



**MINISTRY OF MINING
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND
PETROLEUM AUTHORITY OF
MONGOLIA**

Mineral Resources and Petroleum Statistics



First half-year report, 2017

www.mrpam.gov.mn

STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM



The Production Sharing Contracts respectively signed with "Empire Gas Mongolia" LLC on Oil Exploration field "Borzon-7", and with "Mongolian Gold" LLC on "Tukhum-10 South" field, and with "Wolf Petroleum" LLC on "Sukhbaatar-17" field.

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

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www.mrpam.gov.mn.

Main indicators

1. Number of valid licenses (First half-year report, 2017)	3476
Mining licenses	1596
Exploration licenses	1880
2. Valid licensed area (First half-year report, 2017)	11,67 mln.ha
Mining licensed area	1,48 mln.ha
Exploration licensed area	10,63 mln.ha
3. Licensed area of Mongolian territory (First half-year report, 2017)	7,40%
Mining licensed area	0,94 %
Exploration licensed area	6,49 %
4. The role of Mining sector in Gross Domestic Product (2017)	13.35% *
5. Mining industry in Gross Industrial Output (2017)	68.78% *
6. Mining production of main products (2017)	
Copper metal concentrate	647,4 mln.t*
Molybdenium metal concentrate	2729,0 t*
Gold	6665,9 kg
Fluorspar concentrate	10,1 ths.t*
Iron ore	1466,7 ths.t*
Zincum concentrate	40,0 ths.t*
7. Main minerals export (First half-year report, 2017)	
Fluorspar ore and concentrate	2740,0 ths.t**
Copper concentrate	732,9 ths.t**
Zinc	57,7 ths.t**
Gold	4470,9 kg**
Coal	19145,4 ths.t**
8. Produced coal (First half-year report, 2017)	26027,9 ths.t
9. Sold coal (First half-year report, 2017)	23219,5 ths.t
10. GS conducted at expense of the state budget (First half-year report, 2017)	13.3 bln.MNT
11. Implementation of approved budget revenue plan (First half-year report, 2017)	42,1%
License fee	42,25%
Petroleum export /First half-year report, 2017/	41,92%
Reimbursement	93,36%

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

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

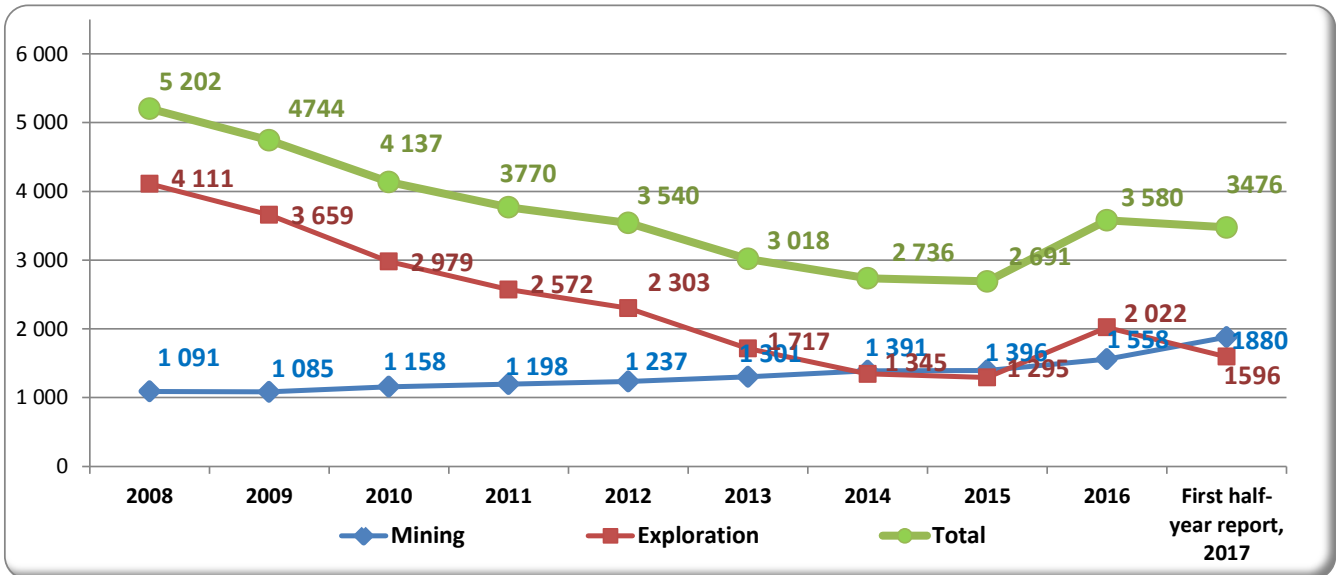
1. Statistics of Mineral licenses and area

1.1. Number of valid licenses and area by provinces

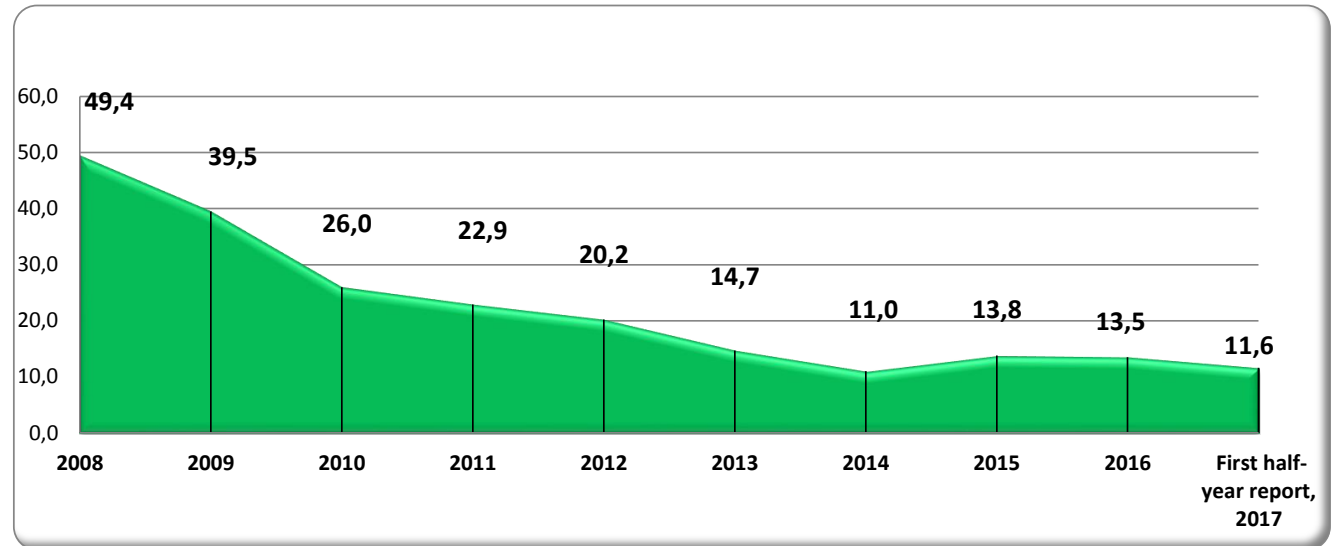
№	Aimags and capital city	Total			Thereof:					
		Number of Licenses	Area /ths.ha/	Percentage of total territory	Mining			Exploration		
					Number of Licenses	Area /ths.ha/	Percentage of total territory	Number of Licenses	Area /ths.ha/	Percentage of total territory
1	Arkhangai	39	75,3	0,0	26	12,6	0,01	13	62,7	0,04
2	Bayan-Ulgii	82	321,6	0,2	25	10,6	0,01	57	311,0	0,20
3	Bayankhongor	182	542,7	0,3	84	58,3	0,04	98	484,4	0,31
4	Bulgan	127	329,8	0,2	66	20,3	0,01	61	309,6	0,20
5	Uvurkhangai	52	112,1	0,1	29	15,8	0,01	23	96,3	0,06
6	Govi-Altai	194	1052,5	0,7	47	67,5	0,04	147	985,0	0,63
7	Govisumber	17	58,7	0,0	12	38,7	0,02	5	20,0	0,01
8	Darkhan Uul	87	23,6	0,0	67	9,0	0,01	20	14,5	0,01
9	Dornogovi	426	1779,0	1,1	167	184,8	0,12	259	1594,2	1,02
10	Dornod	191	643,1	0,4	66	55,1	0,04	125	588,0	0,37
11	Dundgovi	230	889,2	0,7	91	0,1	0,10	139	889,1	0,57
12	Zavhan	92	567,5	0,4	7	12,4	0,01	85	555,2	0,35
13	Umnugovi	241	1806,1	1,2	98	532,7	0,34	143	1273,4	0,81
14	Orkhon	10	11,1	0,0	9	4,2	0,00	1	6,9	0,00
15	Sukhbaatar	111	670,0	0,4	61	49,9	0,03	50	620,1	0,40
16	Selenge	197	143,8	0,1	132	35,0	0,02	65	108,7	0,07
17	Tuv	459	522,9	0,3	296	134,6	0,09	163	388,3	0,25
18	Uvs	211	791,9	0,5	41	15,0	0,01	170	776,8	0,49
19	Ulaanbaatar	191	14,3	0,0	172	12,2	12,20	19	2,1	0,00
20	Khuvsgul	34	107,7	0,1	18	7,6	0,00	16	100,1	0,06
21	Khovd	136	487,7	0,3	30	12,0	0,01	106	475,8	0,30
22	Khentii	271	560,0	0,4	108	38,4	0,02	163	521,6	0,33
	TOTAL	3476	11510,4	7,4	1596	1326,8	1483,00	1880	10183,58	6,49

Source: Computerized mining cadastre system, MRPAM

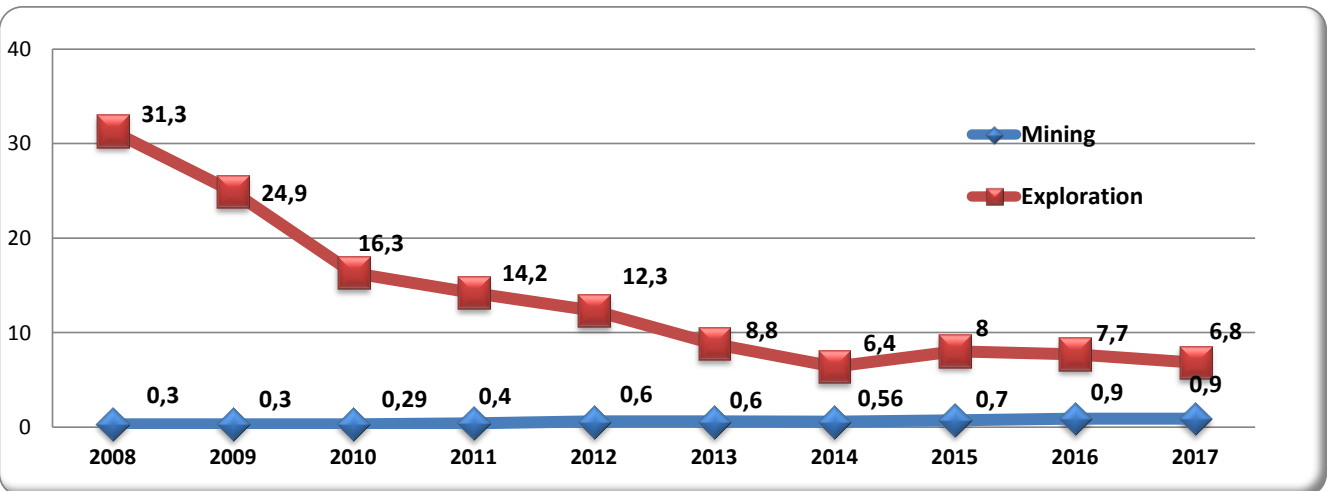
1.2. Number of valid licenses, 2008-First half-year report, 2017



1.3. Valid licensed area, million hectare, 2008-First half-year report, 2017



1.4. Percentage of total area, 2008-2-First half-year report, 2017



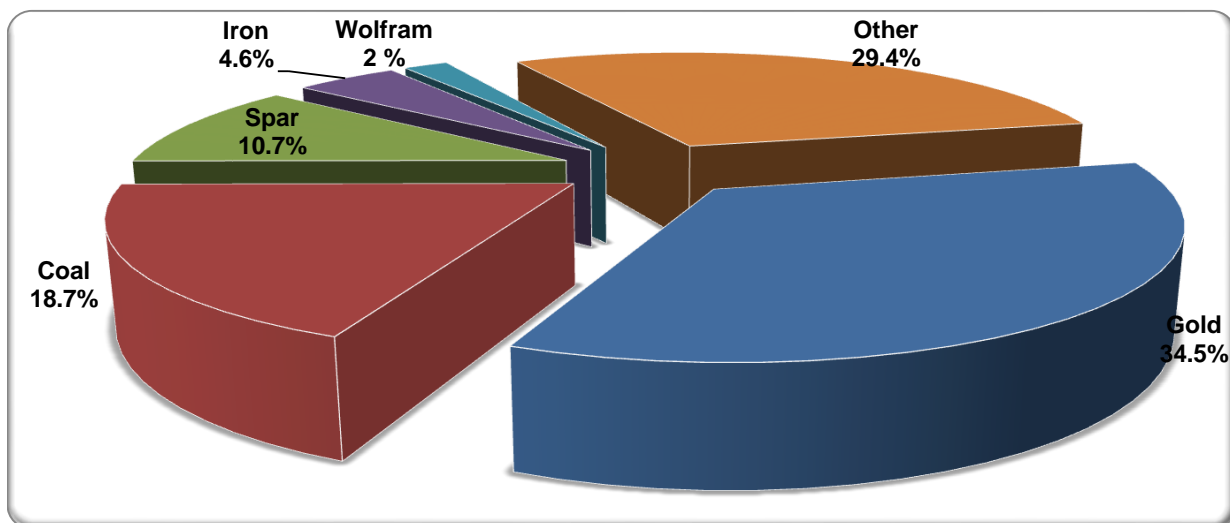
Notes: Exploration licenses stopped issuing since 2010.IV.20
Application for exploration licenses started to receive 2015.I.26

1.5. Area registered in Geology and mining cadastre

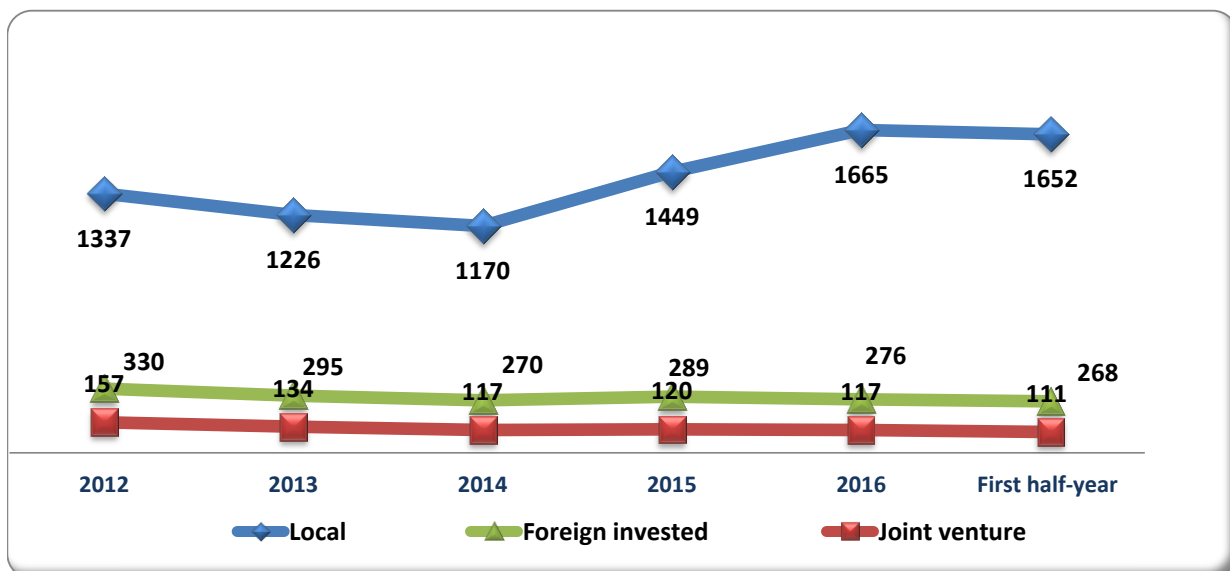
/Overlap/

	Name of area	Area /mln.hectare/	Percentage of total area
1	Valid mining licensed area	1,5	1,0%
2	Valid exploration licensed area	10,1	6,5%
3	State protected area	32,7	20,9%
4	Special purpose area	24,5	15,7%
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%

1.6. Mining licenses by Minerals

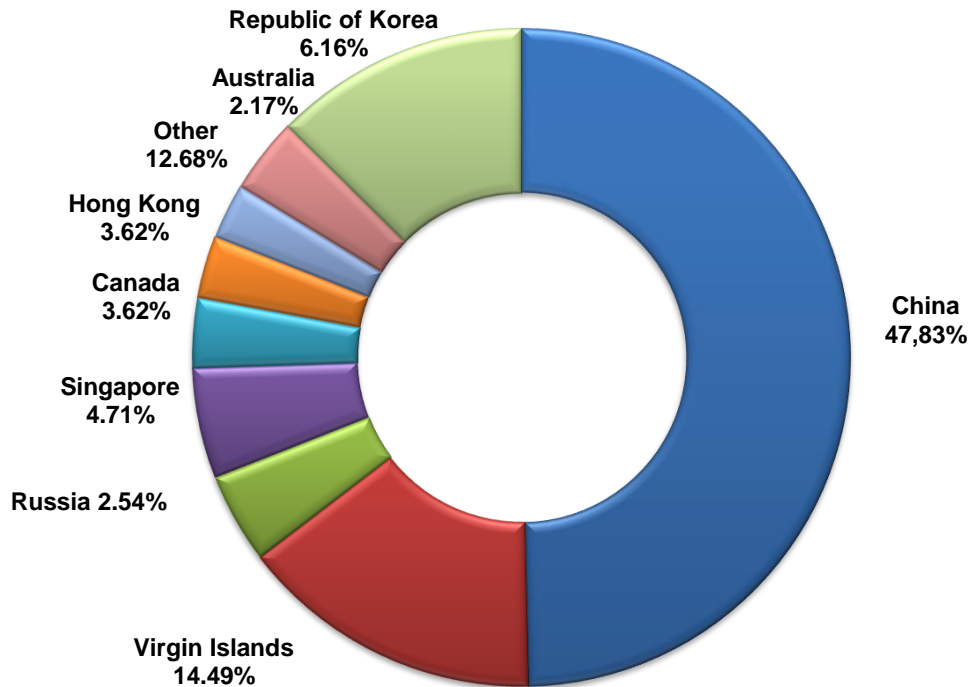


1.7. License holders by investors, First half-year report, 2017

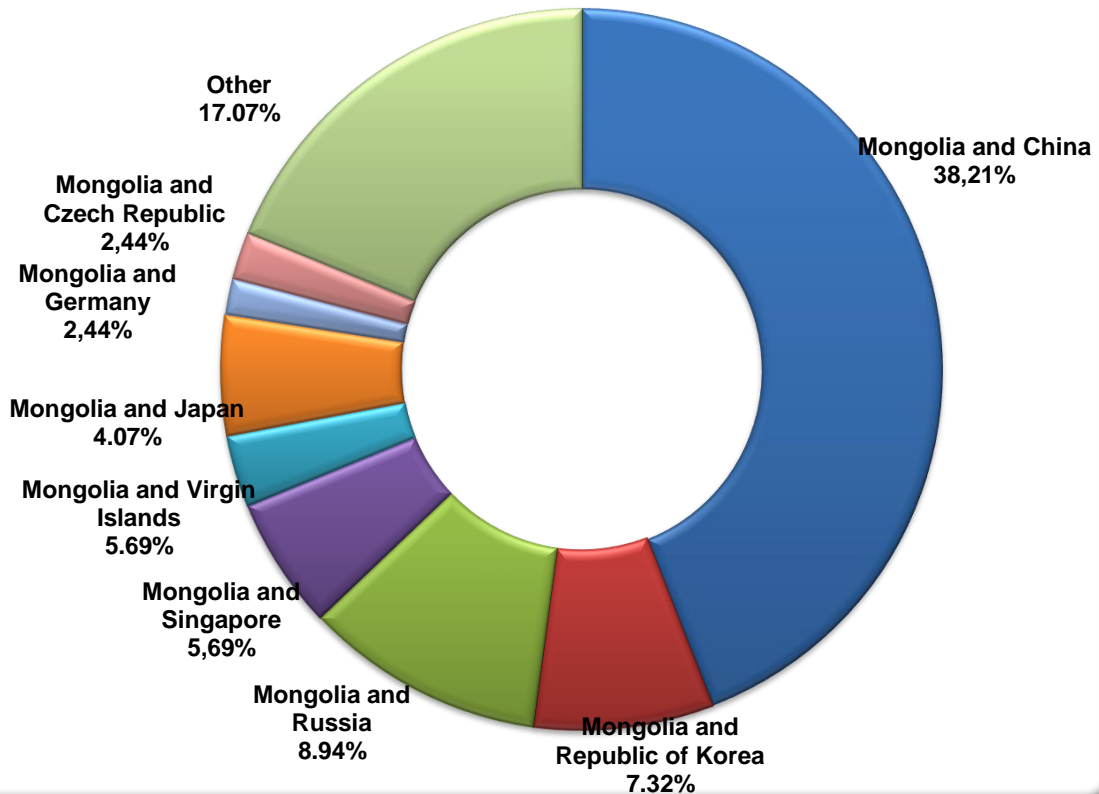


Source: Computerized mining cadastre system, MRPAM

1.8. Composition of foreign invested license holders by countries



1.9. Composition of the joint venture license holders by countries



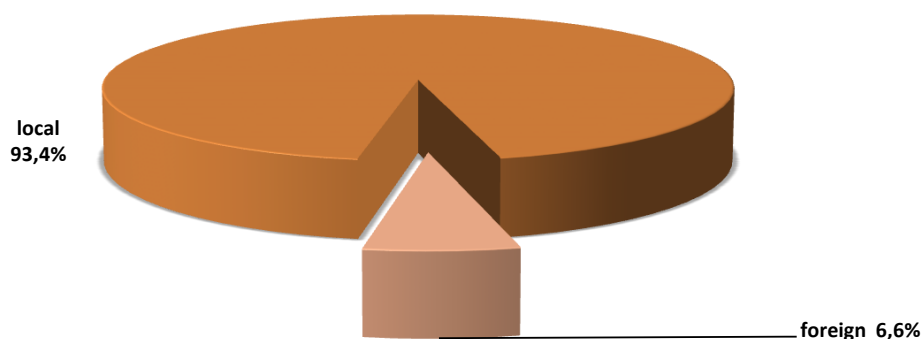
Source: Computerized mining cadastre system, MRPAM

1.10. Origin of license holders

First half-year report, 2017

Name of Country	Holder		License		Area /hectare/	
	Number	Percent	Number	Percent	Hectare	Percent
Total	2031	100,0%	3476	100,00%	11 665 874,2	100,00%
1 Mongolia	1652	0,81339	2745	0,7897008	8752785,63	75,03%
2 China	182	0,08961	251	0,0722094	724896,8	6,21%
3 Virgin Islands	47	0,02314	132	0,0379747	418864,62	3,59%
4 Republic of Korea	26	0,0128	43	0,0123705	125259,29	1,07%
5 Singapore	23	0,01132	84	0,0241657	565597,45	4,85%
6 Russia	16	0,00788	47	0,0135213	27191,43	0,23%
7 Hong Kong	13	0,0064	29	0,0083429	195733,98	1,68%
8 Canada	12	0,00591	32	0,009206	264162,4	2,26%
9 Japan	10	0,00492	18	0,0051784	163097,88	1,40%
10 Australia	7	0,00345	9	0,0025892	46919,66	0,40%
11 Germany	5	0,00246	7	0,0020138	21852,83	0,19%
12 Holland	5	0,00246	25	0,0071922	146551,73	1,26%
13 Great Britain	5	0,00246	8	0,0023015	91176,36	0,78%
14 Luxemburg	4	0,00197	9	0,0025892	20407,03	0,17%
15 Bulgaria	3	0,00148	7	0,0020138	7706,94	0,07%
16 USA	3	0,00148	5	0,0014384	3572,81	0,03%
17 Czech Republic	3	0,00148	3	0,0008631	24035,96	0,21%
18 Bermud	2	0,00098	3	0,0008631	7314,33	0,06%
19 Ukraine	2	0,00098	2	0,0005754	128,71	0,00%
20 Switzerland	1	0,00049	1	0,0002877	33,53	0,00%
21 New Zealand	1	0,00049	2	0,0005754	227,85	0,00%
22 Poland	1	0,00049	1	0,0002877	1561,28	0,01%
23 Hungary	1	0,00049	1	0,0002877	87,42	0,00%
24 Barbados	1	0,00049	4	0,0011507	10734,57	0,09%
25 Seychelles	1	0,00049	1	0,0002877	36390,95	0,31%
26 Montenegro	1	0,00049	1	0,0002877	6467,68	0,06%
27 India	1	0,00049	2	0,0005754	105,58	0,00%
28 Malaysia	1	0,00049	2	0,0005754	2416,53	0,02%
29 Kazakhstan	1	0,00049	1	0,0002877	551,23	0,00%
30 Belize	1	0,00049	1	0,0002877	41,7	0,00%

1.11. License holders by Investors, First half-year report, 2017

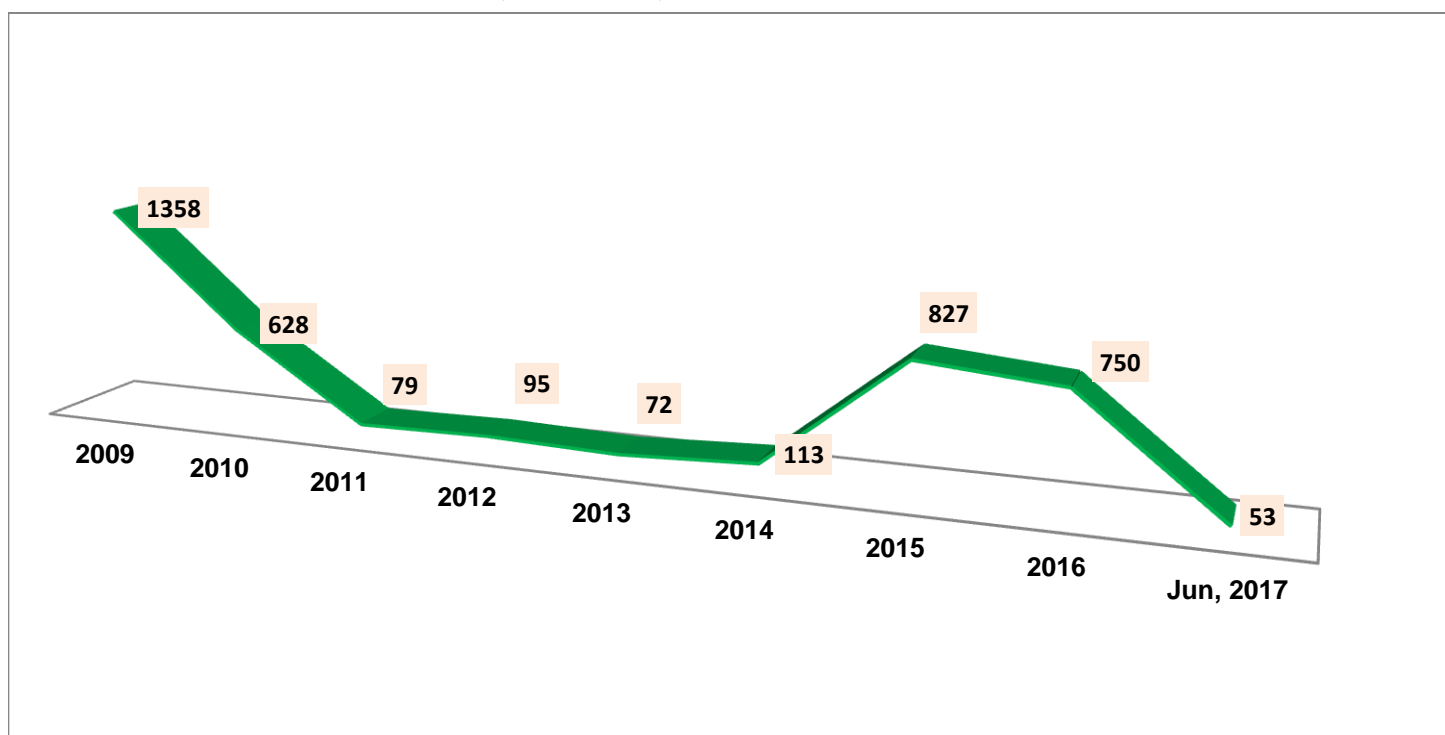


Source: Computerized mining cadastre system, MRPAM

1.12. Changes in license registry, 2010-2017

Type of registration	2010	2011	2012	2013	2014	2015	2016	First half-year report, 2017
1. New issued	235	79	95	72	113	827	750	53
<i>Mining</i>	90	79	95	72	97	91	93	38
<i>Exploration</i>	145	0	0	0	2	697	629	9
<i>Selection processed</i>	–	–	–	–	14	39	28	6
2. Reversed	105	89	141	146	119	150	166	52
<i>Mining</i>	6	4	7	16	13	25	25	8
<i>Exploration</i>	99	85	134	130	106	125	141	44
3. Canceled	458	275	270	347	123	173	241	135
<i>Mining</i>	39	65	139	43	14	10	37	13
<i>Exploration</i>	419	210	131	304	109	163	204	122
4. Expired	248	225	175	253	289	179	124	79
5. Transferred	448	441	200	8	51	88	146	78
<i>Mining</i>	59	58	47	8	38	46	50	31
<i>Exploration</i>	389	383	153	0	13	42	96	47
6. Extended	791	997	601	317	444	336	167	99
7. Pledged	50	62	38	61	40	22	29	18
<i>Mining</i>	36	39	22	42	34	22	27	17
<i>Exploration</i>	14	23	16	19	6	0	2	1
8. Terminated pledges		28	42	31	29	24	16	26
<i>Mining</i>		8	15	29	24	19	12	26
<i>Exploration</i>		20	27	2	5	5	4	0
9. Refunded		94	56	15	11	19	35	13
<i>Mining</i>		29	16	9	7	10	15	7
<i>Exploration</i>		65	40	6	4	9	20	6

1.13. Number of issued licenses, 2009-Jun, 2017



Source: Computerized mining cadastre system, MRPAM

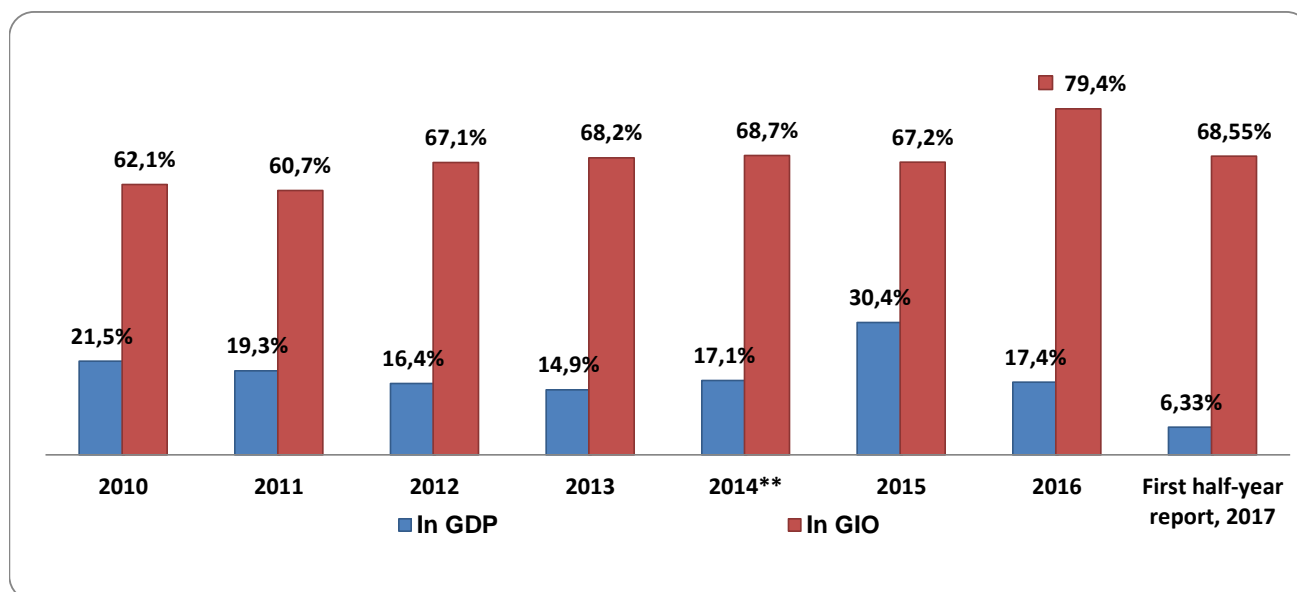
2. MINING STATISTICS

2.1. Production of commodities in mining industry, at current prices

/billion MNT /, 2010-2017

Production	2010	2011	2012	2013	2014	2015	2016	First half-year report, 2017
Gross domestic production	9756,6	13173,8	16688,4	19174,2	22227,1	23166,8	23886,4	12 801,2
Mining production	2102,2	2536,2	2742,8	2849,4	3661,0	3867,7	3984,8	810,3
Gross industrial output	4987,0	6185,6	5723,6	7651,7	9299,6	8714,4	9927,1	8 184,5
Mining and quarrying	3097,0	3752,3	3839,7	5217,4	6388,9	5858,0	7884,7	5 610,5

2.2. The role of Mining sector in the National economy



2.3. Production of major mining commodities, 2010-2017

Type of minerals	2010	2011	2012	2013	2014	2015	2016	First half-year report, 2017
Copper concentrate with metal grade, thous.t	357,1	347,4	347,6	533,3	712,0	890,7	1445,1	647,4
Molybdenum concentrate with metal grade, ton	4677,1	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	2 729,0
Gold, kg	6037,1	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	6 665,9
Fluorspar concentrate, thous.t	140,7	116,4	157,2	76,4	374,9	230,8	34,1	10,1
Iron ore, concentrate, thous.t	3203,2	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	1 466,7
Zinc concentrate, thous	112,6	104,7	119,1	104,1	93,2	89,6	100,2	40,0
Tungsten concentrate, ton	19,9	12,6	66,0	-	-	-	-	-

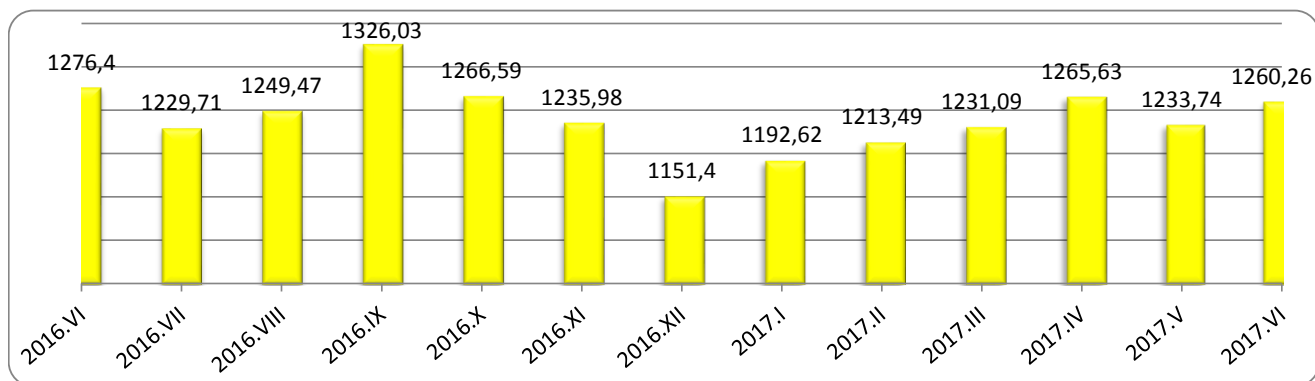
Source: www.1212.mn, National Statistical Office

2.4. The average of commodity prices in the world market. US\$, 2013-First half-year report, 2017

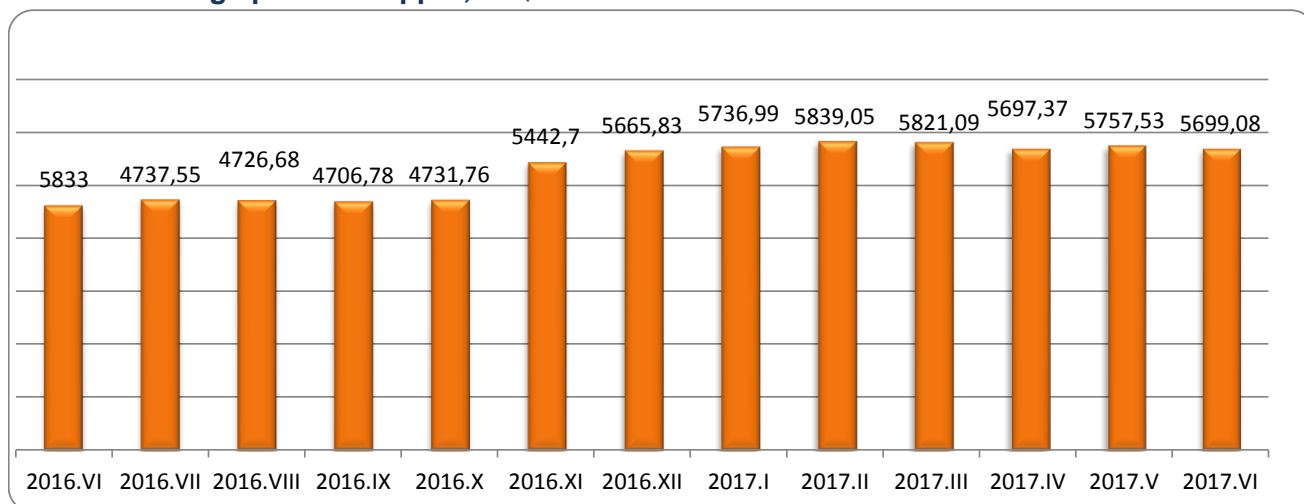
Number	Mineral commodities	Unit of measurement	2013	2014	2015	2016	First half-year report, 2017
1	Gold, ounce	\$/унци	1411,03	1271,19	1160,09	1151,40	1 238,2
2	Silver, ounce	\$/унци	23,82	19,07	15,71	16,38	17,5
3	Copper, tons	\$/тн	7325,79	6859,50	5501,03	5665,83	5 747,8
4	Zinc, tons	\$/тн	1910,07	2161,05	1928,76	2671,34	2 689,3
5	Blue lead, tons	\$/тн	2141,95	2095,44	1786,15	2230,30	2 221,1
6	Tin, tons	\$/тн	22309,30	21909,93	16079,32	21274,13	19 991,1
7	Molybdenum, tons	\$/тн	22583,34	25202,97	14618,15	15000,00	15 538,6
8	Tungsten, tons	\$/тн	54470,00	50971,02	36082,38	32000,00	32 860,6
9	Iron ore, tons	\$/тн	125,00	93,11	49,82	62,00	58,8
10	Fluorite concentrate AG-97	\$/тн	349,40	305,66	283,29	260,00	321,7
11	Fluorite ore MG-85	\$/тн	294,00	240,00	244,33	250,00	281,8
12	Thermal coal	\$/тн	60,00	56,63	49,10	40,40	30,9
13	Coking coal	\$/тн	150,00	150,00	106,20	121,30	105,8

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

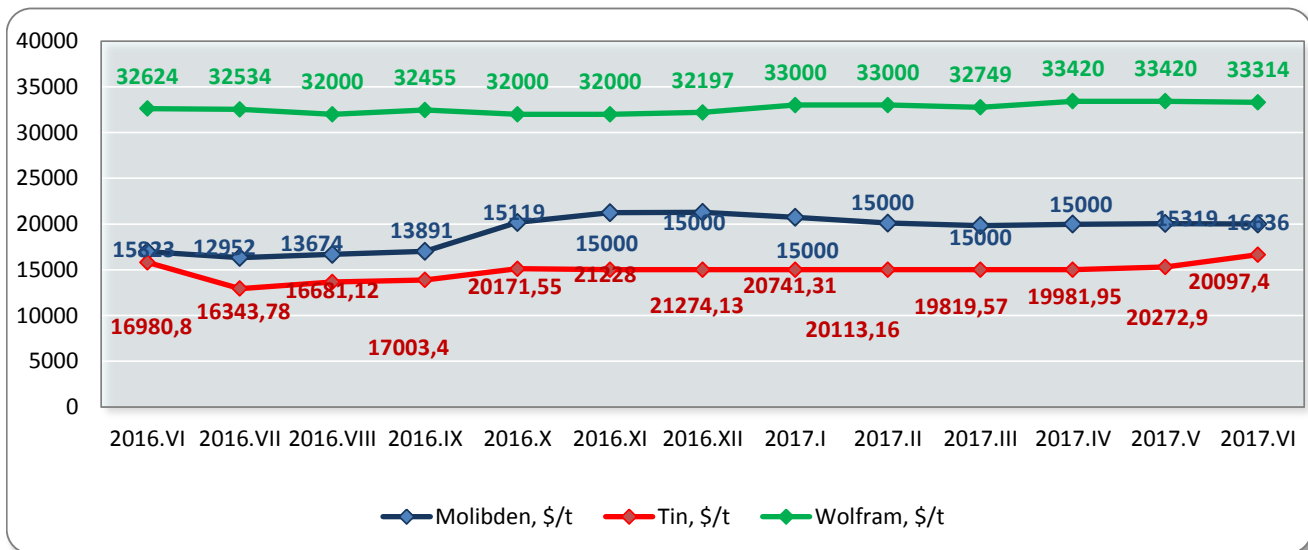
2.5. The average price of gold, US\$/ounce



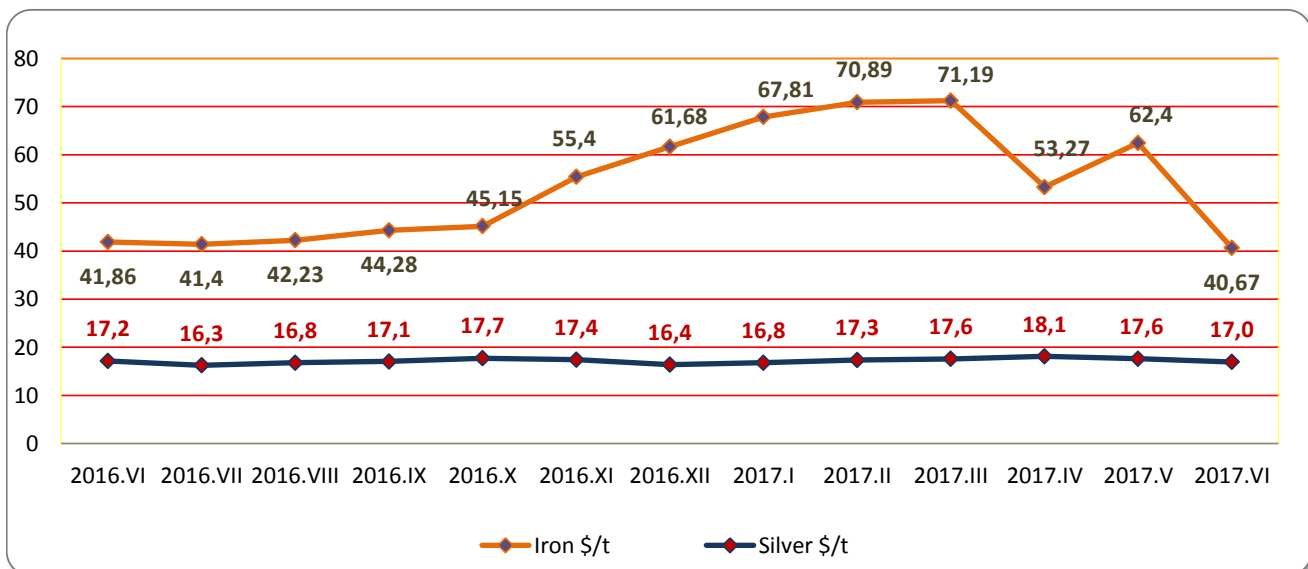
2.6. The average price of copper, US\$/tons



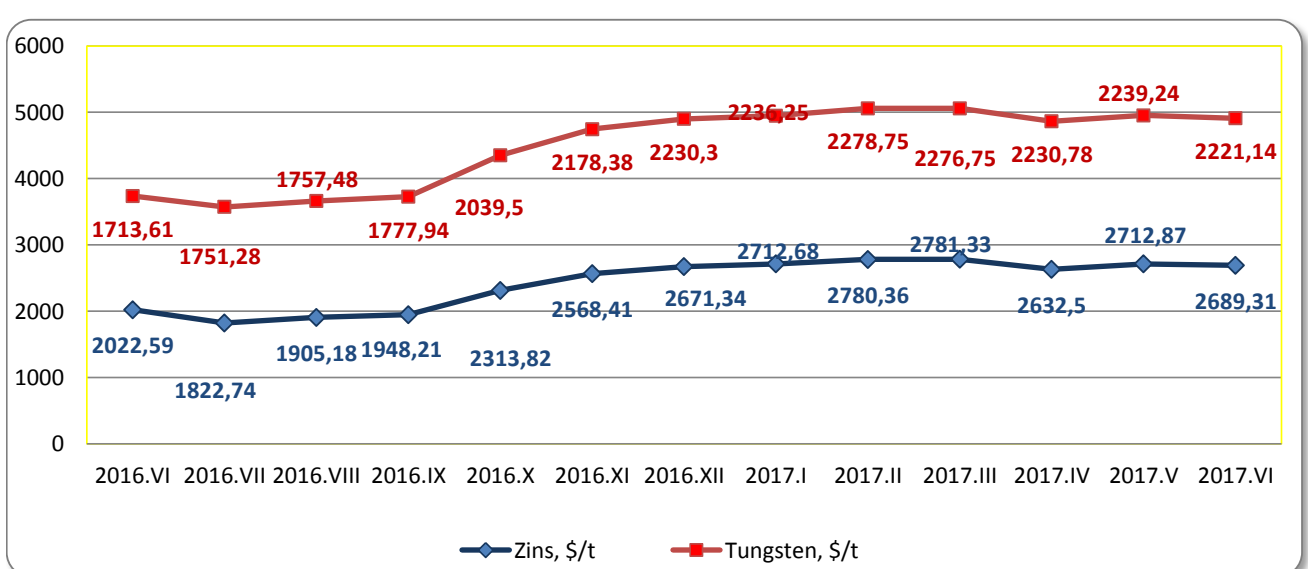
2.7. The average price of metals in the world market, last 12 months



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



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

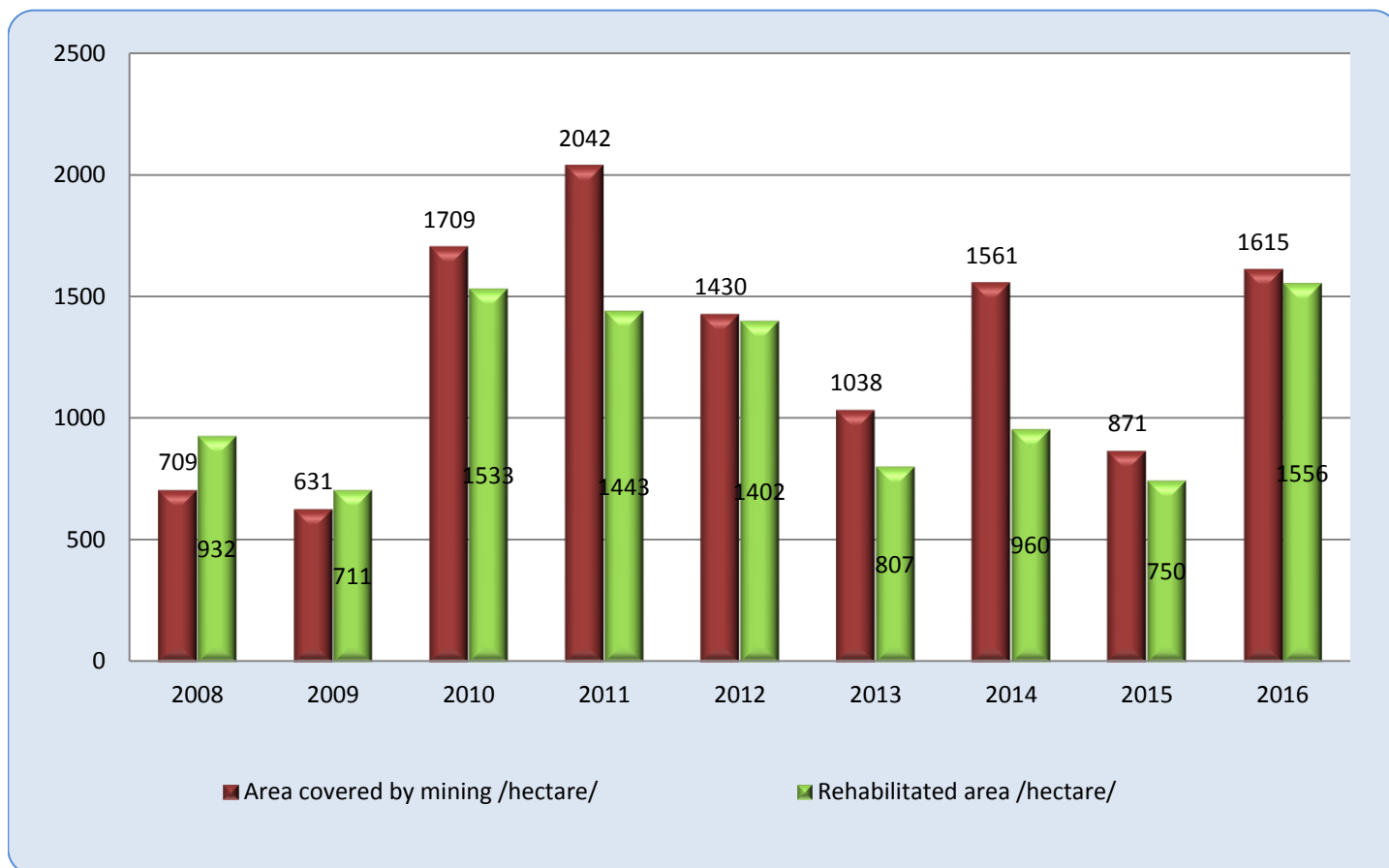


Source: www.Indmin.com, www.umetal.com www.sxcoal.com

2.10. 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	27068
2	Rehabilitated area /hectare/	11527	932	711	1533	1443	1402	807	960	750	1556	20065
3	Expenses for rehabilitation	24805	7683	8300	9657	7013	14808	7382	9212	4019	6369	92879
4	Area covered by technical rehabilitation /hectare/	5381	823	580	1290	480	1177	532	523	589	1271	11375
5	Area covered by biological rehabilitation /hectare/	4024	670	300	520	521	378	370	322	320	702	7425
6	Environmental expenses /mln.MNT/	12019	3592	4158	5708	3323	8597	3876	11683	8597	7153	61553

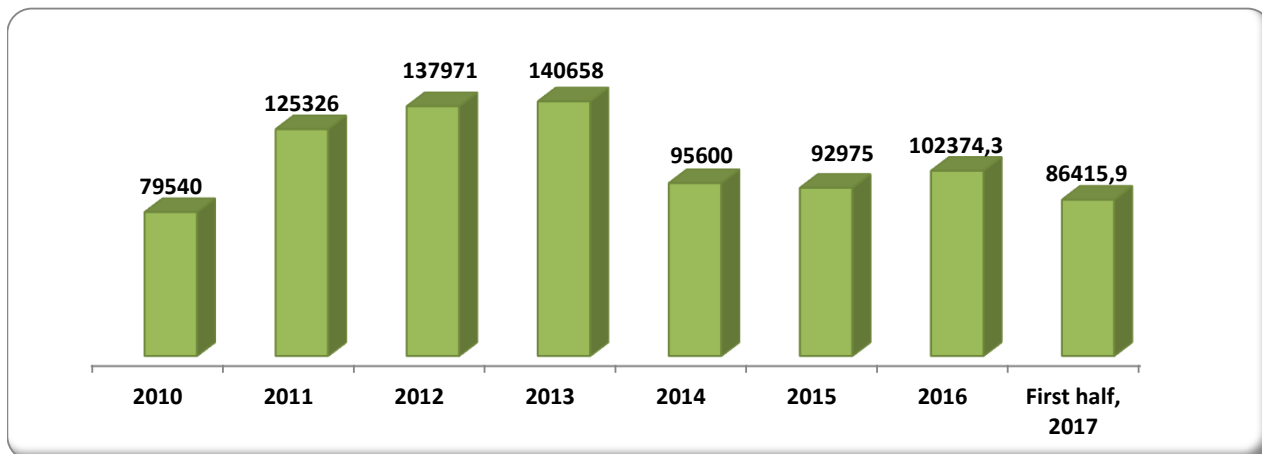
2.11. Mined and rehabited area, 2008-2016



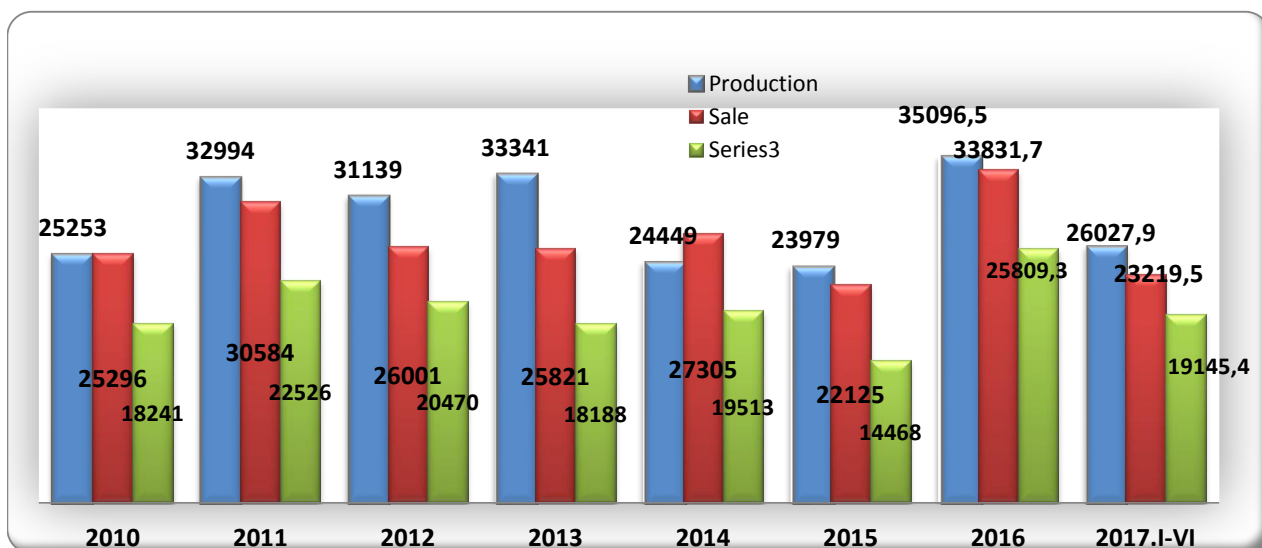
Source: Reports from companies to Mining, Industry and Technology Division, MRPAM

3. COAL STATISTICS

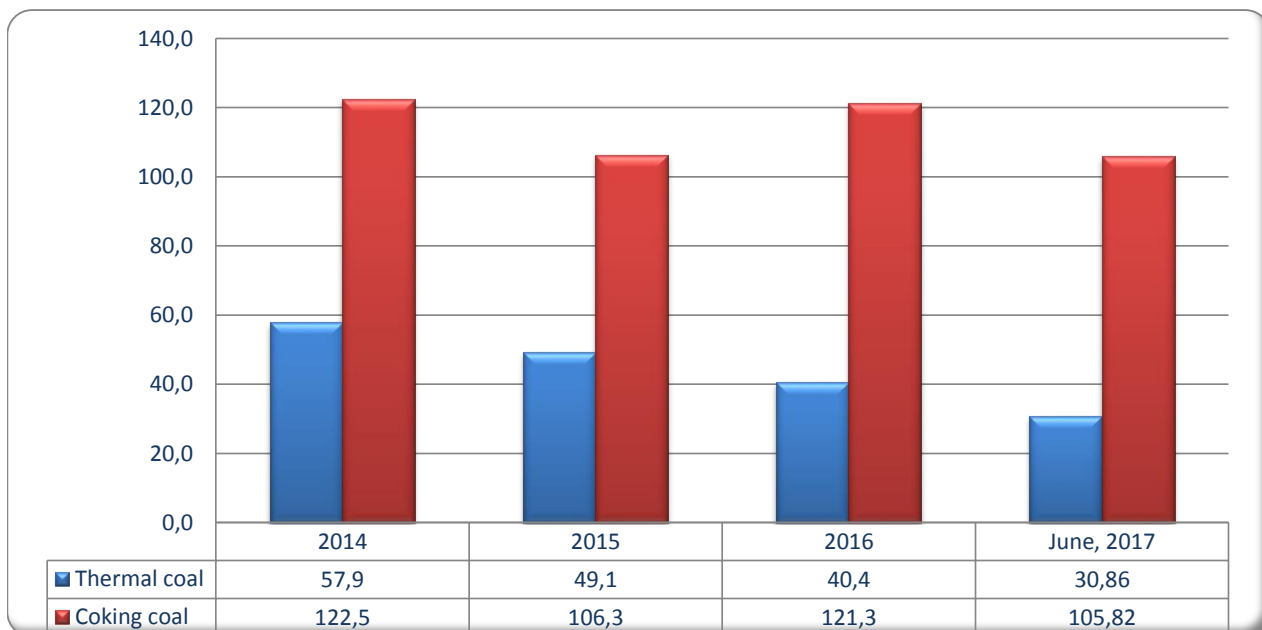
3.1. Striping, ths.m3



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



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

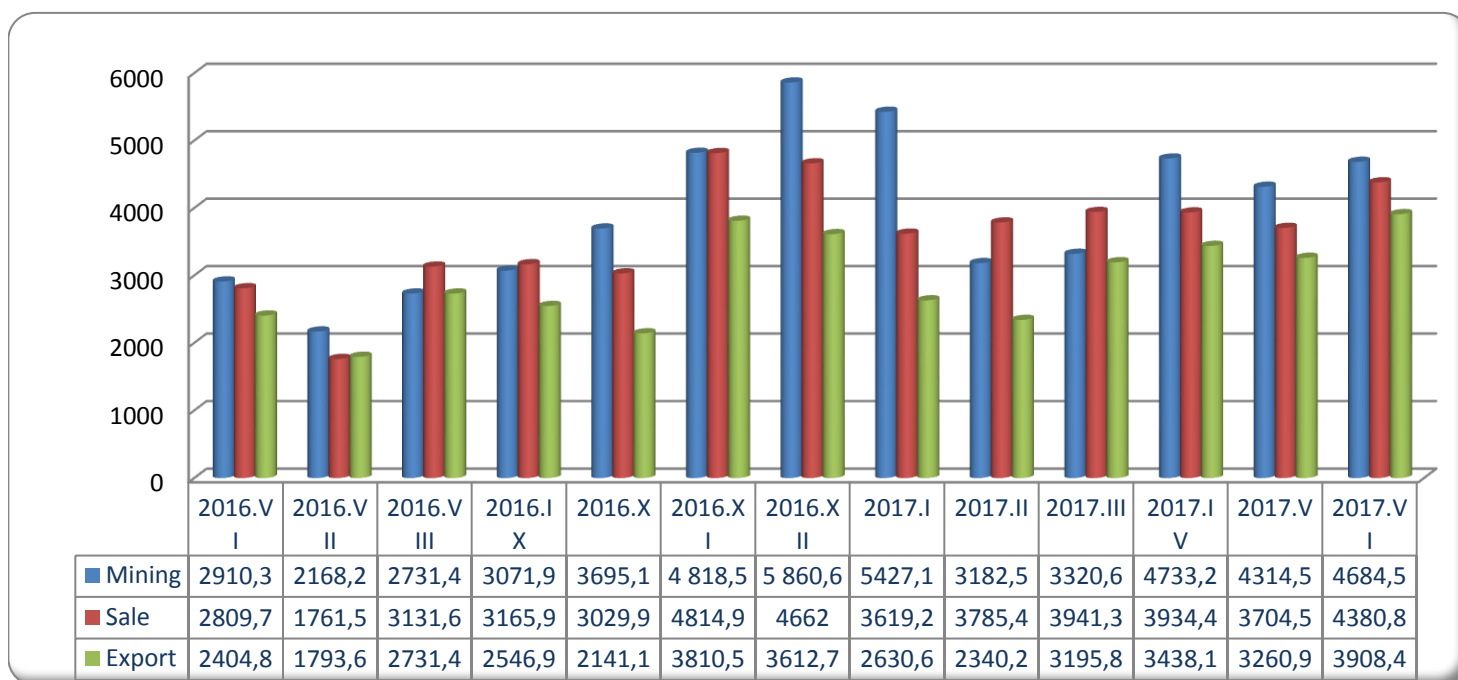


Source: Data from Coal mining companies to MRPAM
 infomine.com, <http://sxcoal.com/site/index?lang=en>

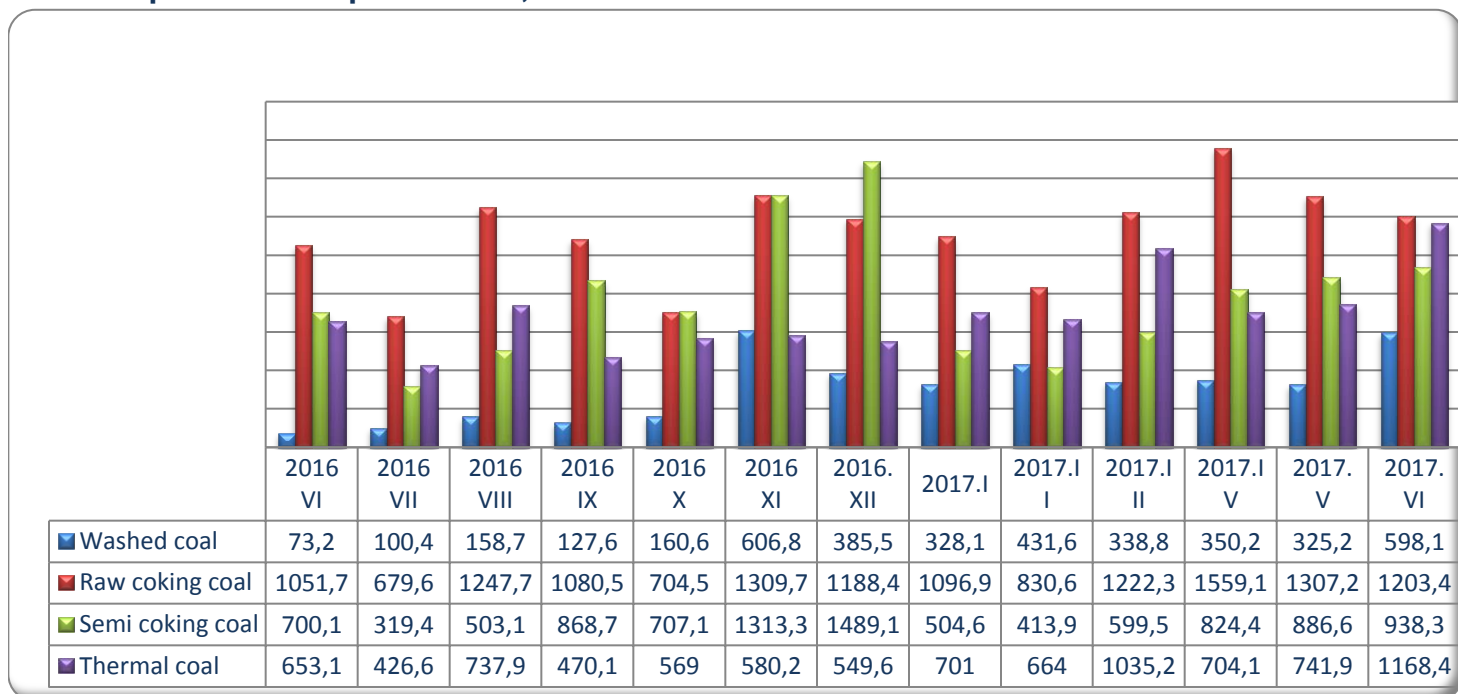
3.4. Stripping, mining, sale and export of Coal mines, Jan-Jun, 2017

Type	Stripping /ths.m3/	Mining /ths.t/	Selling /ths.t/	Export /ths.t/
Total	86 415,9	26 027,9	23 219,5	19 145,4
Energy coal mines	13 514,4	3 408,1	392,0	
Export coal mines	71 931,3	22 308,2	19 145,4	19 145,4
Local coal mines	970,2	311,5	3 682,1	

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. GEOLOGICAL STATISTICS

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

	2013		2014		2015		2016		First half, 2017	
	mln MNT	%	mln MNT	%	mln MNT	%	mln MNT	%	mln MNT	%
TOTAL	6809,9	93%	9209,2191	92%	9280,6	82%	9341,1	100%	3 095,4	23
SGMP 1:200000	763,8	96%	807,23075	89%	330,5	63%	642,7	100%	213,8	43
SGMP 1:50000	5809,4	96%	7314,8319	93%	5556,7	78%	4975,8	100%	1 597,6	34
Thematic work	155,8	34%	1003,5213	88%	3167,7	92%	3476,1	100%	1 160,9	29
Cooperation projects	80,9	169%	83,635189	70%	225,6	79%	246,6	100%	123,1	86

4.2. Geological survey conducted at expense of the state budget

4.2.1. Geological mapping, scale 1:200000

1 564 100,0

Project period	Project period	Percentage of total territory, %
Finished projects:		
Total	888 881,0	56,83%
2001-2003	38 900,0	2,49%
2003-2004	61 100,0	3,91%
2005-2007	203 385,0	13,00%
2007-2010	218 000,0	13,94%
2010-2012	367 496,0	23,50%
Ongoing projects:		
2011-2014	401 021,1	25,64%
Ongoing projects:		
2013-2016	287 924,4	18,41%
Boundary line, frigidty, river,	58 930,5	3,76%

4.2.2. Geological mapping and prospecting scale 1:50000

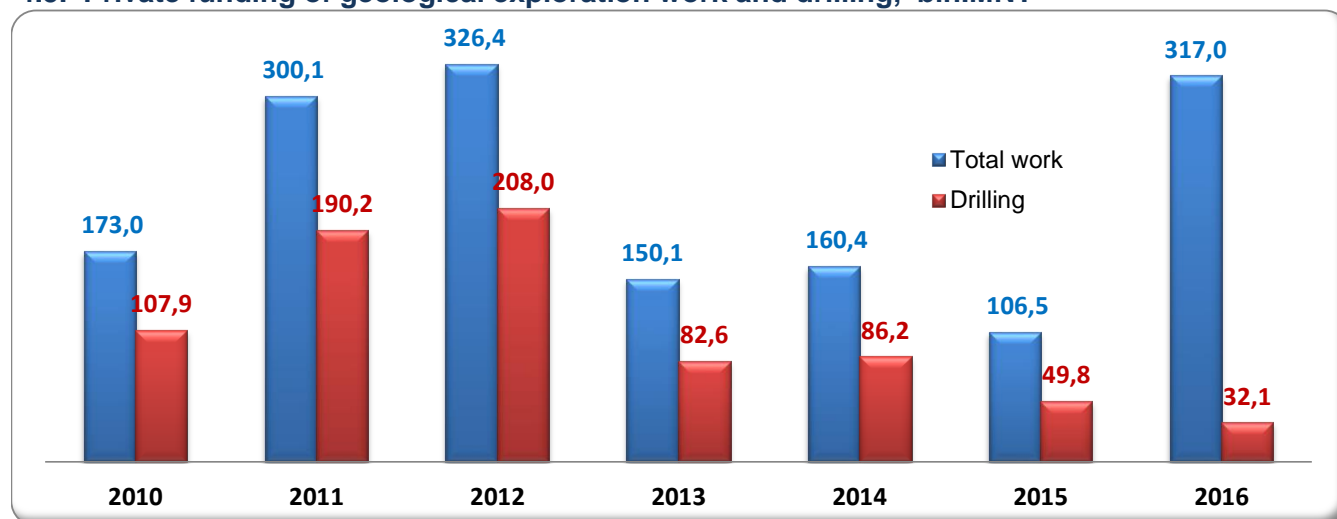
The project period	Covered area /km ² /	Percentage of total territory, %
Finished projects:		
1932-2014	516 319,16	0,33
Ongoing projects:		
2011-2014	34396,58	2,20%
2012-2015	24 275,1	1,55%
2013-2016	11 747,7	0,75%
2014-2017	65 724,0	4,20%
Area in which the work could not be carried out:		
Boundary line, frigidty, river,	58 930,5	3,77%

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

Type of work	2010	2011	2012	2013	2014	2015	2016 on	Percentage share to total
Total	#####	#####	326 394,7	150 095,8	160 421,9	106 462,1	317 052,0	100,0
Preparation	4677,5	5051,8	4882,8	3 842,3	3 146,2	2 998,7	35 823,1	11,3
Mapping	2270,0	3957,4	4714,8	2 328,8	3 006,8	2 314,2	5 792,7	1,8
Geological survey	2862,7	6880,8	3925,7	2 530,5	2 535,4	2 789,2	6 329,0	2,0
Sampling	2561,0	5685,4	6603,1	2 659,3	2 259,7	2 047,1	32 353,4	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	101 728,6	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	8 822,5	2,8
Topogeodetic work	1680,3	5778,5	2348,2	1 880,4	1 357,9	1 638,3	2 143,6	0,7
Hydrogeological work	510,3	2571,0	4116,9	751,6	2 781,3	2 549,9	1 165,2	0,4
Transport	5724,2	6526,7	6685,8	5 182,5	3 780,9	3 112,8	21 054,6	6,6
Indoor, laboratory in	4609,4	10475,1	18540,5	11 233,7	21 563,1	11 055,0	46 444,8	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	0,1
Paleontology	0,0	0,0	925,4	448,9	88,3	43,3		
Other	4752,0	3280,7	8092,8	5 328,7	1 506,9	4 791,0	39 185,4	12,4

Source: Reports from exploration license holders, MRPAM

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



4.4. 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	Limestone	mln.t	35,54		289,09		273,75		592,6		1840,4	

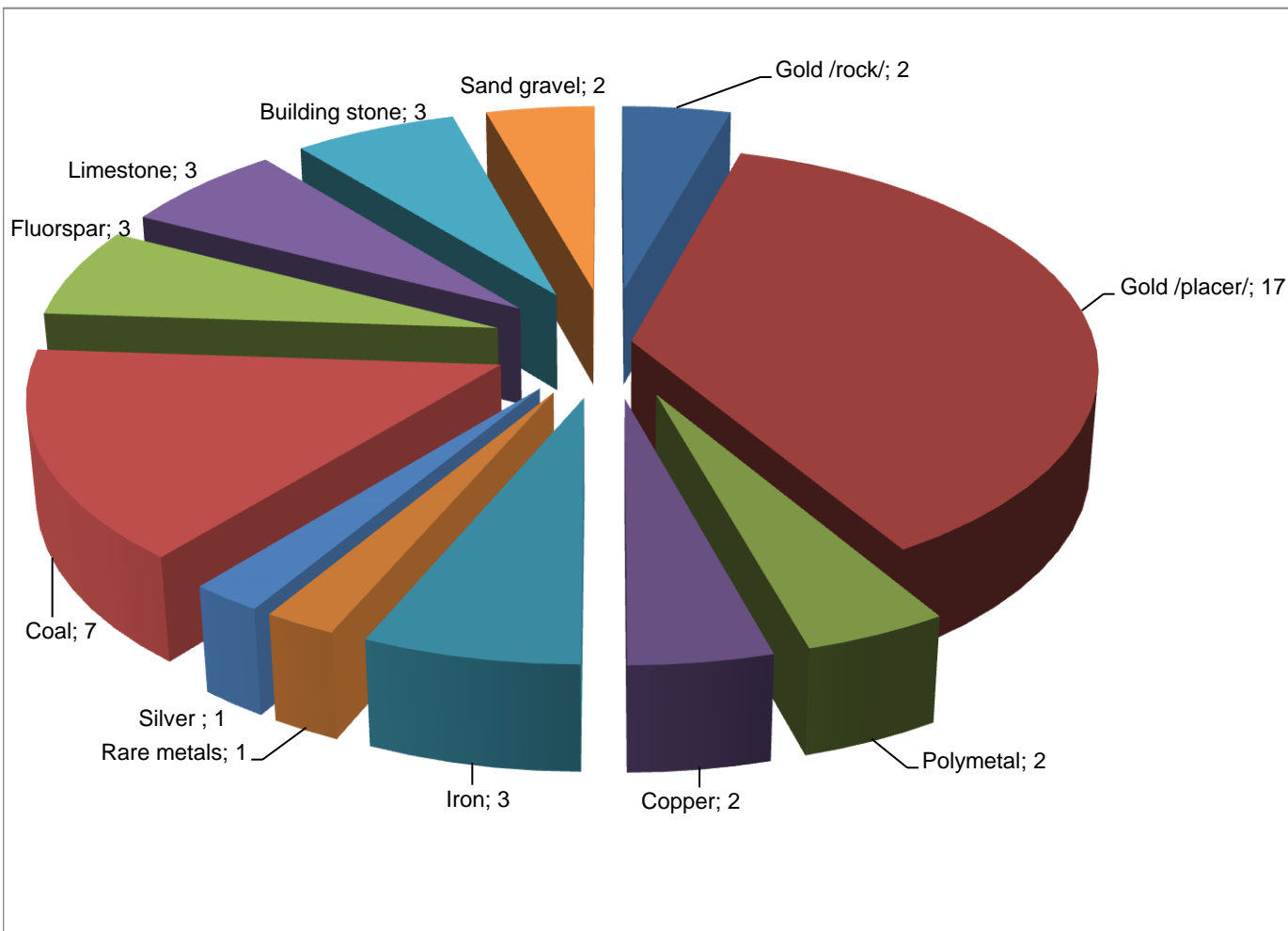
No	Deposit types	unit	Registered reserves						
			2015		2016		First half-year report, 2017		Total
			ore	metal	ore	metal	ore	metal	metal
1	Gold (rock)	ths.t/kg	8243	28044	62 864,24	33 819,66	7 256,70	2 070,20	591244
2	Gold (placer)	kg	6801	6130	6581	5955	1380	1240	43940
3	Iron	ths.t	202502	31911	54463	18030	7146	2239	350431
4	Polymetal	ths.t			15091		4291		
	Cu	t				57547			1775167
	Zn	t				41043	77,66		1126034
	eqZn	t							36322
	Pb	t					83		244939
	eqPb	t							1553766
	Molybdenium	ths.t	314824	287			342	3402	650
5	Tungsten	ths.t/t	254	2951					349319
6	Rare earth elements	ths.t/t	268176	12031					642405
7	Copper	ths.t/t			2042008	7789024	29183	134944	53577456
8	Tin	ths.t				89,6			10961
9	Fluorspar	ths.t	5140	2249	801	335	592	370	16841
10	Uranium	t	7,9		4,9				95159
11	Coal	mln.t	4254,3		1295,4		1297,7		27868
12	Shale	mln.t							1840
13	Limestone	mln.t					14,6		1767

Source: Data from Geology and Exploration Division, MRPAM

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

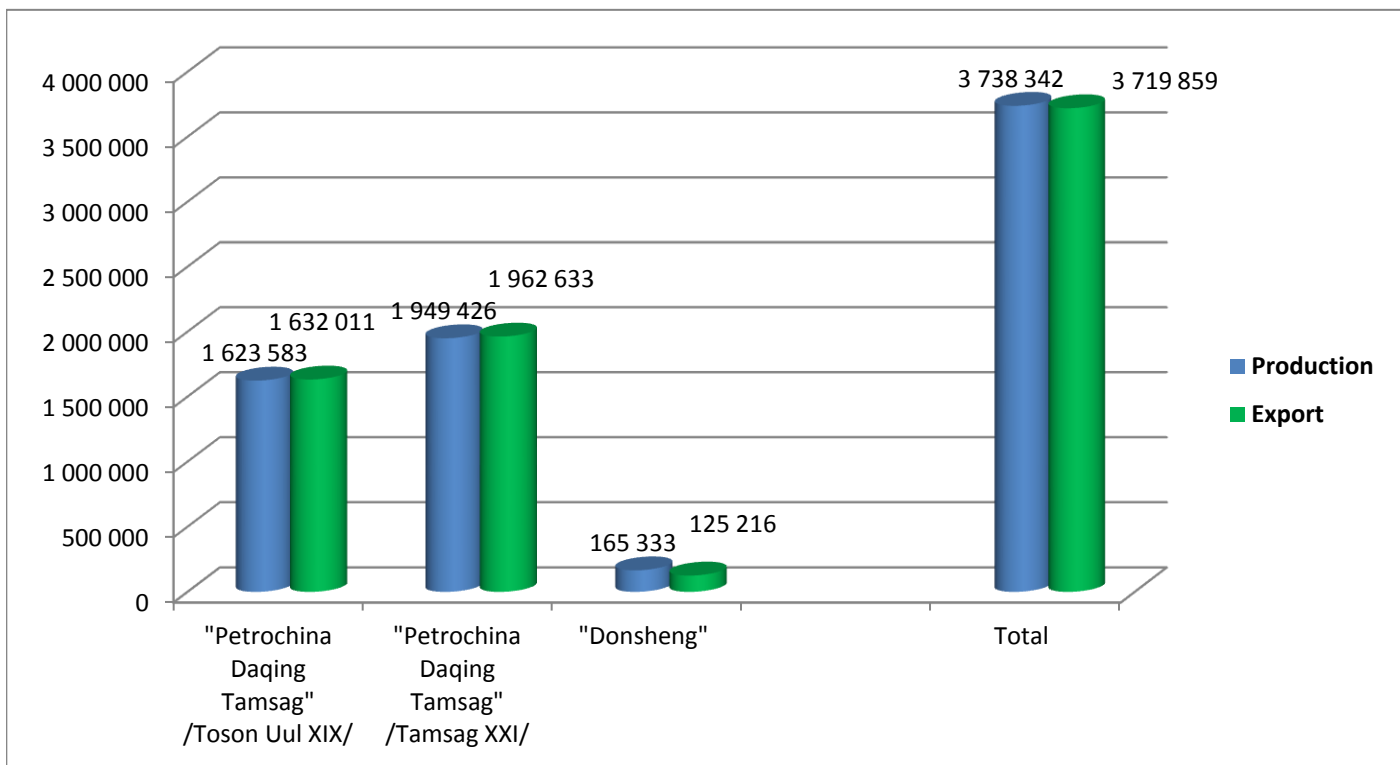
Number	Type of minerals	Quantity
1	Gold (rock)	2
2	Gold (placer)	17
3	Polymetal	2
4	Copper	2
5	Iron	3
6	Rare metals	1
7	Silver	1
8	Coal	7
9	Fluorspar	3
10	Limestone	3
11	Building stone	3
12	Sand gravel	2

Deposits delivered to the state registration of mineral reserves, 2017



5. PETROLEUM STATISTICS

5.1. Petroleum production and export, First half-year report, 2017, barrel



Type, size	"Petrochina Daqing Tamsag" /Toson Uul XIX/	"Petrochina Daqing Tamsag" /Tamsag XXI/	"Donsheng"	Total
Production	1 623 583	1 949 426	165 333	3 738 342
Export	1 632 011	1 962 633	125 216	3 719 859

5.2. Petroleum products importing, First half, 2017, tn

Countries	Octane gasoline, down from 90	More than 90	Diesel	TS-1	Other /oil, fuel oil, bitumen	Total
Russia	24 992,0	167 614,5	376 874,3	18 338,6	53 709,3	641 528,7
China		3 125,2	1 619,6		457,2	5 201,9
Republic of Korea					4 352,3	4 352,3
Singapore					1 291,0	1 291,0
Other countries	-	-	-	-	2 245,3	2 245,3
Total	24 992,0	170 739,7	378 493,9	18 338,6	62 055,1	654 619,3

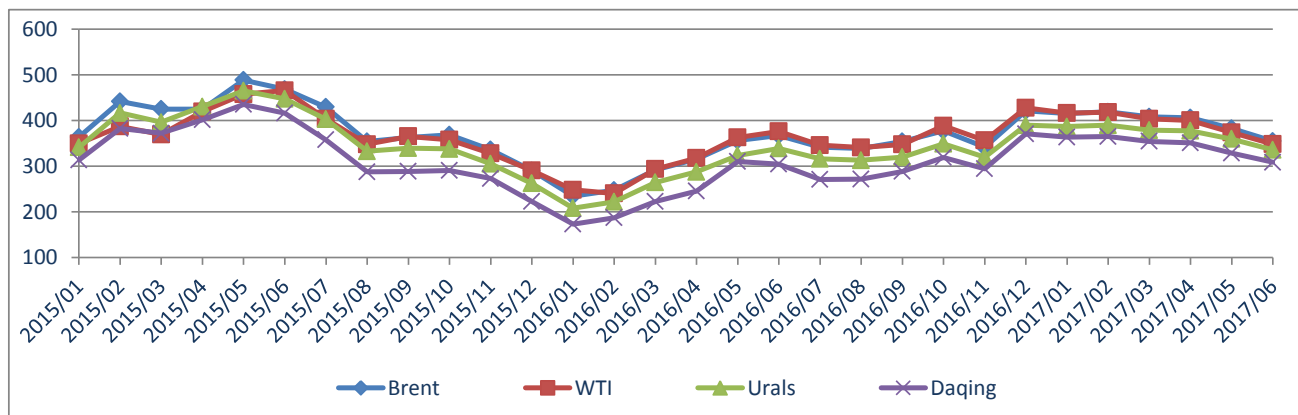
Notes: Data from Mongolian Customs General Administration, First half, 2017

Source : Petroleum Product Division, MRPAM

5.4. The world average price of petroleum products are selling retail sale, First half-year report, 2017

US\$/tn

Date	New York		London		Russia		China	
	WTI		BRENT		URALS		32 Дачин 33'	
	Spot preces	Change /previous year, month and weeks comparison/	Spot preces	Change /previous year, month and weeks comparison/	Spot preces	Change /previous year, month and weeks comparison/	Spot preces	Change /previous year, month and weeks comparison/
2015/01	363,63	↓ -23,46%	349,46	↓ -21,83%	341,16	↓ -23,22%	313,47	↓ -23,64%
2015/02	441,68	↑ 21,46%	387,23	↑ 10,81%	416,64	↑ 22,12%	382,41	↑ 21,99%
2015/03	424,91	→ -3,80%	369,48	→ -4,59%	396,17	→ -4,91%	372,17	→ -2,68%
2015/04	454,07	→ 6,86%	419,64	↑ 13,58%	430,56	↑ 8,68%	401,79	→ 7,96%
2015/05	488,61	→ 7,61%	457,85	↑ 9,10%	465,12	↑ 8,03%	435,26	→ 8,33%
2015/06	468,68	→ -4,08%	466,11	→ 1,80%	447,21	→ -3,85%	416,13	→ -4,39%
2015/07	429,56	↓ -8,35%	403,41	↓ -13,45%	402,82	↓ -9,93%	357,72	↓ -14,04%
2015/08	354,40	↓ -17,50%	348,10	↓ -13,71%	332,63	↓ -17,42%	287,60	↓ -19,60%
2015/09	362,54	→ 2,30%	365,27	→ 4,93%	339,32	→ 2,01%	288,69	→ 0,38%
2015/10	368,96	→ 1,77%	358,07	→ -1,97%	337,72	→ -0,47%	290,74	→ 0,71%
2015/11	336,15	↓ -8,89%	327,90	↓ -8,42%	305,35	↓ -9,58%	272,79	→ -6,18%
2015/12	290,32	↓ -13,63%	290,91	↓ -11,28%	262,53	↓ -14,02%	222,59	↓ -18,40%
2016/01	234,60	↓ -19,19%	248,08	↓ -14,72%	208,29	↓ -20,66%	173,36	↓ -22,12%
2016/02	247,82	→ 5,64%	240,40	→ -3,10%	221,93	→ 6,55%	187,31	→ 8,05%
2016/03	292,45	↑ 18,01%	293,78	↑ 22,20%	264,64	↑ 19,24%	223,01	↑ 19,06%
2016/04	315,18	→ 7,77%	317,79	↑ 8,17%	287,61	↑ 8,68%	245,35	↑ 10,02%
2016/05	356,16	↑ 13,00%	363,21	↑ 14,29%	323,65	↑ 12,53%	310,37	↑ 26,50%
2016/06	367,28	→ 3,12%	376,28	→ 3,60%	338,83	→ 4,69%	304,70	→ -1,83%
2016/07	341,38	→ -7,05%	345,74	↓ -8,12%	315,98	→ -6,74%	270,89	↓ -11,10%
2016/08	339,09	→ -0,67%	340,91	→ -1,40%	313,17	→ -0,89%	271,66	→ 0,28%
2016/09	354,07	→ 4,42%	347,86	→ 2,04%	320,02	→ 2,19%	288,47	→ 6,19%
2016/10	377,32	→ 6,57%	388,36	↑ 11,64%	349,32	↑ 9,16%	318,93	↑ 10,56%
2016/11	341,45	↓ -9,50%	356,52	↓ -8,20%	319,80	↓ -8,45%	294,22	↓ -7,75%
2016/12	420,97	↑ 23,29%	427,68		389,52	↑ 21,80%	370,84	↑ 26,04%
2017/01	415,46	→ -1,31%	416,37	→ -2,65%	386,81	→ -0,69%	363,79	→ -1,90%
2017/02	418,73	→ 0,79%	418,24	→ 0,45%	389,81	→ 0,77%	365,17	→ 0,38%
2017/03	407,94	→ -2,58%	403,49	→ -3,53%	379,14	→ -2,74%	354,49	→ -2,93%
2017/04	406,04	→ -0,47%	400,22	→ -0,81%	377,53	→ -0,42%	351,14	→ -0,94%
2017/05	382,94	→ -5,69%	373,76	→ -6,61%	359,55	→ -4,76%	328,7494	→ -6,38%
2017/06	354,90	→ -7,32%	348,56	→ -6,74%	335,66	→ -6,65%	308,54	→ -6,15%



Notes: In the direction of the arrow, the price of oil and gas prices has decreased.

Source: Petroleum Product Division, MRPAM

**5.5. The average retail price of petroleum products sold throughout Mongolia,
June, 2017**

/MNT/

Number	Zone name	Pillar center	Province, city	Type			
				A-80	AI-92	AI-95	Diesel
1	western region	Khovd, Uliastai	Bayan-Ulgii	1550	1700		1650
2			Govi-Altai	1550	1650		1750
3			Zavkhan	1650	1760		1890
4			Uvs	1650	1760		1890
5			Hovd	1710	1810	1900	1850
The average price of western region				1 622	1 736	1 900	1 806
6	Hangai region	Kharkhorin, Erdenet	Arkhangai	1550	1660	1820	1750
7			Bayankhongor	1570	1680		1770
8			Bulgan	1500	1650	1840	1750
9			Uvurkhangai	1550	1660		1770
10			Orkhon	1500	1650	1840	1750
11			Selenge	1480	1630	1820	1720
12			Khuvsgul	1570	1780	1940	1840
The average price of hangai region				1 531	1 673	1 852	1 764
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1480	1630	1820	1720
14			Tuv	1480	1630	1790	1 720
15			Darkhan	1480	1630	1820	1720
16			Govisumber	1540	1700	1810	1750
17			Dundgovi	1540	1720	1840	1750
18			Dornogovi	1560	1740	1840	1750
19			Umnugovi	1580	1780	1890	1820
20			Zamin Uud	1640	1870		1910
The average price of central region				1 538	1 713	1 830	1 768
21	Eastern region	Choibalsan, Undurkhaan	Dornod	1570	1680	1880	1810
22			Sukhbaatar	1630	1740	1880	1870
23			Khentii	1540	1700	1830	1800
The average price of eastern region				1 580	1 707	1 863	1 827
State average price				1 568	1 707	1 861	1 791

The retail price main companies /in Ulaanbaatar city/

Number	Company name	A-80	AI-92	AI-95	Diesel
1	"Shunkhlai" LLC	1 465	1 625	1 815	1 715
2	"Sod Mongol" LLC	1 480	1 630	1 810	1 730
3	"Magnai trade" LLC	1 480	1 630	1 820	1 720
4	"Petrovis" LLC	1 480	1 630	1 810	1 720
Average price		1 476	1 629	1 814	1 721

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

6. Petroleum, combastable minerals examination and testing laboratory statistics

6.1. The average data of exported coal

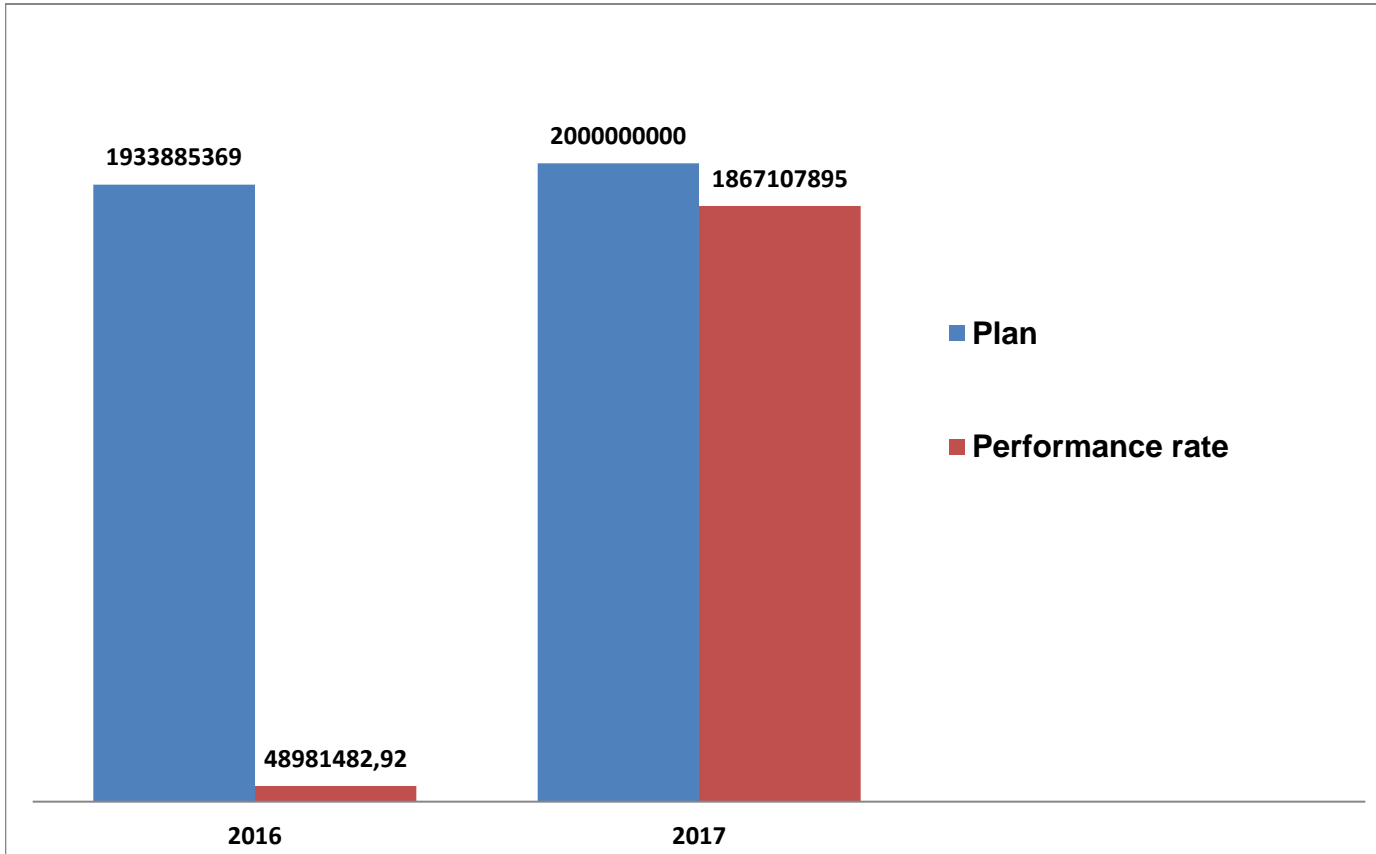
First half-year report, 2017

Type of coal	Name	Classification	Border point	Quality Indicators						
				Moist TM	Ash-flow Adb	Volatiles Vdaf	Total sulfur St,db	Heat unit Qnet,ar	Fermentation FSI	Adhesiveness GI
				Weight, %				Calorie/kg	Index	
Raw coal	Anthracite	Anthracite	Hangi							
	Coal	Coking	Hangi							
			Gashuun Suhait	1,8	13,7	25,7	0,7	7149	7	79,2
		Weak coking	Gashuun Suhait	1,3	17	32	0,77	6996	5	51,4
			Shivee huren	2	9,1	35,6	0,79	7338	4,5	52
		Non-coking	Gashuun Suhait							
			Shivee huren	7,4	16,4	35,7	0,97	5874	2,5	24,7
	Other	Shivee huren								
		Zamiin Uud	5,5	37	27,1	1,98	4453			
	Brown coal		Bichigt	17,5	26,9	42,7	1,82	4234		
Refined coal	Coal	Coking	Gashuun Suhait							
			Yarant	2,4	19,4	19,6	0,48	6605	6	65,9
		Weak coking								
		Non-coking	Gashuun suhait							

Source: Petroleum, combastable minerals examination and testing laboratory stastic information

7. LEGAL DIVISION STATISTICS

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



**In 2017, According to the reimbursement contract, MNT 2,000,000,000 was planned, out of it, MNT 1.867.107.895,30 was paid back by the first half-year of 2017.
/ in increasing amount /**

8.ADMINISTRATION AND MANAGEMENT DIVISION STATISTICS

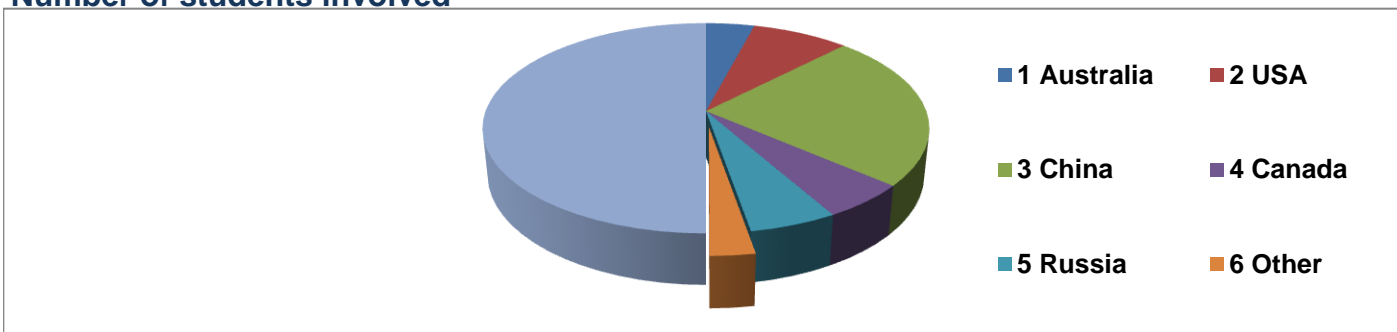
8.1. "Long-term training agreement" with MRPAM

Number of students in universities and colleges

Country of Study:

Number	Country name	Number of students involved
1	Australia	6
2	USA	12
3	China	35
4	Canada	8
5	Russia	8
6	Other	4
	Total	73

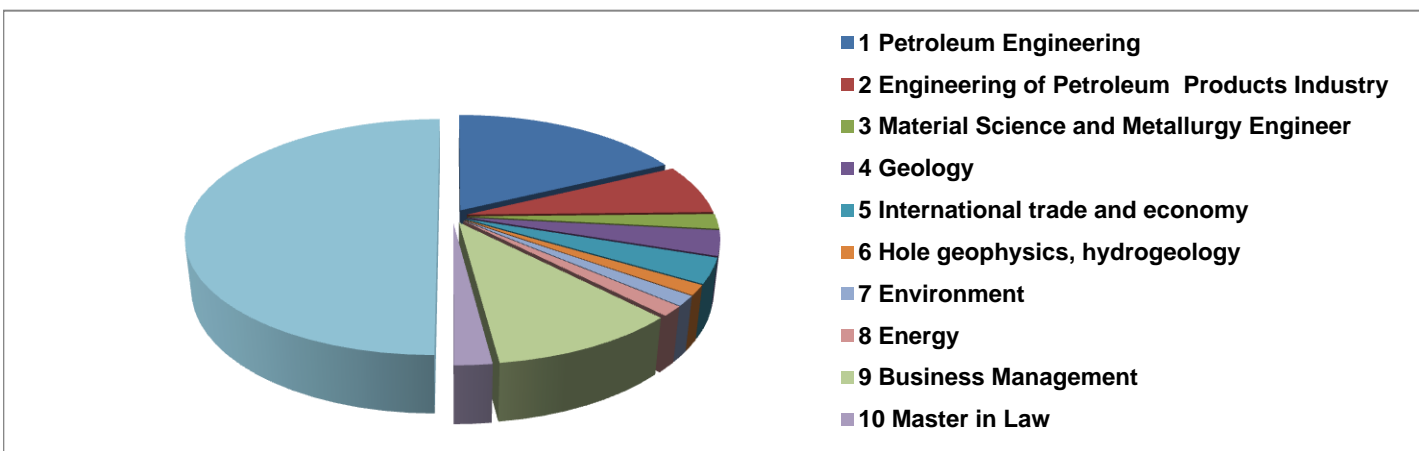
Number of students involved



Occupation:

Number	Professional type	Number of students involved
1	Petroleum Engineering	26
2	Engineering of Petroleum Products Industry	10
3	Material Science and Metallurgy Engineer	3
4	Geology	5
5	International trade and economy	5
6	Hole geophysics, hydrogeology	2
7	Environment	2
8	Energy	2
9	Business Management	15
10	Master in Law	3
	Total	73

Number of students involved



Source: Administration and Management Division, MRPAM

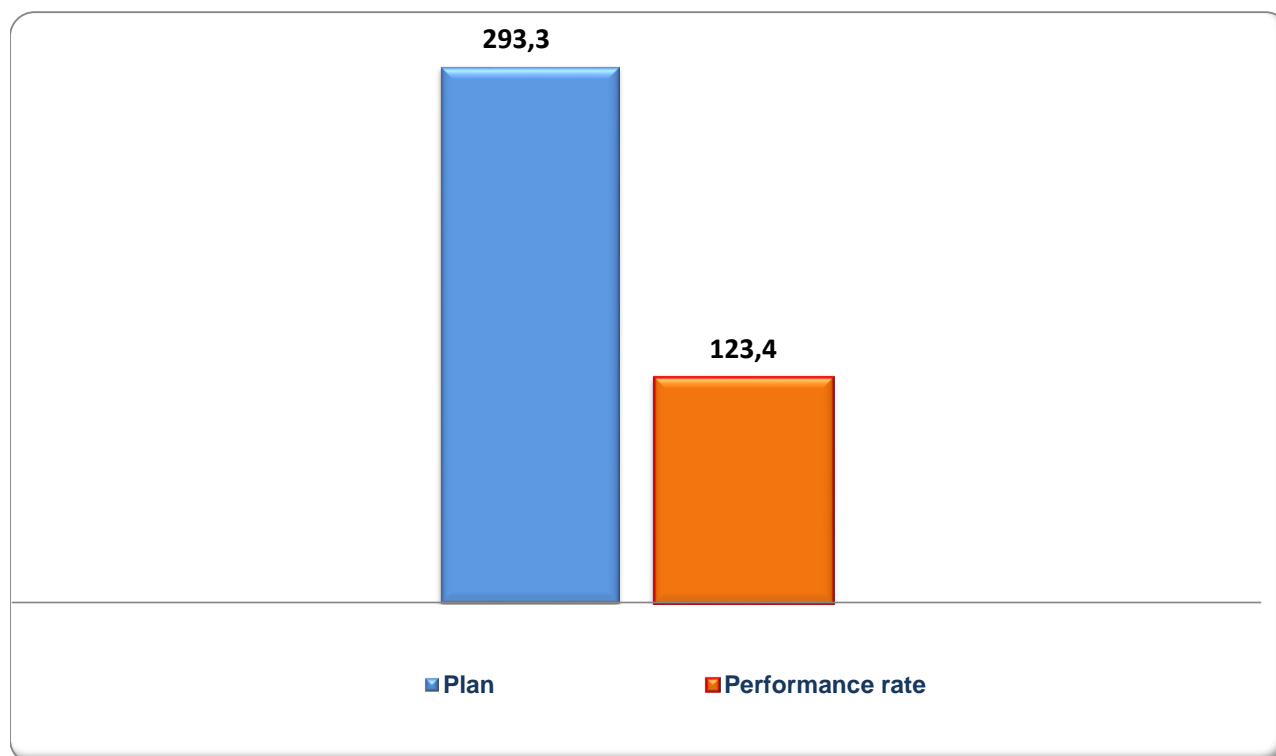
8.2. Budget revenue performance, MNT, First half-year report, 2017

Income type		Plan of 2017	Performance rate, June, 2017	Performance rate, First half, 2017	Performance rate, First half, 2017, %
№	State budget revenues	293 323 074 038	20 272 105 631	123 424 132 477	42,08%
1	License fee	37 000 000 000	3 766 899 389	15 630 863 296	42,25%
2	Reimbursement	2 000 000 000	48 981 483	1 867 107 895	93,36%
3	Petroleum revenues	233 519 034 562	14 205 964 243	97 902 137 191	41,92%
4	Other revenues /Service revenues/	5 804 039 476	2 231 917 693	7 469 309 271	128,69%
5	Own income /Selection of tender/	15 000 000 000	18 342 824	554 714 824	3,70%

Other revenues

№	Revenue type	Plan of 2017	Performance rate, June, 2017	Performance rate, First half, 2017	Performance rate, First half, 2017, %
1	Service revenue /mineral resources/	2 420 213 304	216 215 765	5 440 947 537	224,81%
2	Service revenue /petroleum/	3 383 826 172	2 015 701 928	2 028 361 734	59,94%

8.3. Income plan and performance rate, bln.MNT



Source: Administration and Management Division, MRPAM



Mineral Resources and Petroleum Authority of Mongolia