



**MINISTRY OF MINING  
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND  
PETROLEUM AUTHORITY OF  
MONGOLIA**

# **Mineral Resources and Petroleum Statistics**



**May, 2018**

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



## STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM

МОНГОЛ УЛСАД ГАЗРЫН ТОСНЫ САЛБАР ҮҮСЭЖ ХӨГЖСНИЙ 77 ЖИЛ  
МОНГОЛ УЛС ГАЗРЫН ТОС ЭКСПОРТОЛЖ ЭХЭЛСНИЙ 20 ЖИЛИЙН ОЙ.



Улаанбаатар хот 2018.05.18

**Mineral Resources and Petroleum Authority of Mongolia celebrated 77 years of growing petroleum sector in Mongolia and the 20th Anniversary of Mongolia's commencement of oil exportation, on May 18, 2018.**

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

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## Main indicators

<b>1. Number of valid licenses (by the June 05, 2018)</b>	<b>3261</b>
Mining licenses	1641
Exploration licenses	1620
<b>2. Valid licensed area (by the June 05, 2018)</b>	<b>9,8 mln.ha</b>
Mining licensed area	1,5 mln.ha
Exploration licensed area	8,3 mln.ha
<b>3. Licensed area of Mongolian territory (by the June 05, 2018)</b>	<b>6,3%</b>
Mining licensed area	1,0%
Exploration licensed area	5,3%
<b>4. The role of Mining sector in Gross Domestic Product (2018)</b>	
<b>5. Mining industry in Gross Industrial Output (May, 2018)</b>	21,86%*
<b>6. Mining industry in Gross Industrial Output (May, 2018)</b>	71,76%*
Copper metal concentrate	478,8 ths.t*
Molybdenum metal concentrate	2225,8 t*
Gold	4759,3 kg
Fluorspar concentrate	22,6 ths.t*
Iron ore	1542,0 ths.t*
Zincum concentrate	36,2 ths.t*
<b>7. Main minerals export (Jan-May, 2018)</b>	
Fluorspar ore and concentrate	2768,4 ths.t**
Copper concentrate	601,0 ths.t**
Zinc	52,3 ths.t**
Gold	3431,9 kg**
Coal	15285,2 ths.t**
<b>8. Produced coal (May, 2018)</b>	<b>21103,1 ths.t</b>
<b>9. Sold coal (May, 2018)</b>	<b>19271,9 ths.t</b>
<b>10. Implementation of approved budget revenue plan (May, 2018)</b>	<b>38,1%</b>
License fee	36,4%
Petroleum export	42,2%
Reimbursement	14,3%

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



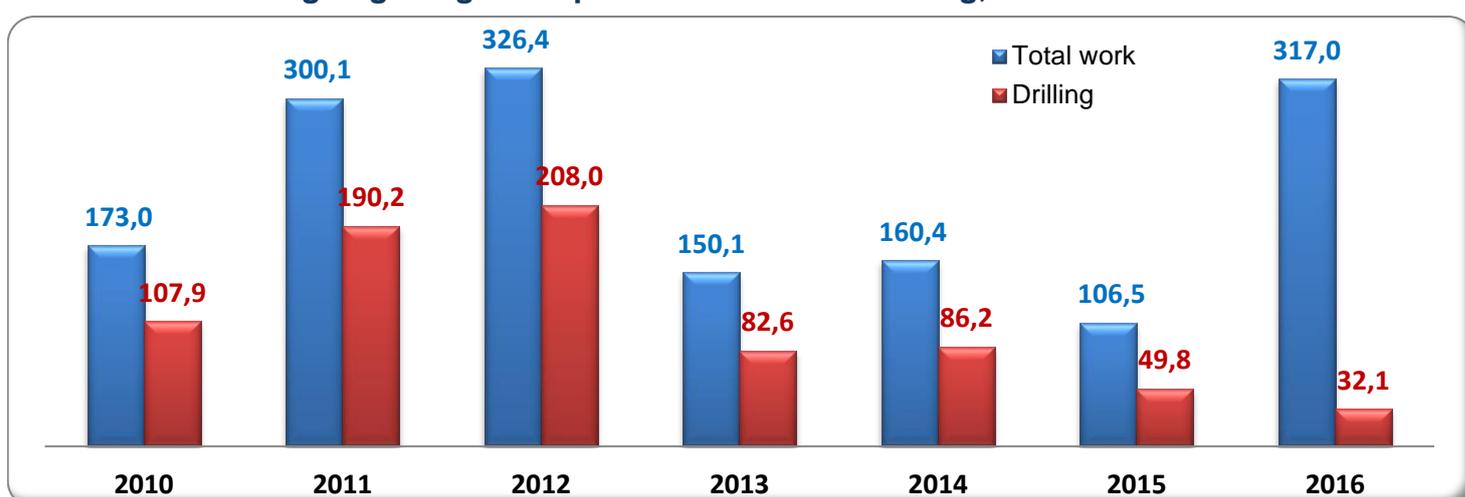
## 1.2. Geological and exploration survey conducted at expenses of the exploration license holders, mln.MNT, 2010-2016

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 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 work	4609,4	10475,1	18540,5	11 233,7	21 563,1	11 055,0	46 447,6	14,6
Environment reclamation	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	887,9	12430**
2	Gold (placer)	kg	6581,0	5955,2	3374,7	3015,0	2359,5	2116,1
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	-	-	-	-	35270,9	10,0
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	258,1	118,5
11	Uranium	t	4,9	-	-	-	-	-
12	Coal	mln.t	1295,43		3579,7		1302,2	
13	Pear shaft	mln.t						
14	Limestone	mln.t	155,4		185,8		36,3	

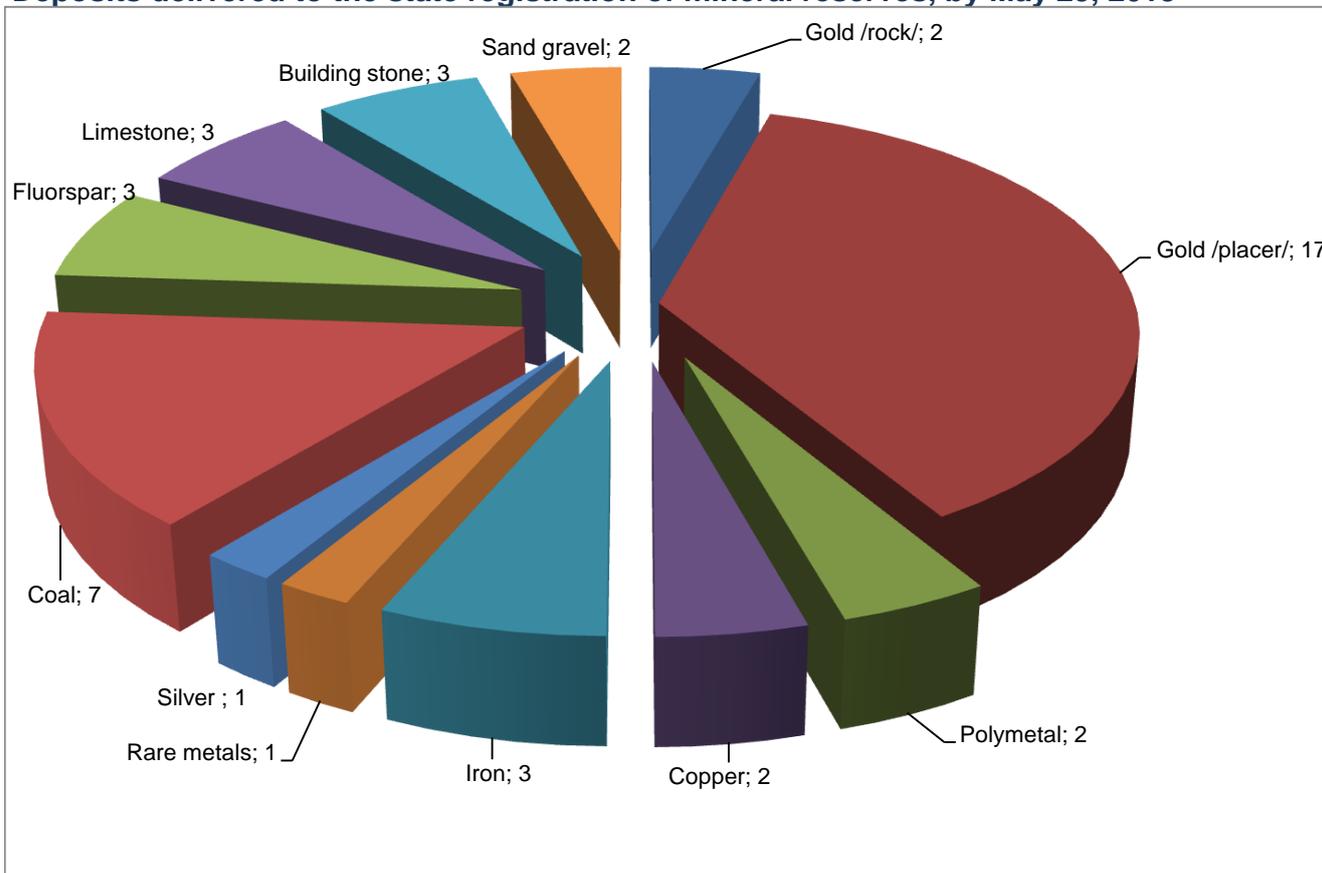
Source: Data from Geology and Exploration Division, MRPAM



### 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, by May 25, 2018



Source: Data from Geology and Exploration Division, MRPAM

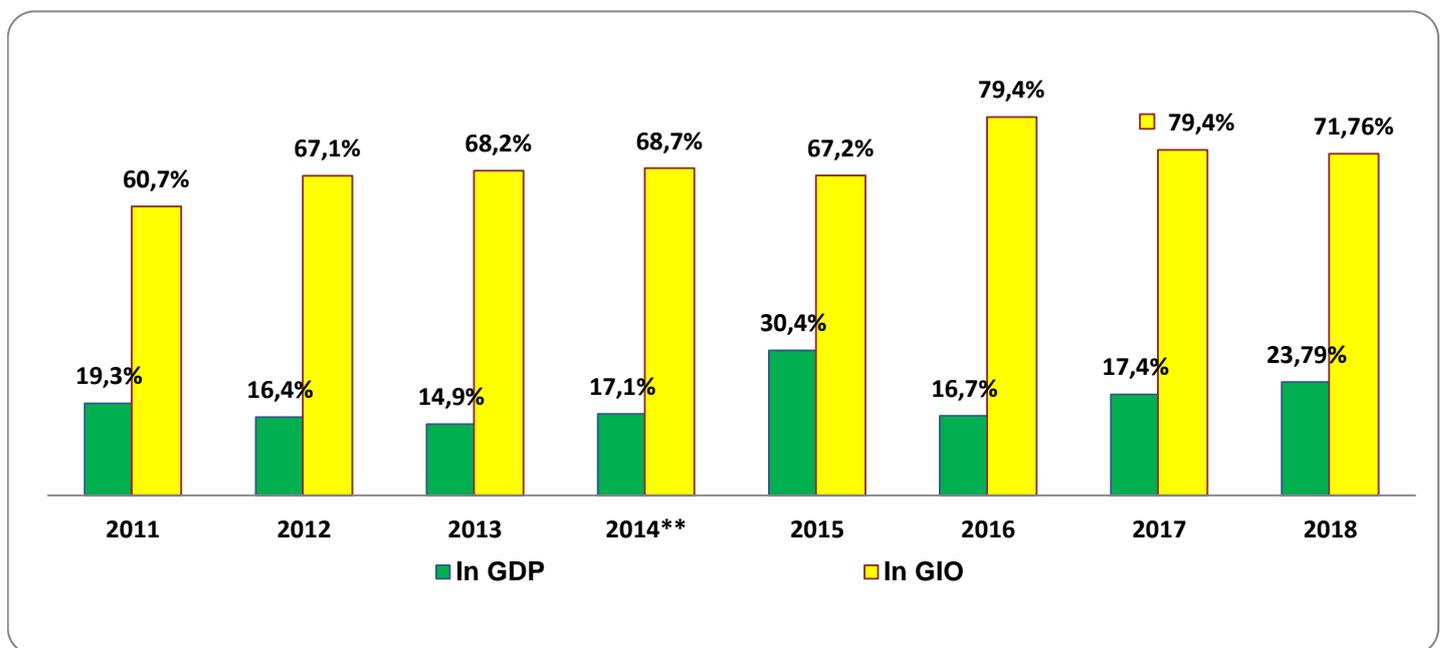


## 2. MINING STATISTICS

### 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	6792,2
Mining and quarrying	3 752,3	3 839,7	5 217,4	6 388,9	5 858,0	7 884,7	9 386,0	4873,9

### 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	478,8
Molybdenum concentrate with metal grade, ton	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	4 673,7	2225,8
Gold, kg	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	17 397,5	4759,3
Fluorspar concentrate, Iron ore, concentrate, thous.t	116,4	157,2	76,4	374,9	230,8	34,1	17,1	22,6
Zinc concentrate, thou	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	3 069,1	1542
Tungsten concentrate, ton	104,7	119,1	104,1	93,2	89,6	100,2	69,0	36,2
	12,6	66,0	-	-	-	-	-	-

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

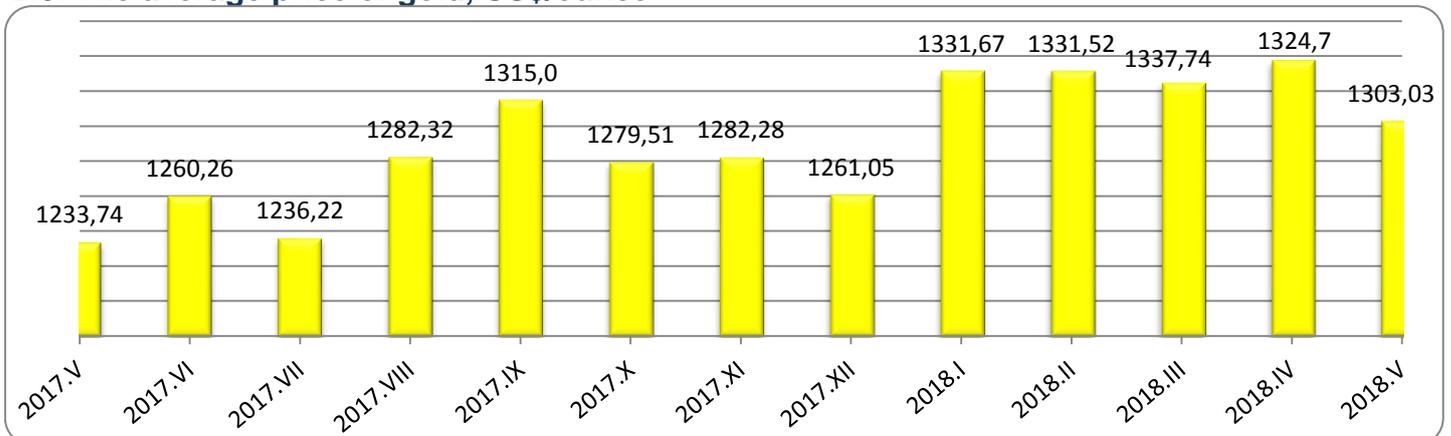


## 2.4. The average of commodity prices in the world market. US\$, 2014-2018

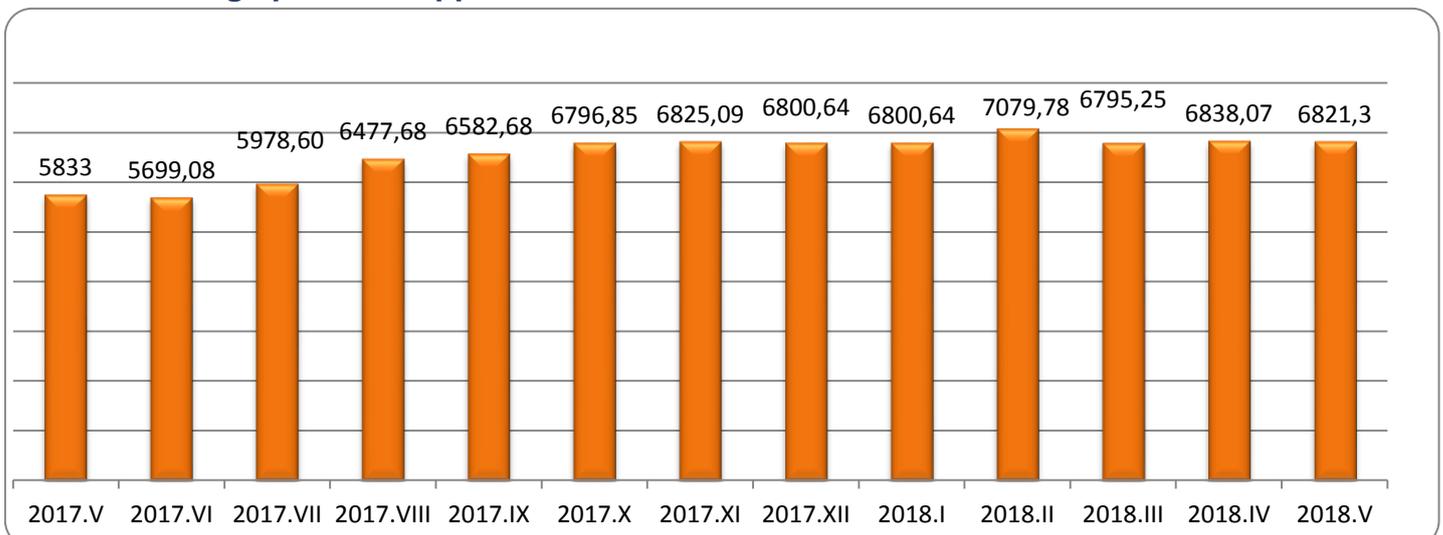
Number	Mineral commodities	Unit of measurement	2014	2015	2016	2017	May, 2018
1	Gold, ounce	\$/унци	1271,19	1160,09	1151,40	1257,11	1303,03
2	Silver, ounce	\$/унци	19,07	15,71	16,38	17,14	16,47
3	Copper, tons	\$/тн	6859,50	5501,03	5665,83	6162,36	6821,3
4	Zinc, tons	\$/тн	2161,05	1928,76	2671,34	2893,57	3057,41
5	Blue lead, tons	\$/тн	2095,44	1786,15	2230,30	2317,05	2363,44
6	Tin, tons	\$/тн	21909,93	16079,32	21274,13	20090,07	20887,5
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	46,64
10	Fluorite concentrate AG-97	\$/тн	305,66	283,29	260,00	345,38	480
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	32,1
13	Coking coal	\$/тн	150,00	106,20	121,30	113,63	141,9

Source: [www.kitco.com](http://www.kitco.com), [www.westmetall.com](http://www.westmetall.com), [www.lme.com](http://www.lme.com), [www.asianmetal.com](http://www.asianmetal.com), [www.lndmin.com](http://www.lndmin.com)

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

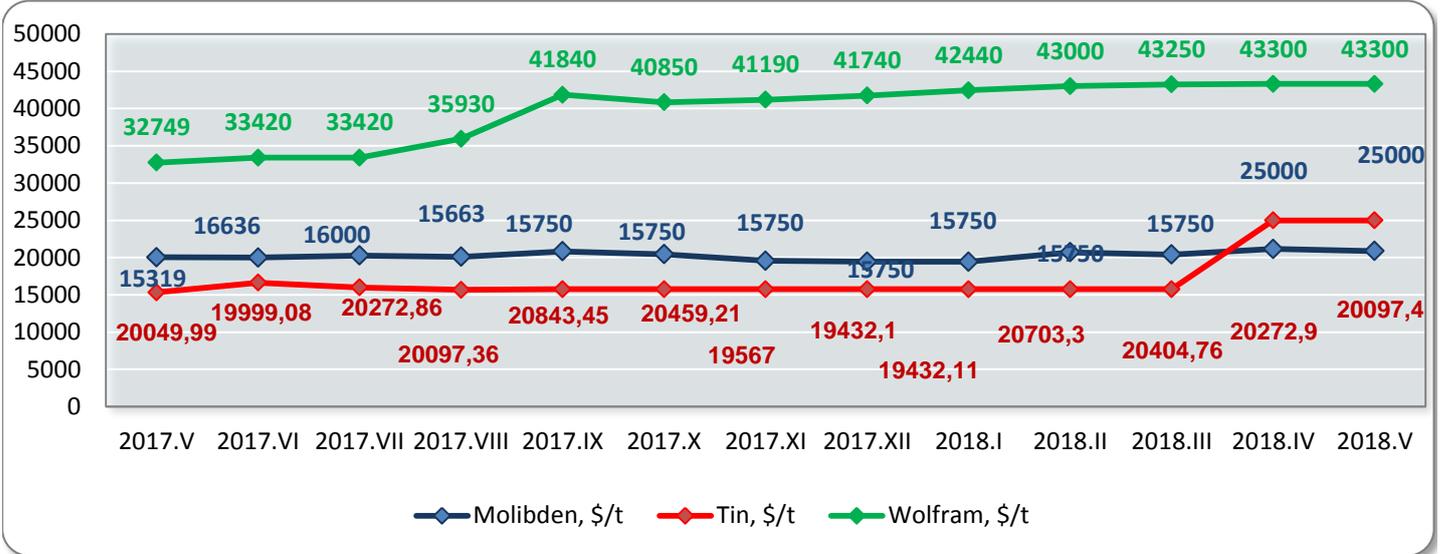


## 2.6. The average price of copper, US\$/tons

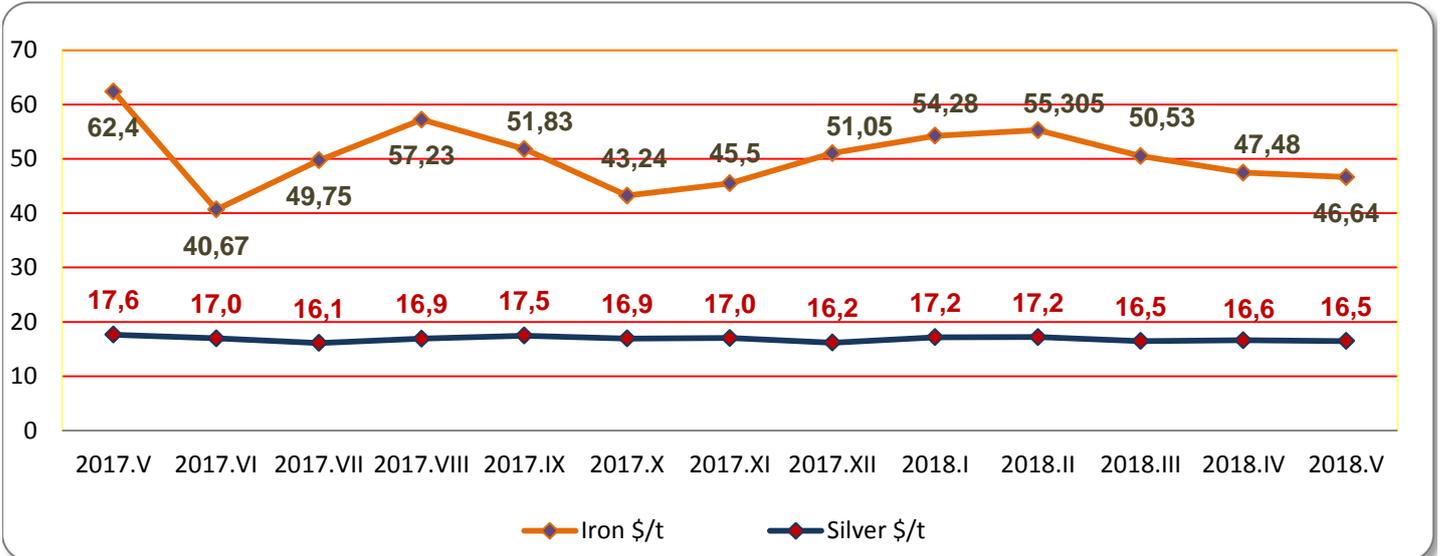




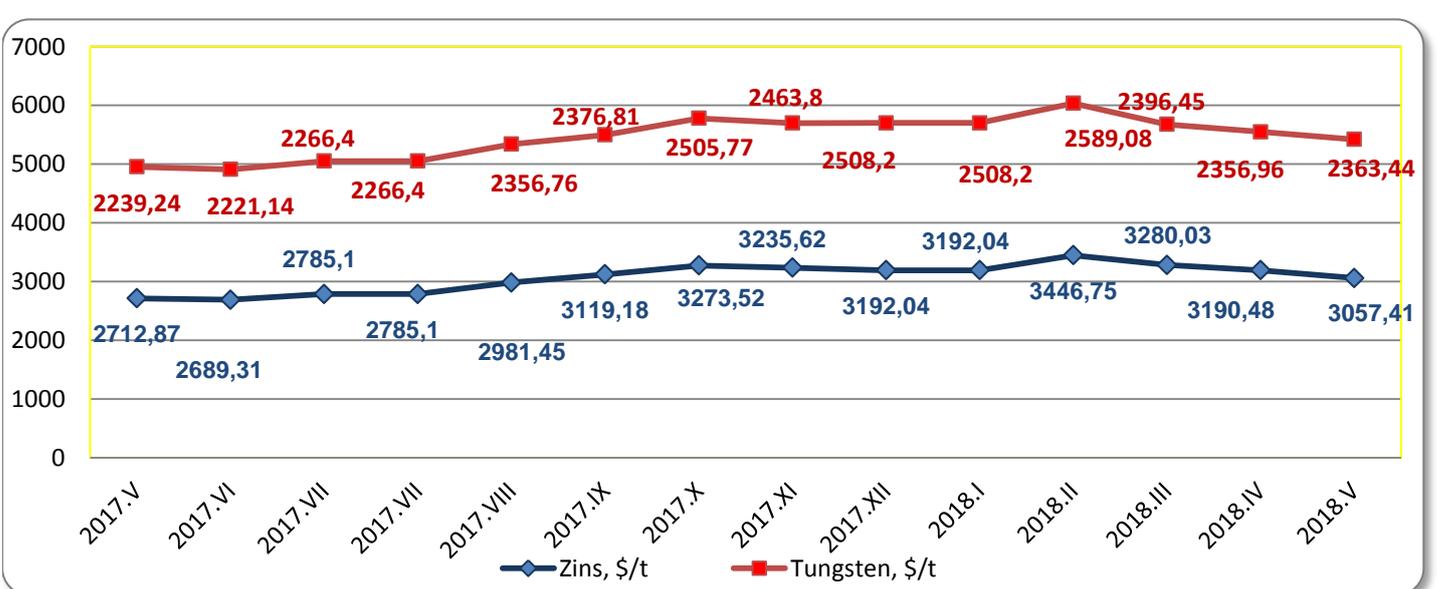
## 2.7. The average price of metals in the world market, last 12 months



## 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.lndmin.com](http://www.lndmin.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.

Source: Reports from companies to Mining, Industry and Technology Division, MRPAM



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

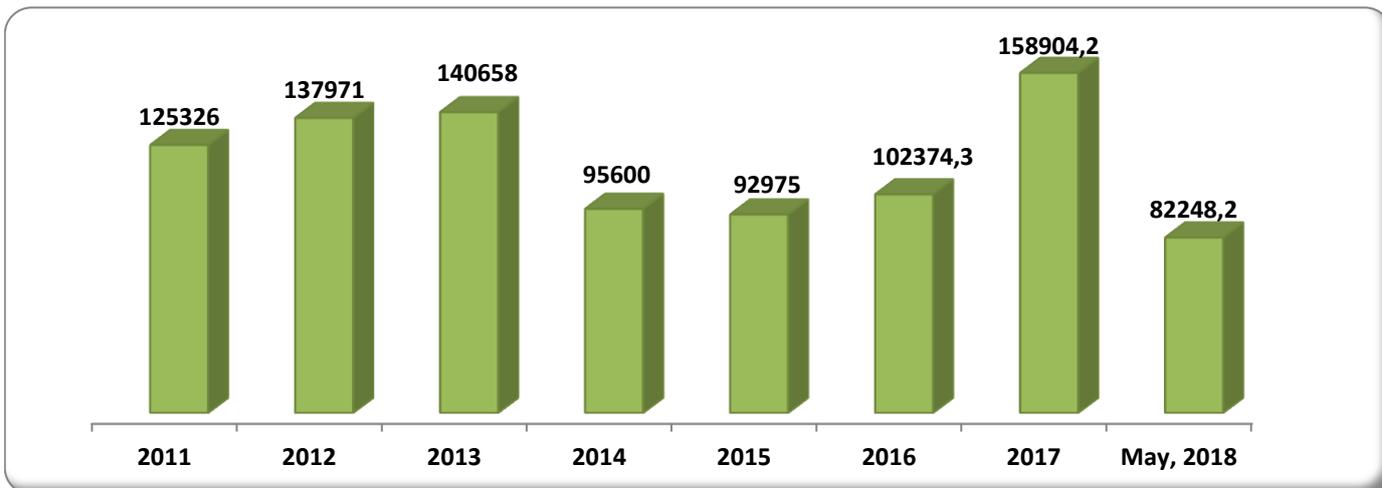
№	Company name	Exchange	Marking	Money unit	The average price of the shares						Market value, May 07, 2018
					2017	Jan, 2018	Feb, 2018	Mar, 2018	1st quarter, 2018	Apr, 2018	
1	Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	<b>3,076</b>	<b>3,365</b>	<b>2,862</b>	<b>3,219</b>	<b>3,158</b>	<b>3,024</b>	<b>5.70B</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)

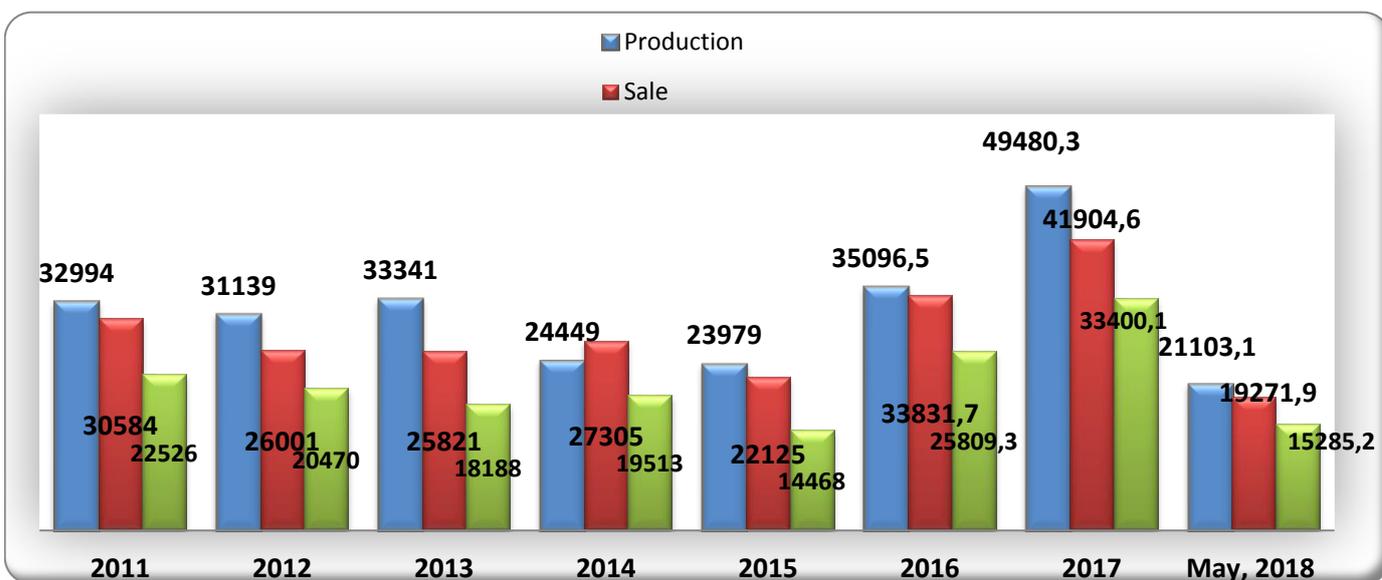


### 3. COAL STATISTICS

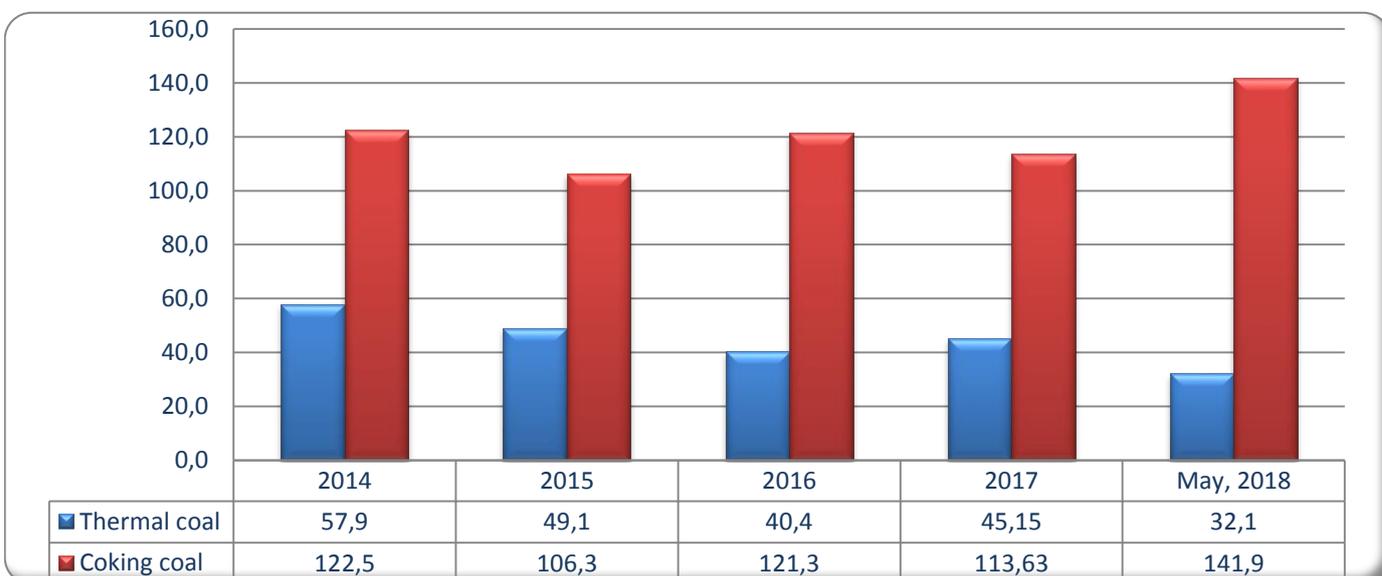
#### 3.1. Striping, ths.m3



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



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



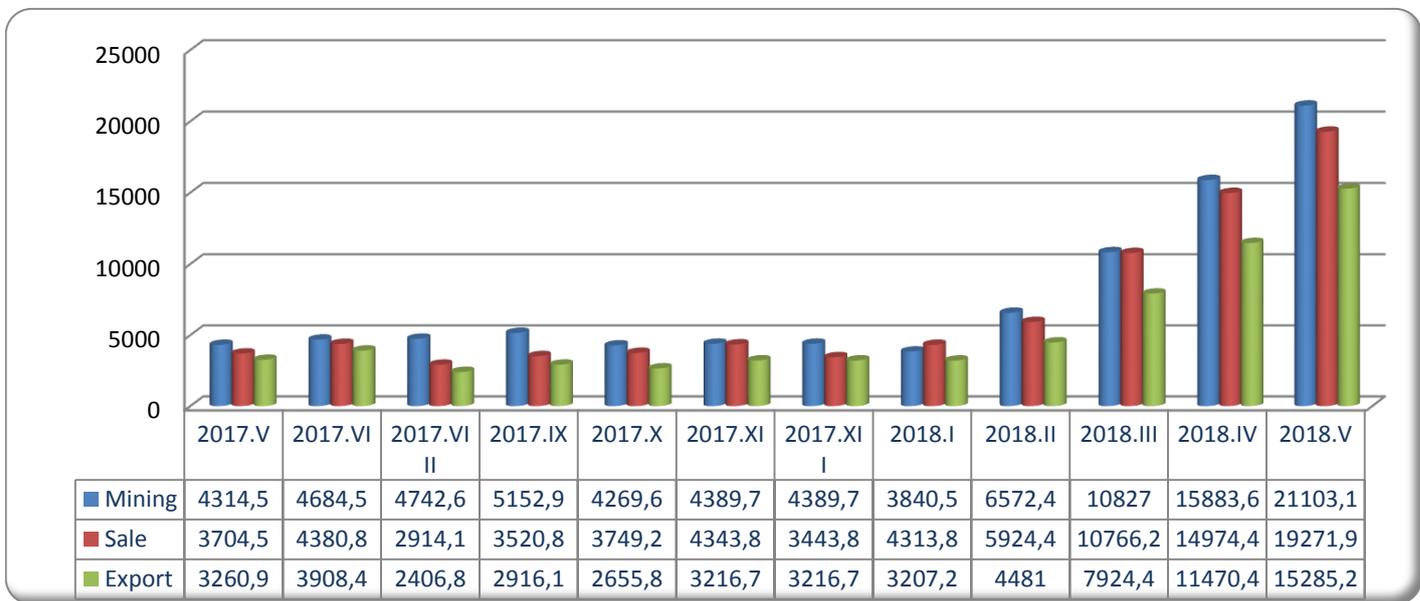
Source: Data from Coal mining companies to MRPAM infomine.com, <http://sxcoal.com/site/index?lang=en>



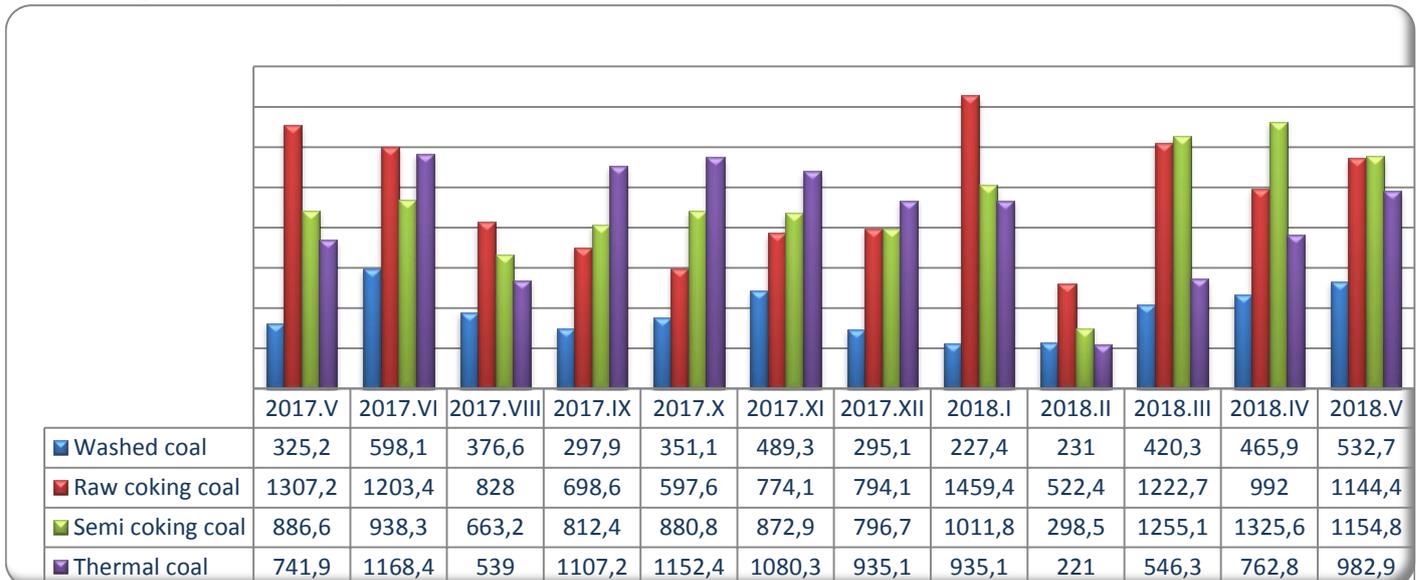
### 3.4. Stripping, mining, sale and export of Coal mines, Jan-May, 2018

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 LISENSSES AND AREA

### 4.1. Number of valid licenses and area by provinces

June 05, 2018

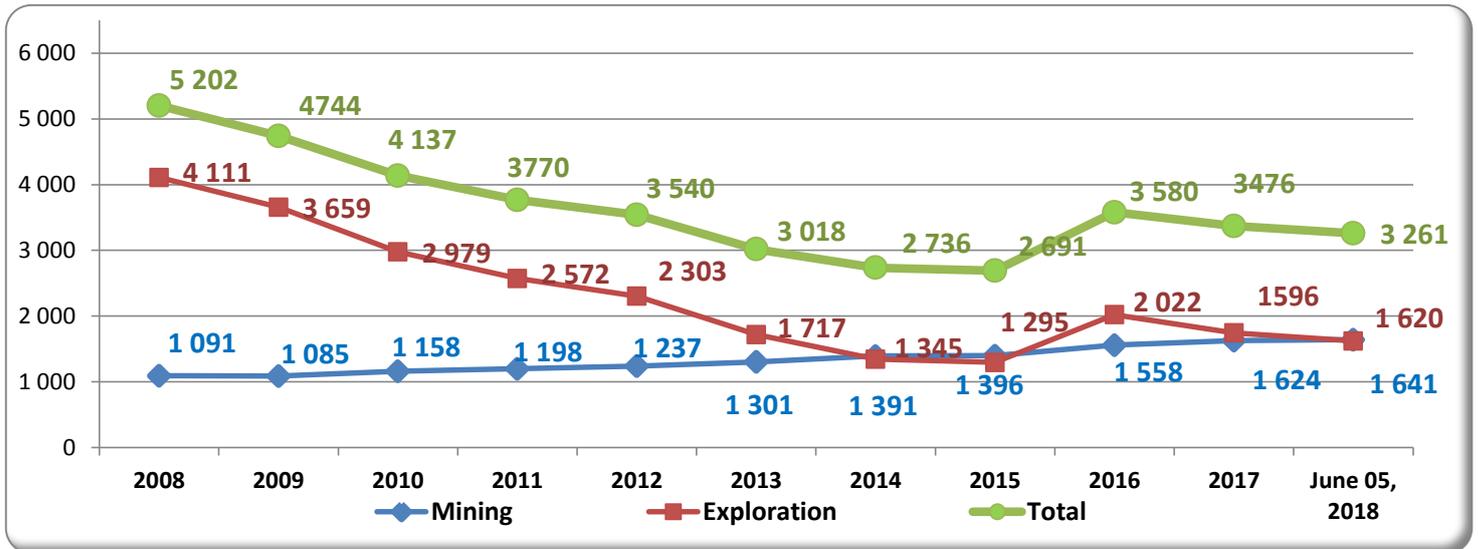
№	Aimags and capital city	Total			Thereof:					
					Mining			Exploration		
		Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory
1	Arkhangai	35	30,3	0,5	26	12,6	0,23	9	17,7	0,32
2	Bayan-Ulgii	74	231,3	5,1	27	12,9	0,28	47	218,5	4,77
3	Bayankhongor	172	469,7	4,1	87	67,0	0,58	85	402,7	3,49
4	Bulgan	118	181,7	3,7	69	34,9	0,72	49	146,8	3,02
5	Uvurkhangai	53	117,0	1,9	30	15,7	0,25	23	101,2	1,61
6	Govi-Altai	182	926,6	6,5	48	68,1	0,48	134	858,4	6,05
7	Govisumber	17	58,7	10,6	12	38,7	6,99	5	20,0	3,60
8	Darkhan Uul	80	16,2	5,0	67	9,6	2,95	13	6,6	2,03
9	Dornogovi	402	1677,2	15,3	174	207,6	1,90	228	1469,7	13,44
10	Dornod	176	563,4	4,6	69	57,1	0,46	107	506,3	4,10
11	Dundgovi	218	860,4	11,5	96	156,6	2,10	122	703,8	9,43
12	Zavhan	86	524,9	6,4	8	13,8	0,17	78	511,1	6,19
13	Umnugovi	215	1441,7	8,7	96	510,9	3,09	119	930,8	5,64
14	Orkhon	9	11,0	13,1	9	11,0	13,12	0	0,0	0,00
15	Sukhbaatar	104	455,5	5,5	61	49,6	0,60	43	405,8	4,93
16	Selenge	193	115,6	2,8	141	36,8	0,89	52	78,7	1,90
17	Tuv	451	476,3	6,4	305	145,8	1,97	146	330,5	4,47
18	Uvs	177	650,1	9,3	45	17,6	0,25	132	632,4	9,09
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	133	414,2	5,4	32	12,3	0,16	101	401,8	5,29
22	Khentii	254	512,1	6,3	108	41,0	0,51	146	471,1	5,84
<b>Total</b>		<b>3261</b>	<b>9838,1</b>	<b>6,3</b>	<b>1641</b>	<b>1540,7</b>	<b>0,98</b>	<b>1620</b>	<b>8297,35</b>	<b>5,29</b>

The total area of Mongolia is 1.56 million hectares

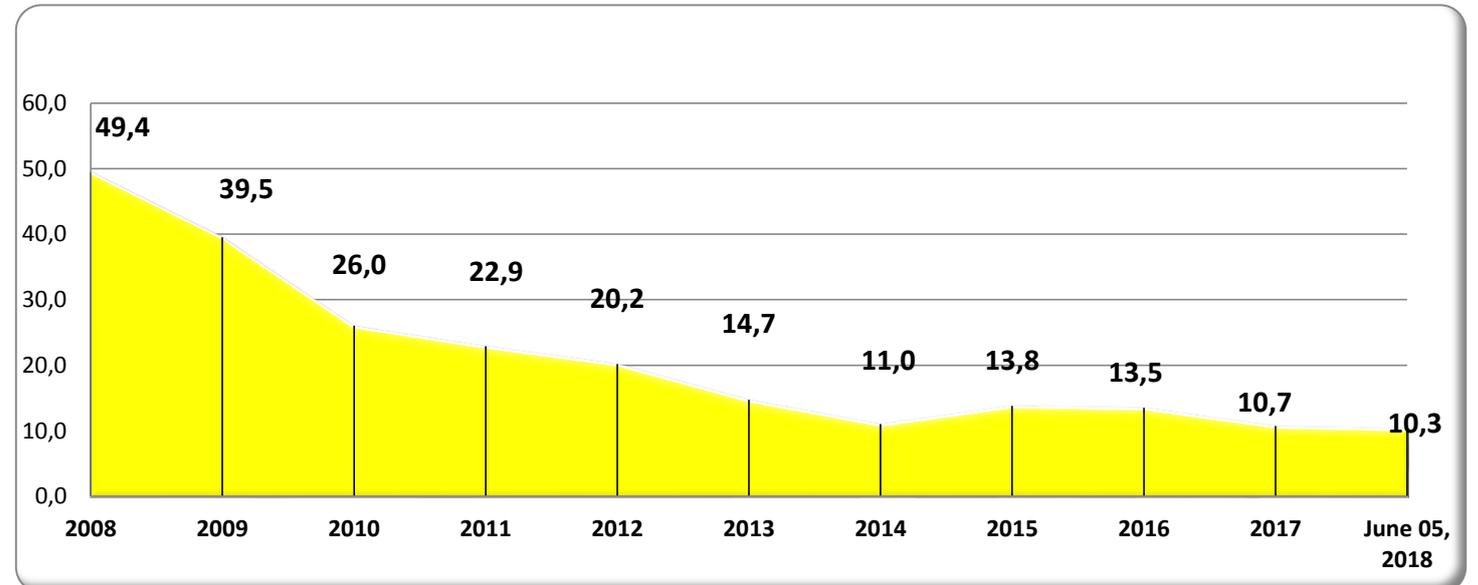
Explanation: Some licenses are crossing the boundaries of more than one aimag, thus increasing the number of each aimag.



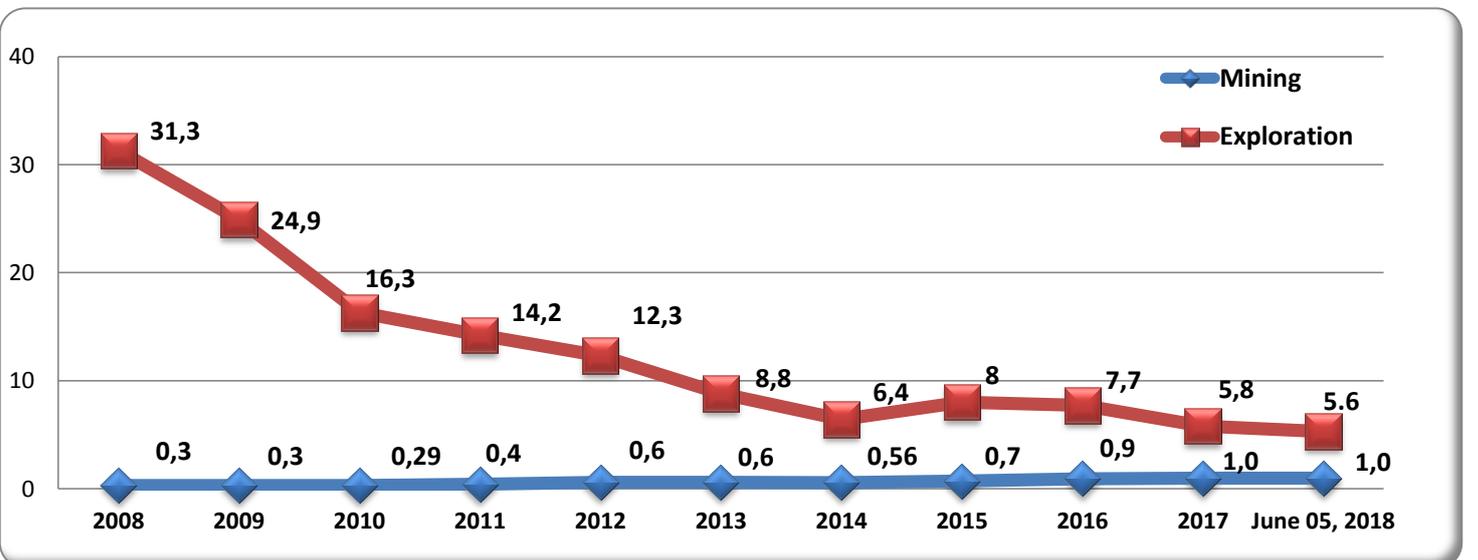
#### 4.2. Number of valid licenses, 2008-June 05, 2018



#### 4.3. Valid licensed area, million hectare, 2008-June 05, 2018



#### 4.4. Percentage of total area, 2008-June 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

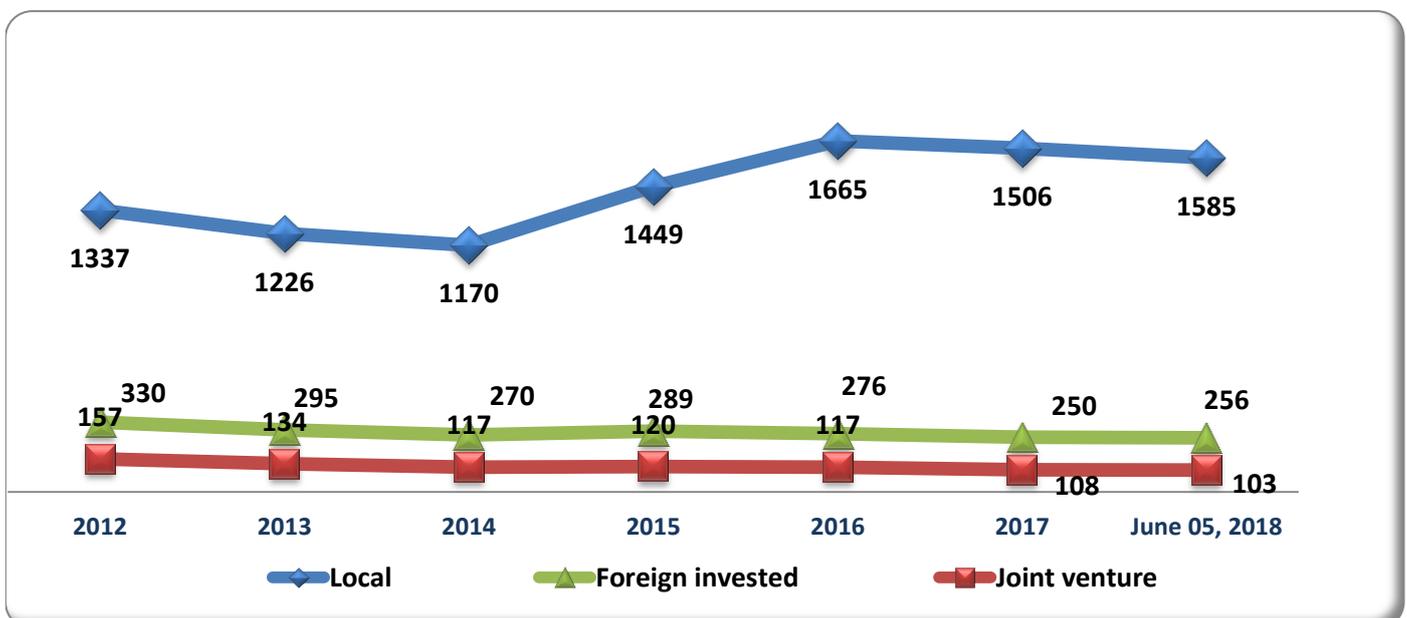
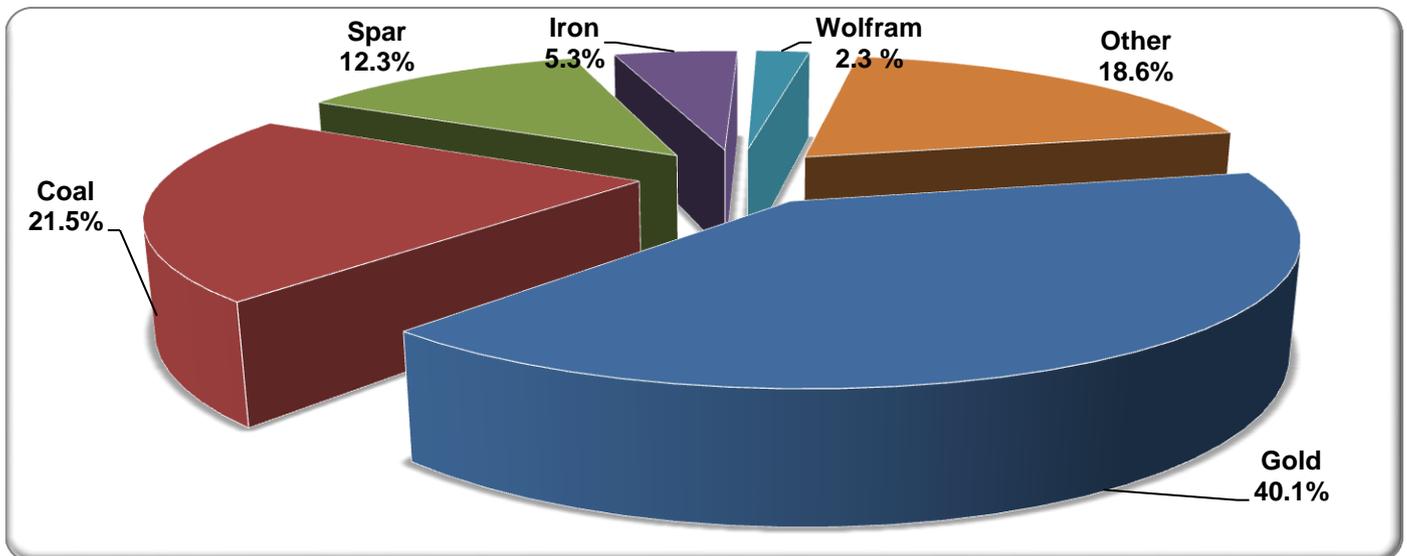
/Overlap/

June 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	8,7	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

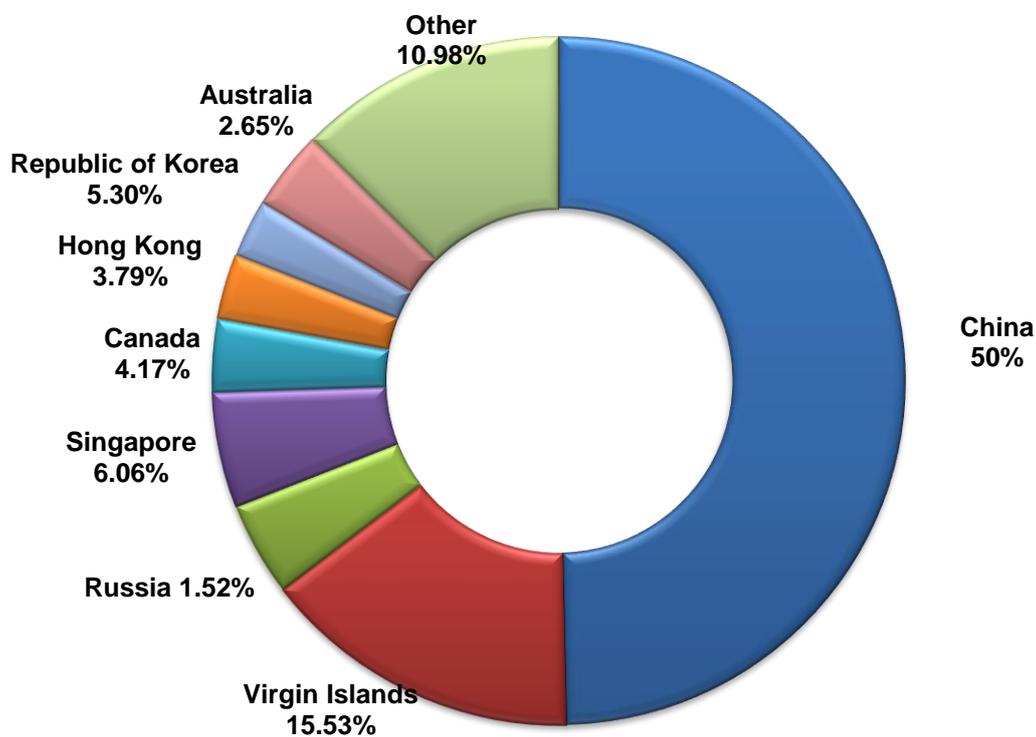
June 05, 2018



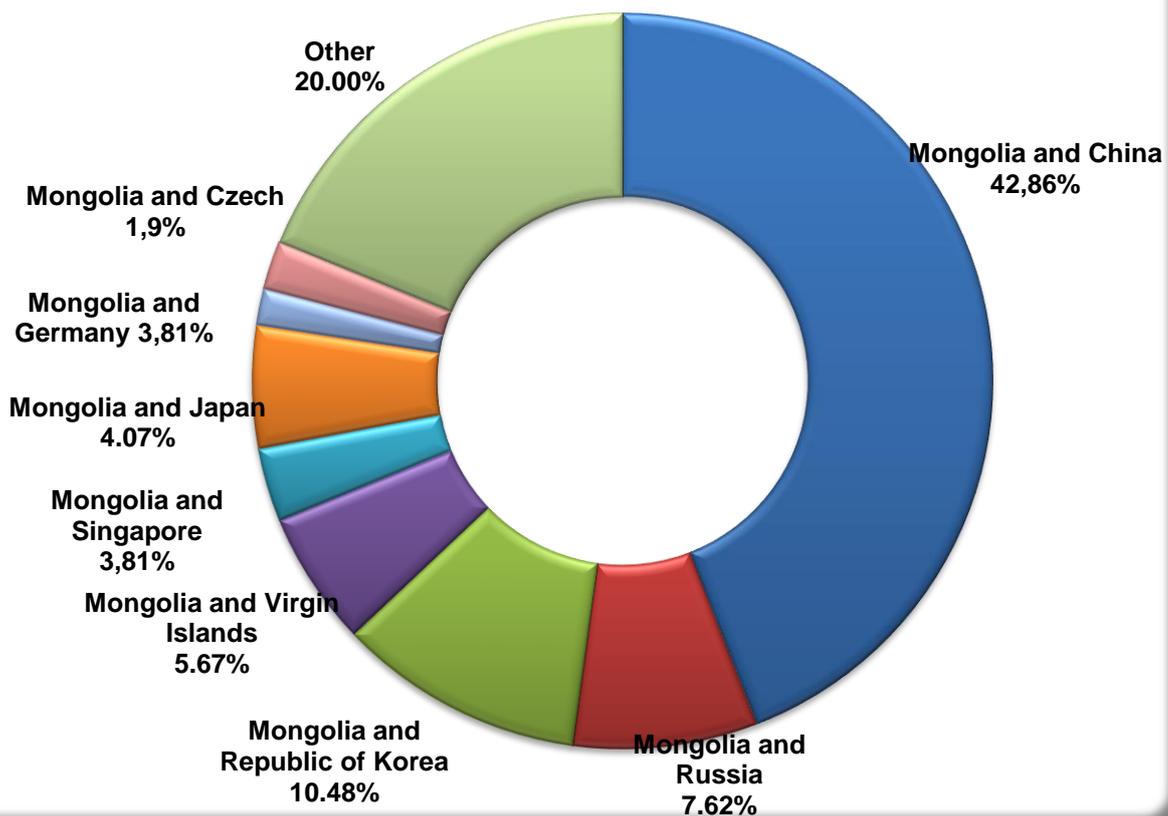
Source: Computerized mining cadastre system, MRPAM



**4.8. Composition of foreign invested license holders by countries, by June 05, 2018**



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



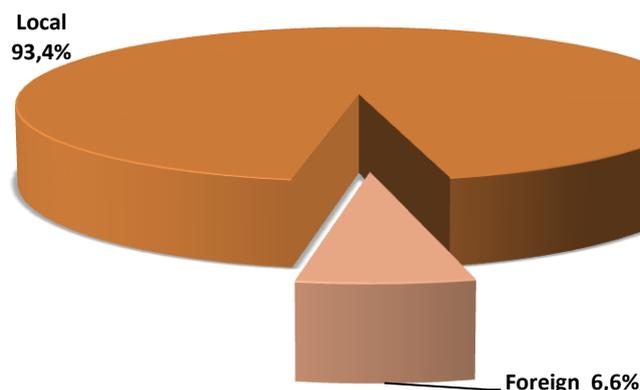
Source: Computerized mining cadastre system, MRPAM



#### 4.10. Origin of license holders

Name of Country	Holder		License		Area /hectare/	
	Number	Percent	Number	Percent	Hectare	Percent
БҮГД	1944	100,0%	3261	100,00%	9 838 068,3	100,00%
1 Mongolia	1585	0,8153292	2578	0,79055504	7383859,99	75,05%
2 China	173	0,0889918	234	0,07175713	490212,2	4,98%
3 Virgin Islands	46	0,0236626	116	0,03557191	389748,14	3,96%
4 South Korea	24	0,0123457	38	0,01165287	106333,73	1,08%
5 Сингапур	21	0,0108025	72	0,02207912	462319,93	4,70%
6 Canada	14	0,0072016	31	0,00950629	245299,93	2,49%
7 Russia	14	0,0072016	16	0,00490647	7940,92	0,08%
8 Hong Kong	13	0,0066872	29	0,00889298	214280,22	2,18%
9 Australia	7	0,0036008	8	0,00245324	38042,21	0,39%
10 Germany	6	0,0030864	7	0,00214658	13864	0,14%
11 Japan	6	0,0030864	60	0,01839926	170181,84	1,73%
12 USA	4	0,0020576	6	0,00183993	7771,62	0,08%
13 Holland	4	0,0020576	20	0,00613309	131587,62	1,34%
14 Luxemburg	4	0,0020576	8	0,00245324	20095,77	0,20%
15 Czech Republic	4	0,0020576	7	0,00214658	52526,28	0,53%
16 Great Britain	4	0,0020576	7	0,00214658	19669,24	0,20%
17 Ukraine	2	0,0010288	2	0,00061331	291,84	0,00%
18 Bulgaria	2	0,0010288	4	0,00122662	4784,6	0,05%
19 Bermud	2	0,0010288	3	0,00091996	7314,33	0,07%
20 Kazakhstan	2	0,0010288	2	0,00061331	2340,6	0,02%
21 Poland	1	0,0005144	1	0,00030665	1561,28	0,02%
22 Seychelles	1	0,0005144	1	0,00030665	36390,95	0,37%
23 Hungary	1	0,0005144	1	0,00030665	87,42	0,00%
24 Barbados	1	0,0005144	4	0,00122662	10734,57	0,11%
25 New Zealand	1	0,0005144	2	0,00061331	151,65	0,00%
26 Malaysia	1	0,0005144	2	0,00061331	2416,53	0,02%
27 Макао	1	0,0005144	2	0,00061331	18260,87	0,19%

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



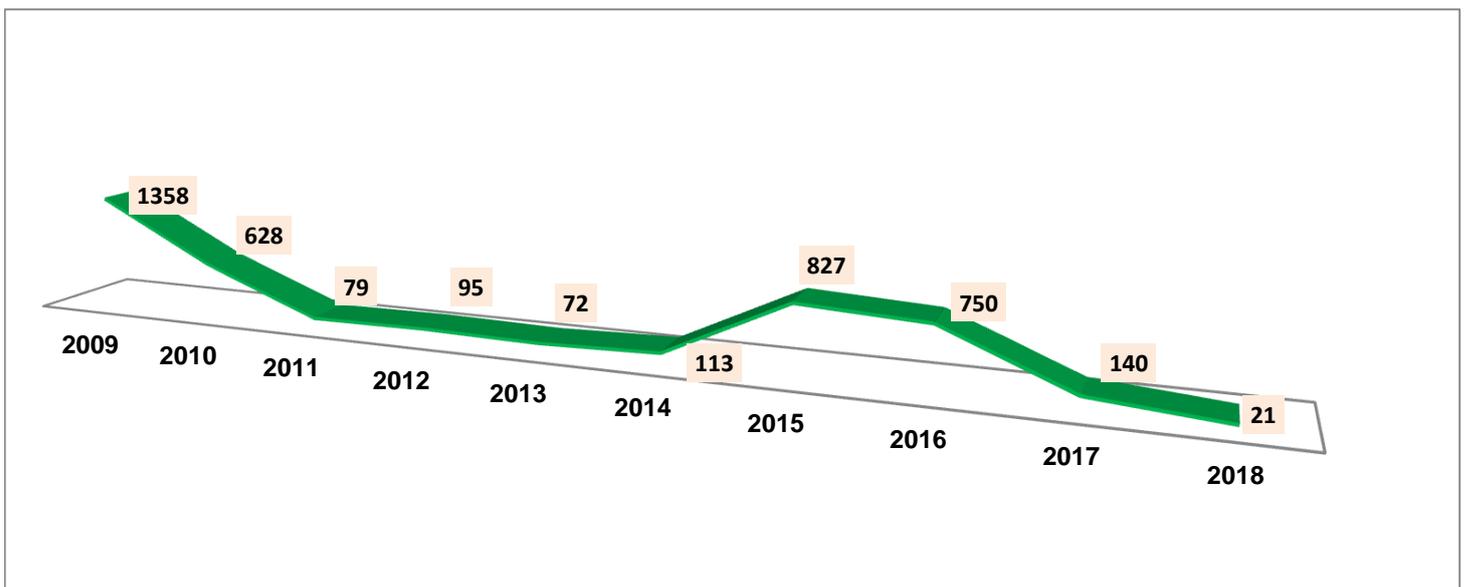
Source: Computerized mining cadastre system, MRPAM



#### 4.12. Changes in license registry, 2010-May, 2018

Type of registration	2010	2011	2012	2013	2014	2015	2016	2017	May, 2018
<b>1. New issued</b>	<b>235</b>	<b>79</b>	<b>95</b>	<b>72</b>	<b>113</b>	<b>827</b>	<b>750</b>	<b>151</b>	<b>21</b>
<i>Mining</i>	90	79	95	72	97	91	93	77	16
<i>Exploration</i>	145	0	0	0	2	697	629	41	5
Selection processed	0	0	0	0	14	39	28	33	0
<b>2. Reversed</b>	<b>105</b>	<b>89</b>	<b>141</b>	<b>146</b>	<b>119</b>	<b>150</b>	<b>166</b>	<b>97</b>	<b>48</b>
<i>Mining</i>	6	4	7	16	13	25	25	13	7
<i>Exploration</i>	99	85	134	130	106	125	141	84	41
<b>3. Canceled</b>	<b>458</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>	39	65	139	43	14	10	37	35	10
<i>Exploration</i>	419	210	131	304	109	163	204	202	81
<b>4. Expired</b>	<b>248</b>	<b>225</b>	<b>175</b>	<b>253</b>	<b>289</b>	<b>179</b>	<b>124</b>	<b>176</b>	<b>54</b>
<b>5. Transferred</b>	<b>448</b>	<b>441</b>	<b>200</b>	<b>8</b>	<b>51</b>	<b>88</b>	<b>146</b>	<b>136</b>	<b>99</b>
<i>Mining</i>	59	58	47	8	38	46	50	62	22
<i>Exploration</i>	389	383	153	0	13	42	96	74	77
<b>6. Extended</b>	<b>791</b>	<b>997</b>	<b>601</b>	<b>317</b>	<b>444</b>	<b>336</b>	<b>167</b>	<b>162</b>	<b>215</b>
<b>7. Pledged</b>	<b>50</b>	<b>62</b>	<b>38</b>	<b>61</b>	<b>40</b>	<b>22</b>	<b>29</b>	<b>39</b>	<b>25</b>
<i>Mining</i>	36	39	22	42	34	22	27	34	25
<i>Exploration</i>	14	23	16	19	6	0	2	5	0
<b>8. Terminated pledges</b>	<b>0</b>	<b>28</b>	<b>42</b>	<b>31</b>	<b>29</b>	<b>24</b>	<b>16</b>	<b>39</b>	<b>14</b>
<i>Mining</i>	0	8	15	29	24	19	12	38	13
<i>Exploration</i>	0	20	27	2	5	5	4	1	1
<b>9. Refunded</b>	<b>0</b>	<b>94</b>	<b>56</b>	<b>15</b>	<b>11</b>	<b>19</b>	<b>35</b>	<b>26</b>	<b>23</b>
<i>Mining</i>	0	29	16	9	7	10	15	19	5
<i>Exploration</i>	0	65	40	6	4	9	20	7	18

#### 4.13. Number of issued licenses, 2009-( May, 2018

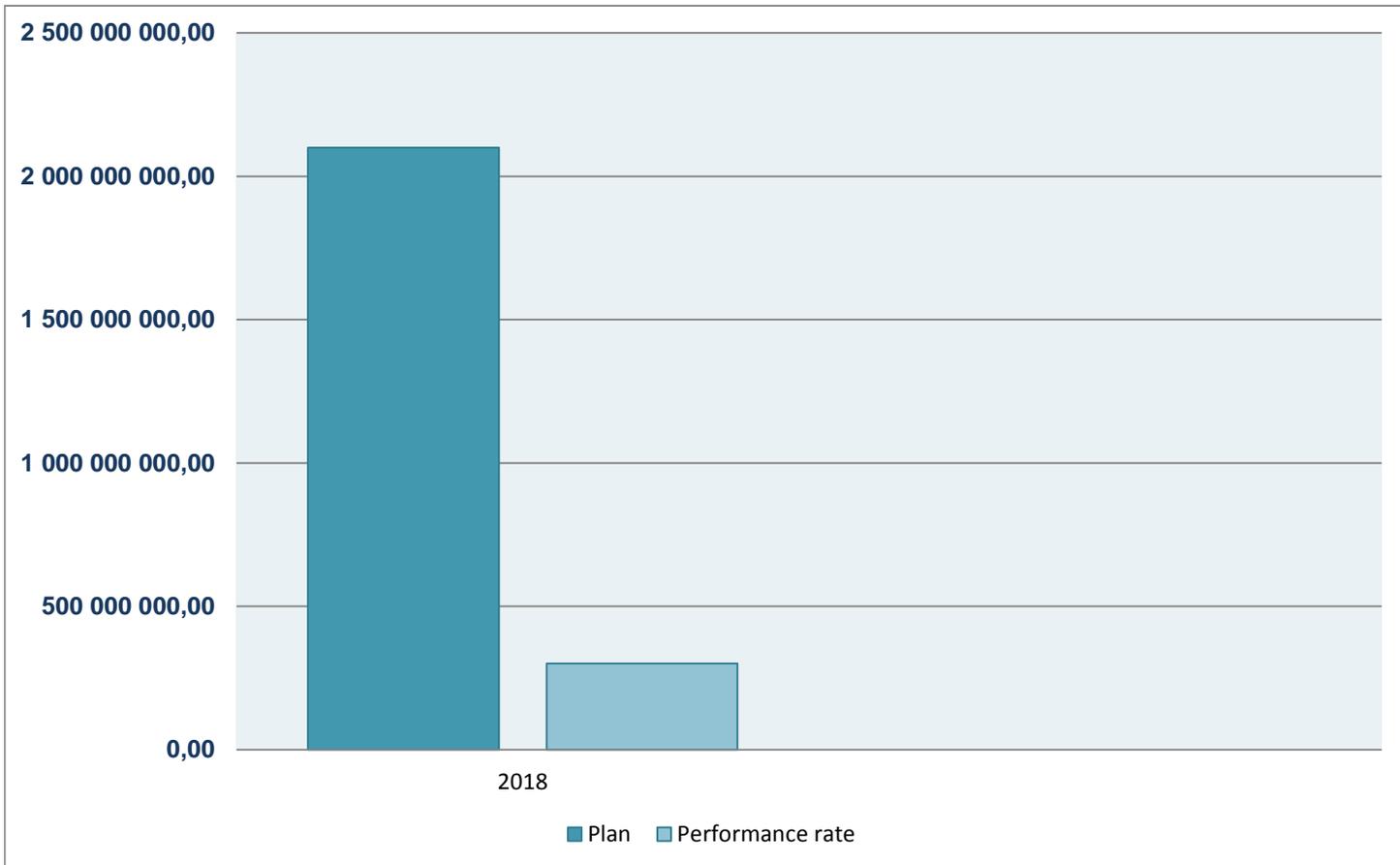


Source: Computerized mining cadastre system, MRPAM



## 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 300 658 790,00 was paid back by the May of 2018. /in increasing amount /**



## 6. State investment revenue

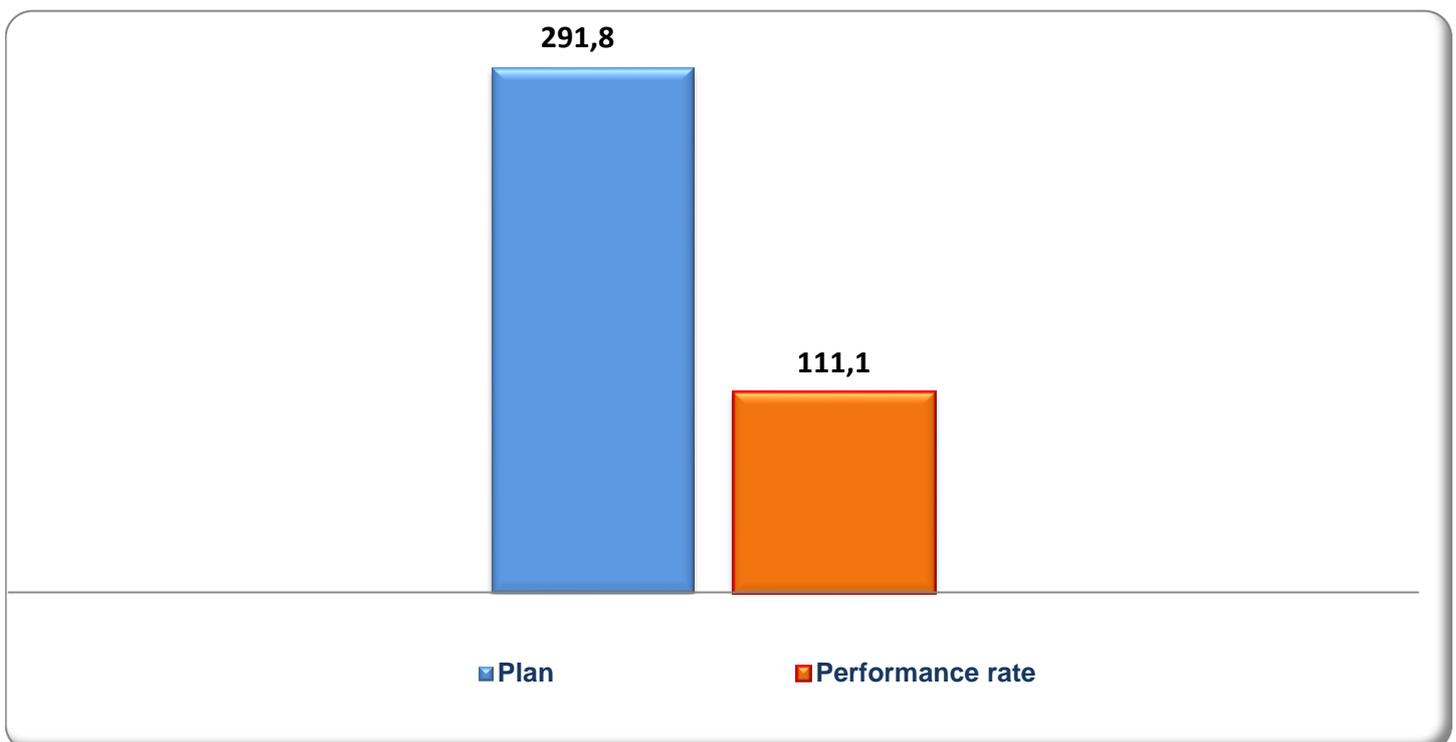
### 6.1. Budget revenue performance, MNT, May, 2018

Income type		Plan of 2018	Performance rate, May, 2018	Performance rate, Jan-May, 2018	Performance rate, 2018, %
No	<b>State budget revenues</b>	<b>291 808 115 046</b>	<b>25 704 555 200</b>	<b>111 141 004 126</b>	<b>38,09%</b>
1	License fee	37 000 000 000	4 547 562 448	13 452 897 124	<b>36,36%</b>
2	Reimbursement	2 100 000 000	27 911 839	300 650 879	<b>14,32%</b>
3	Petroleum revenues	223 448 349 919	20 789 598 387	94 318 022 584	<b>42,21%</b>
4	Other revenues /Service revenues/	6 109 765 127	339 482 526	3 069 433 540	<b>50,24%</b>
5	Own income /Selection of tender/	23 150 000 000	-	-	<b>0%</b>

#### Other revenues

No	Revenue type	Plan of 2018	Performance rate, May, 2018	Performance rate, May, 2018	Performance rate, May, 2018, %
1	Service revenue /mineral resources/	3 717 273 977	201 413 420	1 122 692 771	<b>30,20%</b>
2	Service revenue /petroleum/	2 392 491 150	134 215 113	1 929 582 323	<b>80,65%</b>
3	Interest Income	0	3 853 993	17 158 446	-

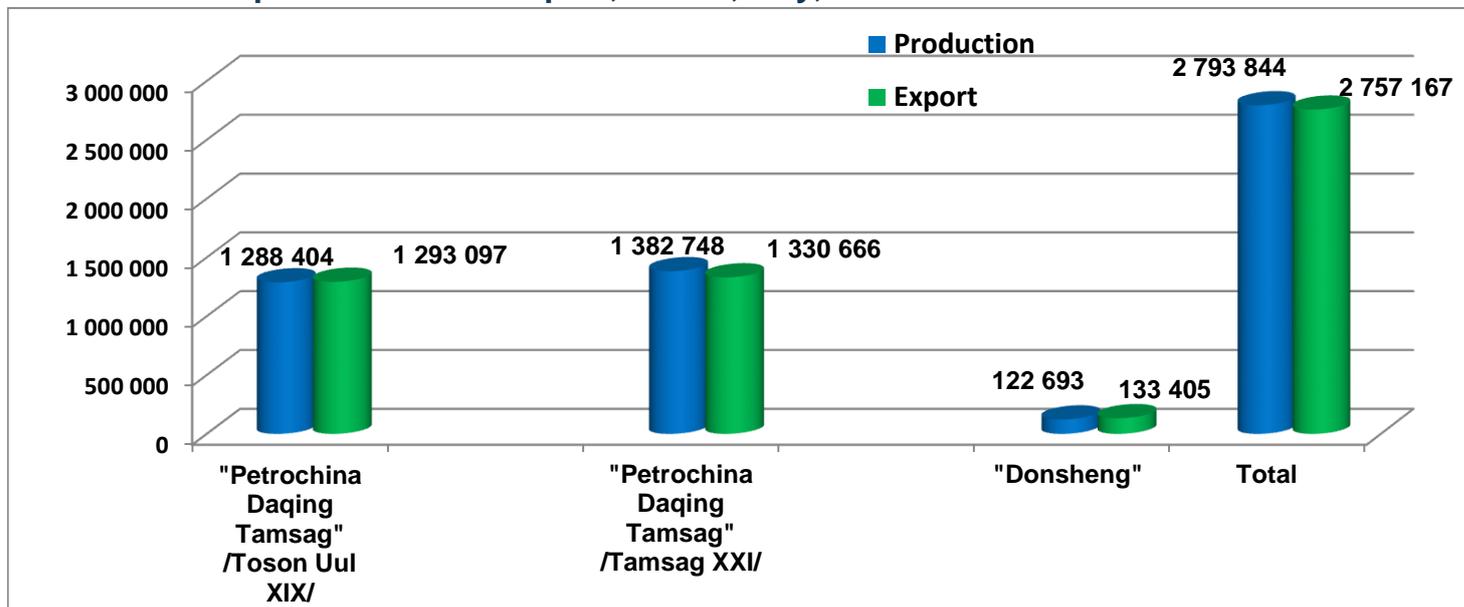
### 6.3. Income plan and performance rate, bln.MNT, Jan-May, 2018



Source: Administration and Management Division, MRPAM

## 7. PETROLEUM STATISTICS

### 7.1. Petroleum production and export, barrel, May, 2018



Source: Petroleum Production Division, MRPAM

### 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	1 288 404	1 382 748	122 693	2 793 844
2	Export	1 293 097	1 330 666	133 405	2 757 167

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

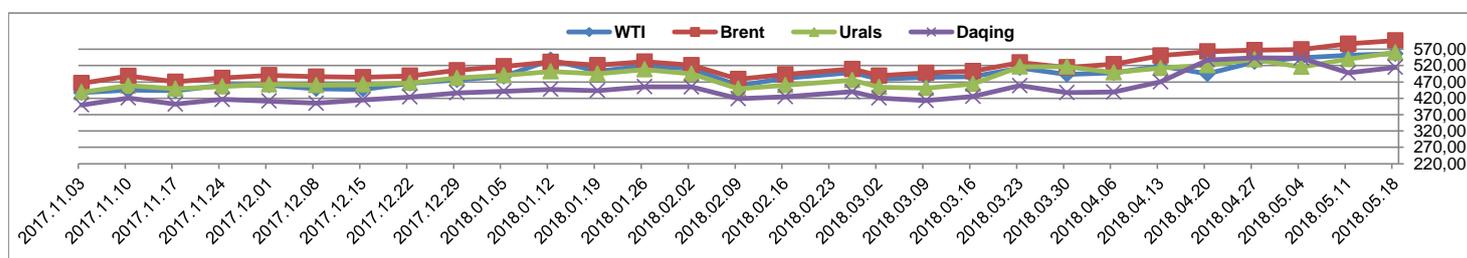
No	State name	A-80	AI-92	AI-95	AI-98	DT	TC-1	liquefied gas	Other	Total
1	Russia	2 771,10	33 998,40	1 354,00	173	77 728,80	9,00	191	31 588,00	152 178,20
2	China	-	1 993,50	-	-	958,3	-	-	109,2	3 061,00
3	Republic of Korea	-	-	-	958,3	-	-	-	-	958,3
4	Other countries	-	-	-	-	-	-	-	4 303,20	4 303,20
<b>Total</b>		<b>2 771,10</b>	<b>35 991,90</b>	<b>1 354,00</b>	<b>1 131,30</b>	<b>78 687,10</b>	<b>4 373,90</b>	<b>191</b>	<b>36 000,40</b>	<b>160 500,70</b>

Source : Petroleum Product Division, MRPAM

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

US\$/tonn

Date	New York WTI		London BRENT		Russia URALS 32'		China DAQING 33'	
		#REF!		#REF!		#REF!		#REF!
2017.05.19	391,16		401,10		376,98		341,47	
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%
2017.09.15	389,45	↑ 7,96%	421,54	↑ 1,93%	394,56	↑ 2,94%	359,14	↓ -0,68%
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%	585,426	↑ 2,56%	496,21	↓ -7,49%	487,67	↑ 1,61%



Source : Petroleum Product Division, MRPAM

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

/MNT/

Number	Zone name	Pillar center	Province, city	Type							
				A-80		AI-92		AI-95		DT	
				May 22	May 29	May 22	May 29	May 22	May 29	May 22	May 29
1	Western region	Khovd, Uliastai	Bayan-Ulgii	1550	1550	1700	1700	-	2030	1800	1800
2			Govi-Altai	1750	1750	1860	1860	-	2250	2140	2140
3			Zavkhan	1820	1820	1920	1920	-	2250	2260	2260
4			Uvs	1760	1760	1940	1940	-	2400	2060	2060
5			Hovd	1820	1820	1940	1940	-	2400	2200	2200
The average price of western region				<b>1 740</b>	<b>1 740</b>	<b>1 872</b>	<b>1 872</b>	<b>-</b>	<b>2 266</b>	<b>2 092</b>	<b>2 092</b>
6	Hangai region	Kharkhorin, Erdenet	Arkhangai	1690	1690	1790	1790	2100	2100	2150	2150
7			Bayankhongor	1680	1680	1810	1810	-	2180	2140	2140
8			Bulgan	1630	1630	1770	1770	2070	2070	2040	2040
9			Ovorkhangai	1660	1660	1790	1790	-	2150	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	1670	1850	1850	2180	2180	2080	2080
The average price of hangai region				<b>1 647</b>	<b>1 647</b>	<b>1 786</b>	<b>1 786</b>	<b>2 092</b>	<b>2 113</b>	<b>2 081</b>	<b>2 081</b>
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1555	1555	1708	1708	2048	2045	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	2160	2016
20			Zamin Uud	1690	1690	1820	1820	2100	2100	2100	2100
The average price of central region				<b>1 618</b>	<b>1 618</b>	<b>1 774</b>	<b>1 774</b>	<b>2 054</b>	<b>2 053</b>	<b>2 073</b>	<b>2 055</b>
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				<b>1 670</b>	<b>1 670</b>	<b>1 820</b>	<b>1 820</b>	<b>2 083</b>	<b>2 083</b>	<b>2 120</b>	<b>2 120</b>
<b>State average price</b>				<b>1 669</b>	<b>1 669</b>	<b>1 813</b>	<b>1 813</b>	<b>2 076</b>	<b>2 129</b>	<b>2 091</b>	<b>2 087</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	1 480	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
<b>Average price</b>		<b>1 555</b>	<b>1 708</b>	<b>2 045</b>	<b>2 010</b>

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

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

May, 2018

Type of coal	Name	Classification	Border name	Entities	Deposit name	Quality Indicators						
						TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI
						Weight, %				kcal/k	Index	
Raw coal	Antracite	Antacite	Khangi	IKH GOBI Energy LLC	Mandakh nuur	4,3	10,2	9,4	0,39	7213	0	0
	Coal	Coking	Khangi	COA LLC	Ail Bayan	0	0,0	0,0	0,00	0	0,0	0,0
			Gashuun sukhait	Endens	Baruun, zuun tsankhi	1,2	12,1	27,0	0,92	7607	7,0	72,8
				Tavantolgoi	Tavan tolgoi 4rd orifice	1,8	13,4	28,0	0,90	6992	7,0	79,8
		Weak coking	Gashuun sukhait	Tavantolgoi	Tavan tolgoi 8th orifice	3,0	21,1	33,0	1,11	6369	5,5	60,5
			Shivee khuren	Uush zoos	Khuren shand	3,3	14,3	40,4	1,07	6272	6,5	79,8
				Tsagaan uvuljuu	Baruun noyon uul	2,2	16,7	28,5	0,43	6428	6,0	58,3
				SGS LLC	Чинхуа мак	4,8	9,7	32,9	0,79	7165	5,0	52,9
				Chinkhua	SGS	3,3	12,1	39,9	1,59	6897	6,5	79,2
			Mak LLC	Mogoin gol	1,0	24,0	24,2	1,68	6866	-	-	
			Zamiin Uud		Bor khul	9,6	17,7	51,9	0,56	6278	-	-
		Non-coking coking	Khangi	COA LLC	Ail Bayan	0	0,0	0,0	0,00	0	-	-
			Gashuun sukhait	Tavan tolgoi	ITT Energy	8,4	14,2	26,1	0,54	6386	-	-
				Endens	Tavan tolgoi energy	2,6	17,7	27,6	0,69	6657	-	-
			Shivee khuren	Usukh zoog	Khuren shand	4,7	26,8	36,9	1,04	5352	-	-
				Мак ХХК	Nariin sukhait		-	-	-	-	-	-
	Chinkhua Mak LLC					-	-	-	-	-	-	-
	Gavkhilant ord	Zangat Uul		-	-	-	-	-	-	-		
	Other	Zamiin Uud	Chingis Khar Alt LLC	Dalan Chkha	3,3	26,6	37,3	1,27	5596	0,0	0,0	
			Shtain coal	Dalan Shtain	6,1	33,9	18,7	1,23	5194	0,0	0,0	
			CIG LLC	Dalan FShR	6,6	25,2	45,5	1,51	5610	0,0	0,0	
			Friendship resource LLC	Bayantsogt	-	-	-	-	-	-	-	
	Brown coal	Bichigt	Erdeniin bosgo LLC	Khuut	-	-	-	-	-	-	-	
Circon geology LLC			Ukhaa khudag	-	-	-	-	-	-	-		
Washed coal	Coal	Coking	Gashuun sukhait	Energy resource	Khushuut	-	-	-	-	-	-	
			Yarant	Mo and Co LLC	Ukhaa khudag	-	-	-	-	-	-	
		Weak coking	Gashuun sukhait	Tumen zaag LLC	SGS	2,3	10,1	40,0	1,50	7061	7,5	81,8
		Noncoking	Gashuun sukhait	Energy resource LLC	-	-	-	-	-	-	-	
Cox	27,04-0010	Gashuun sukhait		Coke	-	-	-	-	-	-		

Source: Mining and Petroleum Central Laboratory



Mineral Resources and Petroleum Authority of Mongolia