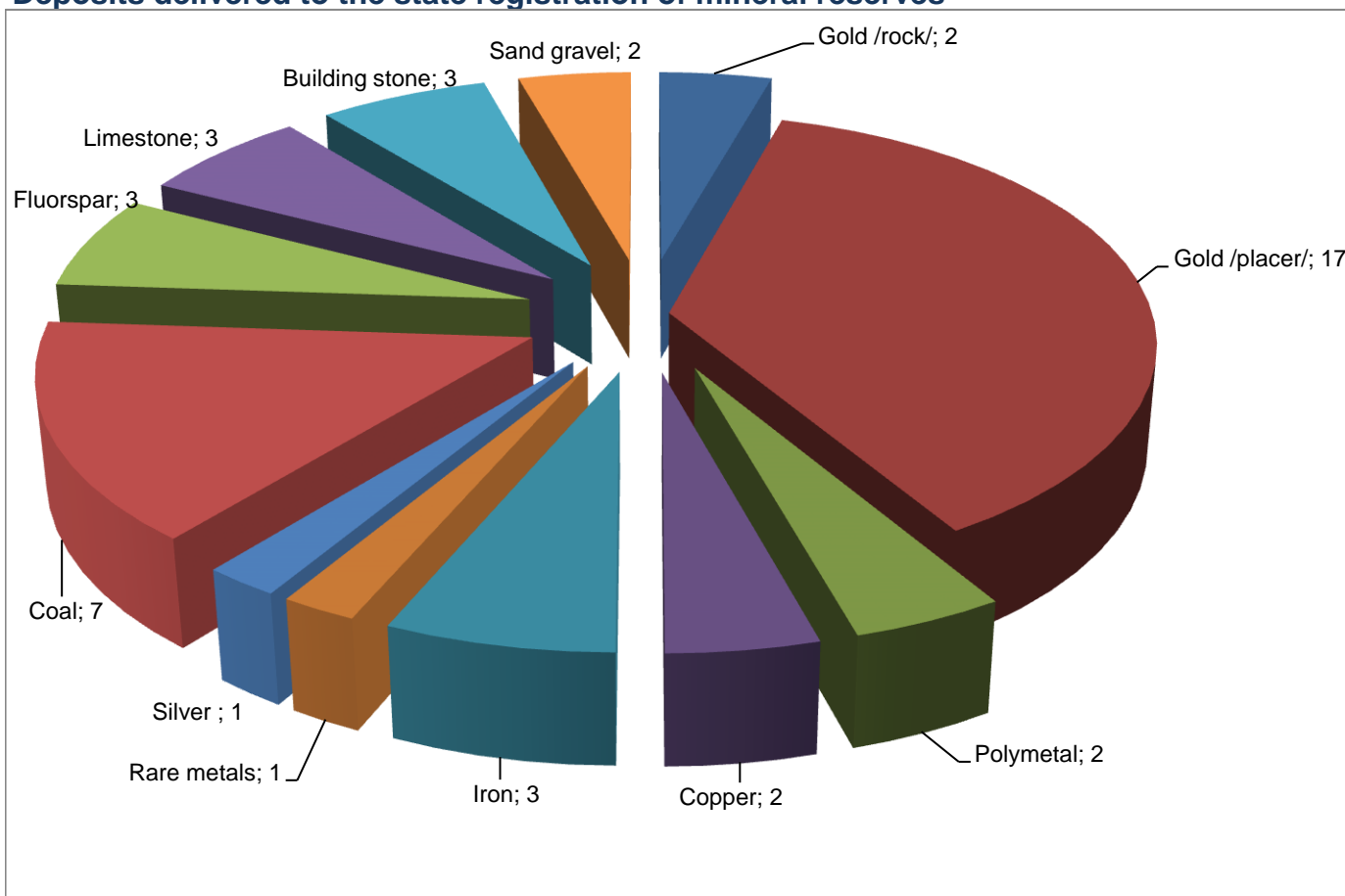
Source: Data from Geology and Exploration Division, MRPAM



### 1.5. Deposit delivered to the state registration of mineral reserves, 2018

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

### Deposits delivered to the state registration of mineral reserves



Source: Data from Geology and Exploration Division, MRPAM

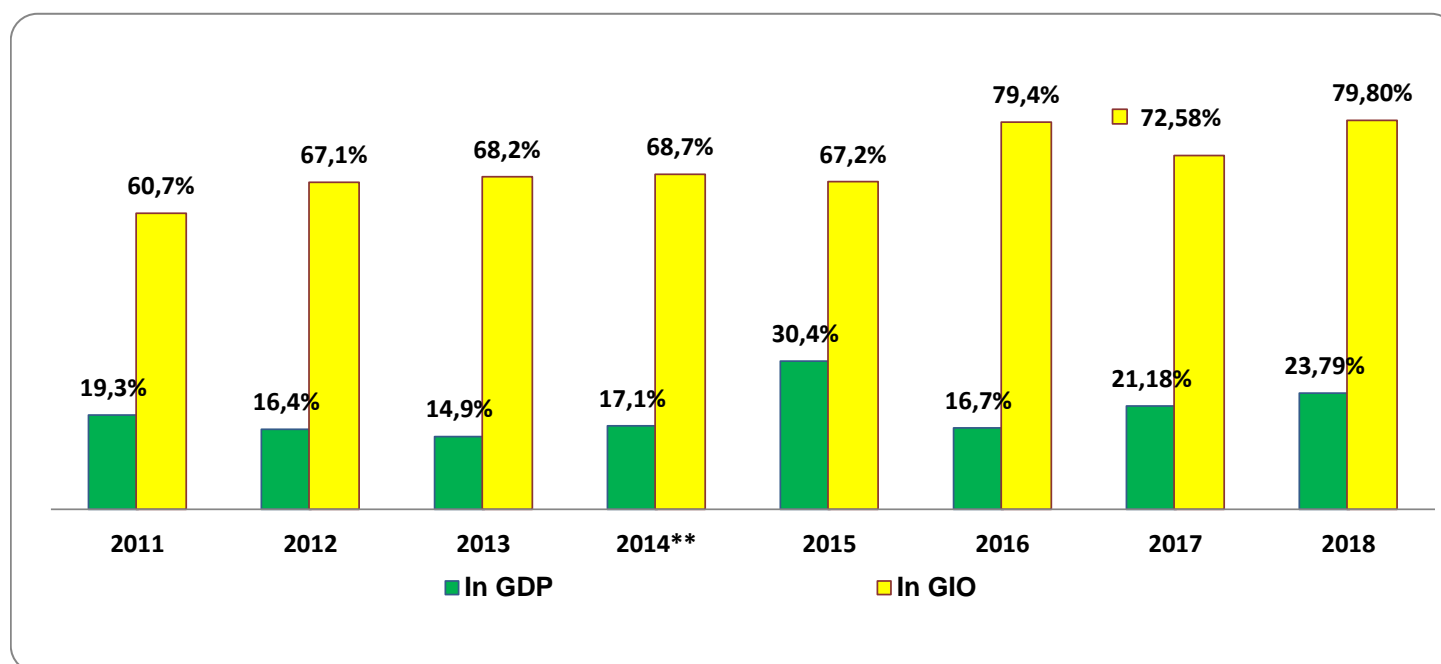


## 2. MINING STATISTICS

### 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	13 173,8	16 688,4	19 174,2	22 227,1	23 166,8	23 886,4	20 257,9	15166,6
Mining production	2 536,2	2 742,8	2 849,4	3 661,0	3 867,7	3 984,8	4 291,3	3608,1
Gross industrial output	6 185,6	5 723,6	7 651,7	9 299,6	8 714,4	9 927,1	12 932,7	8622,9
Mining and quarrying	3 752,3	3 839,7	5 217,4	6 388,9	5 858,0	7 884,7	9 386,0	6800,8

### 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	2018
Copper concentrate with metal grade, thous.t	347,4	347,6	533,3	712,0	890,7	1445,1	1 084,9	653,7
Molybdenum concentrate with metal grade, ton	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	4 673,7	2549
Gold, kg	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	17 397,5	6937,2
Fluorspar concentrate, thous.t	116,4	157,2	76,4	374,9	230,8	34,1	17,1	32,5
Iron ore, concentrate, thous.t	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	3 069,1	1516,1
Zinc concentrate, thous	104,7	119,1	104,1	93,2	89,6	100,2	69,0	39,6
Tungsten concentrate, ton	12,6	66,0	-	-	-	-	-	-

Source: [www.1212.mn](http://www.1212.mn), National Statistical Office



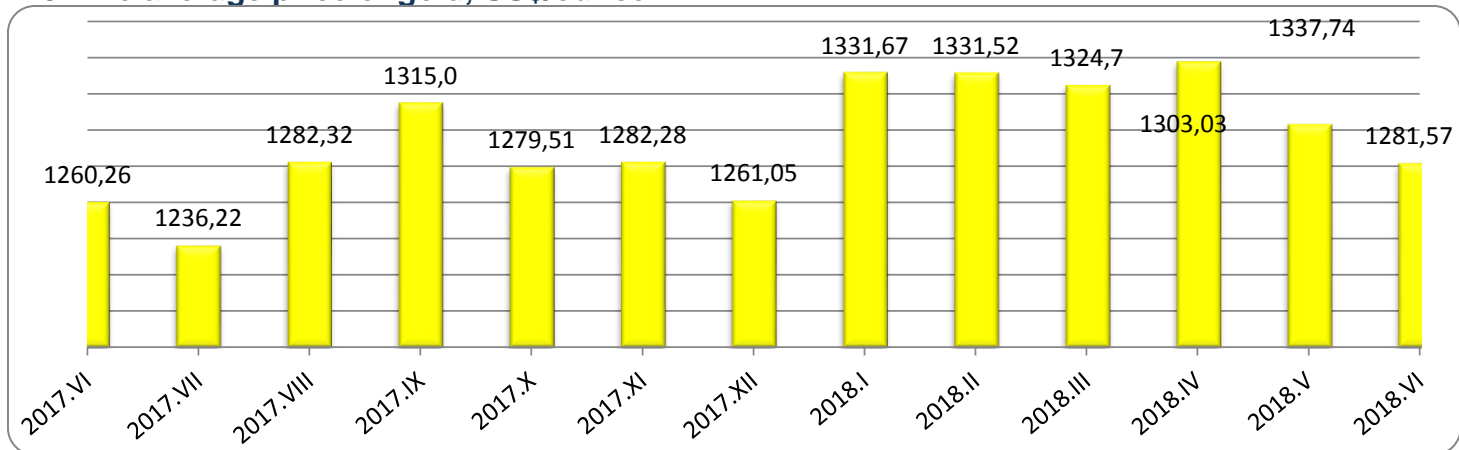


## 2.4. The average of commodity prices in the world market. US\$, 2014-2018

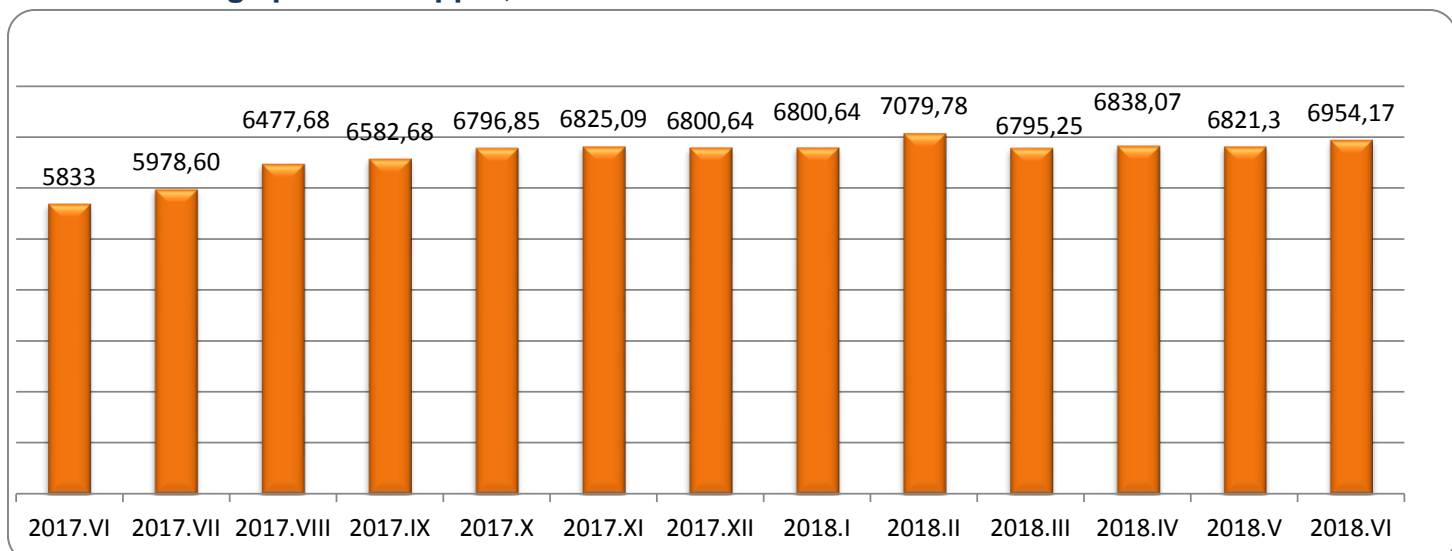
Number	Mineral commodities	Unit of measurement	2014	2015	2016	2017	June, 2018
1	Gold, ounce	\$/унци	1271,19	1160,09	1151,40	1257,11	1281,57
2	Silver, ounce	\$/унци	19,07	15,71	16,38	17,14	16,52
3	Copper, tons	\$/тн	6859,50	5501,03	5665,83	6162,36	6954,17
4	Zinc, tons	\$/тн	2161,05	1928,76	2671,34	2893,57	3091,22
5	Blue lead, tons	\$/тн	2095,44	1786,15	2230,30	2317,05	2440,15
6	Tin, tons	\$/тн	21909,93	16079,32	21274,13	20090,07	20652,03
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	44,98
10	Fluorite concentrate AG-97	\$/тн	305,66	283,29	260,00	345,38	490
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	31,4
13	Coking coal	\$/тн	150,00	106,20	121,30	113,63	137,4

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

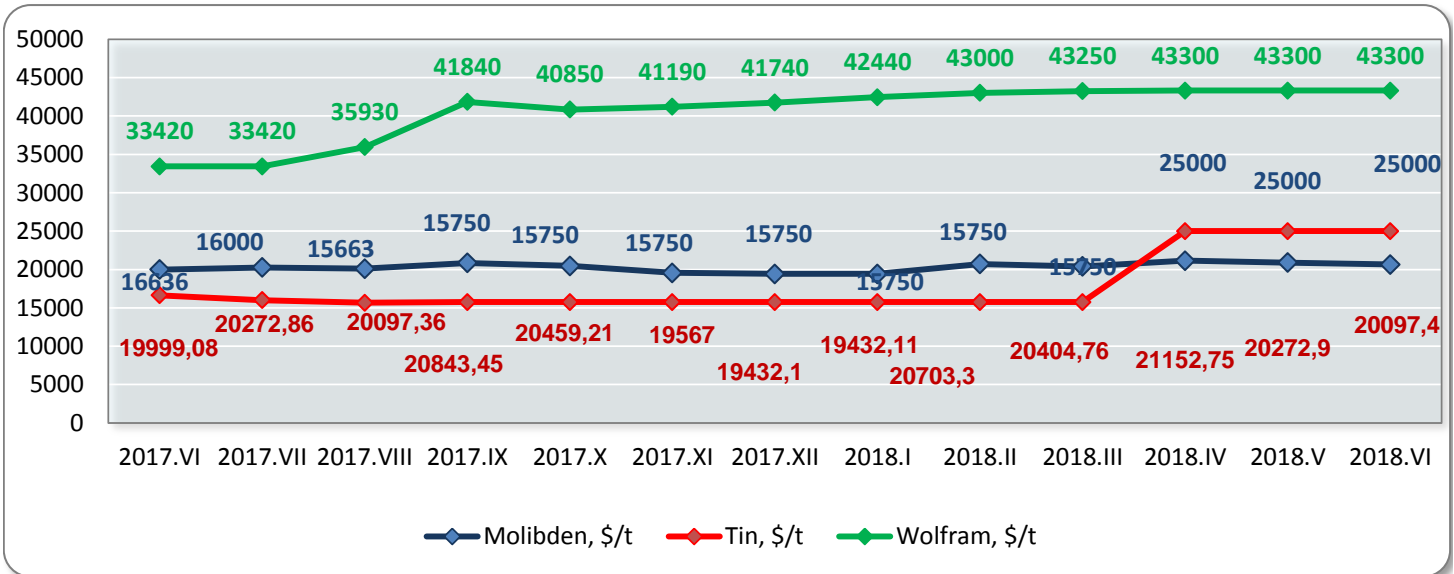


## 2.6. The average price of copper, US\$/tons

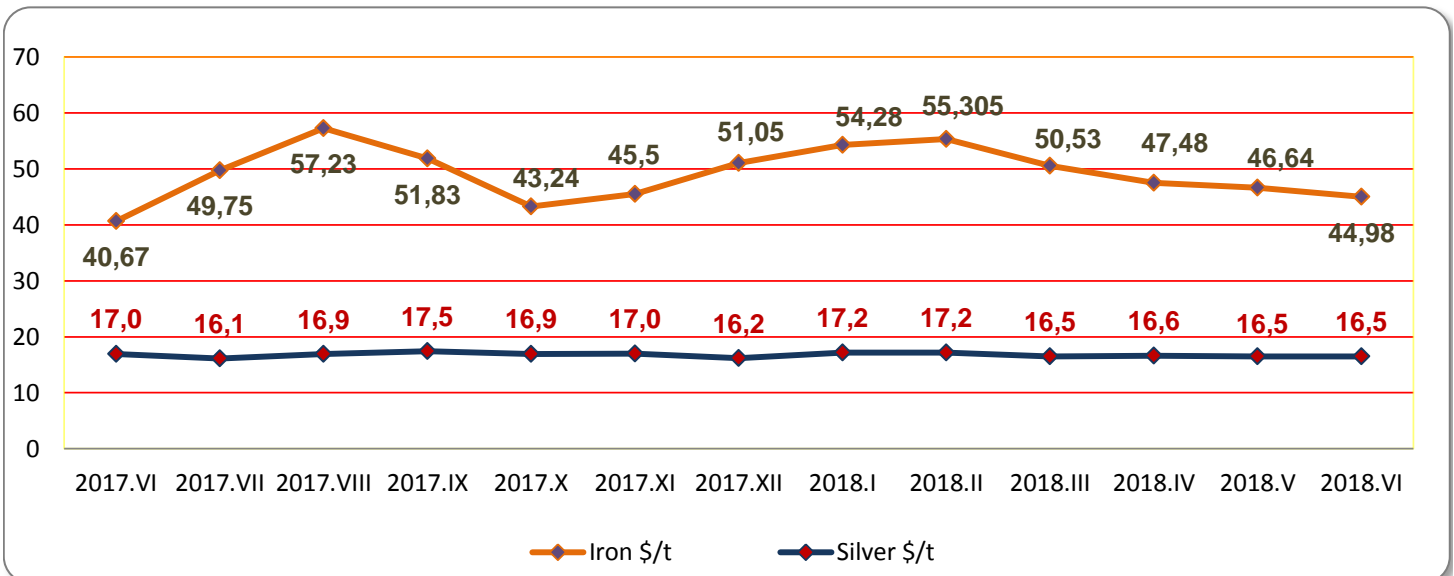




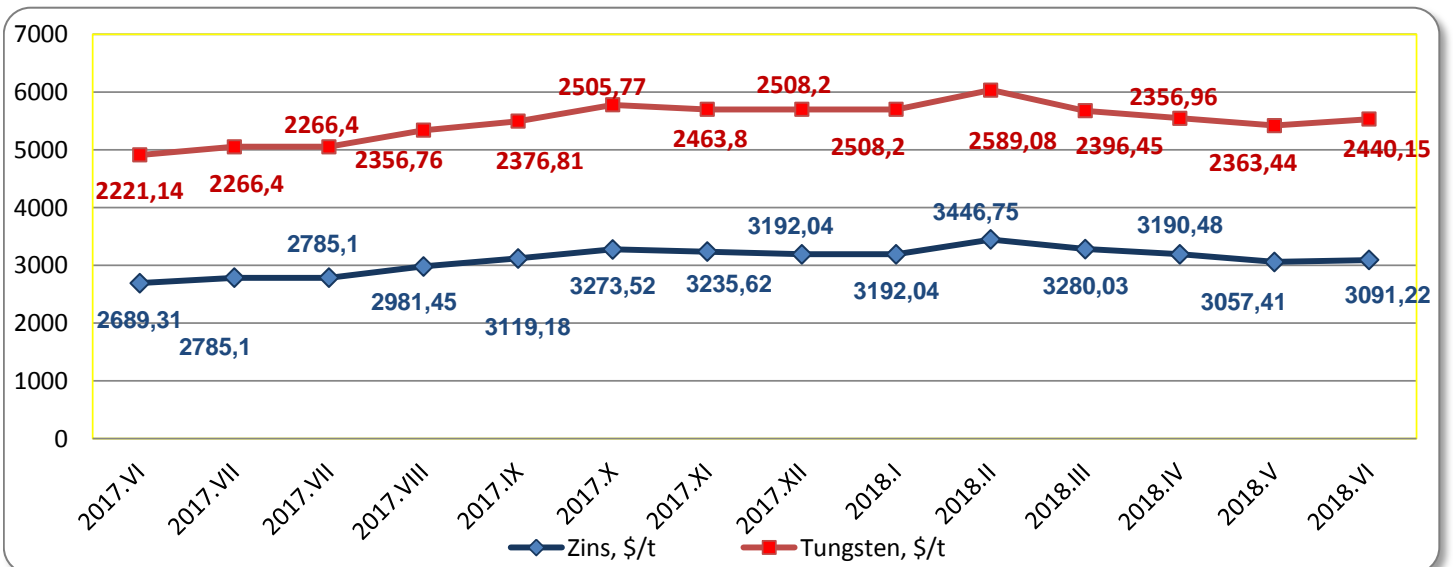
### 2.7. The average price of metals in the world market, last 12 months



### 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](http://www.Indmin.com), [www.umetal.com](http://www.umetal.com) [www.sxcoal.com](http://www.sxcoal.com)



## 2.10. Rehabilitation work by mining license holders, 2008-May 09, 2018

Parametres		Previous years	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
1	Area covered by mining /hectare/	17077	709	631	1709	2042	1430	1038	1561	871	2511	1745	31325
2	Rehabilitated area /hectare/	11527	932	711	1533	1443	1402	807	960	750	1000	376,8	21442
3	Expenses for rehabilitation	24805	7683	8300	9657	7013	14808	7382	9212	4019	2313	1602,4	96794
4	Area covered by technical rehabilitation /hectare/	5381	823	580	1290	480	1177	532	523	589	654	420,3	12749
5	Area covered by biological rehabilitation /hectare/	4024	670	300	520	521	378	370	322	320	718	360,1	8502
6	Environmental expenses /mln.MNT/	12019	3592	4158	5708	3323	8597	3876	11683	8597	5455	0	61907
7	Abusive protection rehabilitation /hectare/	-	-	-	-	-	-	-	-	-	257,0	24,1	281,0
8	Abusive protection rehabilitation /mln.MNT/	-	-	-	-	-	-	-	-	-	739,1	26	765
9	Remodeling the mine and rehabilitation of the village /hectare/	-	-	-	-	-	-	-	-	-	29,0	24,1	53,0
10	Remodeling the mine and rehabilitation of the village /mln.MNT/	-	-	-	-	-	-	-	-	-	175,0	65,4	240,0

In 2017, the newly damaged land was 1745 ha, technical rehabilitation was 420.3 hectares and biological rehabilitation was 360.1 ha.

As of today, 31325 hectare area is covered by mining due to mining activities in Mongolia. The area of technical rehabilitation was 12749 hectares, the area of biological rehabilitation was 8502 hectares, expenditure spent on rehabilitation was 96,794.0 million tugrugs and expenditure on environmental protection was 61.907 million tugrugs.

Explanation: Based on the report of the Minerals Law of 2017.

According to Article 48.6 of the Minerals Law, a report on exploitation of mineral resources in 2017 was submitted on 9 May and is based on data that was affected by the 2017 Certified Rehabilitation Report.



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

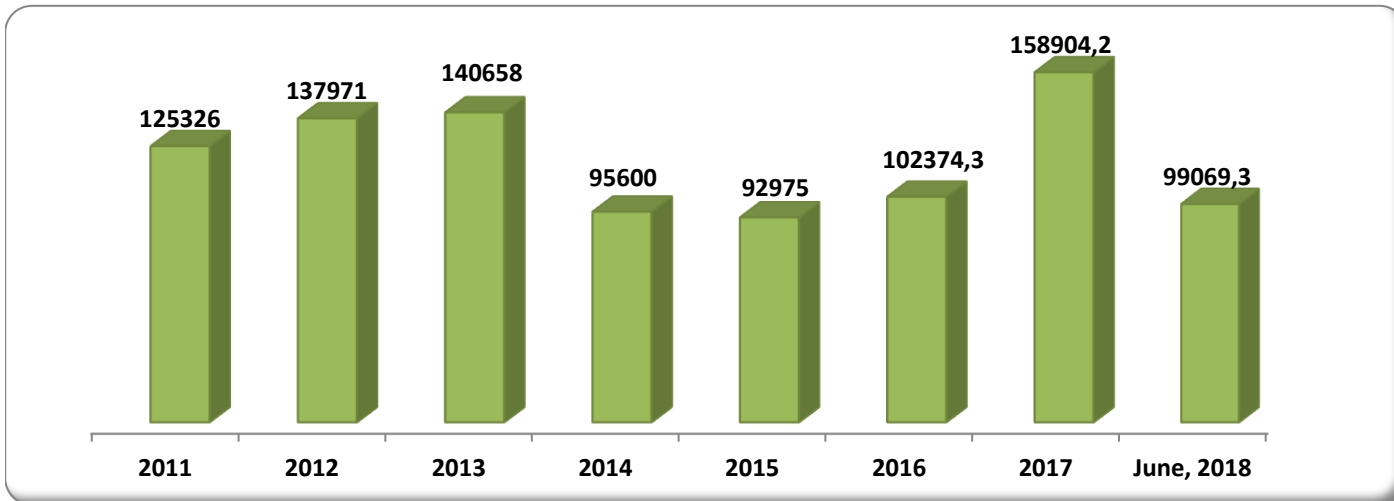
№	Company name	Exchange	Marking	Money unit	The average price of the shares						Market value, May 07, 2018
					2017	Jan, 2018	Feb, 2018	Mar, 2018	1st quarter, 2018	Apr, 2018	
1	Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	<b>3,076</b>	<b>3,365</b>	<b>2,862</b>	<b>3,219</b>	<b>3,158</b>	<b>3,024</b>	<b>5.70B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

Source: [www.nyse.com](http://www.nyse.com), [www.londonstockexchange.com](http://www.londonstockexchange.com), [www.hkex.com.hk](http://www.hkex.com.hk), [www.tmx.com](http://www.tmx.com), [www.tsx.com](http://www.tsx.com), [www.asx.com.au](http://www.asx.com.au), [www.set.or.th](http://www.set.or.th)

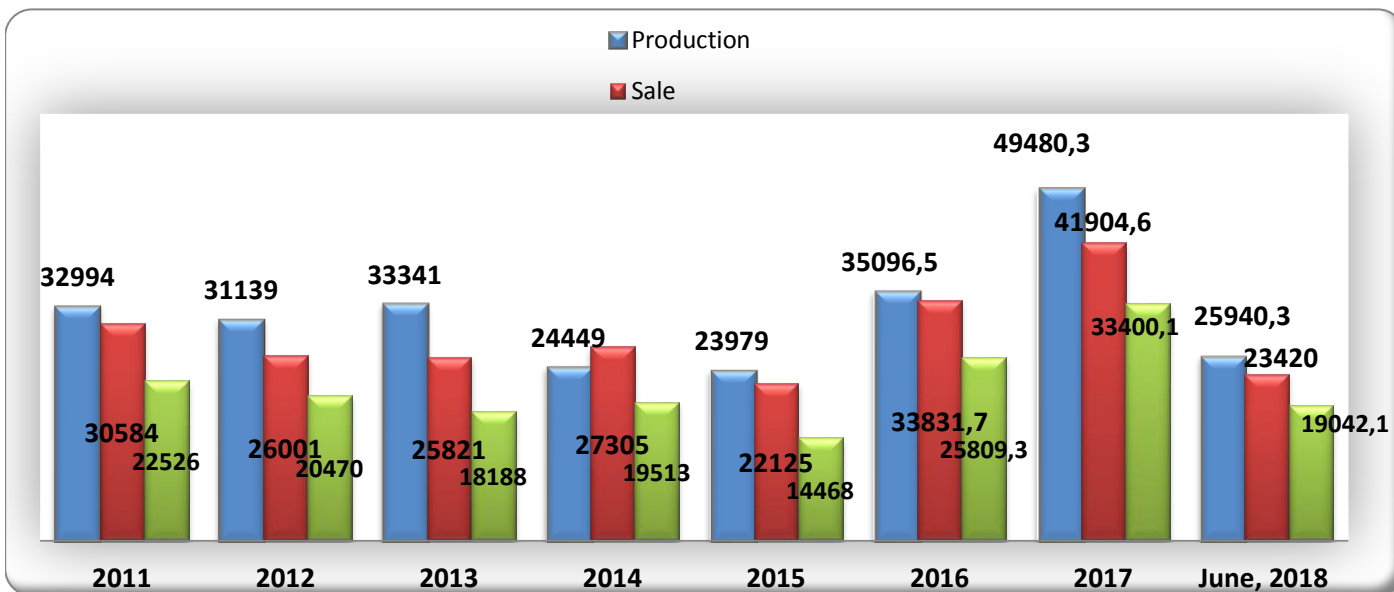


### 3. COAL STATISTICS

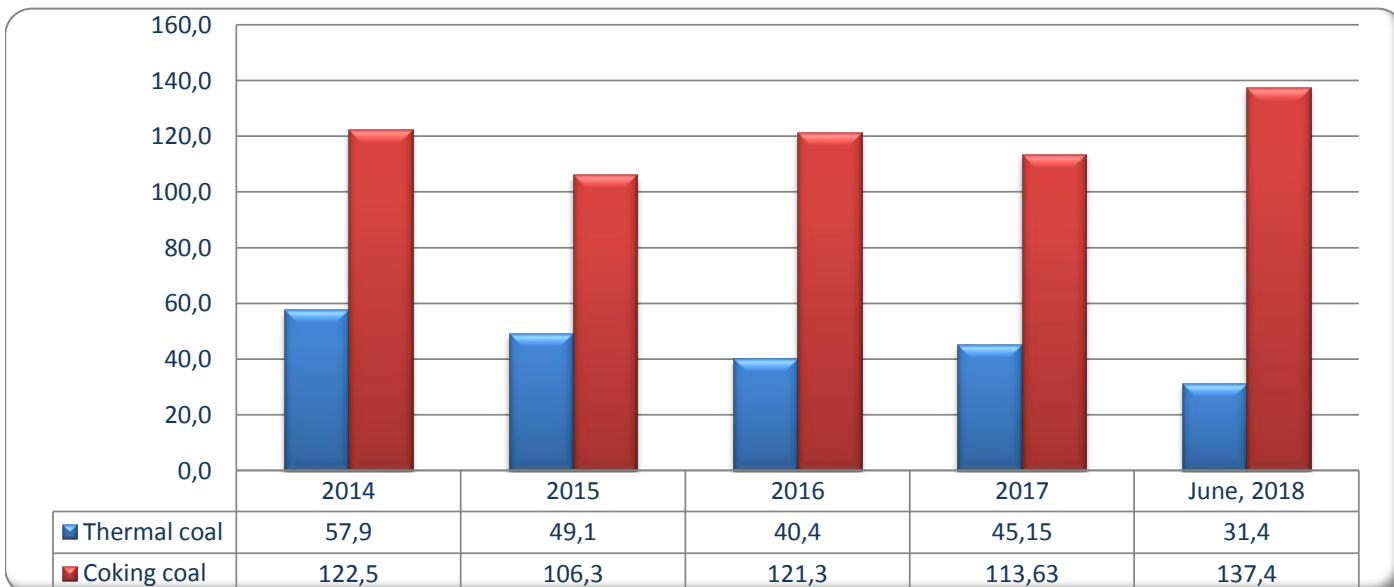
#### 3.1. Striping, ths.m3



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



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



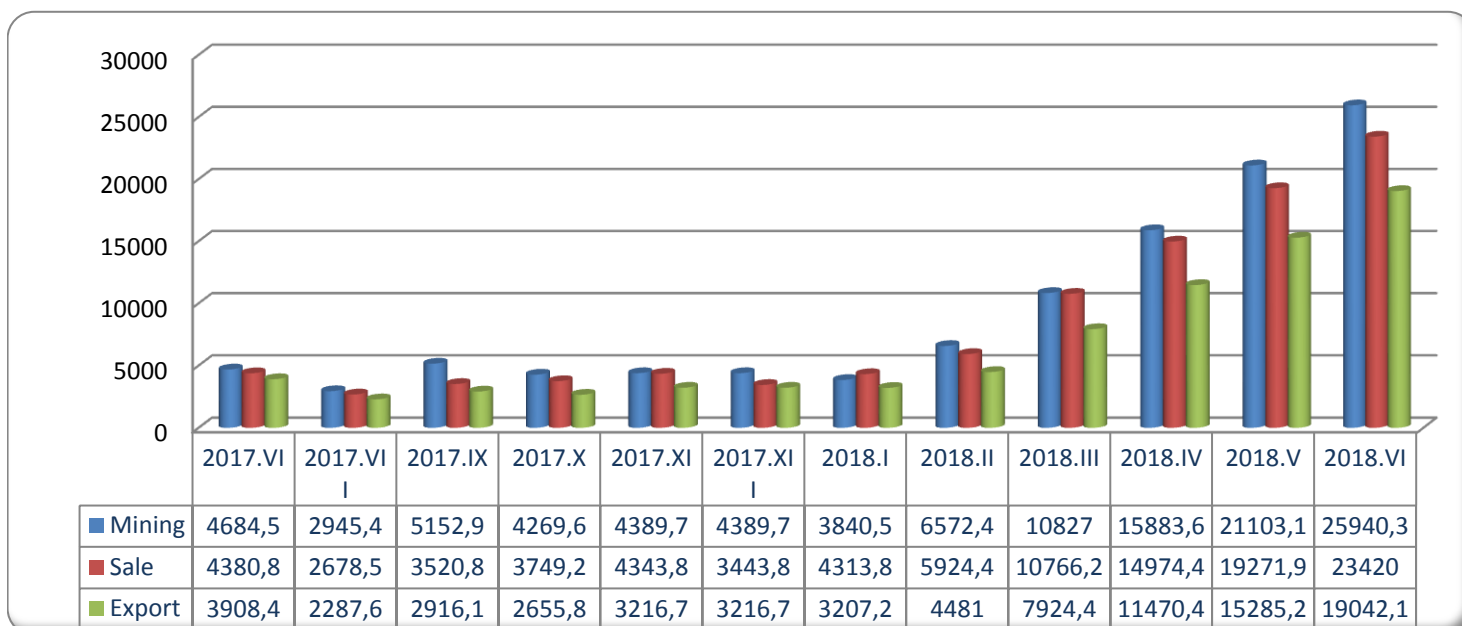
Source: Data from Coal mining companies to MRPAM  
 infomine.com, <http://sxcoal.com/site/index?lang=en>



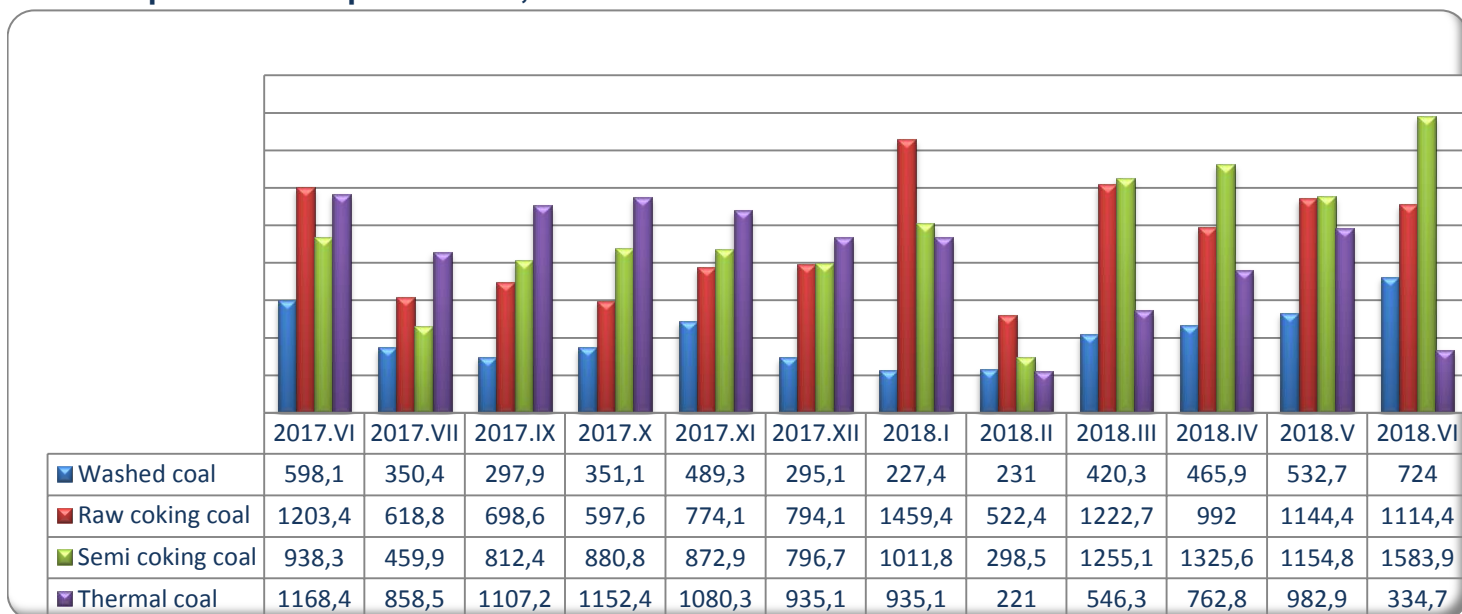
### 3.4. Stripping, mining, sale and export of Coal mines, Jan-June, 2018

Type	Stripping /ths.m3/	Mining /ths.t/	Selling /ths.t/	Export /ths.t/
<b>Total</b>	<b>82 248,2</b>	<b>21 103,1</b>	<b>19 271,9</b>	<b>15 285,2</b>
Energy coal mines	12629,5	3 339,7	3 273,3	-
Export coal mines	68 032,0	17 507,2	12629,5	12629,5
Local coal mines	586,7	256,3	3 369,1	-

### 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

by July 05, 2018

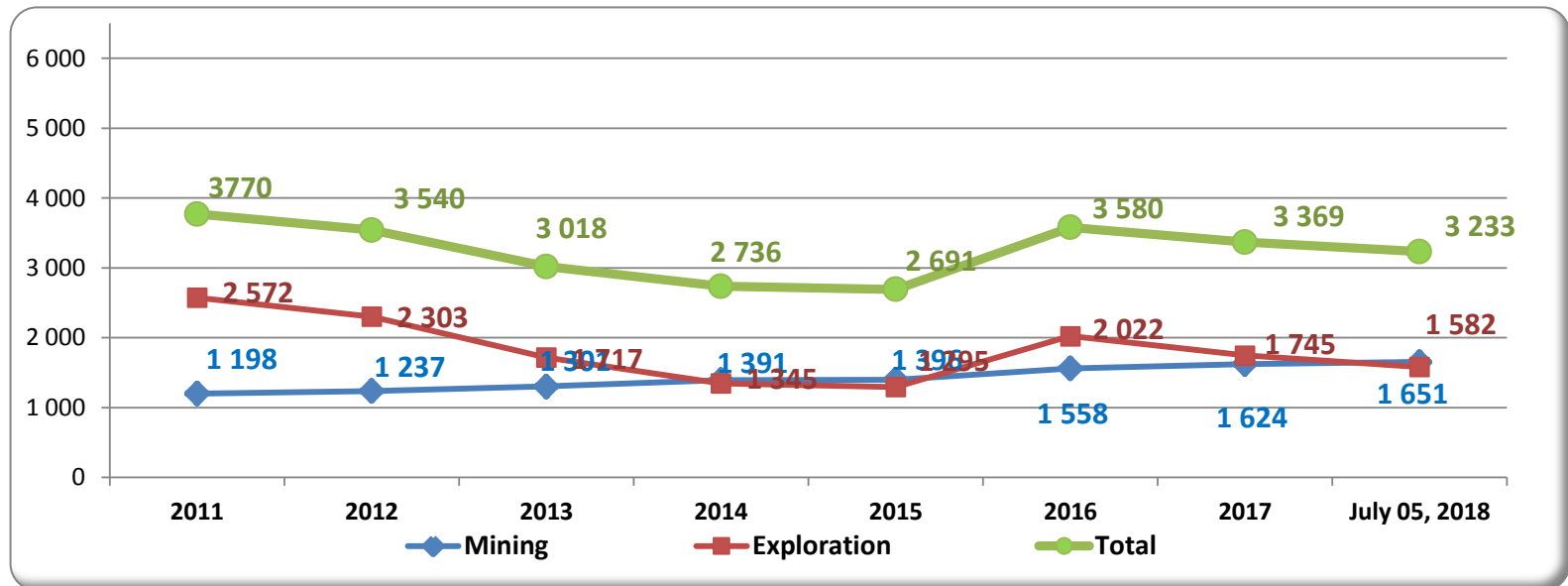
№	Aimags and capital city	Total			Thereof:					
					Mining			Exploration		
		Number of Licenses	Area /ths.ha/	Percentage of total territory	Number of Licenses	Area /ths.ha/	Percentage of total territory	Number of Licenses	Area /ths.ha/	Percentage of total territory
1	Arkhangai	35	30,3	0,5	26	12,6	0,23	9	17,7	0,32
2	Bayan-Ulgii	71	228,8	5,0	27	12,9	0,28	44	215,9	4,72
3	Bayankhongor	171	469,6	4,1	87	67,0	0,58	84	402,7	3,49
4	Bulgan	118	183,4	3,8	69	34,9	0,72	49	148,5	3,05
5	Uvurkhangai	53	117,0	1,9	30	15,7	0,25	23	101,2	1,61
6	Govi-Altai	180	914,9	6,5	49	70,1	0,49	131	844,8	5,96
7	Govisumber	17	58,7	10,6	12	38,7	6,99	5	20,0	3,60
8	Darkhan Uul	81	16,2	5,0	68	9,6	2,94	13	6,6	2,03
9	Dornogovi	403	1664,0	15,2	175	209,8	1,92	228	1454,1	13,30
10	Dornod	177	564,6	4,6	70	56,6	0,46	107	508,0	4,11
11	Dundgovi	218	860,4	11,5	96	156,6	2,10	122	703,8	9,43
12	Zavhan	83	510,2	6,2	8	13,8	0,17	75	496,4	6,01
13	Umnugovi	213	1434,4	8,7	97	512,7	3,10	116	921,7	5,58
14	Orkhon	9	11,0	13,1	9	11,0	13,12	0	0,0	0,00
15	Sukhbaatar	104	447,7	5,4	62	50,5	0,61	42	397,2	4,82
16	Selenge	194	115,3	2,8	142	36,6	0,88	52	78,7	1,90
17	Tuv	454	476,3	6,4	308	145,8	1,97	146	330,5	4,47
18	Uvs	164	608,7	8,7	46	17,9	0,26	118	590,9	8,49
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	125	389,2	5,1	32	12,3	0,16	93	376,9	4,96
22	Khentii	256	512,1	6,3	110	46,4	0,57	146	465,7	5,77
<b>Total</b>		<b>3233</b>	<b>9717,1</b>	<b>6,2</b>	<b>1651</b>	<b>1552,5</b>	<b>0,99</b>	<b>1582</b>	<b>8164,65</b>	<b>5,20</b>

The total area of Mongolia is 1.56 million hectares

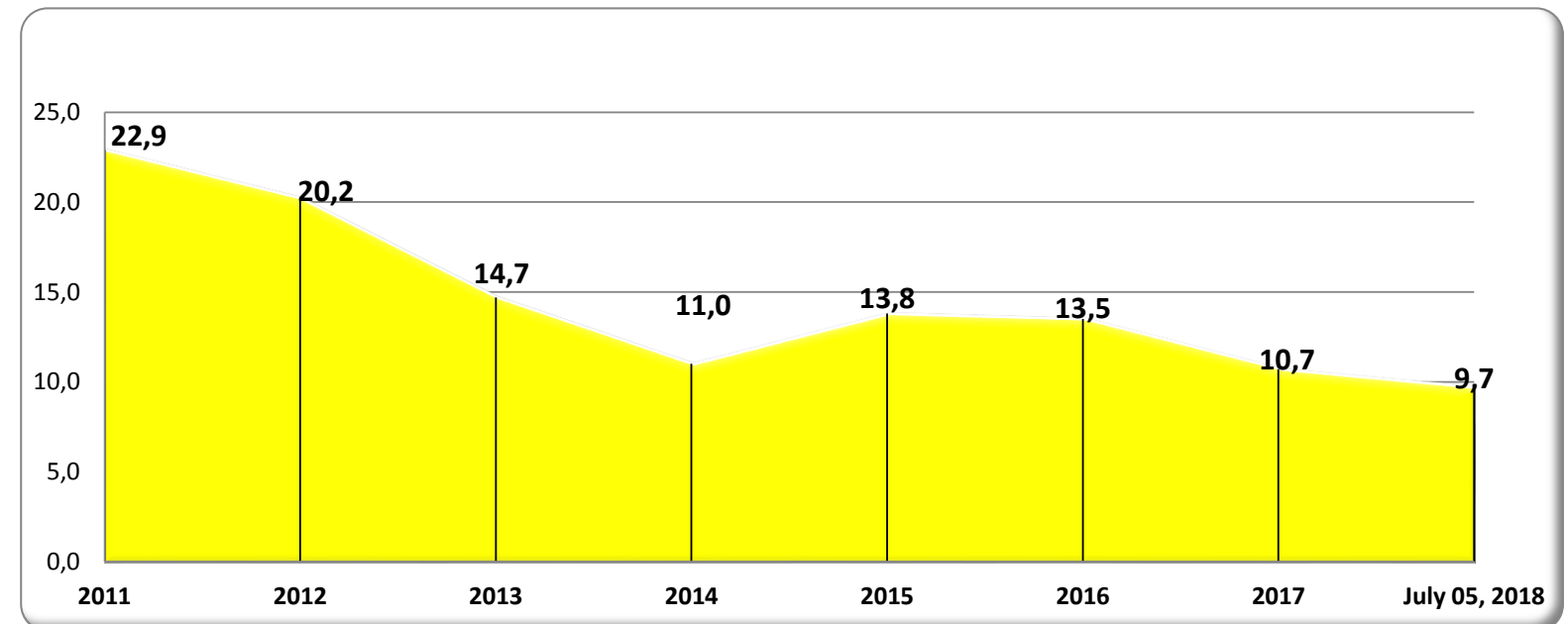
Explanation: Some licenses are crossing the boundaries of more than one aimag, thus increasing the number of each aimag.



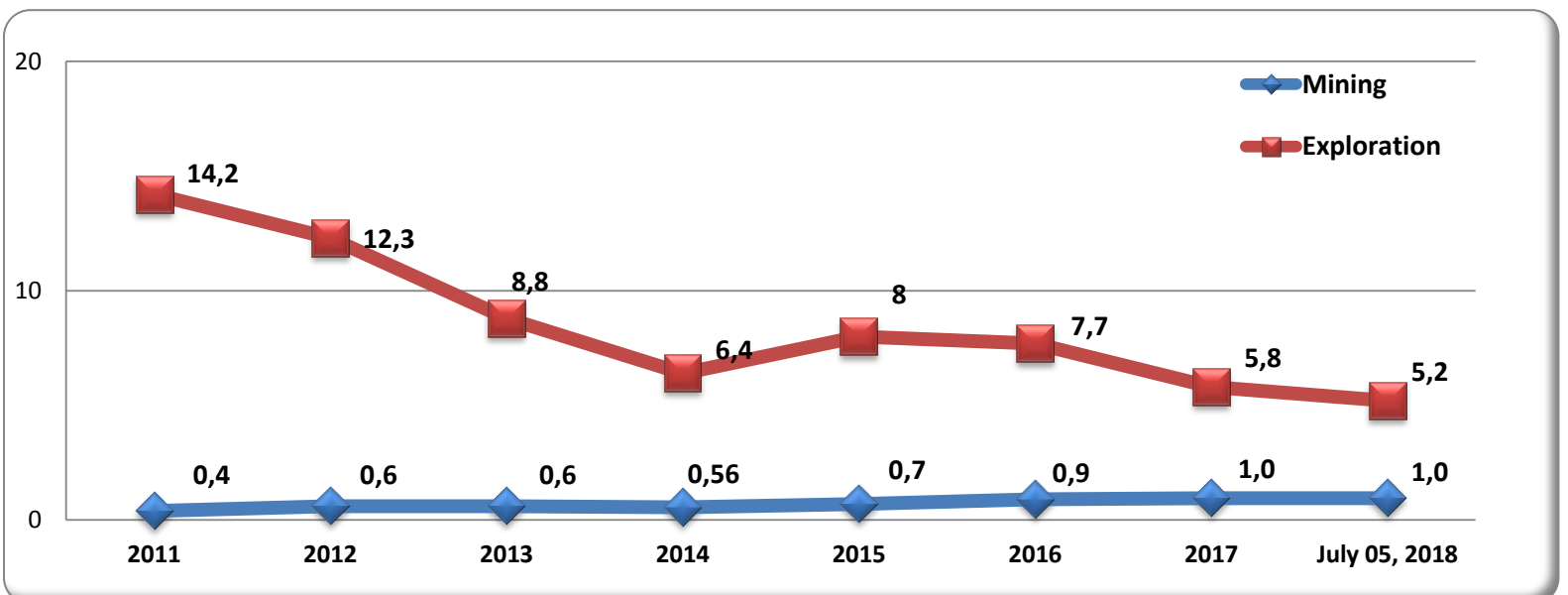
#### 4.2. Number of valid licenses, 2011-July 05, 2018



#### 4.3. Valid licensed area, million hectare, 2011-July 05, 2018



#### 4.4. Percentage of total area, 2011-July 05, 2018



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



#### 4.5. Area registered in Geology and mining cadastre

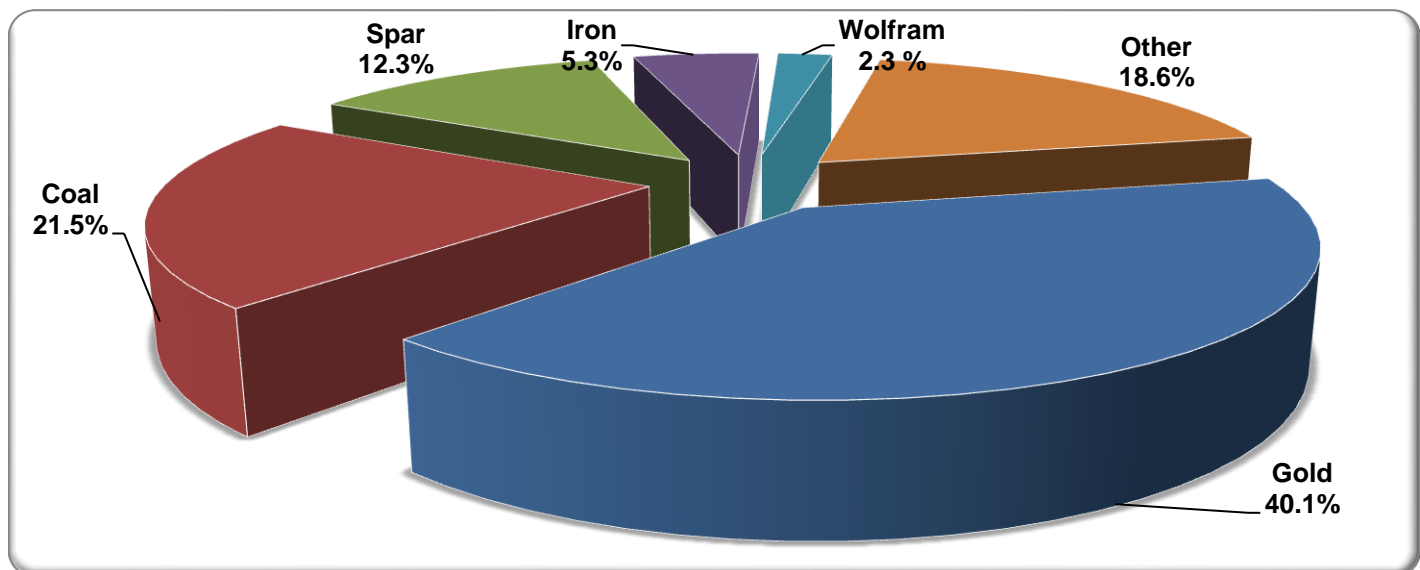
/Overlap/

by July 05, 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	8,2	5,2%
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%

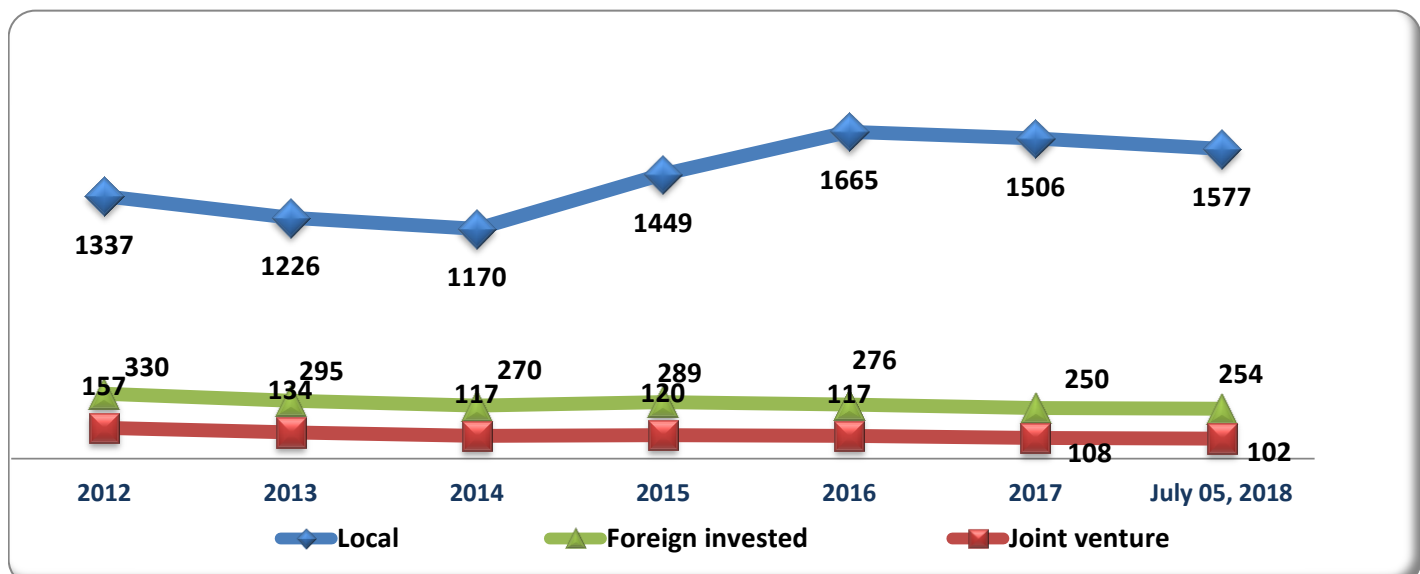
#### 4.6. Mining licenses by Minerals

by July 05, 2018



#### 4.7. Number of valid licensees

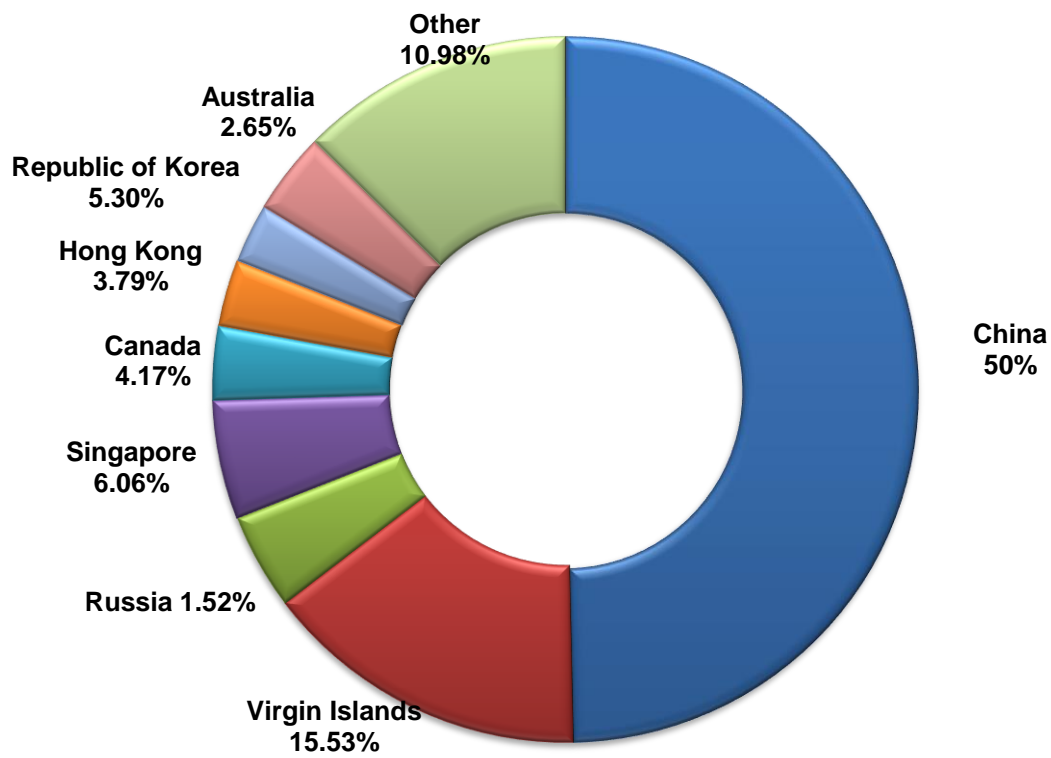
by July 05, 2018



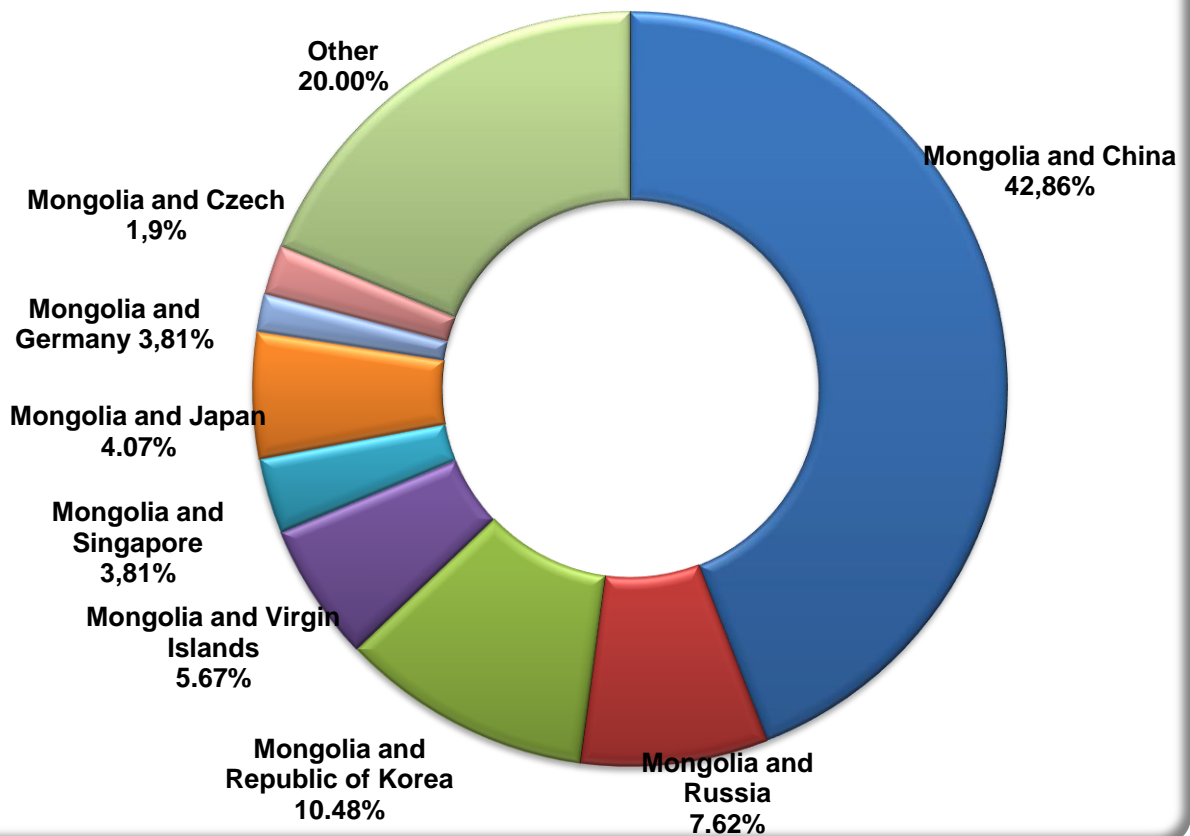
Source: Computerized mining cadastre system, MRPAM



#### 4.8. Composition of foreign invested license holders by countries, by July 05, 2018



#### 4.9. Composition of the joint venture license holders by countries



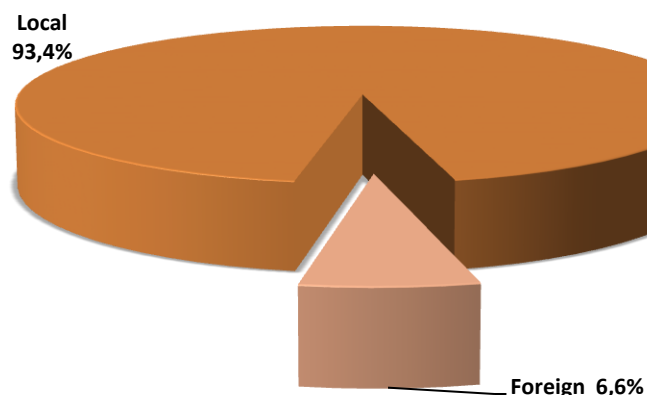
Source: Computerized mining cadastre system, MRPAM



#### 4.10. Origin of license holders

Name of Country	Holder		License		Area /hectare/	
	Тоо	Хувь	Тоо	Хувь	Гектар	Хувь
<b>Total</b>	<b>1933</b>	<b>100,0%</b>	<b>3233</b>	<b>100,00%</b>	<b>9 717 138,6</b>	<b>100,00%</b>
1 <b>Mongolia</b>	1577	0,8158303	2554	0,78997835	7274132,64	74,86%
2 <b>China</b>	176	0,0910502	237	0,07330653	497097,08	5,12%
3 <b>Virgin Islands</b>	43	0,0222452	110	0,03402413	380024	3,91%
4 <b>South Korea</b>	25	0,0129333	39	0,0120631	106651,99	1,10%
5 <b>Сингапур</b>	22	0,0113813	75	0,02319827	470599,58	4,84%
6 <b>Hong Kong</b>	13	0,0067253	28	0,00866069	188731,76	1,94%
7 <b>Canada</b>	12	0,006208	30	0,00927931	233767,19	2,41%
8 <b>Russia</b>	12	0,006208	14	0,00433034	7775,27	0,08%
9 <b>Australia</b>	7	0,0036213	8	0,00247448	38042,21	0,39%
10 <b>Japan</b>	7	0,0036213	63	0,01948655	213991,17	2,20%
11 <b>Germany</b>	6	0,003104	7	0,00216517	13864	0,14%
12 <b>Holland</b>	5	0,0025867	21	0,00649552	133376,99	1,37%
13 <b>Luxemburg</b>	4	0,0020693	8	0,00247448	20095,77	0,21%
14 <b>Czech Republic</b>	4	0,0020693	7	0,00216517	52526,28	0,54%
15 <b>Great Britain</b>	4	0,0020693	7	0,00216517	19669,24	0,20%
16 <b>USA</b>	3	0,001552	5	0,00154655	3203,59	0,03%
17 <b>Ukraine</b>	2	0,0010347	2	0,00061862	291,84	0,00%
18 <b>Bulgaria</b>	2	0,0010347	4	0,00123724	4784,6	0,05%
19 <b>Bermud</b>	2	0,0010347	3	0,00092793	7314,33	0,08%
20 <b>Poland</b>	1	0,0005173	1	0,00030931	1561,28	0,02%
21 <b>Seychelles</b>	1	0,0005173	1	0,00030931	36390,95	0,37%
22 <b>Hungary</b>	1	0,0005173	1	0,00030931	87,42	0,00%
23 <b>Barbados</b>	1	0,0005173	3	0,00092793	10039,97	0,10%
24 <b>New Zealand</b>	1	0,0005173	2	0,00061862	151,65	0,00%
25 <b>Malaysia</b>	1	0,0005173	2	0,00061862	2416,53	0,02%
26 <b>Kazakhstan</b>	1	0,0005173	1	0,00030931	551,23	0,01%

#### 4.11. License holders by Investors, June, 2018



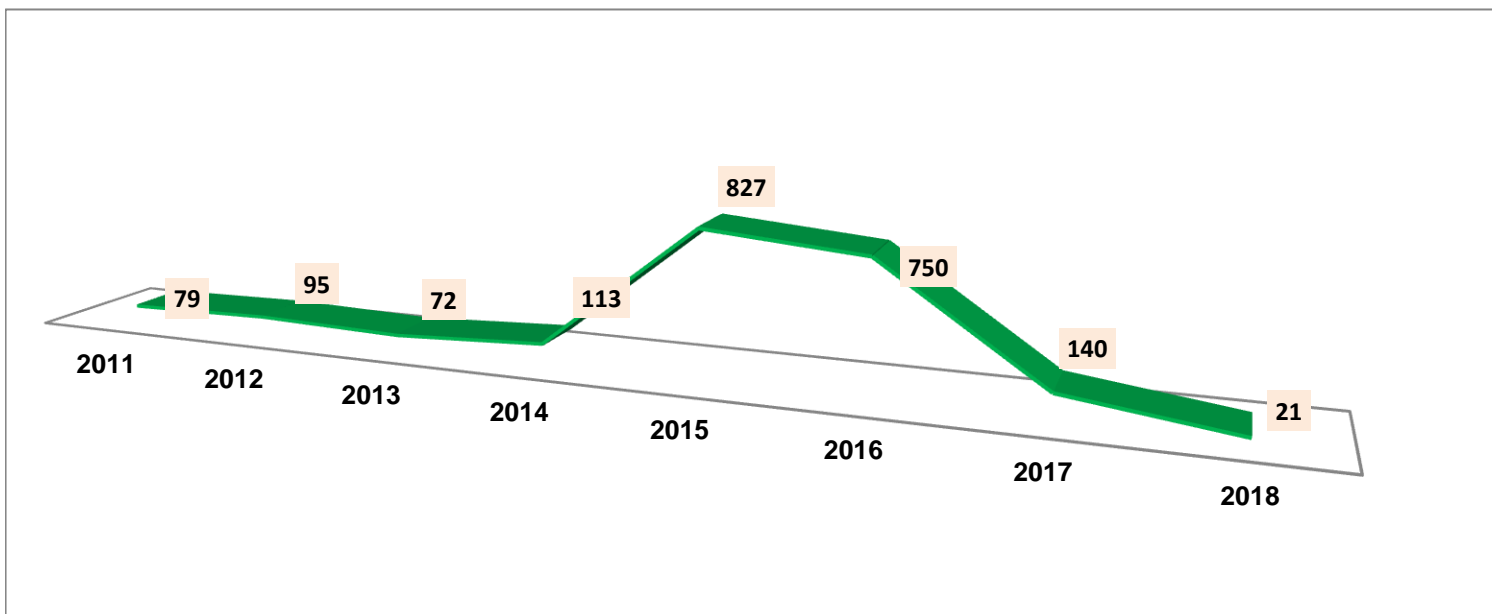
Source: Computerized mining cadastre system, MRPAM



#### 4.12. Changes in license registry, 2011-June, 2018

Type of registration	2011	2012	2013	2014	2015	2016	2017	June, 2018
<b>1. New issued</b>	<b>79</b>	<b>95</b>	<b>72</b>	<b>113</b>	<b>827</b>	<b>750</b>	<b>151</b>	<b>25</b>
<i>Mining</i>	79	95	72	97	91	93	77	20
<i>Exploration</i>	0	0	0	2	697	629	41	5
<i>Selection processed</i>	0	0	0	14	39	28	33	0
<b>2. Reversed</b>	<b>89</b>	<b>141</b>	<b>146</b>	<b>119</b>	<b>150</b>	<b>166</b>	<b>97</b>	<b>51</b>
<i>Mining</i>	4	7	16	13	25	25	13	7
<i>Exploration</i>	85	134	130	106	125	141	84	44
<b>3. Canceled</b>	<b>275</b>	<b>270</b>	<b>347</b>	<b>123</b>	<b>173</b>	<b>241</b>	<b>237</b>	<b>91</b>
<i>Mining</i>	65	139	43	14	10	37	35	10
<i>Exploration</i>	210	131	304	109	163	204	202	81
<b>4. Expired</b>	<b>225</b>	<b>175</b>	<b>253</b>	<b>289</b>	<b>179</b>	<b>124</b>	<b>176</b>	<b>92</b>
<b>5. Transferred</b>	<b>441</b>	<b>200</b>	<b>8</b>	<b>51</b>	<b>88</b>	<b>146</b>	<b>136</b>	<b>112</b>
<i>Mining</i>	58	47	8	38	46	50	62	26
<i>Exploration</i>	383	153	0	13	42	96	74	86
<b>6. Extended</b>	<b>997</b>	<b>601</b>	<b>317</b>	<b>444</b>	<b>336</b>	<b>167</b>	<b>162</b>	<b>254</b>
<b>7. Pledged</b>	<b>62</b>	<b>38</b>	<b>61</b>	<b>40</b>	<b>22</b>	<b>29</b>	<b>39</b>	<b>29</b>
<i>Mining</i>	39	22	42	34	22	27	34	29
<i>Exploration</i>	23	16	19	6	0	2	5	0
<b>8. Terminated pledges</b>	<b>28</b>	<b>42</b>	<b>31</b>	<b>29</b>	<b>24</b>	<b>16</b>	<b>39</b>	<b>15</b>
<i>Mining</i>	8	15	29	24	19	12	38	14
<i>Exploration</i>	20	27	2	5	5	4	1	1
<b>9. Refunded</b>	<b>94</b>	<b>56</b>	<b>15</b>	<b>11</b>	<b>19</b>	<b>35</b>	<b>26</b>	<b>31</b>
<i>Mining</i>	29	16	9	7	10	15	19	10
<i>Exploration</i>	65	40	6	4	9	20	7	21

#### 4.13. Number of issued licenses, June, 2018

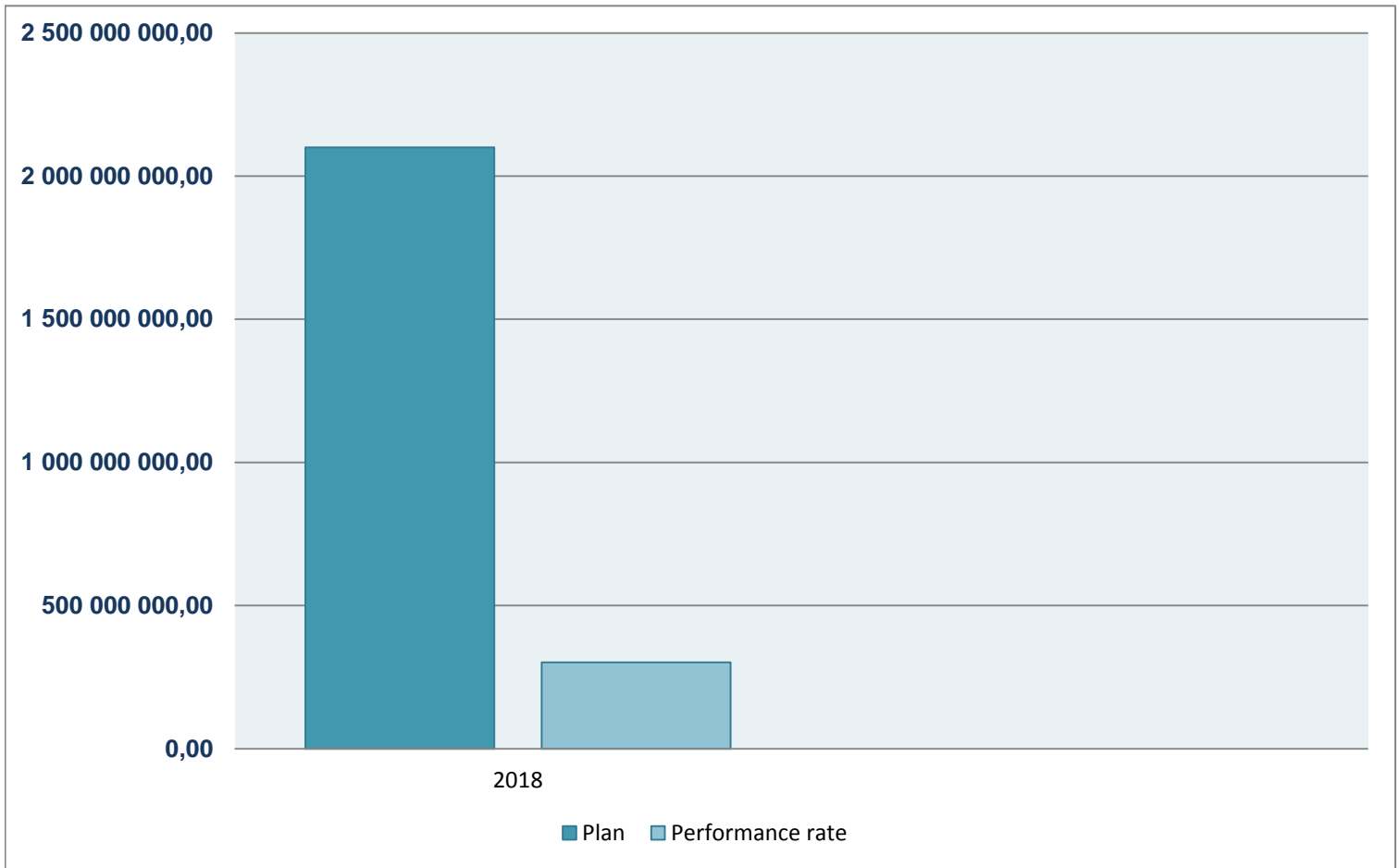


Source: Computerized mining cadastre system, MRPAM



## 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 301 077 703,62,00 was paid back by the June of 2018. /in increasing amount /**



## 6. State investment revenue

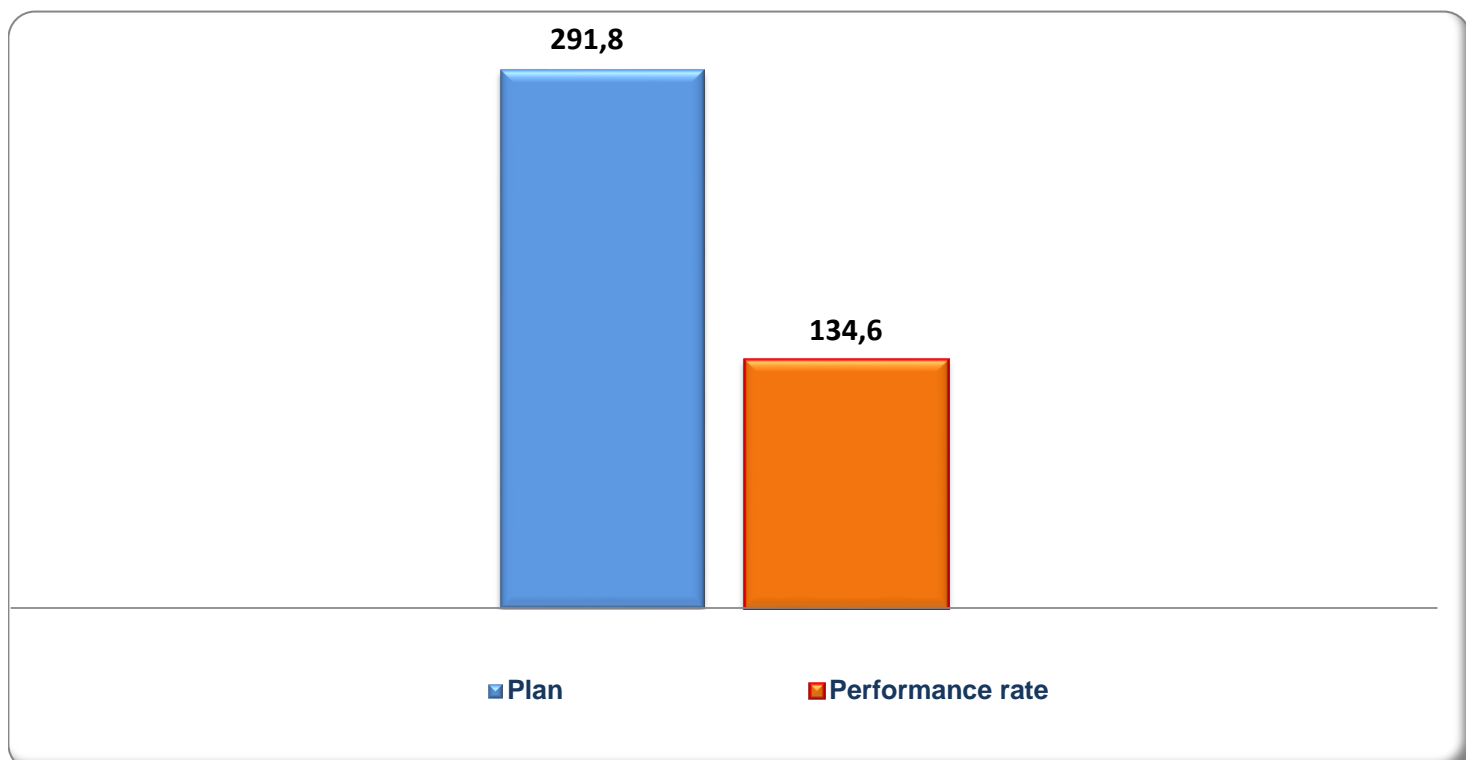
### 6.1. Budget revenue performance, MNT, June, 2018

Income type		Plan of 2018	Performance rate, June, 2018	Performance rate, Jan-June, 2018	Performance rate, 2018, %
№	<b>State budget revenues</b>	<b>291 808 115 046</b>	<b>23 445 772 889</b>	<b>134 586 044 431</b>	<b>46,12%</b>
1	License fee	37 000 000 000	2 802 529 018	16 259 166 520	<b>43,94%</b>
2	Reimbursement	2 100 000 000	20 423 825	321 074 704	<b>15,29%</b>
3	Petroleum revenues	223 448 349 919	20 416 224 510	114 734 247 094	<b>51,35%</b>
4	Other revenues /Service revenues/	6 109 765 127	206 595 536	3 271 556 114	<b>53,55%</b>
5	Own income /Selection of tender/	23 150 000 000	-	-	<b>0%</b>

#### Other revenues

№	Revenue type	Plan of 2018	Performance rate, June, 2018	Performance rate, Jan-June, 2018	Performance rate, June, 2018, %
1	Service revenue /mineral resources/	3 717 273 977	158 455 536	1 276 675 345	<b>34,34%</b>
2	Service revenue /petroleum/	2 392 491 150	48 140 000	1 977 722 323	<b>82,66%</b>
3	Interest Income	0	-	17 158 446	-

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

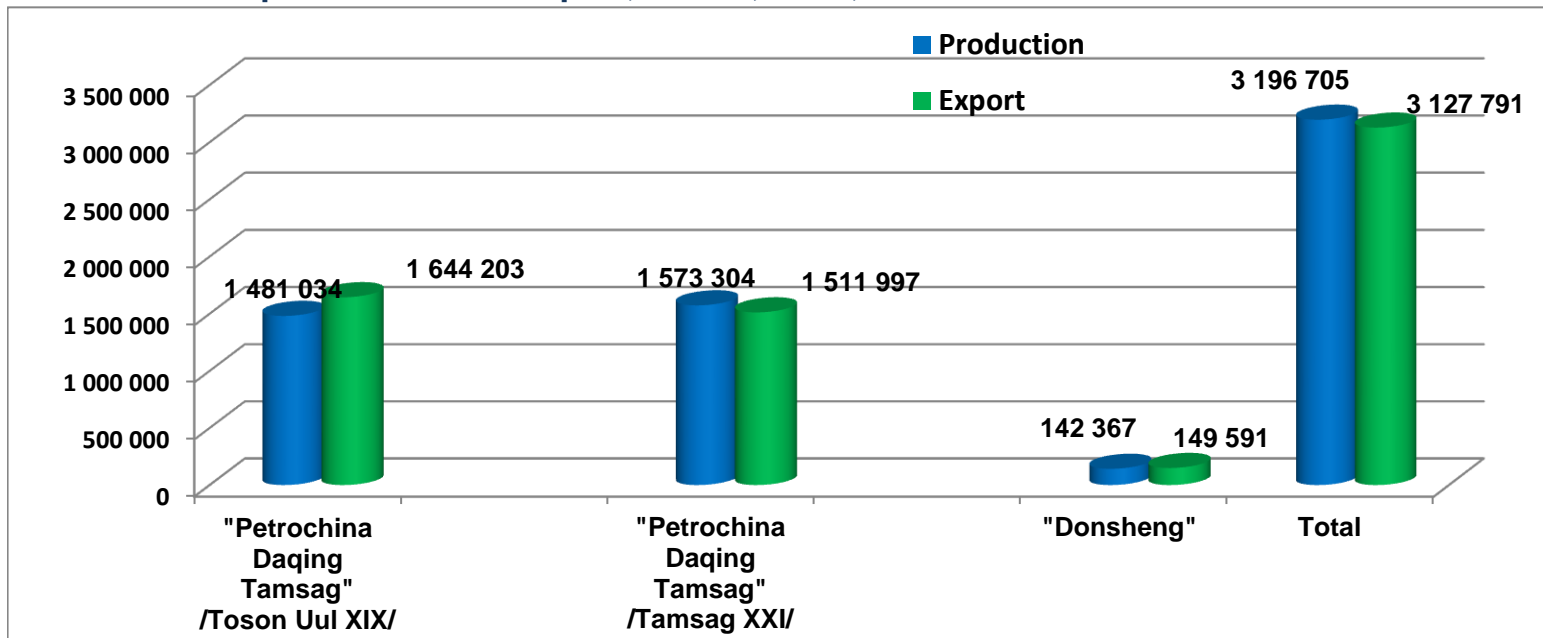


Source: Administration and Management Division, MRPAM



## 7. PETROLEUM STATISTICS

### 7.1. Petroleum production and export, barrel, June, 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	1 481 034	1 573 304	142 367	3 196 705
2	Export	1 644 203	1 511 997	149 591	3 127 791

Source: Petroleum Production Division, MRPAM

### 7.3. Petroleum products importing, tn, June, 2018

No	State name	A-80	AI-92	AI-95	AI-98	DT	TC-1	liquefied gas	Other	Total
1	Russia	6 449,7	36 561,7	871,2	170,4	71 661,3	7 082,0	4 505,5	32 974,6	160 276,5
2	China	-	-	-	-	-	-	255,9	-	255,9
3	Republic of Korea	-	-	-	-	3 536,5	-	63,0	115,7	3 715,2
4	Other countries	-	-	-	-	-	-	-	7 273,9	7 273,9
<b>Total</b>		<b>6 449,7</b>	<b>36 561,7</b>	<b>871,2</b>	<b>170,4</b>	<b>75 197,8</b>	<b>7 082,0</b>	<b>4 824,4</b>	<b>40 364,1</b>	<b>171 521,4</b>

Source : Petroleum Product Division, MRPAM

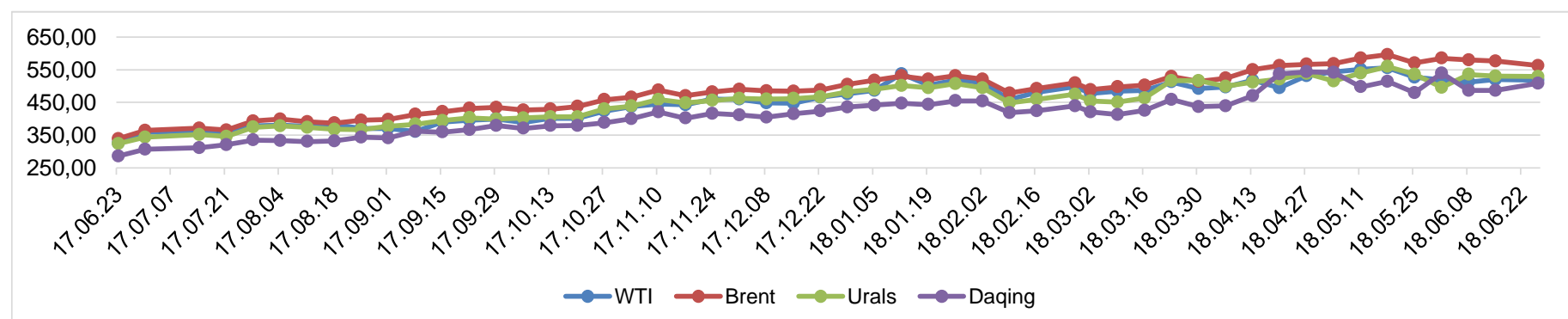
## 7.4. The world average price of petroleum products are selling retail sale, May 2018

### 7.4.1 The world average price of petroleum products are selling retail sale, June, 2018

US\$/tonn

Date	New York		London		Russia		China	
	WTI		BRENT		URALS 32'		DAQING 33'	
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%
2018.03.30	492,68	↓ -3,93%	514,46	↓ -2,76%	516,82	0,00%	436,93	↓ -4,75%
2018.04.06	497,52	↑ 0,98%	524,26	↑ 1,91%	499,21	↓ -3,41%	439,11	↑ 0,50%
2018.04.13	518,12	↑ 4,14%	550,55	↑ 5,01%	512,29	↑ 2,62%	470,37	↑ 7,12%
2018.04.20	494,55	↓ -4,55%	562,71	↑ 2,21%	521,06	↑ 1,71%	537,25	↑ 14,22%
2018.04.27	531,38	↑ 7,45%	567,11	↑ 0,78%	539,11	↑ 3,46%	543,80	↑ 1,22%
2018.05.04	544,03	↑ 2,38%	568,86	↑ 0,31%	515,80	↓ -4,32%	542,34	↓ -0,27%
2018.05.11	551,67	↑ 1,41%	586,41	↑ 3,09%	539,70	↑ 4,63%	497,63	↓ -8,24%
2018.05.18	556,20	↑ 0,82%	596,52	↑ 1,72%	559,94	↑ 3,75%	514,72	↑ 3,43%
2018.05.25	527,01	↓ -5,25%	570,84	↓ -4,31%	536,41	↓ -4,20%	479,97	↓ -6,75%
2018.06.01	518,67	↓ -1,58%	585,43	↑ 2,56%	496,21	↓ -7,49%	487,67	↑ 1,61%
2018.06.08	512,58	↓ -1,17%	580,56	↓ -0,83%	535,75	↑ 7,97%	487,09	↓ -0,12%
2018.06.15	520,38	↑ 1,52%	576,99	↓ -0,62%	530,93	↓ -0,90%	487,09	0,00%
2018.06.26	518,35	↓ -0,39%	563,01	↓ -2,42%	529,10	↓ -0,34%	508,6092	↑ 4,42%

Source: Petroleum Product Division, MRPAM







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

/MNT/

Number	Zone name	Pillar centre	Province, city	Type							
				A-80		AI-92		AI-95		DT	
				June 19	June 26	June 19	June 26	June 19	June 26	June 19	June 26
1	Western region	Khovd, Uliastai	Bayan-Ulgii	1620	1650	1750	1750	-	-	1800	1800
2			Govi-Altai	1750	1750	1860	1860	-	-	2140	2140
3			Zavkhan	1820	1820	1920	1920	-	-	2260	2260
4			Uvs	1760	1760	1940	1940	-	-	2060	2060
5			Hovd	1820	1820	1940	1940	-	-	2200	2200
The average price of western region				1754	1760	1882	1882	-	-	2092	2092
6	Hangai region	Kharkhorin, Eerdenet	Arkhangai	1720	1720	1790	1790	2100	2100	2150	2150
7			Bayankhongor	1680	1680	1810	1810	-	-	2140	2140
8			Bulgan	1630	1630	1770	1770	2070	2070	2040	2040
9			Ovorkhangai	1720	1720	1790	1790	-	-	2100	2100
10			Orkhon	1620	1620	1760	1760	2070	2070	2040	2040
11			Selenge	1580	1580	1730	1730	2040	2040	2020	2020
12			Khuvsgul	1670	1700	1850	1850	2180	2180	2080	2080
The average price of hangai region				1660	1664	1786	1786	2092	2092	2081	2081
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1580	1580	1725	1725	2058	2045	2020	2020
14			Tuv	1520	1520	1740	1740	2040	2040	2020	2020
15			Darkhan	1580	1580	1730	1730	2040	2040	2010	2010
16			Govisumber	1640	1640	1780	1780	2050	2050	2100	2100
17			Dundgovi	1700	1700	1780	1780	2050	2050	2100	2100
18			Dornogovi	1650	1650	1780	1780	2050	2050	2080	2080
19			Umnugovi	1700	1700	1850	1850	2050	2050	2150	2150
20			Zamin Uud	1690	1690	1820	1820	2100	2100	2100	2100
The average price of central region				1633	1633	1776	1776	2055	2053	2073	2073
21	Eastern region	Choibalsan, Undurkhaan	Dornod	1680	1680	1830	1830	2100	2100	2100	2100
22			Sukhbaatar	1700	1750	1850	1850	2100	2100	2160	2160
23			Khentii	1700	1700	1780	1780	2050	2050	2100	2100
The average price of eastern region				1693	1710	1820	1820	2083	2083	2120	2120
<b>State average price</b>				<b>1 685</b>	<b>1691</b>	<b>1 815</b>	<b>1815</b>	<b>2076</b>	<b>2076</b>	<b>2091</b>	<b>2091</b>

### 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	2 040	2 010
2	"Sod Mongol" LLC	1 580	1 730	2 050	2 020
3	"Magnai trade" LLC	1 580	1 730	2 040	2 010
4	"Petrovis" LLC	1 580	1 750	2 050	1980-2100
<b>Average price</b>		<b>1 580</b>	<b>1 735</b>	<b>2 045</b>	<b>2 013</b>

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

## 8. Mining and petroleum examination and testing central laboratory statistics

June, 2018

Type of coal	Name	Classification	Border name	Entities	Deposite name	Quality Indicators							
						TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI	
						Weight, %				kcal/k	Index		
Raw coal	Antracite	Antacite	Khangii	IKH GOBI Energy LLC	Mandakh nuur	5,1	11,0	8,1	0,46	7006	0,0	0,0	
	Coal	Coking	Khangii	COA LLC	Ail Bayan	2,1	6,7	24,0	0,63	7367	8,5	94,5	
			Gashuun sukhait	Endens	Baruun, zuun tsankhi	1,5	13,7	26,9	0,61	6172	7,0	84,6	
				Tavantolgoi	Tavan tolgoi 4rd orifice	1,5	15,1	28,4	0,67	6992	5,5	64,2	
			Weak coking	Gashuun sukhait	Tavantolgoi	Tavan tolgoi 8th orifice	1,2	23,2	33,5	1,37	5912	4,5	50,2
		Shivee khuren		Uush zoos	Khuren shand	2,5	10,0	39,3	1,04	6561	4,5	68,4	
				Tsagaan uvuljuu	Baruun noyon uul	-	-	-	-	-	-	-	-
				SGS LLC	Чинхуа мак	3,5	4,0	32,1	0,65	7319	6,0	74,3	
		Chinkhua Mak LLC		SGS	-	-	-	-	-	-	-	-	
		Mak LLC		Mogoin gol	1,5	13,0	32,8	1,29	7532	9,0	99,7		
		Zamiin Uud			Bor khul	-	-	-	-	-	-	-	
		Non-coking coking	Khangii	COA LLC	Ail Bayan	1,1	38,4	26,4	0,33	5827	0,0	0,0	
			Gashuun sukhait	Tavan tolgoi	ITT Energy	4,5	24,6	29,9	0,56	5593	0,0	0,0	
				Endens	Tavan tolgoi energy	1,2	33,3	33,9	1,04	5451	1,0	15,6	
			Shivee khuren	Usukh zoog	Khuren shand	5,9	11,2	35,6	0,58	6250	0,0	0,0	
				Mak XXK	Nariin sukhait	12,8	6,9	44,7	0,65	5310	0,0	0,0	
	Chinkhua Mak LLC				-	-	-	-	-	-	-		
	Gavkhiant ord			Zangat Uul	-	-	-	-	-	-	-		
	Other	Zamiin Uud	Chingis Khar Alt LLC	Dalan Chkha	1,7	21,0	20,1	1,70	4718	0,0	0,0		
			Shtain coal	Dalan Shtain	4,7	22,2	45,5	1,23	5062	0,0	0,0		
			CIG LLC	Dalan FShR	26,8	9,3	43,1	1,88	3637	0,0	0,0		
			Friendship resource LLC	Bayantsogt	-	-	-	-	-	-	-		
	Brown coal	Bichigt	Erdeniin bosgo LLC	Khuut	-	-	-	-	-	-	-		
Circon geology LLC			Ukhaa khudag	0,8	22,6	18,7	0,55	6032	6,0	70,3			
Washed coal	Coal	Coking	Gashuun sukhait	Energy resource	Khushuut	-	-	-	-	-	-		
			Yarant	Mo and Co LLC	Ukhaa khudag	8,4	8,6	25,8	0,57	7406	8,0	86,4	
		Weak coking	Gashuun sukhait	Tumen zaag LLC	SGS	-	-	-	-	-	-		
			Noncoking	Gashuun sukhait	Energy resource LLC	-	-	-	-	-	-		
Cox	27,04-0010	Gashuun sukhait		Coke	0,1	14,0	1,2	0,60	6203	0,0	0,0		

Source: Mining and Petroleum Central Laboratory





**Mineral Resources and Petroleum Authority of Mongolia**