



**MINISTRY OF MINING  
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND  
PETROLEUM AUTHORITY OF  
MONGOLIA**

# **Mineral Resources and Petroleum Statistics**



**February, 2018**

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



## STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM



**Discussed the concept of consolidated national geo-information pool and funding, discussed how to co-finance the project.**

Compiled: Monitoring-Evaluation and Statistics Division  
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[www.mrpam.gov.mn](http://www.mrpam.gov.mn).



## Main indicators

<b>1. Number of valid licenses (Mar 05, 2018)</b>	<b>3326</b>
Mining licenses	1630
Exploration licenses	1696
<b>2. Valid licensed area (Mar 05, 2018)</b>	<b>10,4 сая га</b>
Mining licensed area	1,6 сая.га
Exploration licensed area	8,8 сая.га
<b>3. Licensed area of Mongolian territory (Mar 05, 2018)</b>	<b>6,6%</b>
Mining licensed area	1,0%
Exploration licensed area	5,6%
<b>4. The role of Mining sector in Gross Domestic Product (Feb, 2018)</b>	21,88%*
<b>5. Mining industry in Gross Industrial Output (Feb, 2018)</b>	71,85%*
<b>5. Mining industry in Gross Industrial Output (Feb, 2018)</b>	
Copper metal concentrate	207,7 мян.тн*
Molybdenum metal concentrate	811,1 тн*
Gold	1276,0 кг
Fluorspar concentrate	2,0 мян.тн*
Iron ore	350,7 мян.тн*
Zincum concentrate	14,9 мян.тн*
<b>7. Main minerals export (Feb, 2018)</b>	
Flourspar ore and concentrate	932,4 мян тн**
Copper concentrate	205,1 мян тн**
Zinc	21,1 мян тн**
Gold	1696,0 кг**
Coal	4481,0 мян тн**
<b>8. Produced coal (Feb, 2018)</b>	<b>6572,4 мян.тн</b>
<b>9. Sold coal (Feb, 2018)</b>	<b>5924,4 мян.тн</b>
<b>10. Implementation of approved budget revenue plan (Feb, 2018)</b>	<b>15,7%</b>
License fee	11,6%
Petroleum export	17,7%
Reimbursement	8,4%

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



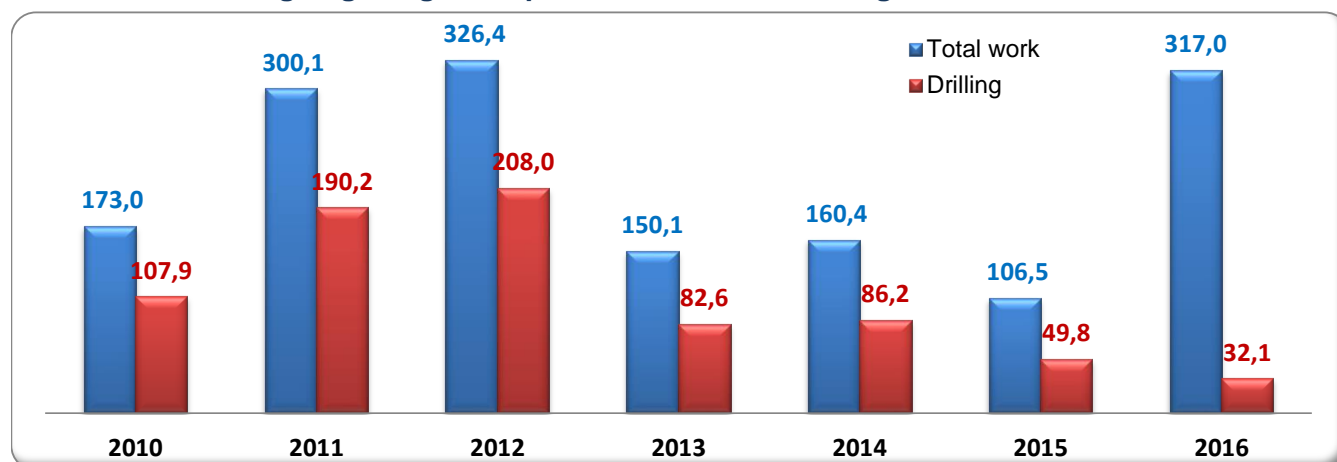
## 1.2. Geological and exploration survey conducted at expenses of the exploration license holders, mln.MNT, 2010-2016

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

## 1.2. 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		Jan-Oct, 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

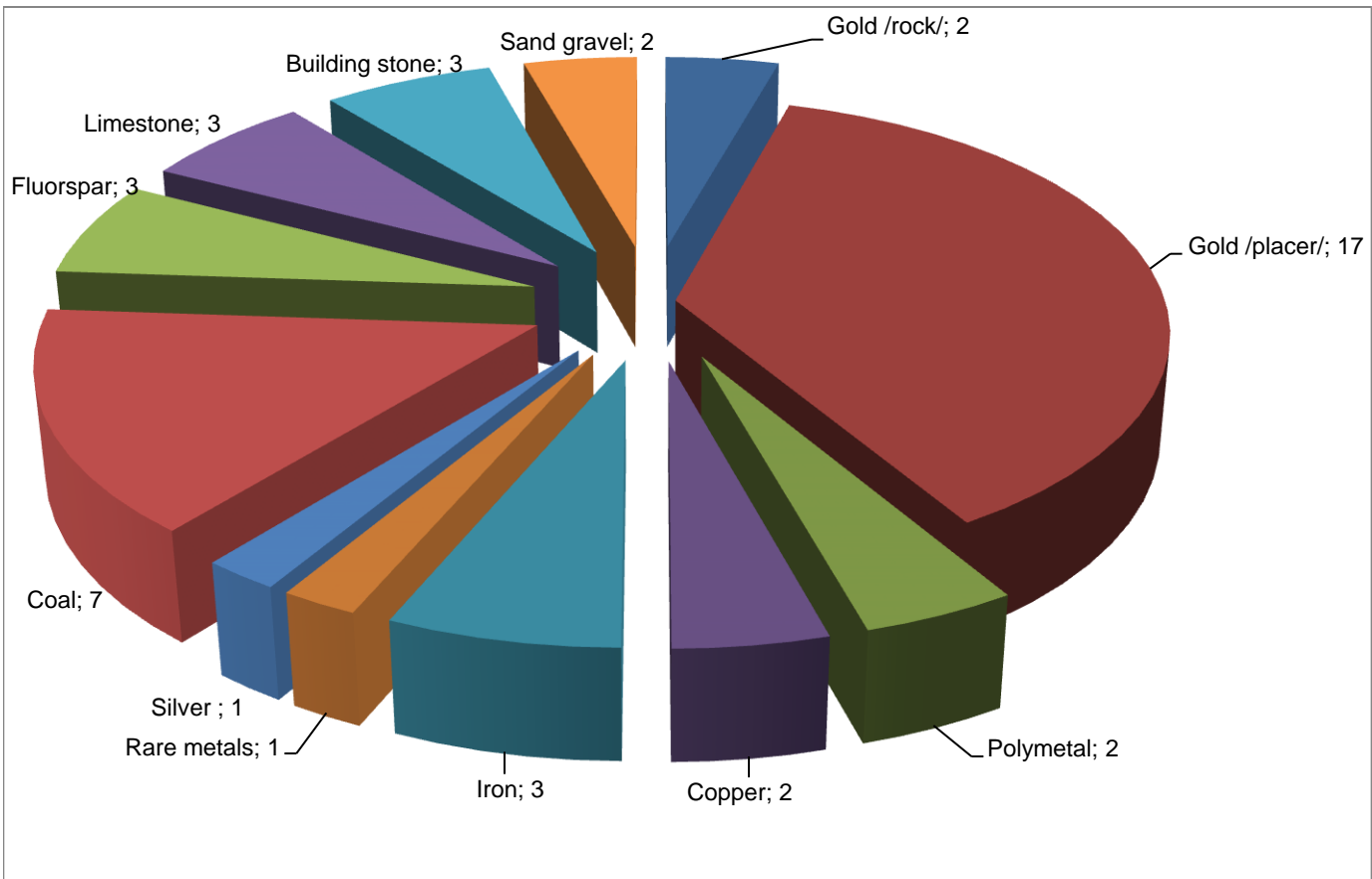
Source: Data from Geology and Exploration Division, MRPAM



### 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

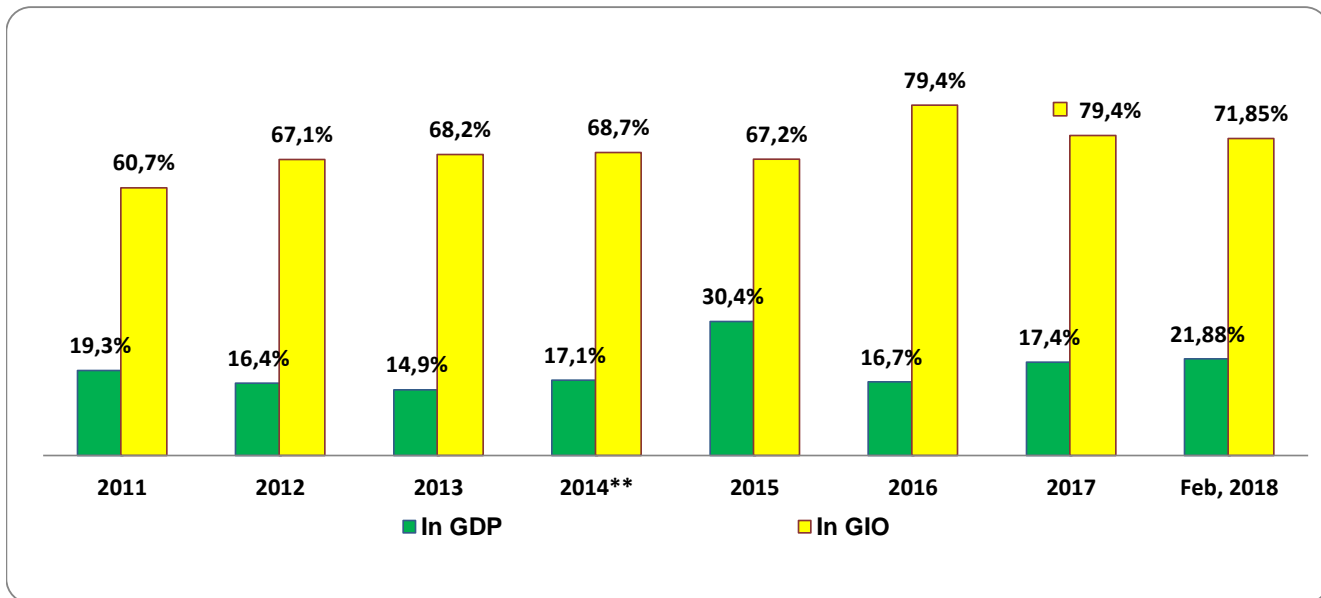


## 2. MINING STATISTICS

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

Production	2011	2012	2013	2014	2015	2016	2017	Feb, 2018
Gross domestic production	13173,8	16688,4	19174,2	22227,1	23166,8	23 886,4	20 257,9	16873,8
Mining production	2536,2	2742,8	2849,4	3661,0	3867,7	3 984,8	4 291,3	3692,8
Gross industrial output	6185,6	5723,6	7651,7	9299,6	8714,4	9 927,1	12 932,7	2048,5
Mining and quarrying	3752,3	3839,7	5217,4	6388,9	5858,0	7 884,7	9 386,0	1471,8

### 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	Feb, 2018
Copper concentrate with metal grade, thous.t	347,4	347,6	533,3	712,0	890,7	1445,1	1 084,9	207,7
Molybdenum concentrate with metal grade, ton	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	4 673,7	811,1
Gold, kg	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	17 397,5	1276
Fluorspar concentrate, thous.t	116,4	157,2	76,4	374,9	230,8	34,1	17,1	2
Iron ore, concentrate, thous.t	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	3 069,1	350,7
Zinc concentrate, thous	104,7	119,1	104,1	93,2	89,6	100,2	69,0	14,9
Tungsten concentrate, ton	12,6	66,0	-	-	-	-	-	-

Source: www.1212.mn, National Statistical Office



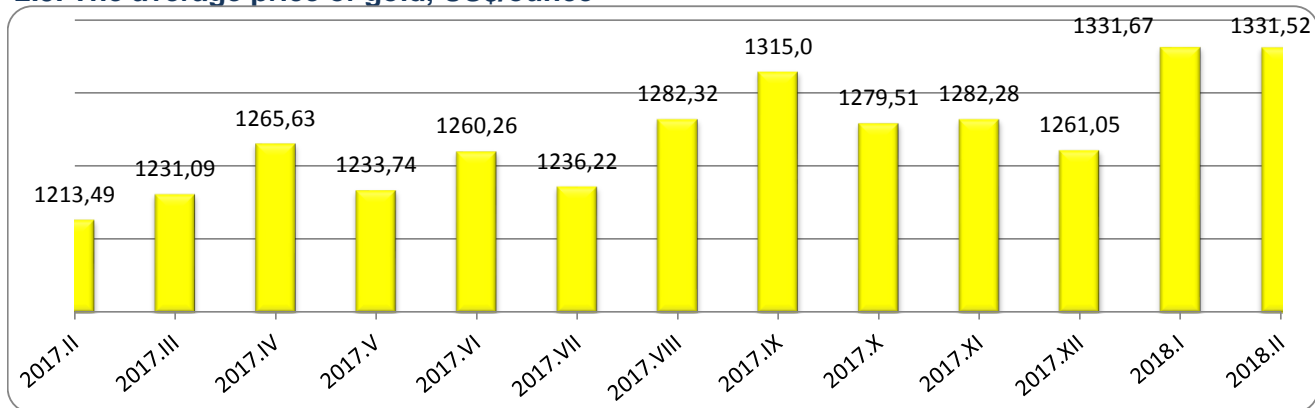


## 2.4. The average of commodity prices in the world market. US\$, 2013-2018

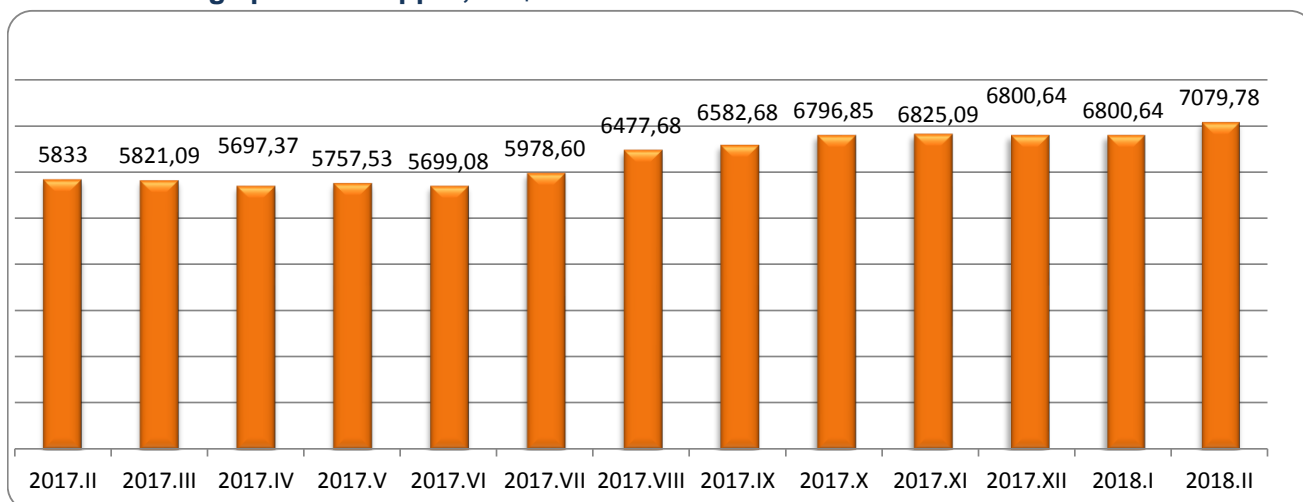
Number	Mineral commodities	Unit of measurement	2014	2015	2016	2017	Feb, 2018
1	Gold, ounce	\$/унци	1271,19	1160,09	1151,40	1257,11	1331,52
2	Silver, ounce	\$/унци	19,07	15,71	16,38	17,14	17,19
3	Copper, tons	\$/тн	6859,50	5501,03	5665,83	6162,36	7079,78
4	Zinc, tons	\$/тн	2161,05	1928,76	2671,34	2893,57	3446,75
5	Blue lead, tons	\$/тн	2095,44	1786,15	2230,30	2317,05	2589,08
6	Tin, tons	\$/тн	21909,93	16079,32	21274,13	20090,07	20703,3
7	Molybdenum, tons	\$/тн	25202,97	14618,15	15000,00	15665,13	15750
8	Tungsten, tons	\$/тн	50971,02	36082,38	32000,00	36011,13	43000
9	Iron ore, tons	\$/тн	93,11	49,82	62,00	54,28	55,305
10	Fluorite concentrate AG-97	\$/тн	305,66	283,29	260,00	345,38	455
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	34,9
13	Coking coal	\$/тн	150,00	106,20	121,30	113,63	153,7

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

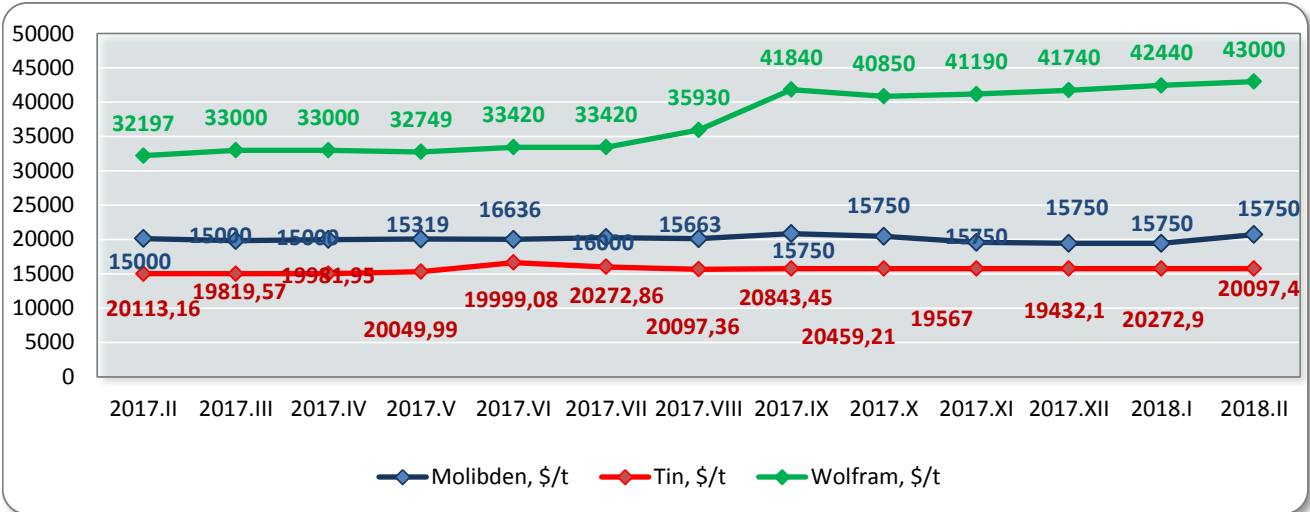


## 2.6. The average price of copper, US\$/tons

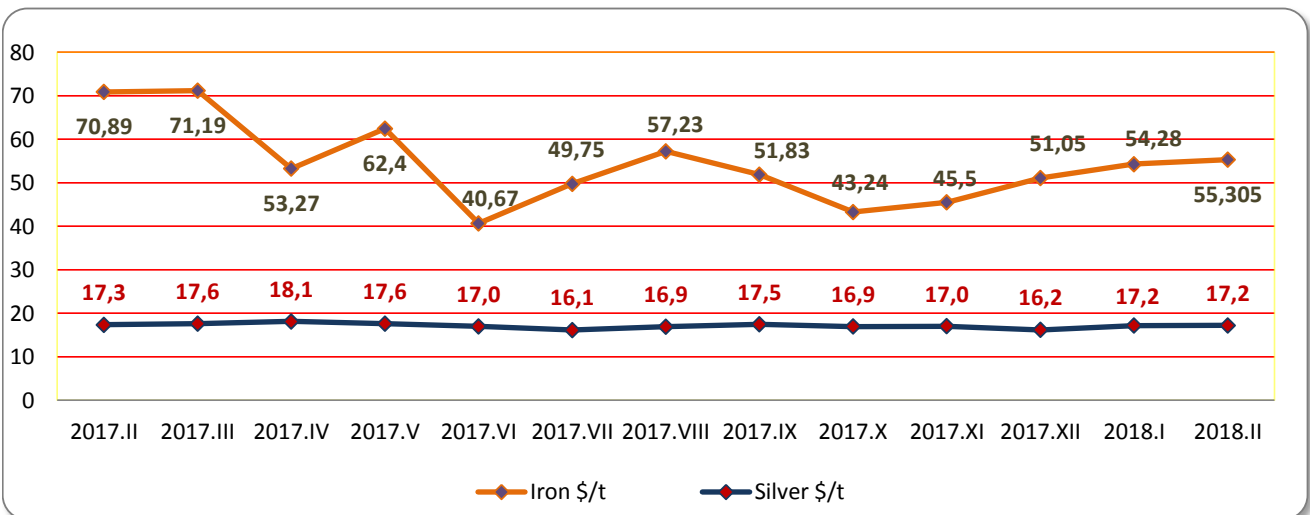




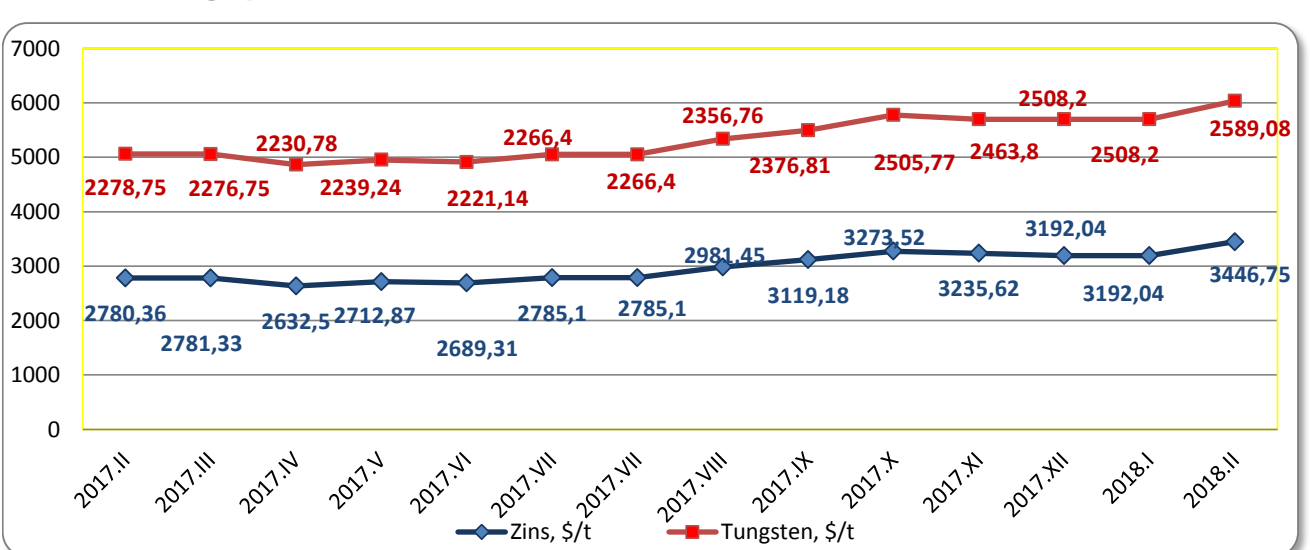
### 2.7. The average price of metals in the world market, last 12 months



### 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



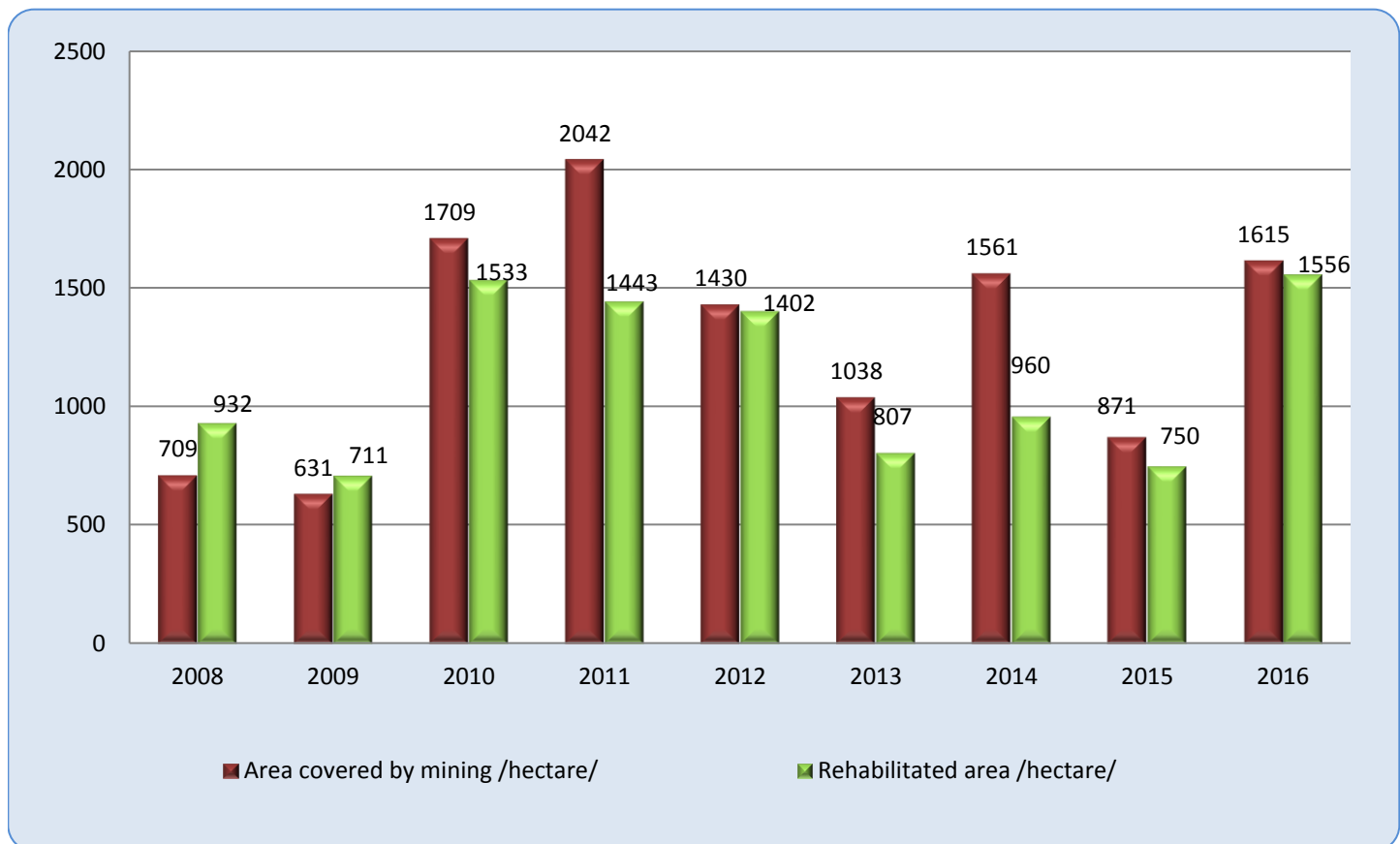
Source: [www.lndmin.com](http://www.lndmin.com), [www.umetal.com](http://www.umetal.com) [www.sxcoal.com](http://www.sxcoal.com)



## 2.10. Rehabilitation work by mining license holders, 2008-2016

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	1615	<b>27068</b>
2	Rehabilitated area /hectare/	11527	932	711	1533	1443	1402	807	960	750	1556	<b>20065</b>
3	Expenses for rehabilitation	24805	7683	8300	9657	7013	14808	7382	9212	4019	6369	<b>92879</b>
4	Area covered by technical rehabilitation /hectare/	5381	823	580	1290	480	1177	532	523	589	1271	<b>11375</b>
5	Area covered by biological rehabilitation /hectare/	4024	670	300	520	521	378	370	322	320	702	<b>7425</b>
6	Environmental expenses /mln.MNT/	12019	3592	4158	5708	3323	8597	3876	11683	8597	7153	<b>61553</b>

## 2.11. Mined and rehabited area, 2008-2016



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 Feb 12, 2018/

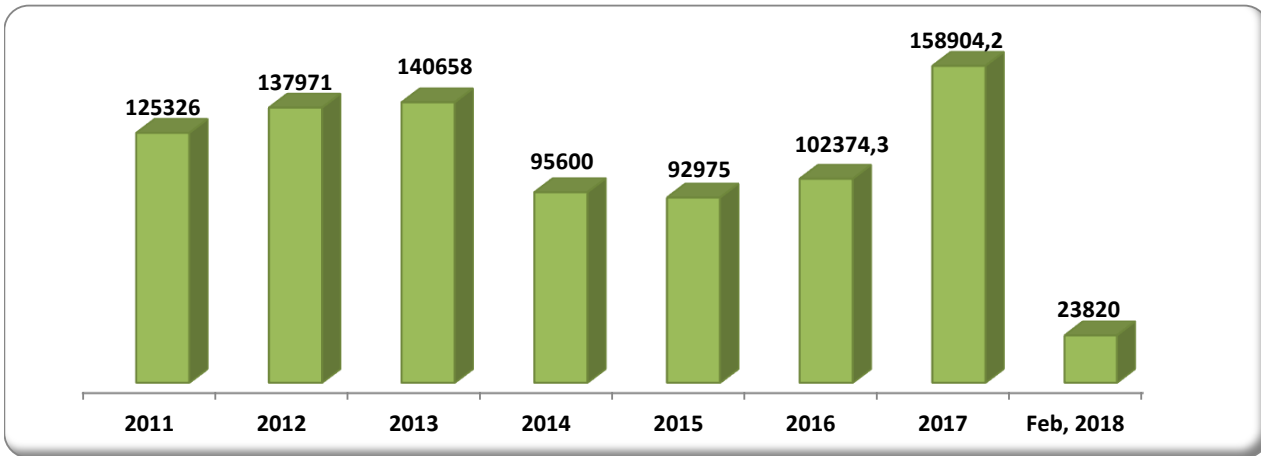
№	Company name	Exchange	Marking	Money unit	The average price of the shares						Market value, Feb 12, 2018
					2017 1st quarter	2017 2nd quarter	2017 3rd quarter	2017 4th quarter	2017	2018 Jan 01-Feb 12	
1	Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	3,37	2,7	3,09	3,15	3,08	3,23	5.45B
2	Peabody Energy Corporation	NYQ	BTU	USD	0	24,82	28,21	32,46	28,5	39,88	4.99B
3	Rio Tinto plc	LSE	RIO.L	GBp	3,392	3,116	3,507	3,622	3,412	3,975	68.22B
4	Mongolia Energy Corporation	HKG	0276.HK	HKD	0,29	0,24	0,23	0,22	0,25	0,2	349.91M
5	Mongolian Mining Corporation	HKG	0975.HK	HKD	0,28	0,21	0,24	0,22	0,24	0,23	2.31B
6	South Gobi Resources Ltd.	HKG	1878.HK	HKD	1,98	1,92	1,68	1,46	1,76	1,31	267.44M
7	Centerra Gold Inc.	TOR	CG.TO	CAD	6,81	7,47	7,48	7,9	7,41	6,29	1.84B
8	Erdene Resource Development Corporation	TOR	ERD.TO	CAD	0,84	1,12	0,84	0,6	0,85	0,52	67.14M
9	Entrée Resources Ltd.	TOR	ETG.TO	CAD	0,66	0,58	0,56	0,61	0,6	0,68	93.73M
10	Prophecy Development Corp.	TOR	PCY.TO	CAD	4,67	3,35	3,44	4,57	4,01	3,7	26.15M
11	Kincora Copper Limited	VAN	KCC.V	CAD	0,49	0,4	0,33	0,33	0,39	0,24	15.84M
12	Altan Rio Minerals Limited	VAN	AMO.V	CAD	0,02	0,02	0,02	0,02	0,02	0,02	1.34M
13	Xanadu Mines Limited	ASX	XAM.AX	AUD	0,22	0,2	0,2	0,28	0,22	0,27	132.45M
14	Aspire Mining Limited	ASX	AKM.AX	AUD	0,02	0,02	0,02	0,01	0,02	0,01	25.26M
15	Haranga Resources Limited	ASX	HAR.AX	AUD	0	0	0	0	0	0	1.45M
16	Tian Pon Resources Limited	ASX	TPO.AX	AUD	0	0	0	0,05	0,05	0,07	30.92M
17	Banpu Public Company Limited	SET	BANPU.BK	THB	19,49	18,56	16,85	17,55	18,11	21,51	107.88B
18	Petro Matad Limited	LSE	MATD.L	GBp	23,44	19,95	9,58	7,48	15,08	8,71	23.51M
19	Wolf Petroleum Limited	ASX	WOF.AX	AUD	0,03	0,03	0,02	0,02	0,03	0,02	11.04M

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)

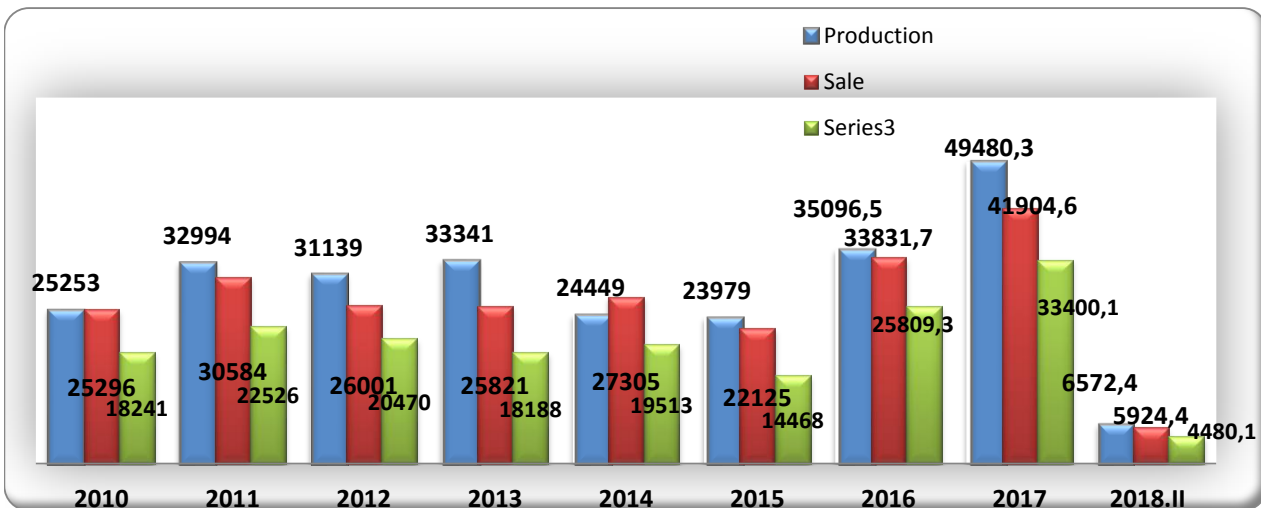


### 3. COAL STATISTICS

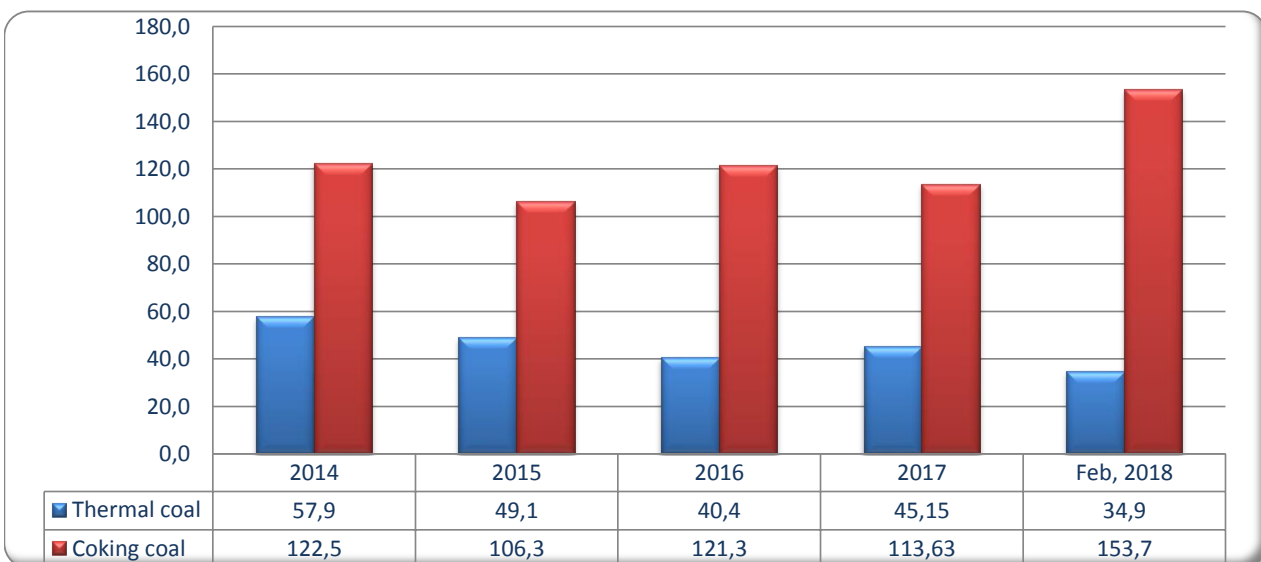
#### 3.1. Striping, ths.m3



#### 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>

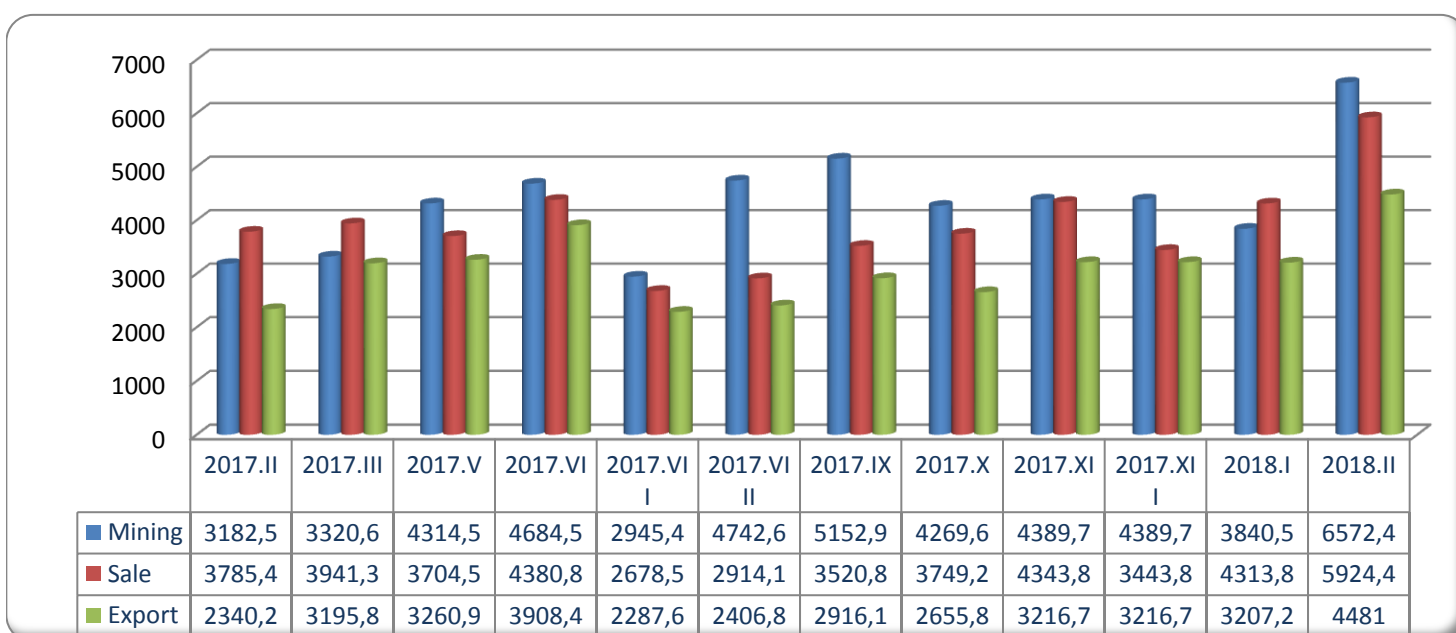




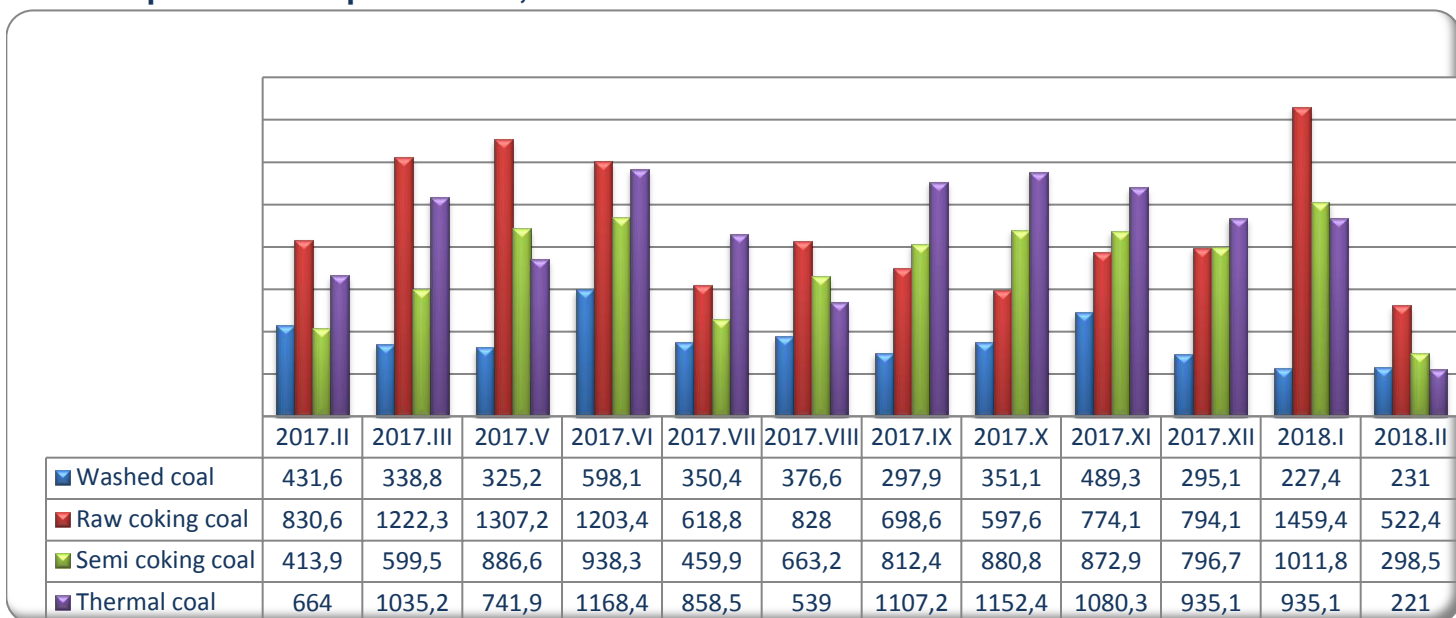
### 3.4. Stripping, mining, sale and export of Coal mines, Jan-Feb, 2018

Type	Stripping /ths.m3/	Mining /ths.t/	Selling /ths.t/	Export /ths.t/
<b>Total</b>	<b>158 904,2</b>	<b>41 560,2</b>	<b>34 815,2</b>	<b>28 429,2</b>
Energy coal mines	<b>28 764,0</b>	<b>5 703,4</b>	<b>814,5</b>	
Export coal mines	<b>127 873,6</b>	<b>35 417,6</b>	<b>28 429,2</b>	<b>28 429,2</b>
Local coal mines	<b>2 636,3</b>	<b>439,9</b>	<b>5 571,5</b>	

### 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

Mar 05, 2018

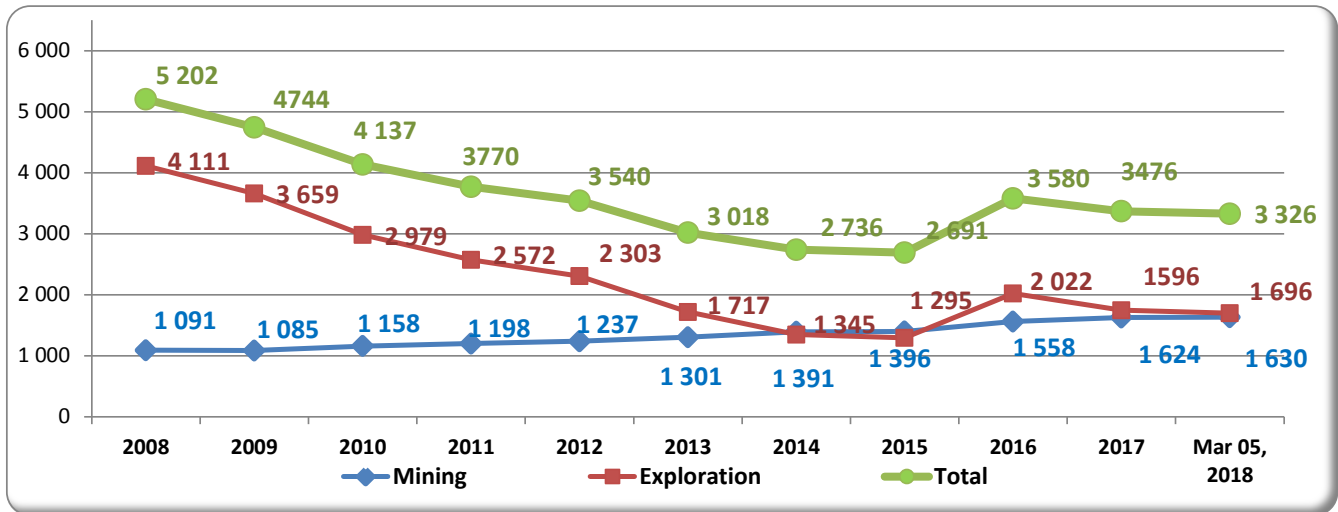
№	Aimags and capital city	Total			Thereof:					
					Mining			Exploration		
		Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory
1	Arkhangai	36	31,3	0,6	26	12,6	0,23	10	18,7	0,34
2	Bayan-Ulgii	75	232,1	5,1	25	10,6	0,23	50	221,4	4,84
3	Bayankhongor	179	483,6	4,2	86	66,5	0,58	93	417,1	3,61
4	Bulgan	123	243,3	5,0	67	34,3	0,71	56	209,0	4,29
5	Uvurkhangai	53	124,5	2,0	29	15,8	0,25	24	108,6	1,73
6	Govi-Altai	181	953,5	6,7	47	67,5	0,48	134	886,0	6,25
7	Govisumber	17	58,7	10,6	12	38,7	6,99	5	20,0	3,60
8	Darkhan Uul	82	20,7	6,3	67	9,3	2,85	15	11,4	3,49
9	Dornogovi	413	1752,8	16,0	171	213,8	1,95	242	1539,1	14,07
10	Dornod	179	570,7	4,6	69	57,2	0,46	110	513,5	4,16
11	Dundgovi	223	893,4	12,0	96	156,6	2,10	127	736,8	9,87
12	Zavhan	89	557,6	6,8	8	13,8	0,17	81	543,7	6,58
13	Umnugovi	224	1640,9	9,9	98	532,7	3,22	126	1108,2	6,71
14	Orkhon	9	11,0	13,1	9	11,0	13,12	0	0,0	0,00
15	Sukhbaatar	107	460,4	5,6	61	49,9	0,61	46	410,5	4,98
16	Selenge	198	120,5	2,9	142	37,5	0,90	56	83,0	2,00
17	Tuv	455	485,5	6,6	305	144,3	1,95	150	341,2	4,61
18	Uvs	181	685,6	9,9	42	17,3	0,25	139	668,3	9,60
19	Ulaanbaatar	184	14,1	3,0	170	12,6	2,65	14	1,5	0,32
20	Khuvsgul	30	92,6	0,9	20	10,8	0,11	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	531,2	6,6	107	40,7	0,50	152	490,6	6,08
<b>Total</b>		<b>3326</b>	<b>10381,5</b>	<b>6,6</b>	<b>1630</b>	<b>1566,9</b>	<b>1,00</b>	<b>1696</b>	<b>8814,62</b>	<b>5,62</b>

The total area of Mongolia is 1.56 million hectares

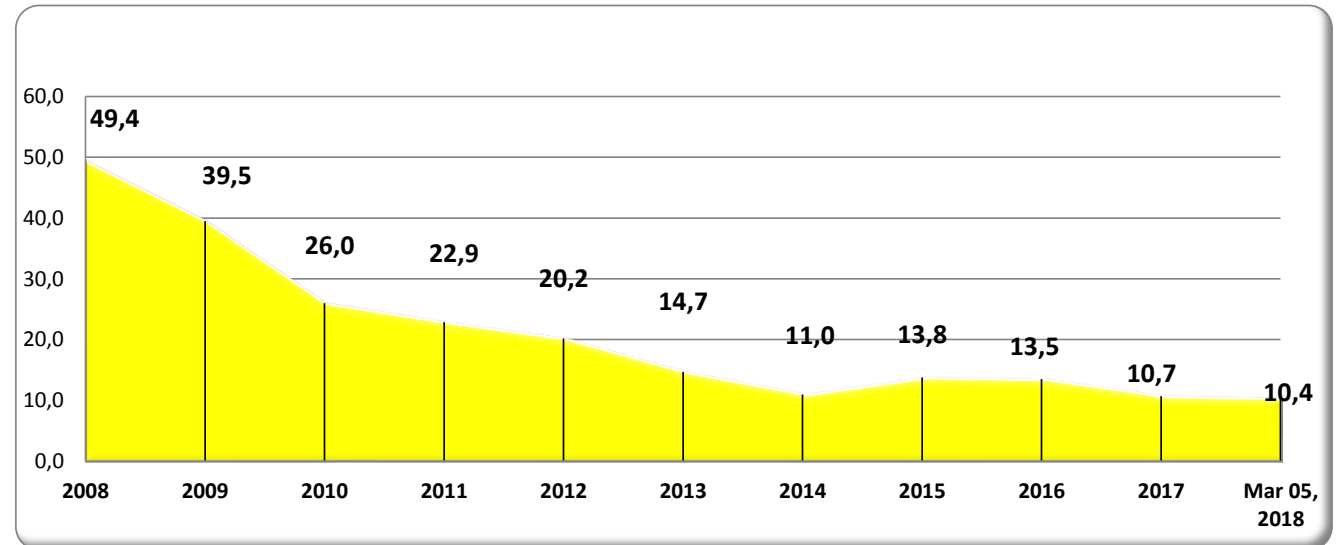
Explanation: Some licenses are crossing the boundaries of more than one aimag, thus increasing the number of each aimag.



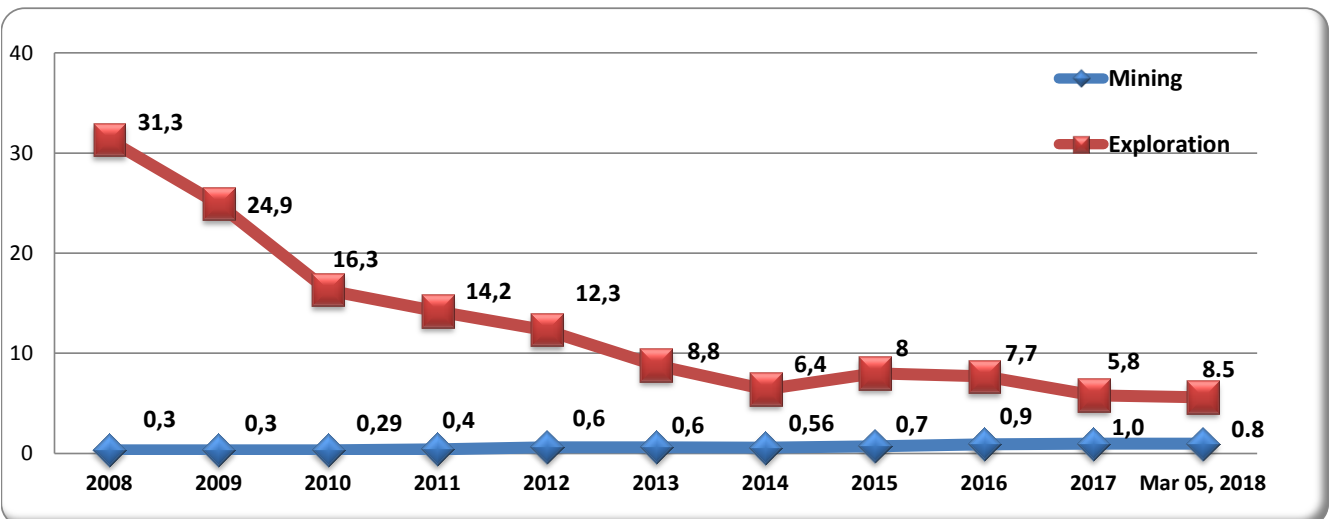
#### 4.2. Number of valid licenses, 2008-Mar 05, 2018



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



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

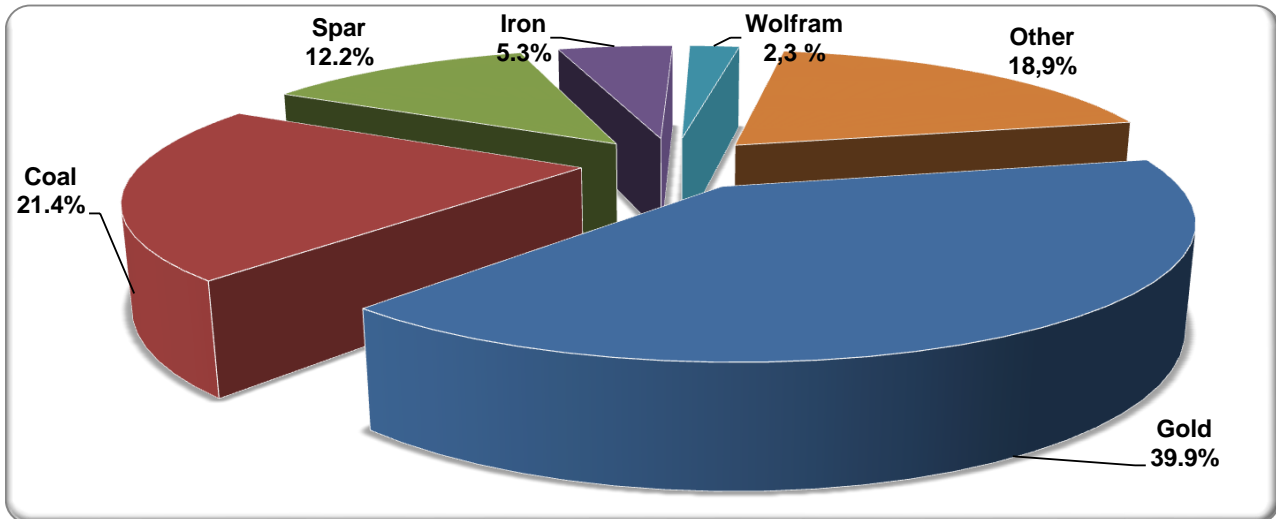
/Overlap/

Mar 05, 2018

Nº	Name of area	Area /mln.hectare/	Percentage of total area
1	Valid mining licensed area	1,6	1,0%
2	Valid exploration licensed area	8,9	5,7%
3	State protected area	29,1	18,6%
4	Special purpose area	28,1	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%

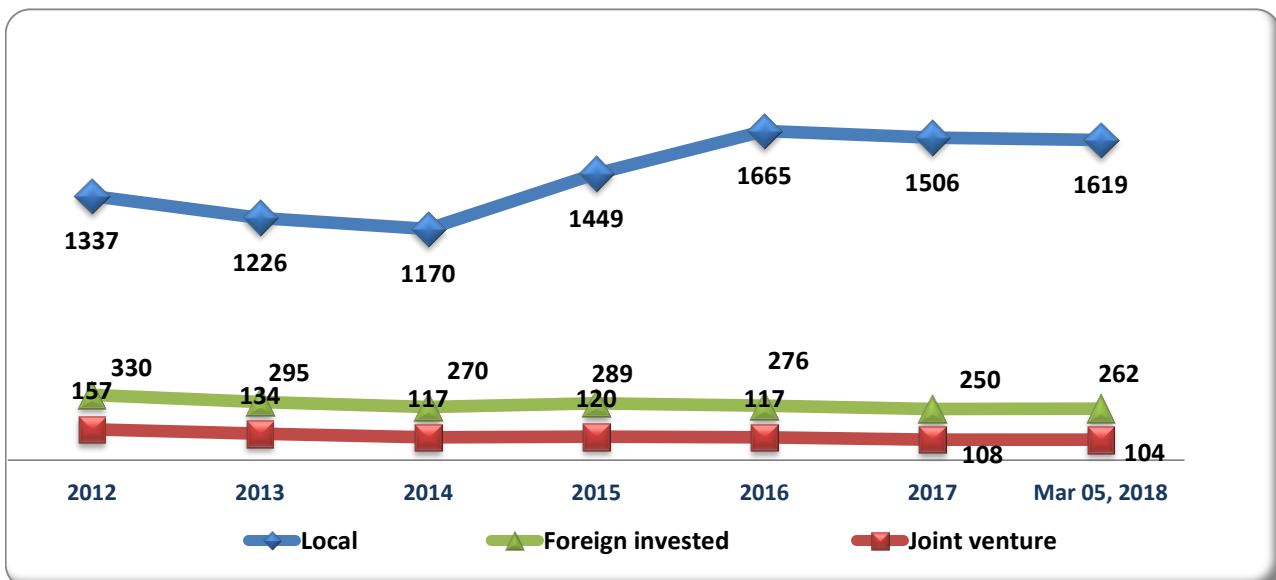
#### 4.6. Mining licenses by Minerals

Mar 05, 2018



#### 4.7. License holders by investors,

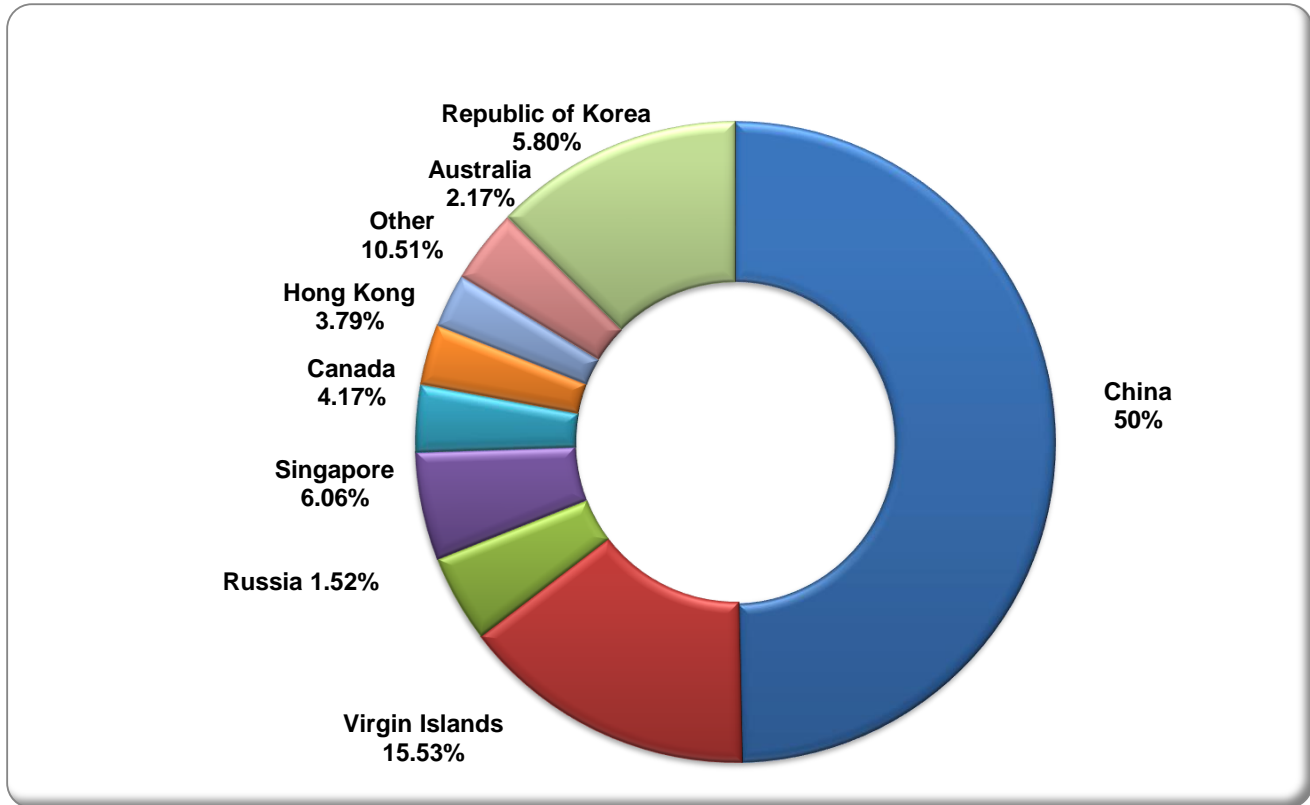
Mar 05, 2018



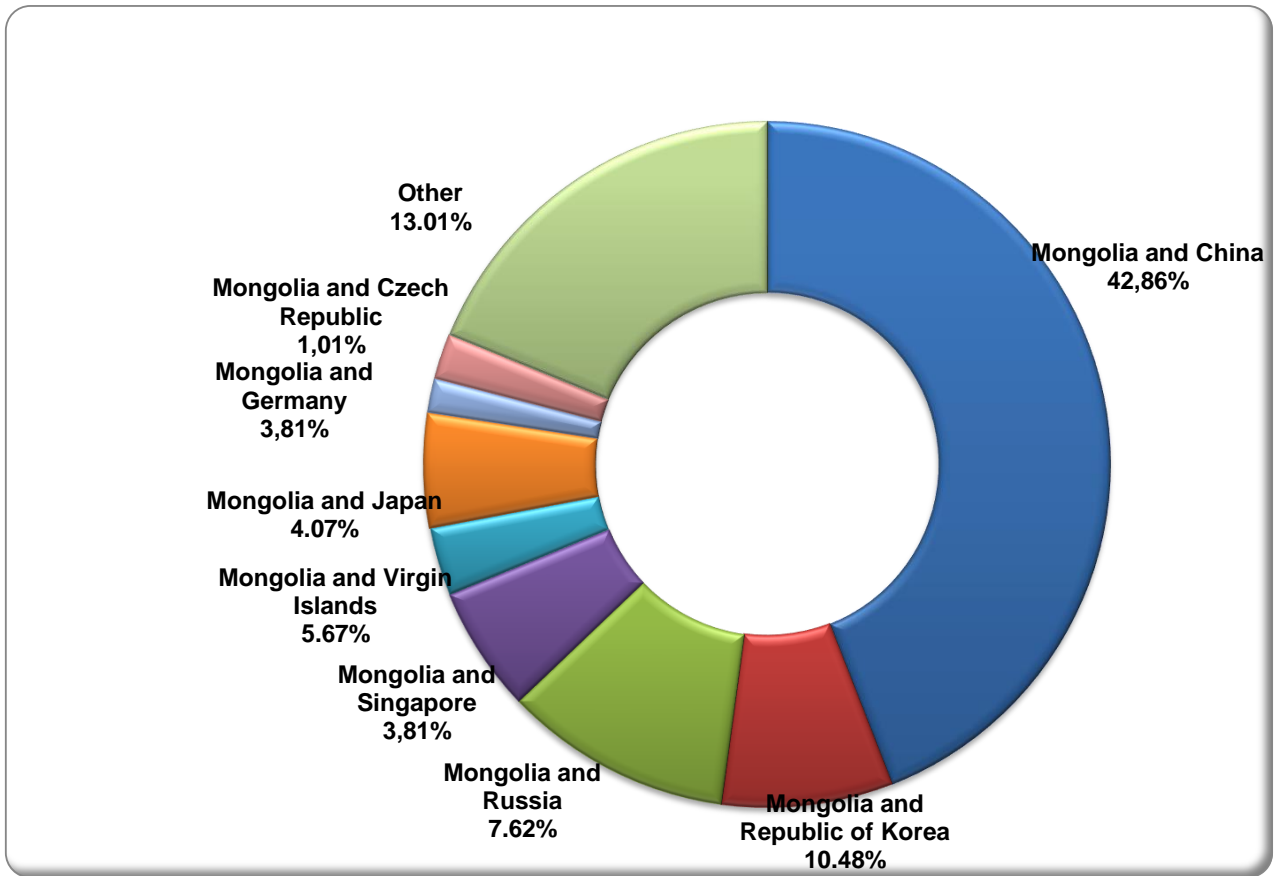
Source: Computerized mining cadastre system, MRPAM



**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

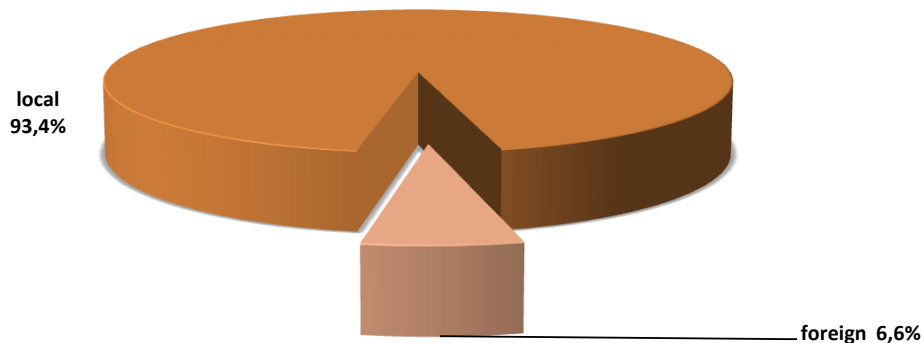




#### 4.10. Origin of license holders

Name of Country		Holder		License		Area /hectare/	
		Number	Percent	Number	Percent	Hectare	Percent
	<b>Total</b>	<b>1862</b>	<b>100,0%</b>	<b>3202</b>	<b>100,00%</b>	<b>11 045 630,3</b>	<b>100,00%</b>
1	Mongolia	1506	0,808808	2517	0,78607121	8448249,76	76,48%
2	China	156	0,083781	221	0,06901936	619170,48	5,61%
3	Virgin Islands	46	0,024705	122	0,03810119	403975,32	3,66%
4	Republic of Korea	22	0,011815	79	0,02467208	506085,21	4,58%
5	Singapore	21	0,011278	34	0,01061836	111173,51	1,01%
6	Russia	15	0,008056	46	0,01436602	27254,41	0,25%
7	Hong Kong	14	0,007519	35	0,01093067	276171,89	2,50%
8	Canada	14	0,007519	31	0,00968145	227895,04	2,06%
9	Japan	7	0,003759	9	0,00281074	38756,48	0,35%
10	Australia	5	0,002685	7	0,00218613	21852,83	0,20%
11	Germany	5	0,002685	7	0,00218613	8176,6	0,07%
12	Holland	5	0,002685	8	0,00249844	8857,3	0,08%
13	Great Britain	4	0,002148	8	0,00249844	20095,77	0,18%
14	Luxenburg	4	0,002148	20	0,0062461	130321,88	1,18%
15	Bulgaria	4	0,002148	6	0,00187383	19669,24	0,18%
16	USA	3	0,001611	6	0,00187383	7513,43	0,07%
17	Czech Republic	3	0,001611	3	0,00093691	24035,96	0,22%
18	Bermud	2	0,001074	3	0,00093691	7314,33	0,07%
19	Ukraine	2	0,001074	2	0,00062461	2340,6	0,02%
20	Switzerland	1	0,000537	3	0,00093691	25263,09	0,23%
21	New Zealand	1	0,000537	2	0,00062461	2416,53	0,02%
22	Poland	1	0,000537	2	0,00062461	227,85	0,00%
23	Hungary	1	0,000537	1	0,0003123	6467,68	0,06%
24	Barbados	1	0,000537	1	0,0003123	33,53	0,00%
25	Seychelles	1	0,000537	4	0,00124922	10734,57	0,10%
26	Montenegro	1	0,000537	1	0,0003123	244,97	0,00%
27	India	1	0,000537	3	0,00093691	53292,43	0,48%
28	Malaysia	1	0,000537	1	0,0003123	87,42	0,00%
29	Kazakhstan	1	0,000537	1	0,0003123	36390,95	0,33%
30	Belize	1	0,000537	1	0,0003123	1561,28	0,01%

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



Source: Computerized mining cadastre system, MRPAM



#### 4.10. Origin of license holders

Mar 05, 2018

Name of Country		Holder		License		Area /hectare/	
		Number	Percent	Number	Percent	Hectare	Percent
	<b>Total</b>	<b>1986</b>	<b>100,0%</b>	<b>3339</b>	<b>100,00%</b>	<b>10 542 814,3</b>	<b>100,00%</b>
<b>1</b>	Mongolia	1623	0,817220544	2679	0,802336	7981478,2	75,71%
<b>2</b>	China	180	0,090634441	241	0,0721773	542223,3	5,14%
<b>3</b>	Virgin Islands	46	0,023162135	120	0,0359389	396761,06	3,76%
<b>4</b>	Republic of Korea	27	0,013595166	40	0,0119796	115362,77	1,09%
<b>5</b>	Singapore	21	0,010574018	77	0,0230608	502700,5	4,77%
<b>6</b>	Russia	13	0,006545821	35	0,0104822	271845,76	2,58%
<b>7</b>	Hong Kong	13	0,006545821	29	0,0086852	195733,98	1,86%
<b>8</b>	Canada	13	0,006545821	29	0,0086852	195733,98	1,86%
<b>9</b>	Japan	7	0,003021148	11	0,0032944	51464,53	0,49%
<b>10</b>	Australia	6	0,003021148	7	0,0020964	13864	0,13%
<b>11</b>	Germany	6	0,003021148	7	0,0020964	13864	0,13%
<b>12</b>	Holland	5	0,002517623	22	0,0065888	133509,8	1,27%
<b>13</b>	Luxenburg	4	0,002014099	7	0,0023959	20095,77	0,19%
<b>14</b>	Great Britain	4	0,002014099	8	0,0020964	19669,24	0,19%
<b>15</b>	Czech Republic	3	0,001510574	3	0,0008985	24035,96	0,23%
<b>16</b>	USA	2	0,001007049	4	0,001198	3167,83	0,03%
<b>17</b>	Bermud	2	0,001007049	4	0,001198	3167,83	0,03%
<b>18</b>	Ukraine	2	0,001007049	2	0,000599	291,84	0,00%
<b>19</b>	Poland	1	0,000503525	1	0,0002995	33,53	0,00%
<b>20</b>	Seychelles	1	0,000503525	2	0,000599	227,85	0,00%
<b>21</b>	Hungary	1	0,000503525	1	0,0002995	3700,94	0,04%
<b>22</b>	Bulgaria	1	0,000503525	1	0,0002995	3700,94	0,04%
<b>23</b>	Switzerland	1	0,000503525	1	0,0002995	36390,95	0,35%
<b>24</b>	Barbados	1	0,000503525	4	0,001198	10734,57	0,10%
<b>25</b>	New Zealand	1	0,000503525	1	0,0002995	87,42	0,00%
<b>26</b>	Malaysia	1	0,000503525	2	0,000599	2416,53	0,02%
<b>27</b>	Kazakhstan	1	0,000503525	1	0,0002995	551,23	0,01%

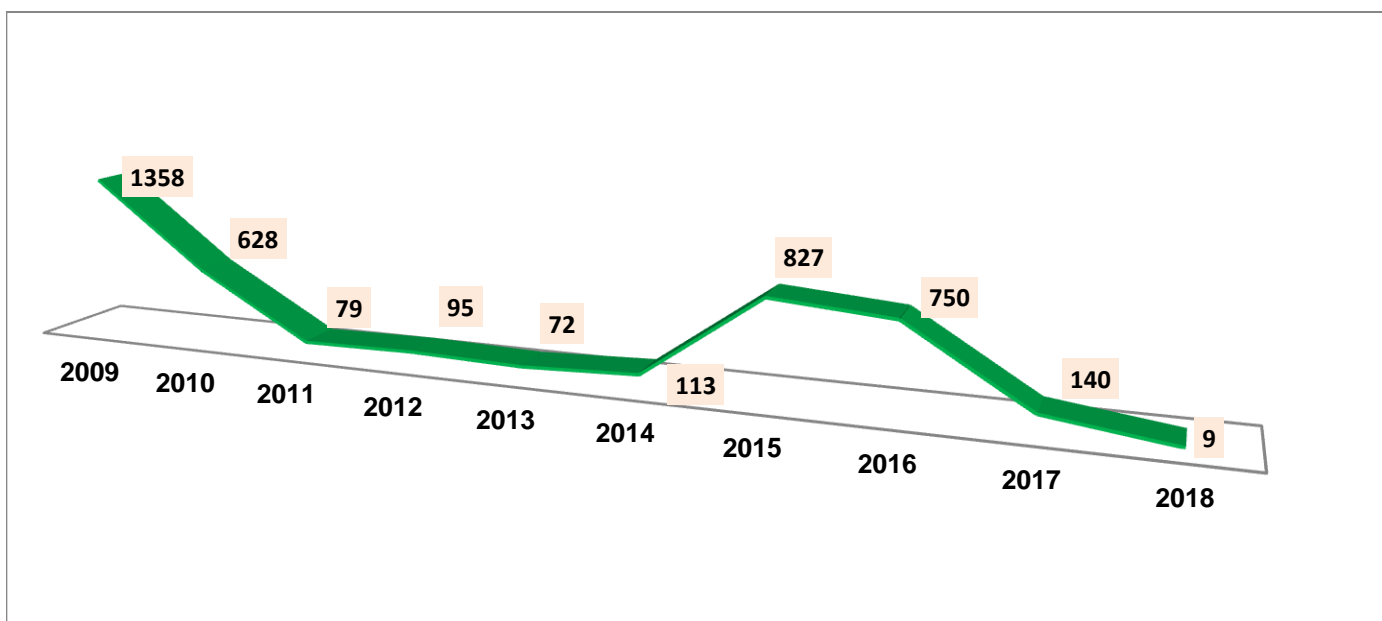
Source: Computerized mining cadastre system, MRPAM



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

Type of registration	2010	2011	2012	2013	2014	2015	2016	2017	Feb, 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>140</b>	<b>9</b>
<i>Mining</i>	90	79	95	72	97	91	93	65	5
<i>Exploration</i>	145	0	0	0	2	697	629	44	4
<i>Selection processed</i>	—	—	—	—	14	39	28	31	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>72</b>	<b>17</b>
<i>Mining</i>	6	4	7	16	13	25	25	9	0
<i>Exploration</i>	99	85	134	130	106	125	141	63	17
<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>220</b>	<b>23</b>
<i>Mining</i>	39	65	139	43	14	10	37	35	2
<i>Exploration</i>	419	210	131	304	109	163	204	185	21
<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>141</b>	<b>11</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>122</b>	<b>20</b>
<i>Mining</i>	59	58	47	8	38	46	50	58	13
<i>Exploration</i>	389	383	153	0	13	42	96	64	7
<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>41</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>36</b>	<b>8</b>
<i>Mining</i>	36	39	22	42	34	22	27	32	8
<i>Exploration</i>	14	23	16	19	6	0	2	4	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>36</b>	<b>8</b>
<i>Mining</i>		8	15	29	24	19	12	35	7
<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>18</b>	<b>2</b>
<i>Mining</i>		29	16	9	7	10	15	12	2
<i>Exploration</i>		65	40	6	4	9	20	6	0

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

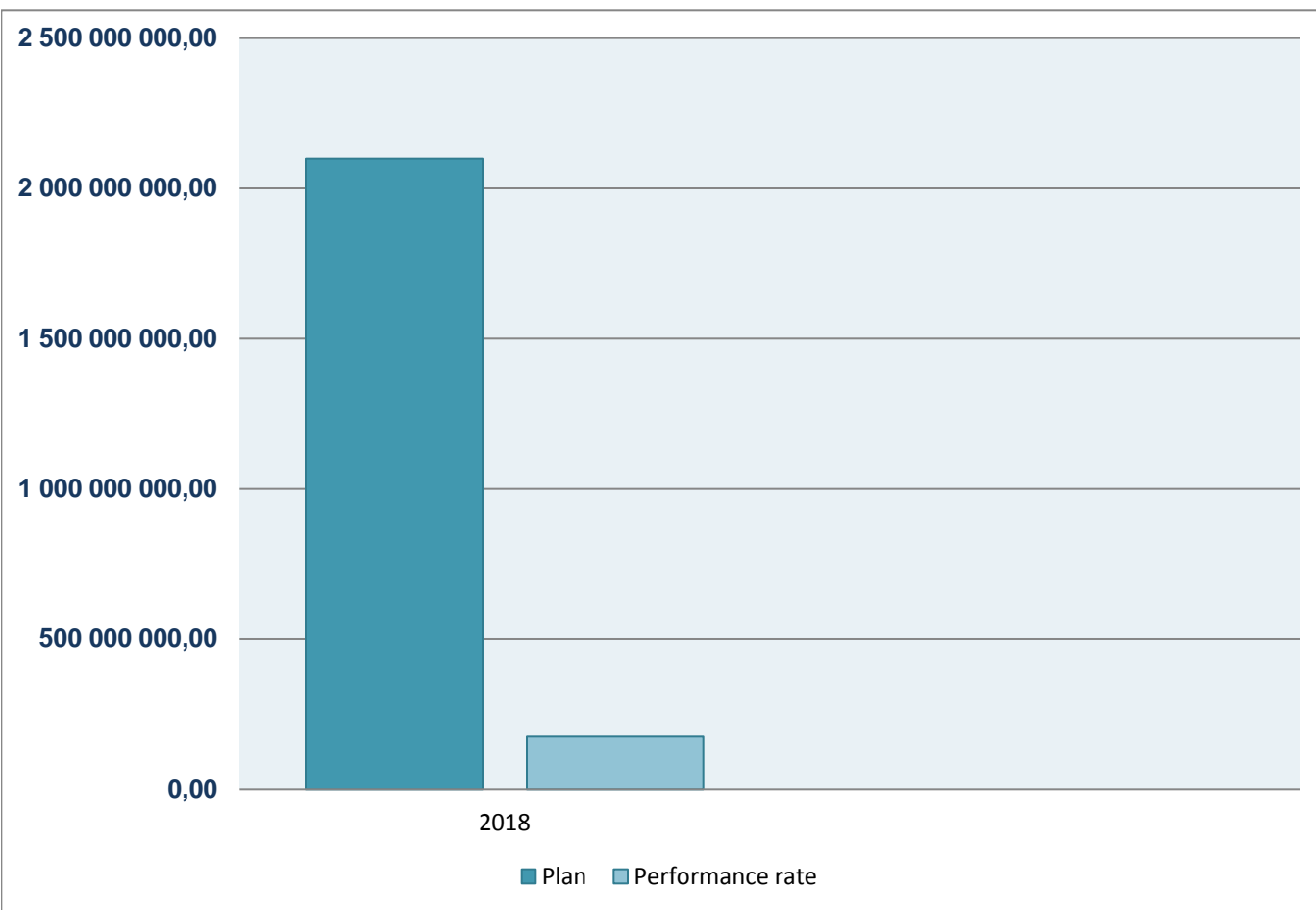


Source: Computerized mining cadastre system, MRPAM



## 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 175,444,444 was paid back by the February of 2018.**

**/ in increasing amount /**

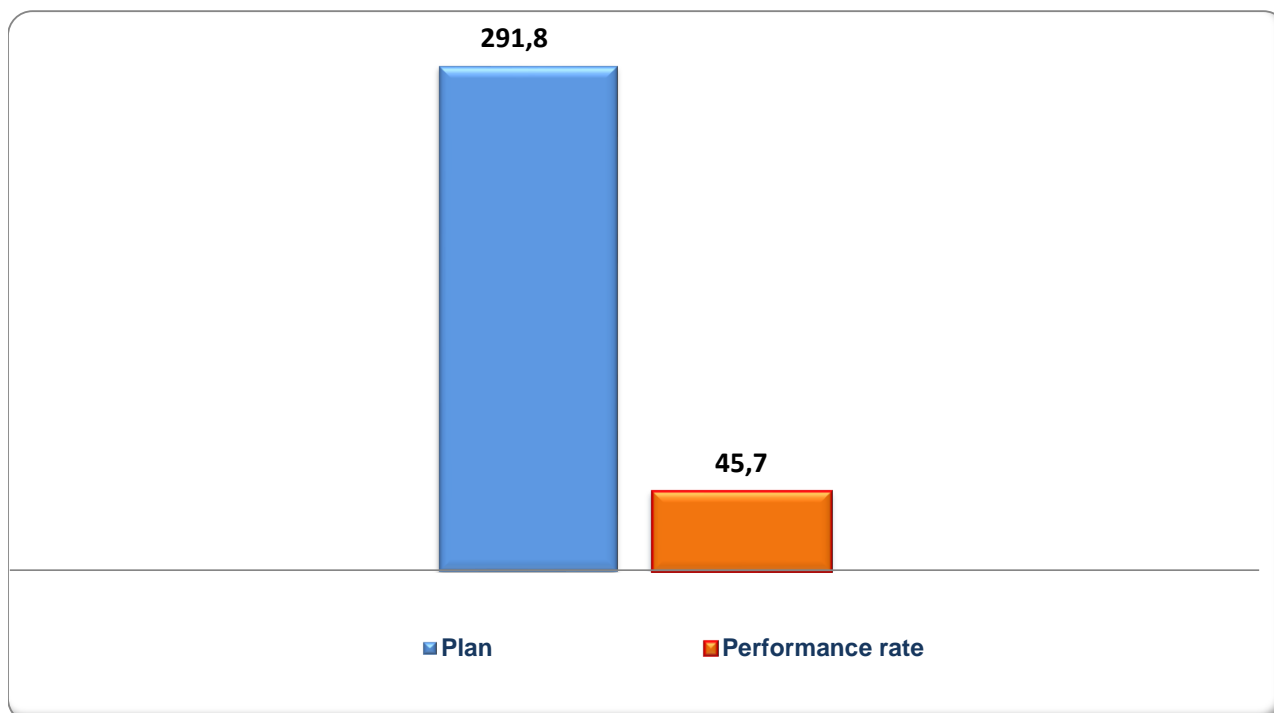
## 6.2. Budget revenue performance, MNT, Feb, 2018

Income type		Plan of 2018	Performance rate, Feb, 2018	Performance rate, Jan-Feb, 2018	Performance rate, 2018, %
<b>№</b>	<b>State budget revenues</b>	<b>291 808 115 046</b>	<b>23 742 543 812</b>	<b>45 730 681 592</b>	<b>15,67%</b>
1	License fee	37 000 000 000	1 743 527 123	4 281 881 141	11,57%
2	Reimbursement	2 100 000 000	118 070 637	175 444 444	8,35%
3	Petroleum revenues	223 448 349 919	20 223 704 370	39 432 839 052	17,65%
4	Other revenues /Service revenues/	6 109 765 127	1 657 240 682	1 840 516 955	30,12%
5	Own income /Selection of tender/	23 150 000 000	-	-	0%

### Other revenues

№	Revenue type	Plan of 2018	Performance rate, Feb, 2018	Performance rate, Feb, 2018	Performance rate, Feb, 2018, %
1	Service revenue /mineral resources/	3 717 273 977	38 771 063	219 378 560	5,90%
2	Service revenue /petroleum/	2 392 491 150	1 618 469 619	1 621 138 395	67,76%

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



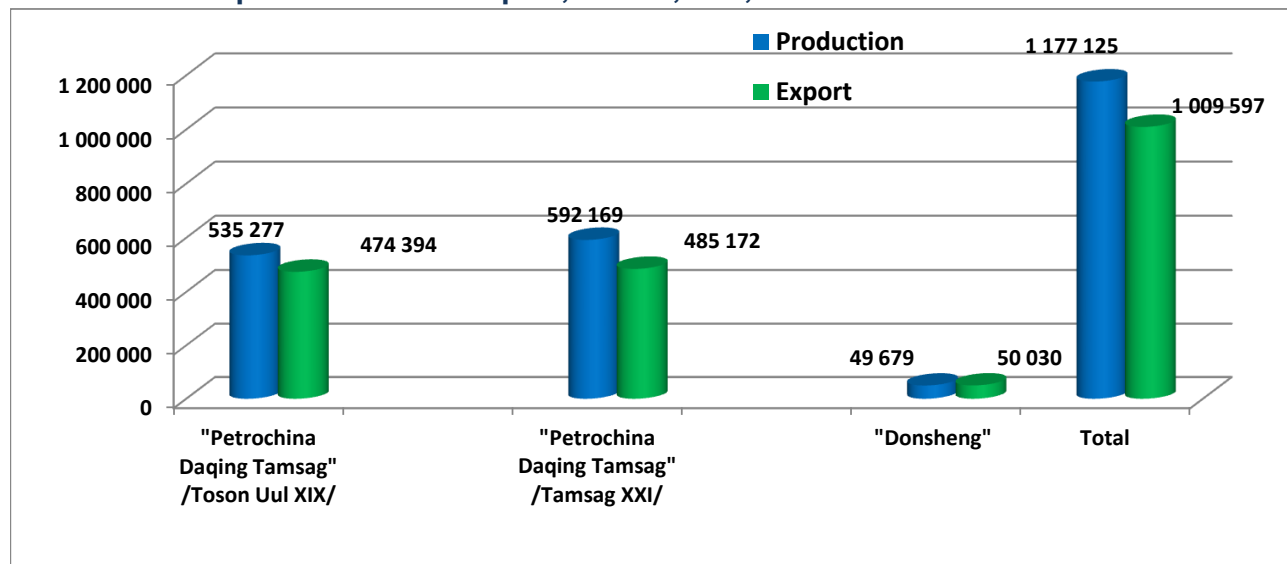
Source: Administration and Management Division, MRPAM





## 7. PETROLEUM STATISTICS

### 7.1. Petroleum production and export, barrel, Feb, 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	535 277	592 169	49 679	1 177 125
2	Export	474 394	485 172	50 030	1 009 597

### 7.3. Petroleum products importing, Feb, 2018 /tn/

No	Countries	Octane gasoline, down from 90	Octane gasoline, more than 90	Diesel	TS-1	Other /oil, fuel oil, bitumen and gas/	Total
1	Russia	3 274	22 257	70 345	2 844	17 187	115 906
2	China	-	-	-	-	33	33
3	Korea	-	-	-	-	10 918	10 918
4	Other countries	-	-	-	-	741	741
	<b>Total</b>	<b>3 274</b>	<b>22 257</b>	<b>70 345</b>	<b>2 844</b>	<b>28 879</b>	<b>127 598</b>

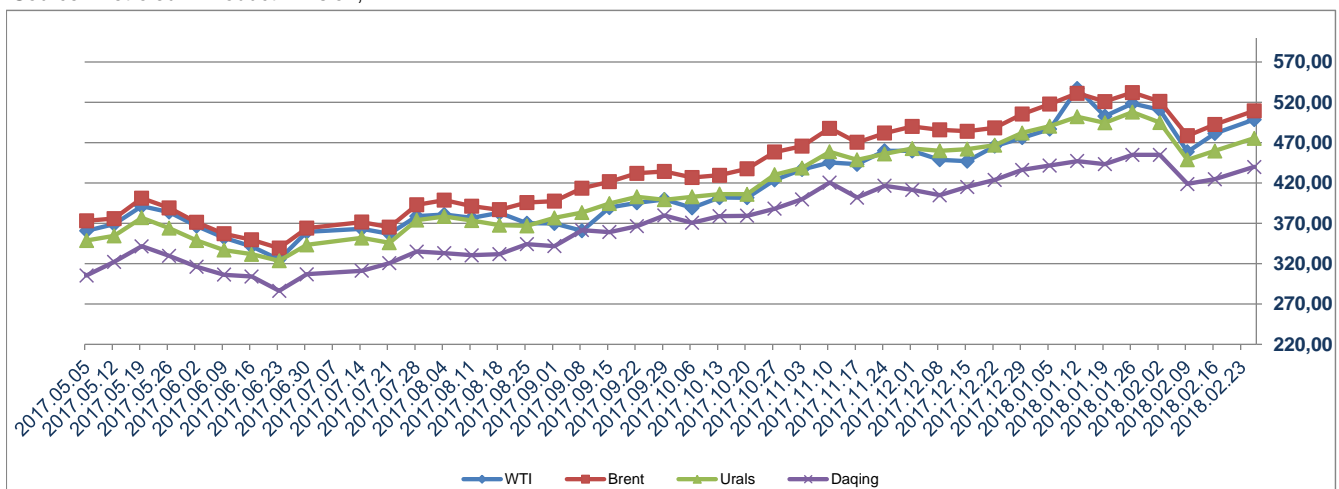
Source : Petroleum Product Division, MRPAM

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

US\$/tonn

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%

Source: Petroleum Product Division, MRPAM





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

/MNT/

Number	Zone name	Pillar c	Province, city	Type			
				A-80	AI-92	AI-95	Diesel
1	Western region	Khovd, Uliastai	Bayan-Ulgii	1650	1800		2080
2			Govi-Altai	1700	1810		2140
3			Zavkhan	1650	1790	2100	2150
4			Uvs	1670	1850	1850	2050
5			Hovd	1760	1860	2075	2100
The average price of western region				<b>1 686</b>	<b>1 822</b>	<b>2 008</b>	<b>2 104</b>
6	Hangai region	Kharkhorin, Erdenet	Arkhangai	1690	1790	2160	2140
7			Bayankhongor	1680	1810		2140
8			Bulgan	1630	1770	2070	2040
9			Uvurkhangai	1660	1790	2300	2100
10			Orkhon	1620	1760	2070	2040
11			Selenge	1530	1740	2070	2020
12			Khuvsgul	1670	1850	2180	2080
The average price of hangai region				<b>1 640</b>	<b>1 787</b>	<b>2 142</b>	<b>2 080</b>
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1480	1660	2050	2010
14			Tuv	1520	1740	2040	2 020
15			Darkhan	1580	1730	2040	2020
16			Govisumber	1640	1780	2050	2100
17			Dundgovi	1650	1780	2050	2100
18			Dornogovi	1650	1780	2050	2100
19			Umnugovi	1650	1850	2050	2150
20			Zamin Uud	1780	1980	2150	2175
The average price of central region				<b>1 619</b>	<b>1 788</b>	<b>2 060</b>	<b>2 084</b>
21	Eastern region	Choibalsan, Undurkhaa	Dornod	1610	1750	2100	2100
22			Sukhbaatar	1650	1790	2100	2160
23			Khentii	1630	1780	2050	2100
The average price of eastern region				<b>1 630</b>	<b>1 773</b>	<b>2 083</b>	<b>2 120</b>
<b>State average price</b>				<b>1 644</b>	<b>1 792</b>	<b>2 073</b>	<b>2 097</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	2 050	2 010
2	"Sod Mongol" LLC	1 480	1 660	2 050	2 010
3	"Magnai trade" LLC	1 480	1 660	2 040	2 010
4	"Petrovis" LLC	1 480	1 660	2 050	2 010
<b>Average price</b>		<b>1 505</b>	<b>1 678</b>	<b>2 048</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

### 8.1. The average data of exported coal

Feb, 2018

Type of coal	Name	Classification	Border name	Entities	Deposits name	Quality Indicators						
	Raw coal	Anthracite	Anthracite	Khangai	Ikh Gobi Energy	Mandakh nuur	-	-	-	-	-	-
Coal		Coking	Khangai	COAL LLC	Ail Bayan	-	-	-	-	-	-	-
			Gashuun Sukhait	NDns LLC	Barrun, zuun tsankhi	2,6	19,0	24,5	0,65	6455	5,5	61,1
				TT LC 4	Tavan tolgoi 4th orifice	5,3	16,2	28,5	1,56	6587	7,0	72,5
		Weak-coking	Gashuun Sukhait	TT LC 8	Tavan tolgoi 8th orifice	6,2	21,5	34,1	1,45	6250	5,5	61,1
				Shivee Khuren	Usukh Zoog LLC	Khuren shand	3	6,7	41,4	1,15	7009	8,0
			Tsagaan uvuljuu LLC		Baruun noyon Uul	-	-	-	-	-	-	-
			SGS LLC		Nariin Sukhait	4,6	11	38,6	0,69	6316	6,0	74,6
			Chinkhua Mak LC	2,6		26,4	30,2	0,72	5976	4,0	55,0	
		Mak LLC	-	-	-	-	-	-	-	-		
		Non-coking	Gashuun Sukhait	TT LC	Tavantolgoi	5,4	31,8	30,7	1,41	5560	0	0
				NDns LLC	Energy	3,4	23,6	27,7	1,19	5751	0	0
			Shivee Khuren	Usukh zoog LLC	Khuren shand	4,4	31,8	36,2	1,14	5764	0	0
				SGS LLC	Nariin Sukhait	-	-	-	-	-	-	-
				Mak LLC		-	-	-	-	-	-	-
Javkhlant ord				Zangat Uul	20	17,9	35,9	0,31	4278	0	0	
Other		Zamiin Uud	Shtain Coal	Dalan	17,6	20,7	45,4	0,88	5451	0	0	
			CIG LLC	Alagtolgoi	5,4	8,4	40,7	1,38	6579	0	0	
			Chingis's khar alt	Dalan	7,2	21,7	28,9	1,09	5767	0	0	
Brown coal		Bichigt	Erdene Bosgo LLC	Bayantsogt	-	-	-	-	-	-	-	
	Mak LLC		Khoot	-	-	-	-	-	-	-		
Washe coal	Coal	Coking	Gashuun Sukhait	Energy resource LLC	Ukhaa hudag	-	-	-	-	-	-	
			Yarant	Mo and Co LLC	Khoshoot	-	-	-	-	-	-	
		Weak-coking	Gashuun Sukhait	Tumen Zag LLC	Ukhaa hudag	-	-	-	-	-	-	
		Non-coking	Gashuun Sukhait	-	-	-	-	-	-	-	-	

Source: Mining and petroleum examination and testing central laboratory



Mineral Resources and Petroleum Authority of Mongolia