



**MINISTRY OF MINING
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND
PETROLEUM AUTHORITY OF
MONGOLIA**

Mineral Resources and Petroleum Statistics



March, 2018

www.mrpam.gov.mn



STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM



**Received reports from the Russian Federation in 1950-1990 in the territory of
Mongolia in March 2018.**

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

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

1. Number of valid licenses (Apr 05, 2018)	3328
Mining licenses	1633
Exploration licenses	1695
2. Valid licensed area (Apr 05, 2018)	10,3 mln.ha
Mining licensed area	1,6 mln.ha
Exploration licensed area	8,7 mln.ha
3. Licensed area of Mongolian territory (Apr 05, 2018)	6,6%
Mining licensed area	1,0%
Exploration licensed area	5,6%
4. The role of Mining sector in Gross Domestic Product (2018)	21,73%*
5. Mining industry in Gross Industrial Output (1st quarter, 2018)	71,59%*
6. Mining industry in Gross Industrial Output (1st quarter, 2018)	
Copper metal concentrate	330,1 ths.t*
Molybdenium metal concentrate	1317,6 t*
Gold	1870,8 kg
Fluorspar concentrate	13,0 ths.t*
Iron ore	790,0 ths.t*
Zincum concentrate	23,4 ths.t*
7. Main minerals export (Jan-Mar, 2018)	
Flourspar ore and concentrate	1440,9 ths.t**
Copper concentrate	337,7 ths.t**
Zinc	32,9 ths.t**
Gold	2949,9 kg**
Coal	7924,4 ths.t**
8. Produced coal (Feb, 2018)	10827,0 ths.t
9. Sold coal (Feb, 2018)	10766,2 ths.t
10. Implementation of approved budget revenue plan (Mar, 2018)	21,4%
License fee	17,0%
Petroleum export	23,9%
Reimbursement	11,8%

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

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



1. GEOLOGICAL STATISTICS

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

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

Source: Data from Geology and Exploration Division, MRPAM



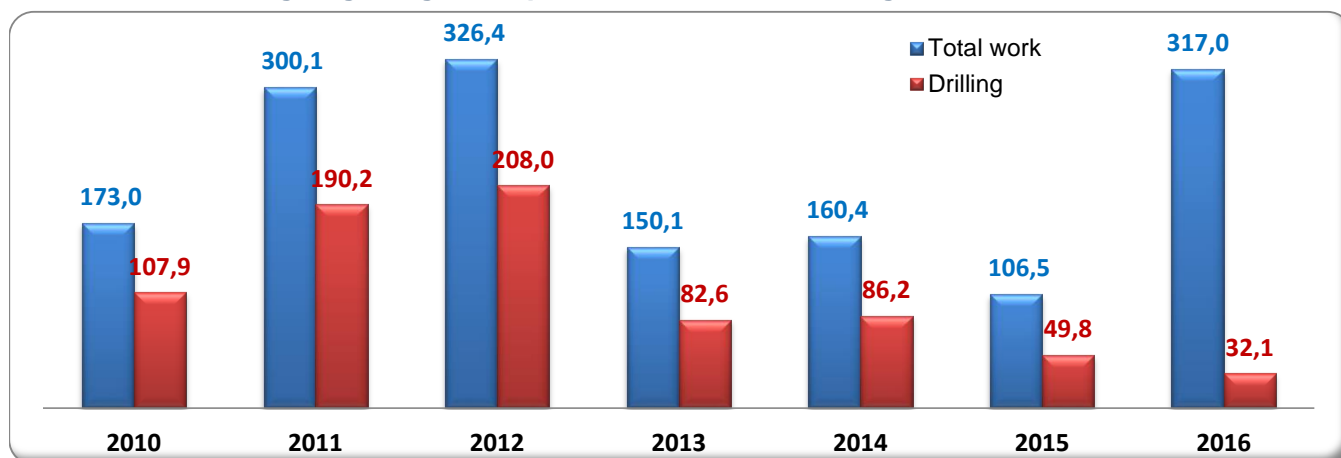
1.2. Geological and exploration survey conducted at expenses of the exploration license holders, mln.MNT, 2010-2016

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 in	4609,4	10475,1	18540,5	11 233,7	21 563,1	11 055,0	46 447,6	14,6
Environment reclam	675,1	699,8	1424,7	1 382,0	2 015,8	1 749,6	1 343,9	0,4
Field sampling	1547,9	2140,3	862,1	416,6	1 484,7	1 246,9	2 844,5	0,9
Geomorphology	0,0	0,0	11,0	25,3	0,0	20,6	-	-
Archeology	0,0	0,0	1070,9	528,3	123,0	96,8	231,2	-
Paleontology	0,0	0,0	925,4	448,9	88,3	43,3	-	0,1
Other	4752,0	3280,7	8092,8	5 328,7	1 506,9	4 791,0	39 264,9	12,4

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

Source: Reports from exploration license holders, MRPAM

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





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

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

continued 1.5

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

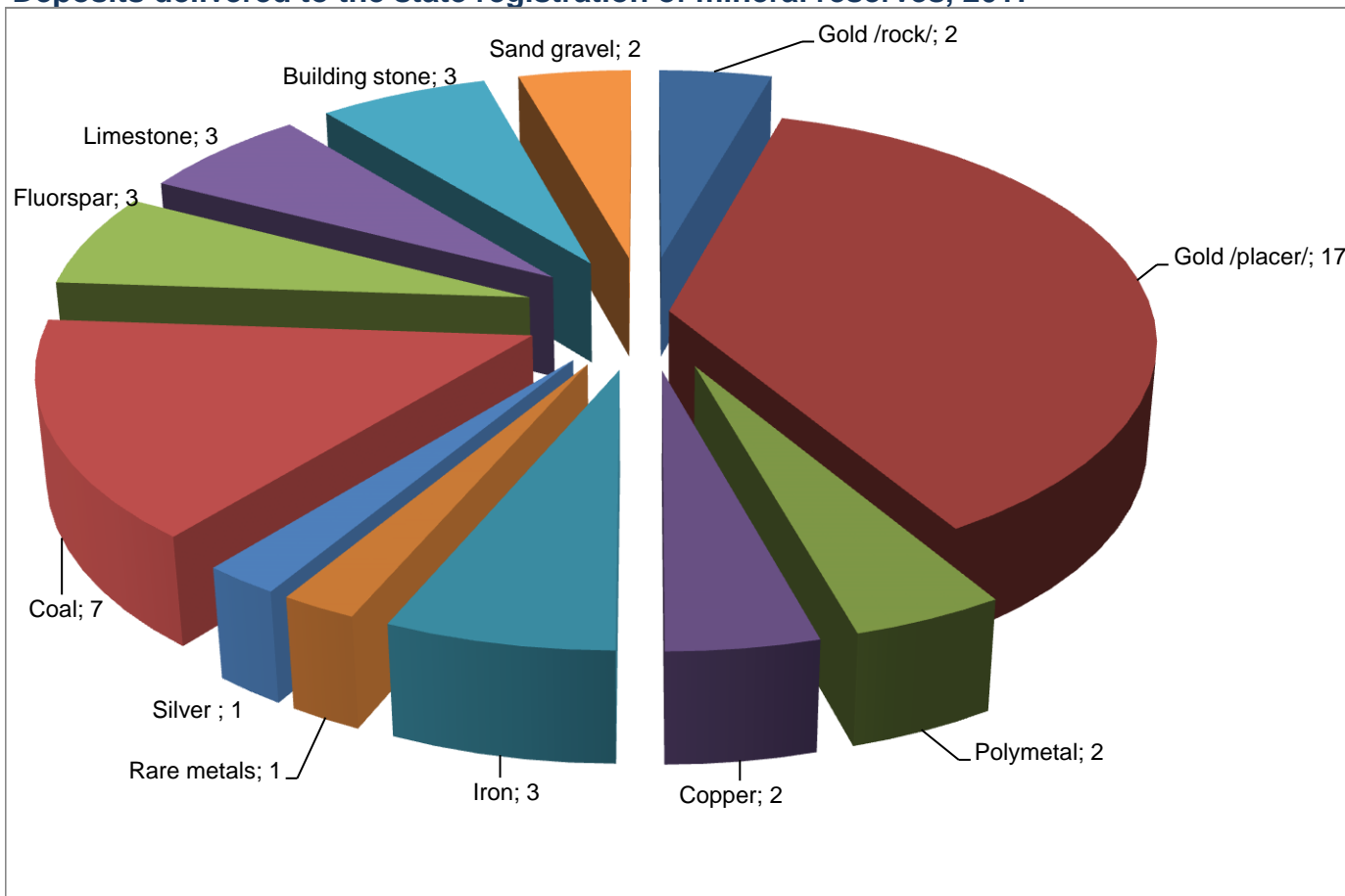
Source: Data from Geology and Exploration Division, MRPAM



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

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

Deposits delivered to the state registration of mineral reserves, 2017



Source: Data from Geology and Exploration Division, MRPAM

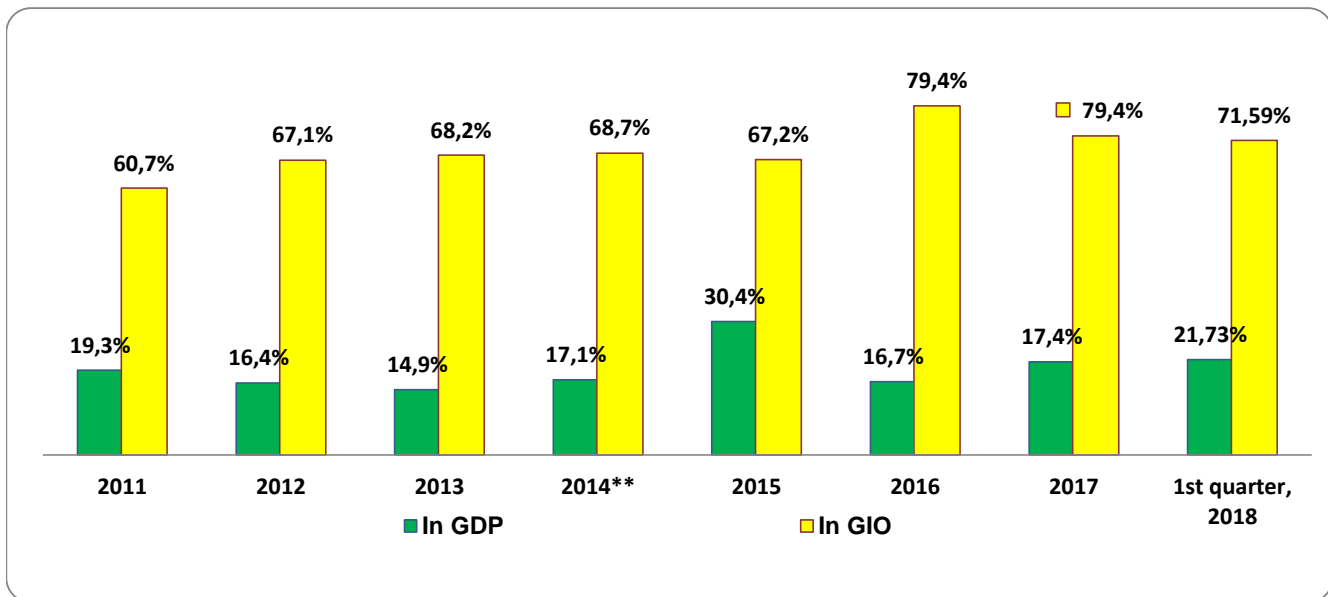


2. MINING STATISTICS

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

Production	2011	2012	2013	2014	2015	2016	2017	2018
Gross domestic production	13173,8	16688,4	19174,2	22227,1	23166,8	23 886,4	20 257,9	16992,1
Mining production	2536,2	2742,8	2849,4	3661,0	3867,7	3 984,8	4 291,3	3692,8
Gross industrial output	6185,6	5723,6	7651,7	9299,6	8714,4	9 927,1	12 932,7	3824,5
Mining and quarrying	3752,3	3839,7	5217,4	6388,9	5858,0	7 884,7	9 386,0	2737,8

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	1st quarter, 2018
Copper concentrate with metal grade, thous.t	347,4	347,6	533,3	712,0	890,7	1445,1	1 084,9	330,1
Molybdenum concentrate with metal grade, ton	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	4 673,7	1317,6
Gold, kg	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	17 397,5	1870,8
Fluorspar concentrate, thous.t	116,4	157,2	76,4	374,9	230,8	34,1	17,1	13
Iron ore, concentrate, thous.t	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	3 069,1	790
Zinc concentrate, thous	104,7	119,1	104,1	93,2	89,6	100,2	69,0	23,4
Tungsten concentrate, ton	12,6	66,0	-	-	-	-	-	-

Source: www.1212.mn, National Statistical Office

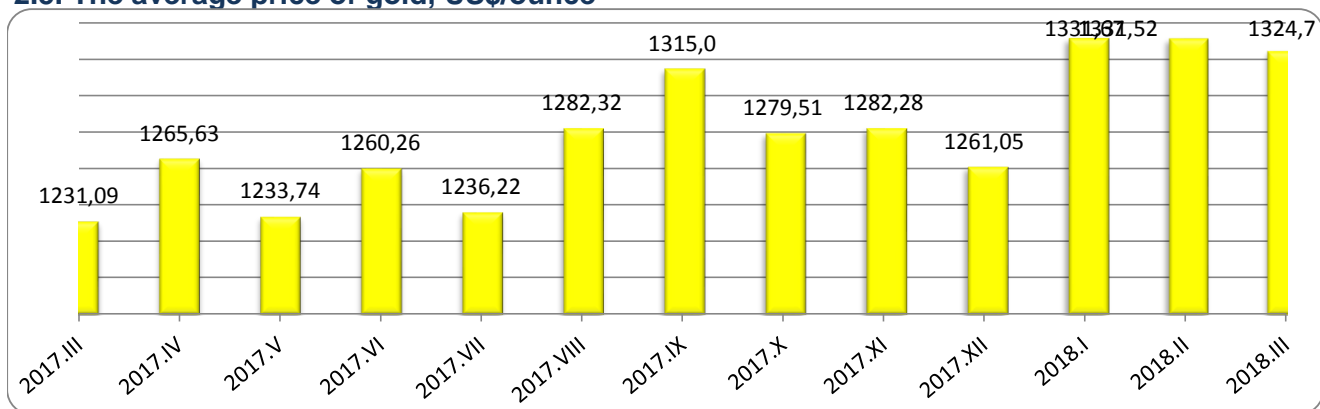


2.4. The average of commodity prices in the world market. US\$, 2013-2018

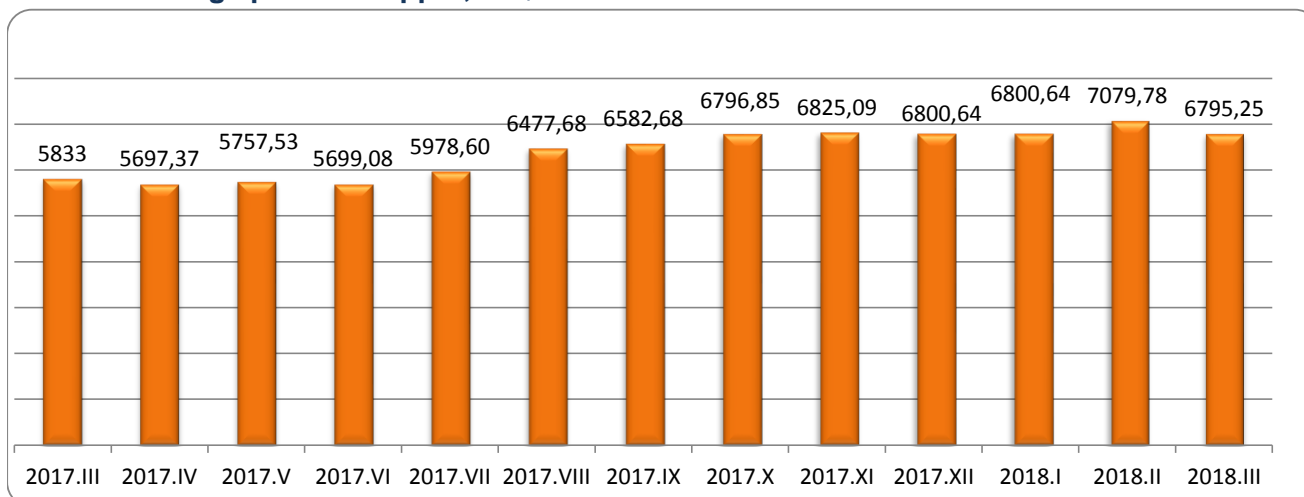
Number	Mineral commodities	Unit of measurement	2014	2015	2016	2017	Mar, 2018
1	Gold, ounce	\$/унци	1271,19	1160,09	1151,40	1257,11	1324,66
2	Silver, ounce	\$/унци	19,07	15,71	16,38	17,14	16,47
3	Copper, tons	\$/тн	6859,50	5501,03	5665,83	6162,36	6795,25
4	Zinc, tons	\$/тн	2161,05	1928,76	2671,34	2893,57	3280,03
5	Blue lead, tons	\$/тн	2095,44	1786,15	2230,30	2317,05	2396,45
6	Tin, tons	\$/тн	21909,93	16079,32	21274,13	20090,07	21202,98
7	Molybdenum, tons	\$/тн	25202,97	14618,15	15000,00	15665,13	20404,76
8	Tungsten, tons	\$/тн	50971,02	36082,38	32000,00	36011,13	43250,0
9	Iron ore, tons	\$/тн	93,11	49,82	62,00	54,28	50,53
10	Fluorite concentrate AG-97	\$/тн	305,66	283,29	260,00	345,38	500
11	Fluorite ore MG-85	\$/тн	240,00	244,33	250,00	293,88	360
12	Thermal coal	\$/тн	56,63	49,10	40,40	42,15	30,7
13	Coking coal	\$/тн	150,00	106,20	121,30	113,63	142

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

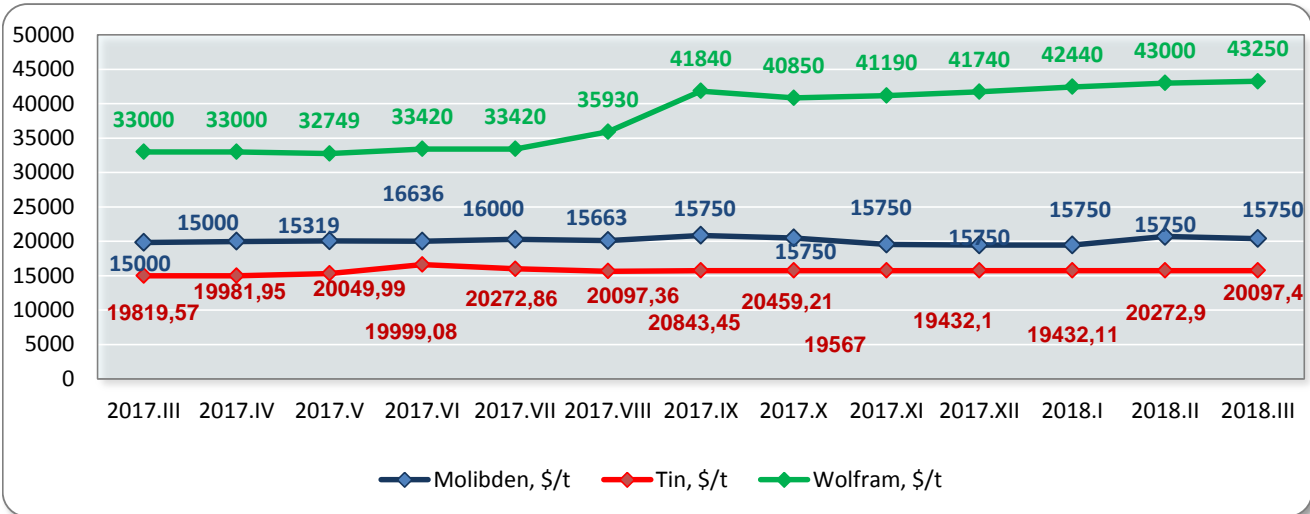


2.6. The average price of copper, US\$/tons

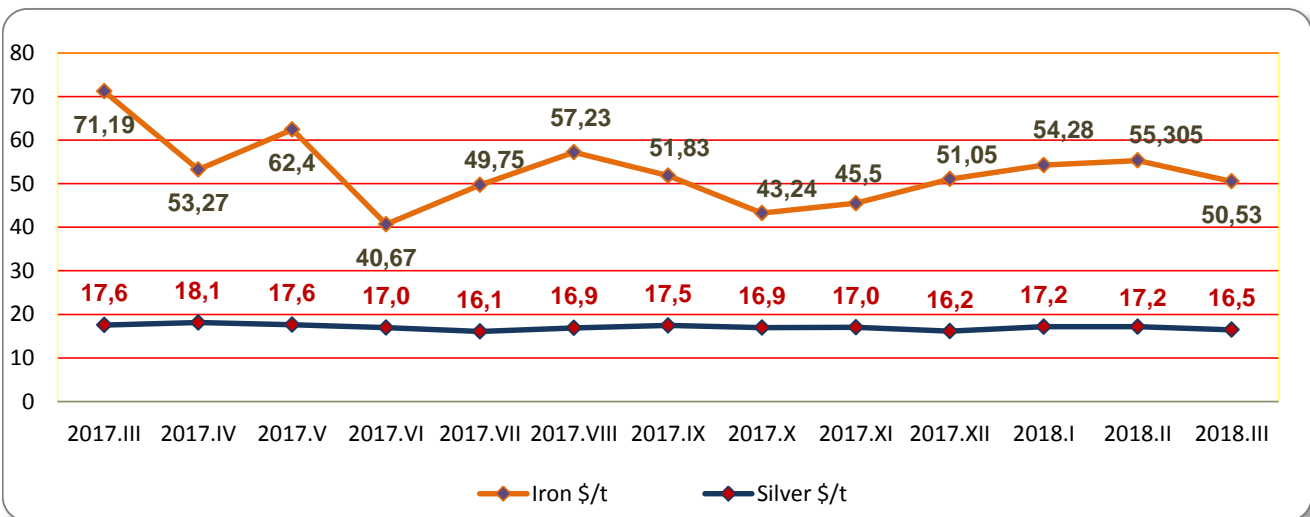




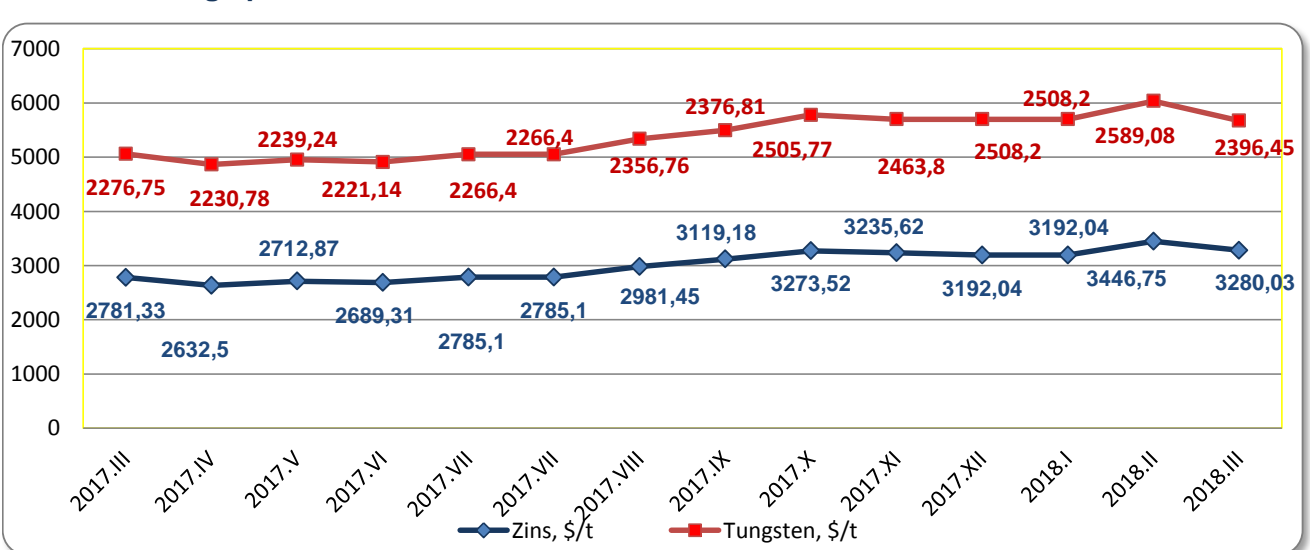
2.7. The average price of metals in the world market, last 12 months



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



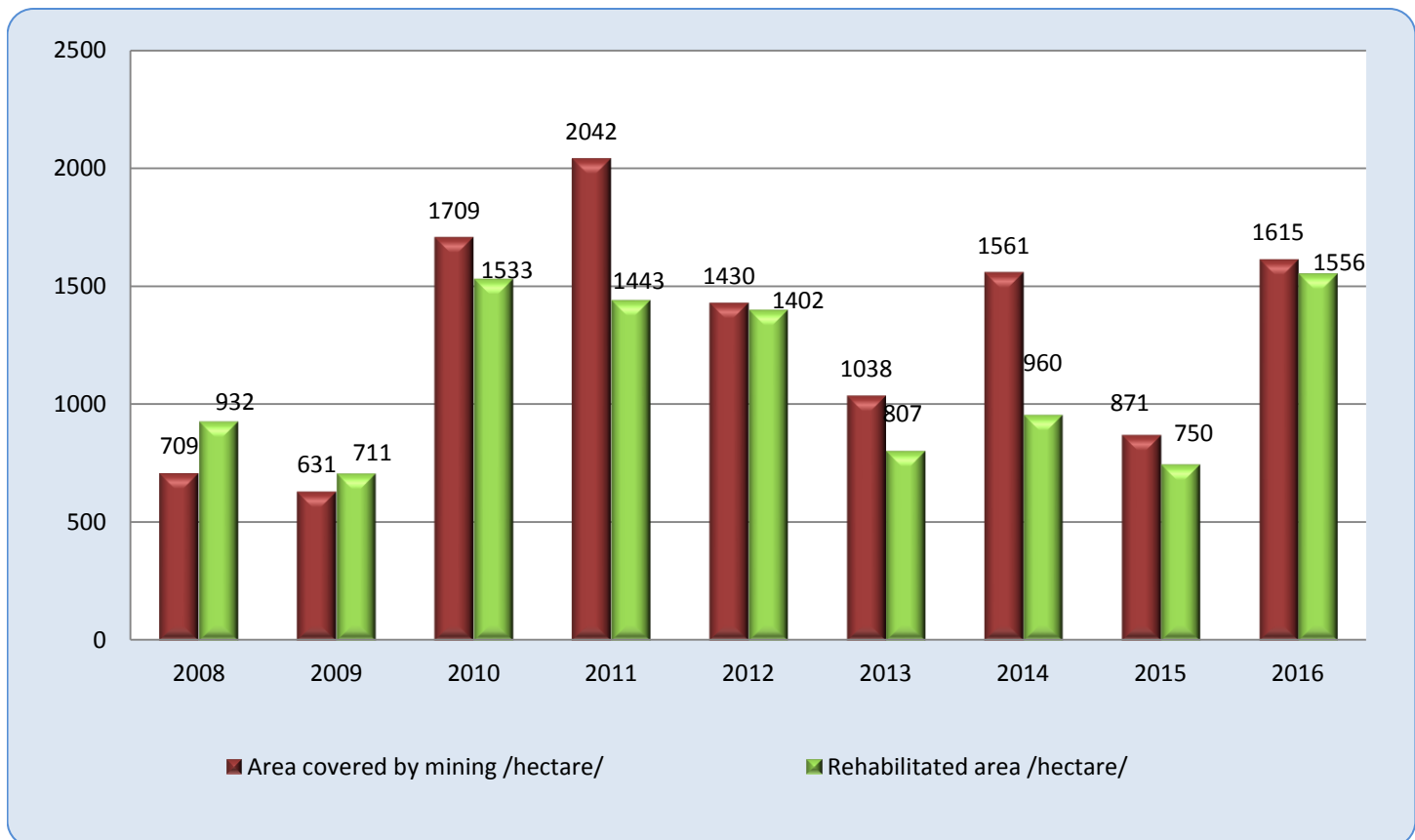
Source: www.Indmin.com, www.umetal.com www.sxcoal.com



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



2.12. Investments of companies registered with international stock exchange companies operating in Mongolia's mining sector /by the Apr 09, 2018/

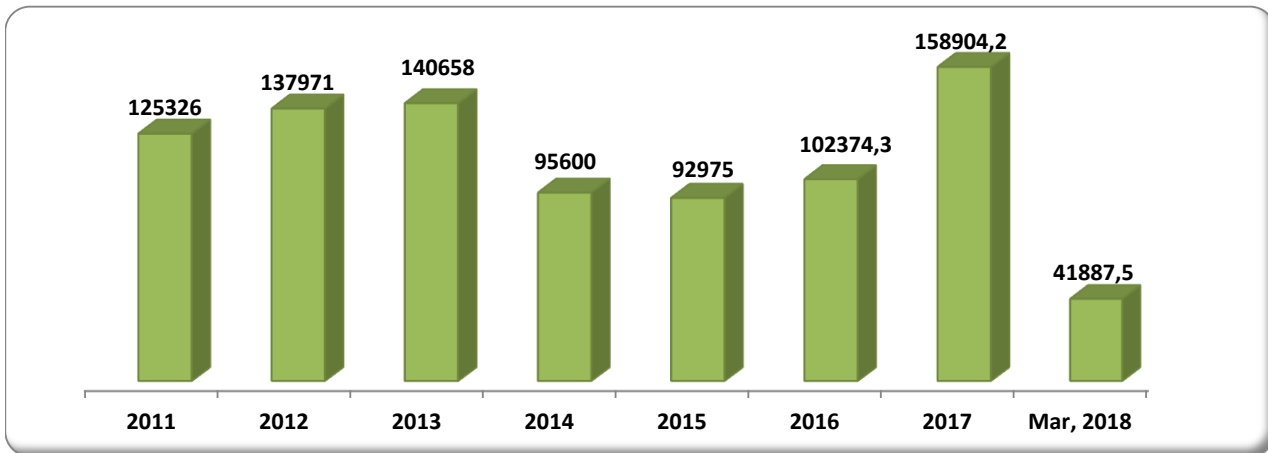
№	Company name	Exchange	Marking	Money unit	The average price of the shares						Market value, Apr 09, 2018
					2017 3rd quarter	2017 4th quarter	2017	Jan, 2018	Feb, 2018	Mar, 2018	
1	Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	3,09	3,15	3,08	3,36	2,86	3,22	5.70B
2	Peabody Energy Corporation	NYQ	BTU	USD	28,21	32,46	28,5	40,06	40,11	39,24	4.57B
3	Rio Tinto plc	LSE	RIO.L	GBp	3,507	3,622	3,412	4,017	3,961	3,669	62.65B
4	Mongolia Energy Corporation Limited	HKG	0276.HK	HKD	0,23	0,22	0,25	0,21	0,19	0,18	325.46M
5	Mongolian Mining Corporation	HKG	0975.HK	HKD	0,24	0,22	0,24	0,23	0,23	0,21	1.58B
6	South Gobi Resources Ltd.	HKG	1878.HK	HKD	1,68	1,46	1,76	1,33	1,24	1,15	269.27M
7	Centerra Gold Inc.	TOR	CG.TO	CAD	7,48	7,9	7,41	6,27	6,45	7,05	2.13B
8	Erdene Resource Development Corporation	TOR	ERD.TO	CAD	0,84	0,6	0,85	0,54	0,46	0,42	56.36M
9	Entrée Resources Ltd.	TOR	ETG.TO	CAD	0,56	0,61	0,6	0,71	0,57	0,52	85.37M
10	Prophecy Development Corp.	TOR	PCY.TO	CAD	3,44	4,57	4,01	3,85	3,17	2,84	19.80M
11	Kincora Copper Limited	VAN	KCC.V	CAD	0,33	0,33	0,39	0,25	0,22	0,16	10.01M
12	Altan Rio Minerals Limited	VAN	AMO.V	CAD	0,02	0,02	0,02	0,02	0,02	0,02	891
13	Xanadu Mines Limited	ASX	XAM.AX	AUD	0,2	0,28	0,22	0,28	0,24	0,23	111.85M
14	Aspire Mining Limited	ASX	AKM.AX	AUD	0,02	0,01	0,02	0,01	0,01	0,01	20.21M
15	Haranga Resources Limited	ASX	HAR.AX	AUD	0	0	0	0	0	0	1.45M
16	Tian Puh Resources Limited	ASX	TPO.AX	AUD		0,05	0,05	0,07	0,08	0,09	34.79M
17	Banpu Public Company Limited	SET	BANPU.BK	THB	16,85	17,55	18,11	21,54	21,76	21,34	102.72B
18	Petro Matad Limited	LSE	MATD.L	GBp	9,58	7,48	15,08	9,24	8,62	11,89	52.74M
19	Wolf Petroleum Limited	ASX	WOF.AX	AUD	0,02	0,02	0,03	0,02	0,02	0,01	7.59M

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

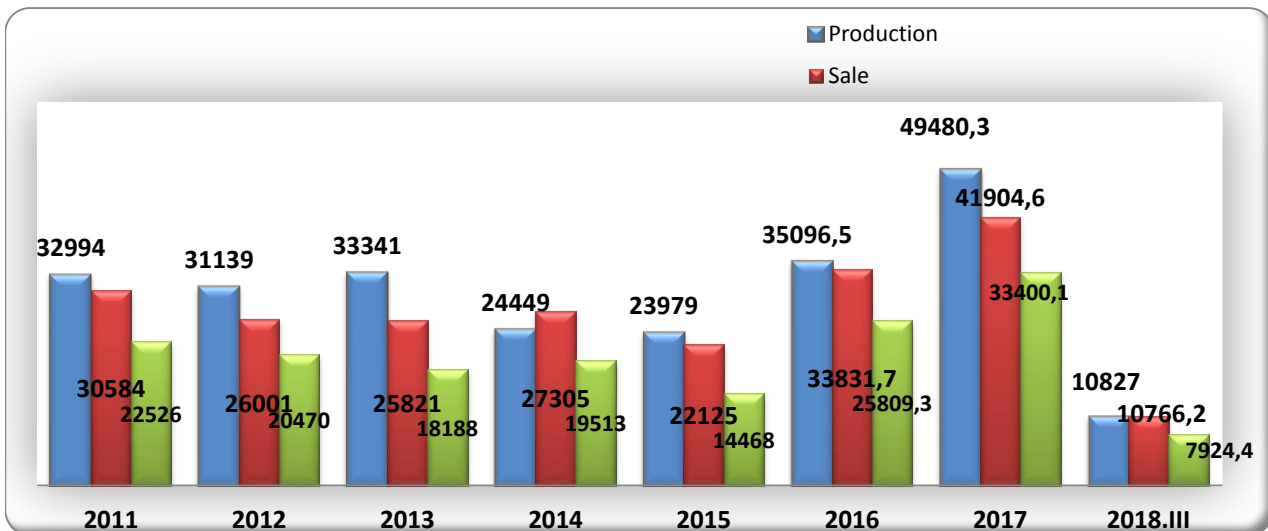


3. COAL STATISTICS

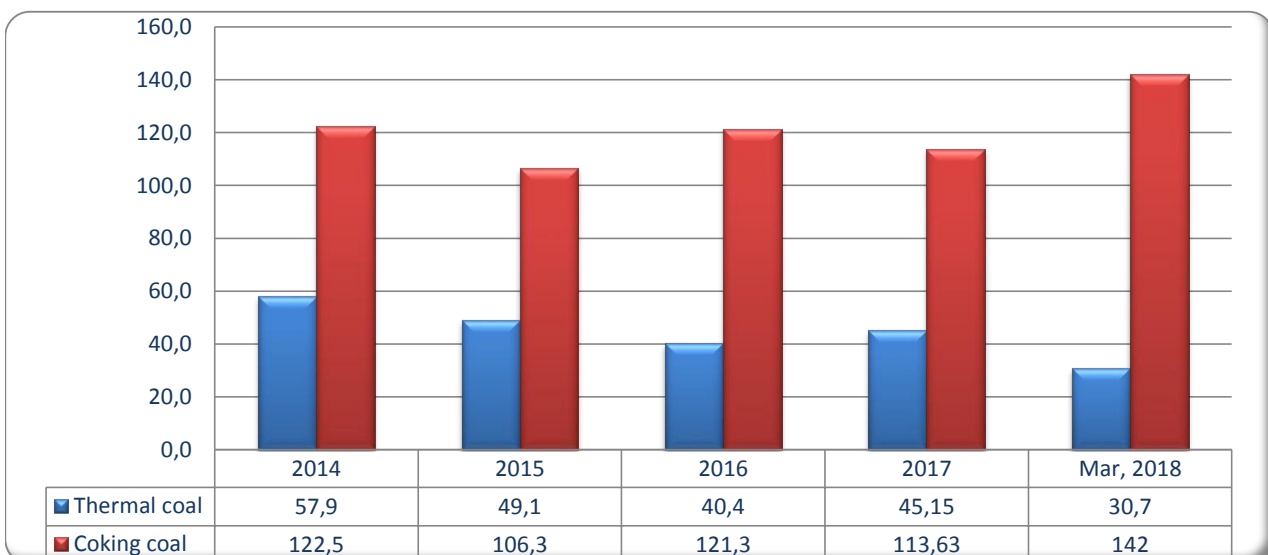
3.1. Striping, ths.m3



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



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



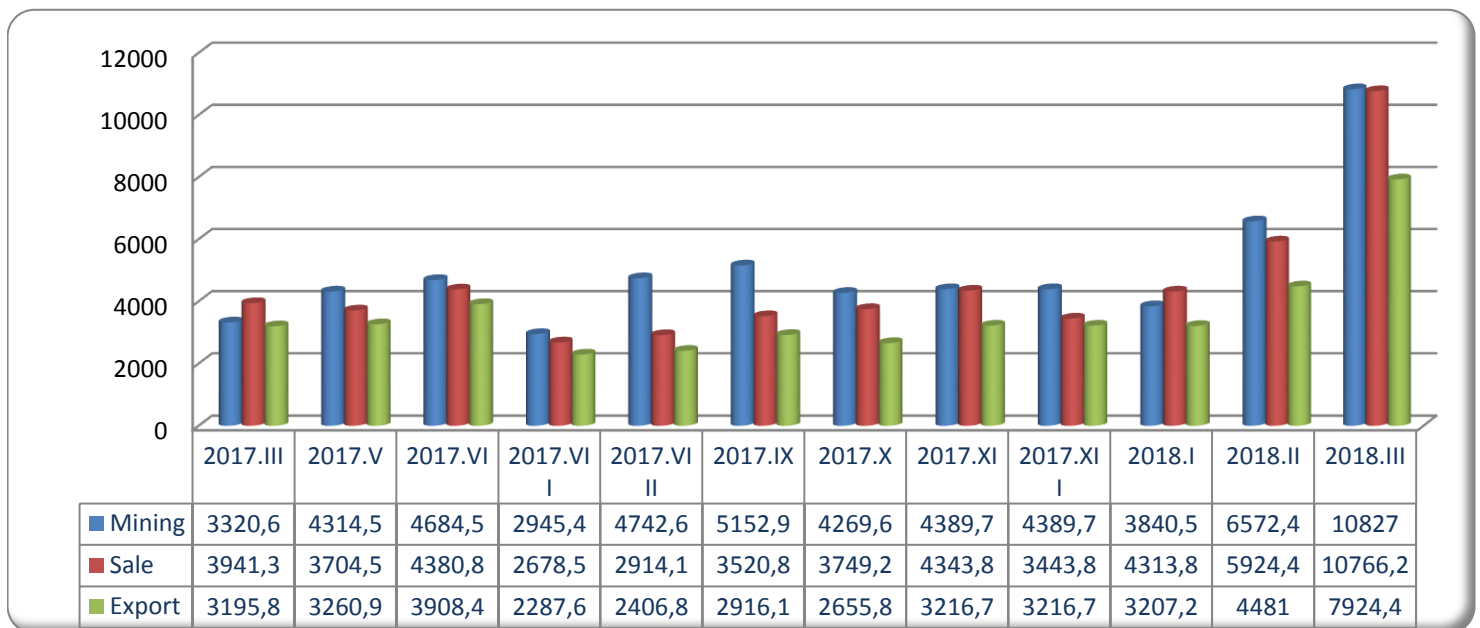
Source: Data from Coal mining companies to MRPAM
 infomine.com, <http://sxcoal.com/site/index?lang=en>



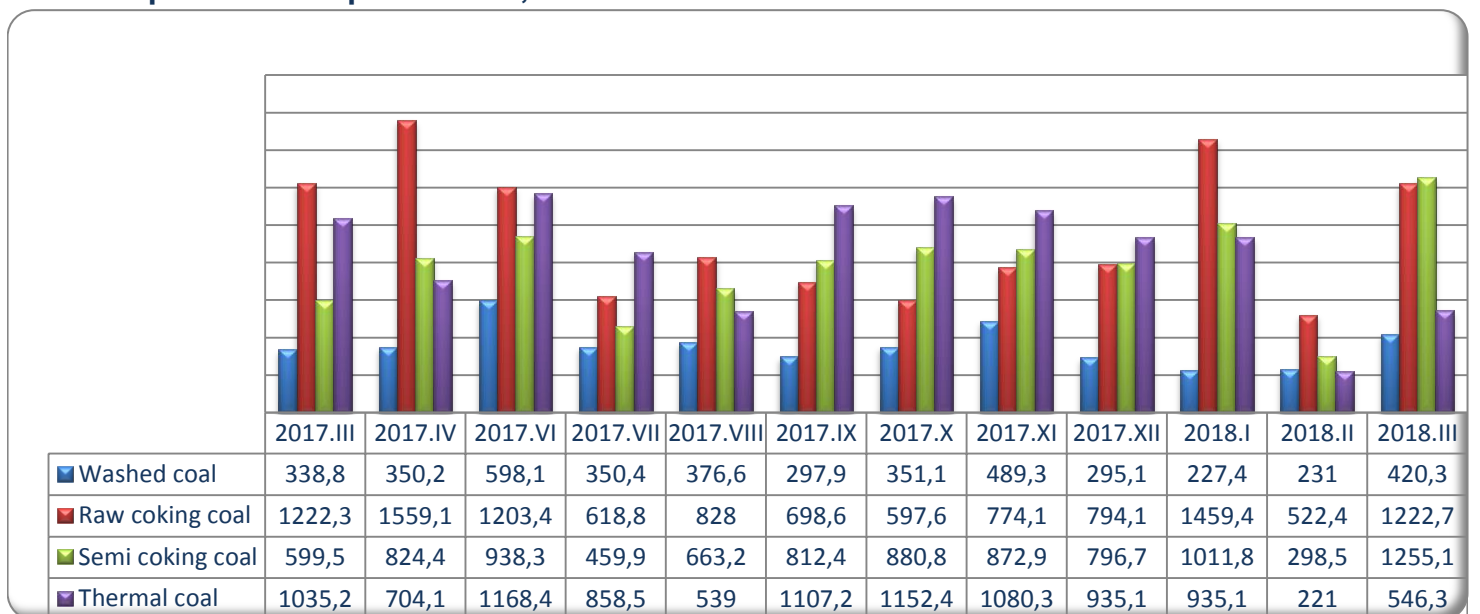
3.4. Stripping, mining, sale and export of Coal mines, Jan-Mar, 2018

Type	Stripping /ths.m3/	Mining /ths.t/	Selling /ths.t/	Export /ths.t/
Total	41 887,5	10 827,0	10 766,2	7 924,4
Energy coal mines	7062,3	2 313,6	2 364,4	-
Export coal mines	34 721,9	8 345,5	7 062,3	7 062,3
Local coal mines	103,3	167,7	1 339,5	-

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



3.6. Composition of exported coal, last 12 months



Source: Data form Coal mining companies to MRPAM



4. STATISTICS OF MINERAL LICENSES AND AREA

4.1. Number of valid licenses and area by provinces

Apr 05, 2018

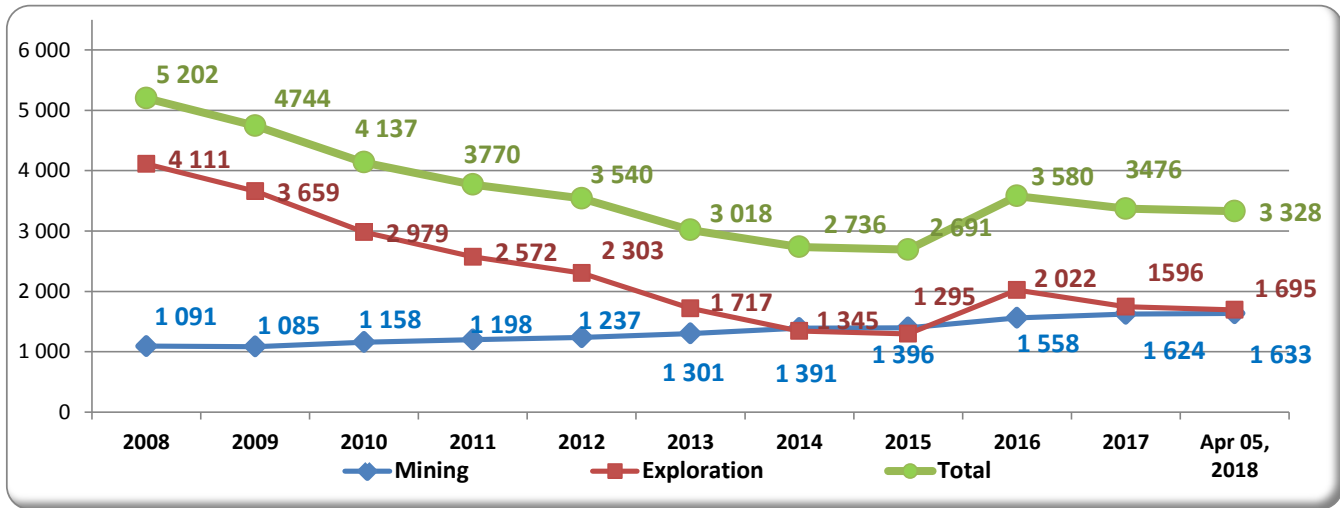
№	Aimags and capital city	Total			Thereof:					
					Mining			Exploration		
		Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory	Number of Licenses	Area /ths.ha/	Percent age of total territory
1	Arkhangai	35	30,3	0,5	26	12,6	0,23	9	17,7	0,32
2	Bayan-Ulgii	75	222,0	4,8	25	10,6	0,23	50	211,3	4,62
3	Bayankhongor	179	483,6	4,2	86	66,5	0,58	93	417,1	3,61
4	Bulgan	125	243,3	5,0	68	34,9	0,72	57	208,4	4,28
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	83	21,0	6,4	68	9,6	2,96	15	11,4	3,49
9	Dornogovi	412	1735,2	15,9	172	209,1	1,91	240	1526,1	13,96
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	549,3	6,7	8	13,8	0,17	81	535,5	6,48
13	Umnugovi	225	1607,0	9,7	98	532,7	3,22	127	1074,3	6,50
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	199	123,0	3,0	142	37,5	0,90	57	85,5	2,06
17	Tuv	456	488,8	6,6	305	144,3	1,95	151	344,5	4,66
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	531,1	6,6	107	40,6	0,50	152	490,4	6,08
Total		3328	10316,5	6,6	1633	1563,1	1,00	1695	8753,45	5,58

The total area of Mongolia is 1.56 million hectares

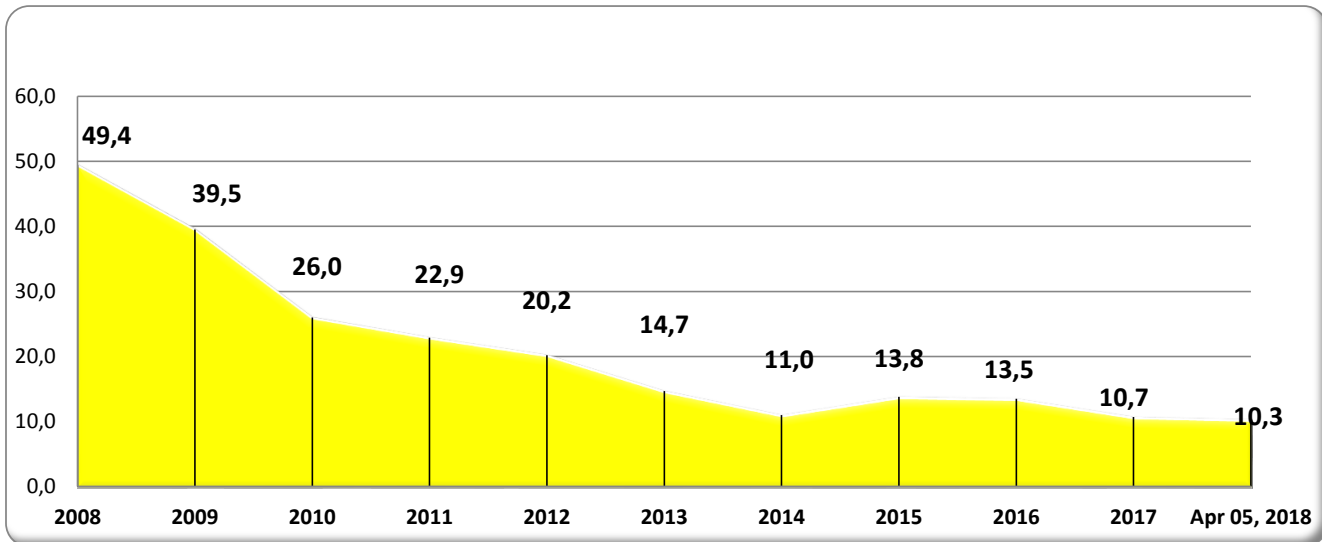
Explanation: Some licenses are crossing the boundaries of more than one aimag, thus increasing the number of each aimag.



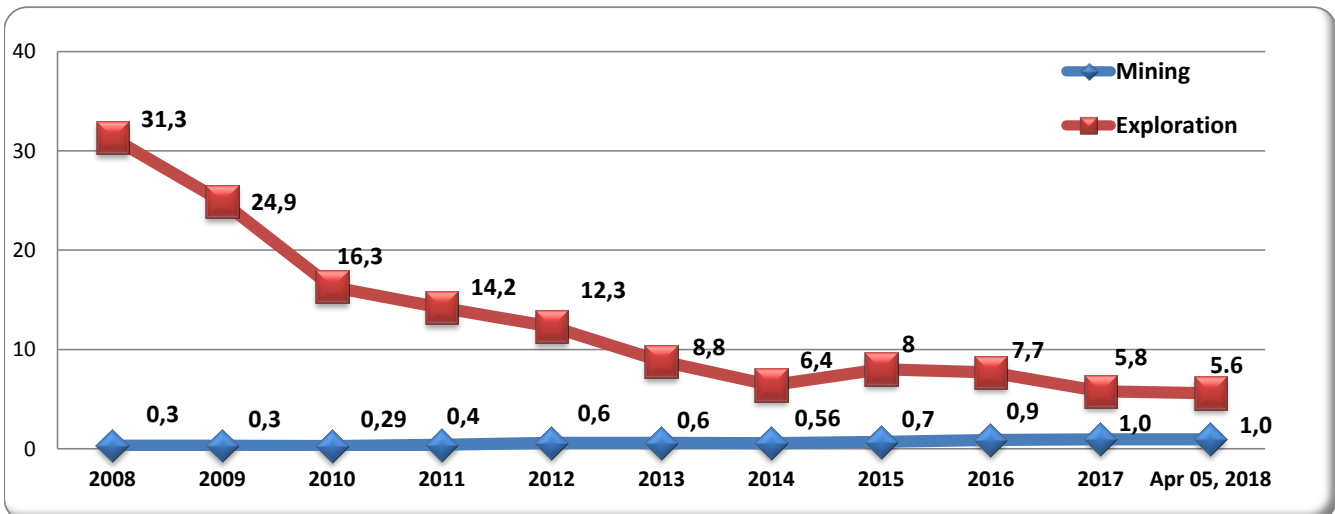
4.2. Number of valid licenses, 2008-Apr 05, 2018



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



4.4. Percentage of total area, 2008-Apr 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

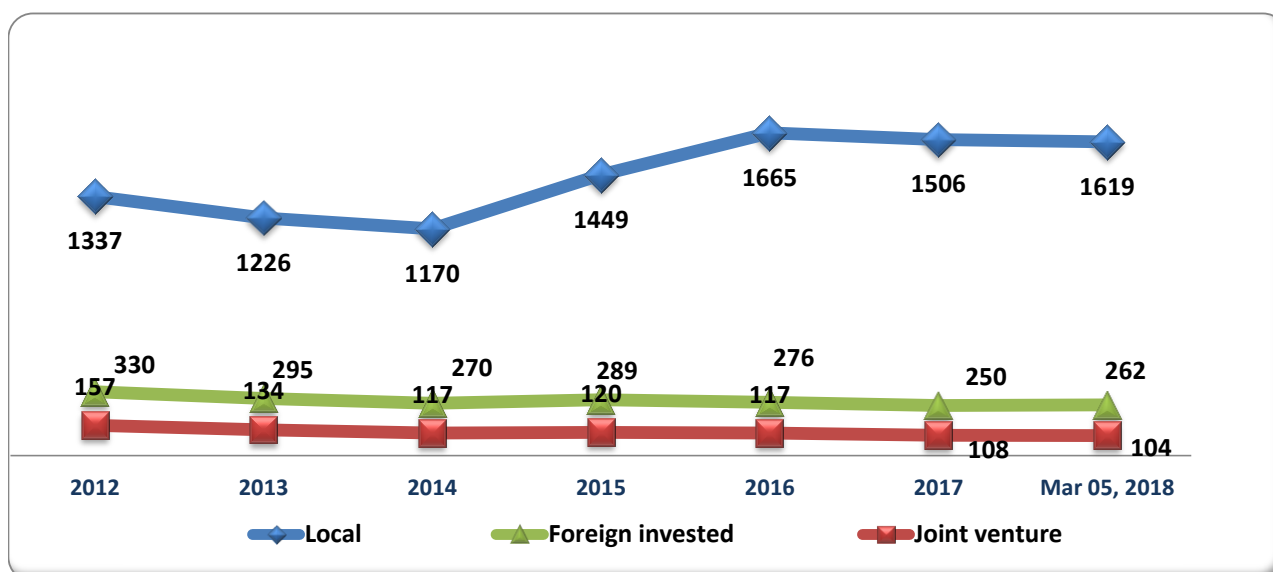
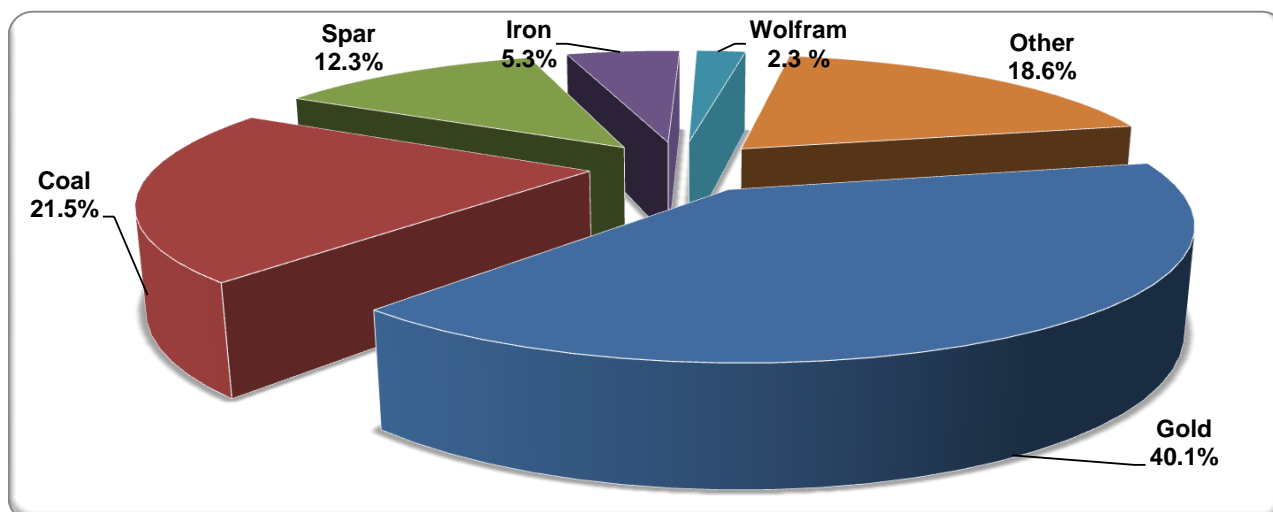
/Overlap/

Apr 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	8,7	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

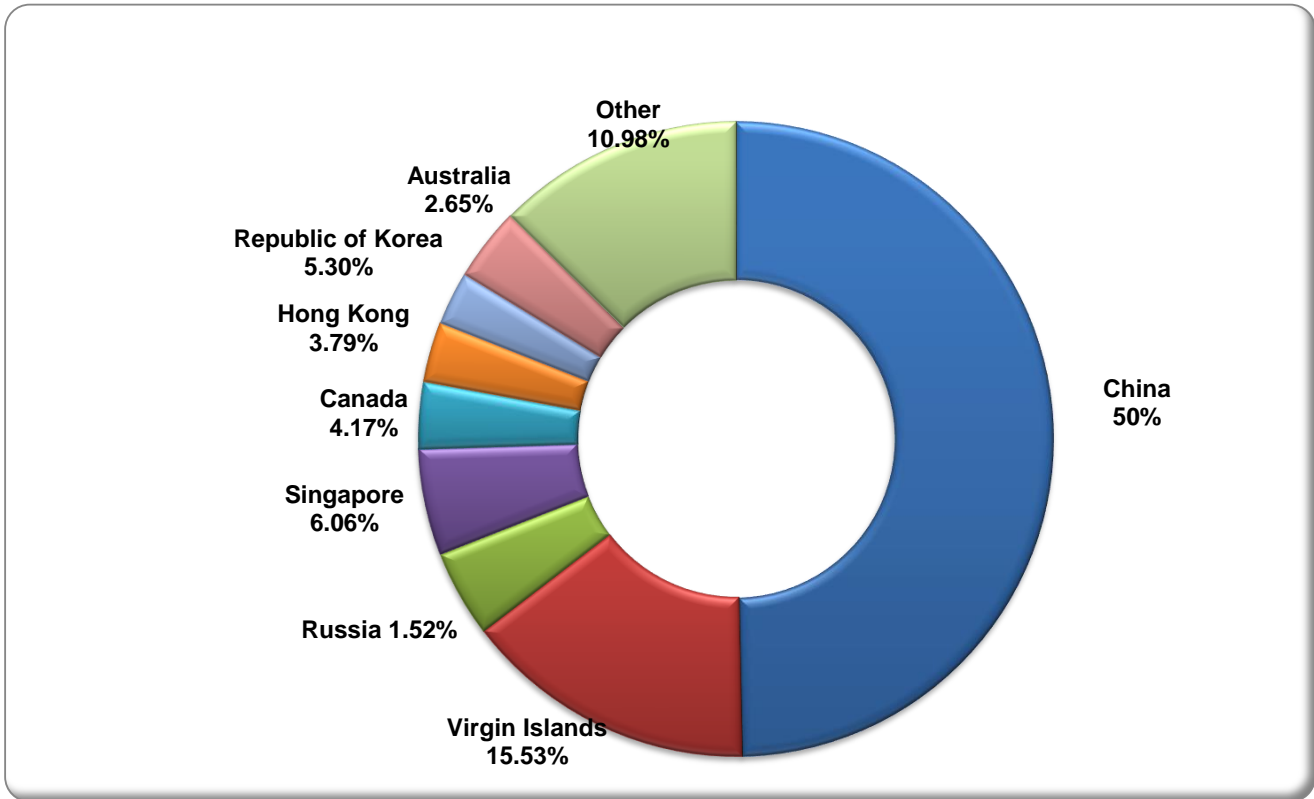
Apr 05, 2018



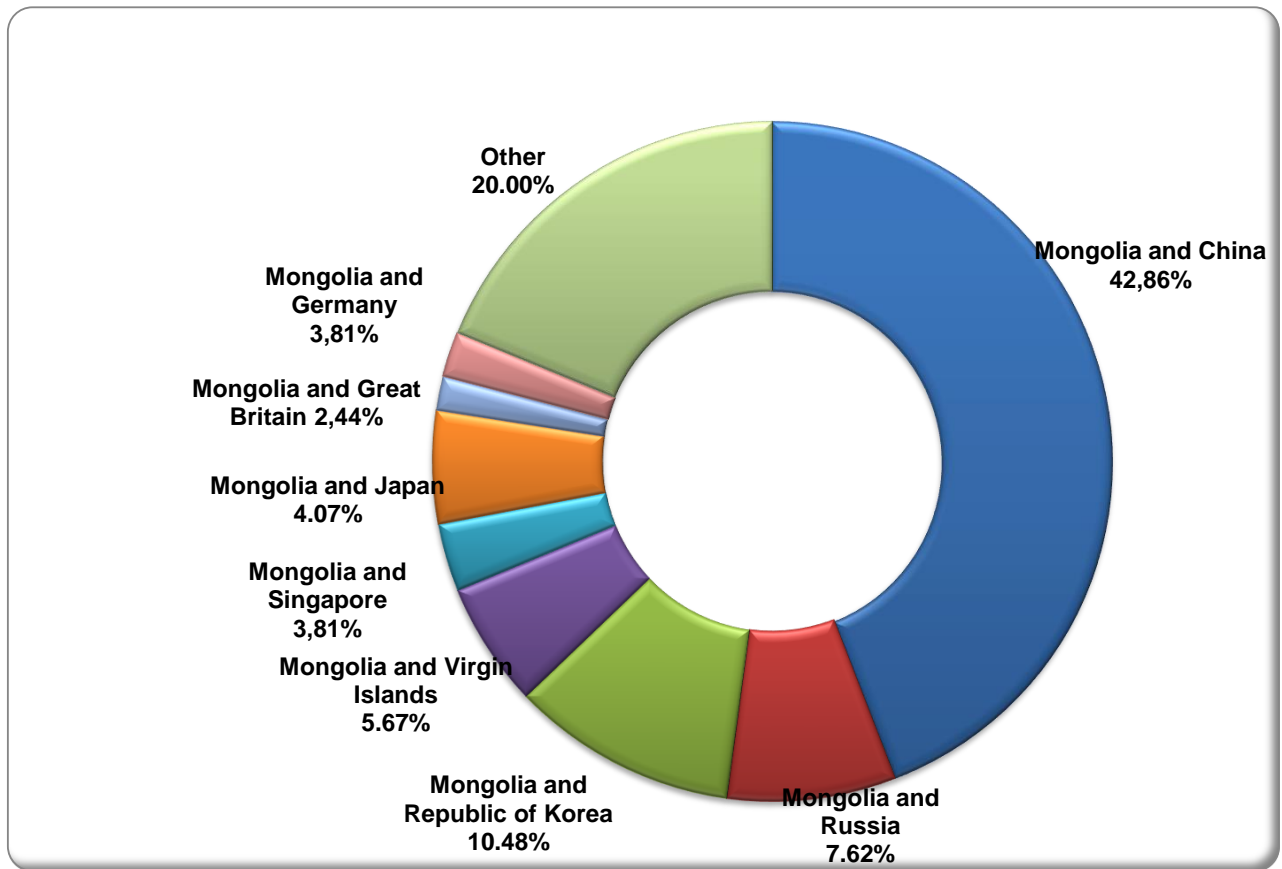
Source: Computerized mining cadastre system, MRPAM



4.8. Composition of foreign invested license holders by countries



4.9. Composition of the joint venture license holders by countries



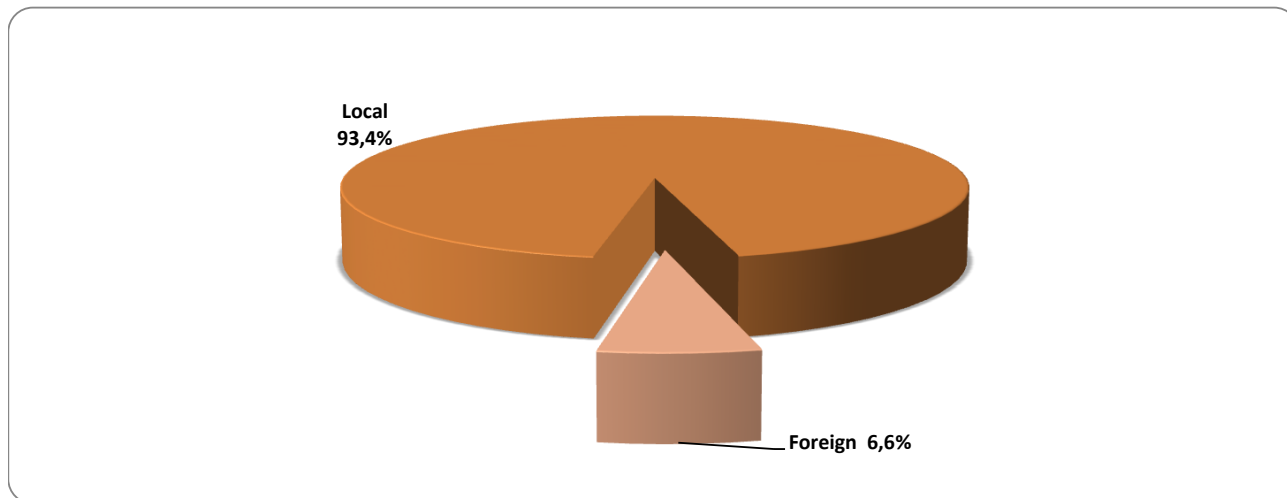
Source: Computerized mining cadastre system, MRPAM



4.10. Origin of license holders

Name of Country		Holder		License		Area /hectare/	
		Number	Percent	Number	Percent	Hectare	Percent
	Total	1983	100,0%	3328	100,00%	10 316 531,7	100,00%
1	Mongolia	1623	0,8184569	2663	0,80018029	7846550,41	76,88%
2	China	181	0,0912758	242	0,07271635	550658,34	5,22%
3	Virgin Islands	46	0,0231972	118	0,03545673	396806,49	3,82%
4	Republic of Korea	27	0,0136157	41	0,01231971	121200,76	1,11%
5	Singapore	21	0,01059	77	0,02313702	502700,5	4,84%
6	Canada	13	0,0065557	29	0,00871394	195733,98	1,90%
7	Hong Kong	12	0,0060514	30	0,00901442	237467	2,30%
8	Russia	12	0,0060514	15	0,00450721	8279,24	0,08%
9	Australia	7	0,00353	8	0,00240385	38042,21	0,37%
10	Germany	7	0,00353	29	0,00871394	111998,5	1,09%
11	Japan	6	0,0030257	7	0,00210337	13864	0,13%
12	Holland	5	0,0025214	21	0,0063101	133376,99	1,29%
13	Luxenburg	4	0,0020171	7	0,00210337	52526,28	0,51%
14	Great Britain	4	0,0020171	7	0,00210337	19669,24	0,19%
15	Czech Republic	4	0,0020171	8	0,00240385	20095,77	0,19%
16	Ukraine	2	0,0010086	2	0,00060096	291,84	0,00%
17	Bermud	2	0,0010086	4	0,00120192	4784,6	0,05%
18	USA	2	0,0010086	3	0,00090144	7314,33	0,07%
19	Poland	2	0,0010086	4	0,00120192	3167,83	0,03%
20	Seychelles	1	0,0005043	1	0,00030048	87,42	0,04%
21	Hungary	1	0,0005043	1	0,00030048	1561,28	0,00%
22	Switzerland	1	0,0005043	1	0,00030048	36390,95	0,00%
23	Bulgaria	1	0,0005043	4	0,00120192	10734,57	0,04%
24	Barbados	1	0,0005043	2	0,00060096	227,85	0,10%
25	New Zealand	1	0,0005043	2	0,00060096	2416,53	0,00%
26	Malaysia	1	0,0005043	1	0,00030048	551,23	0,02%
27	Kazakhstan	1	0,0005043	1	0,00030048	33,53	0,01%

4.11. License holders by Investors, Mar, 2018



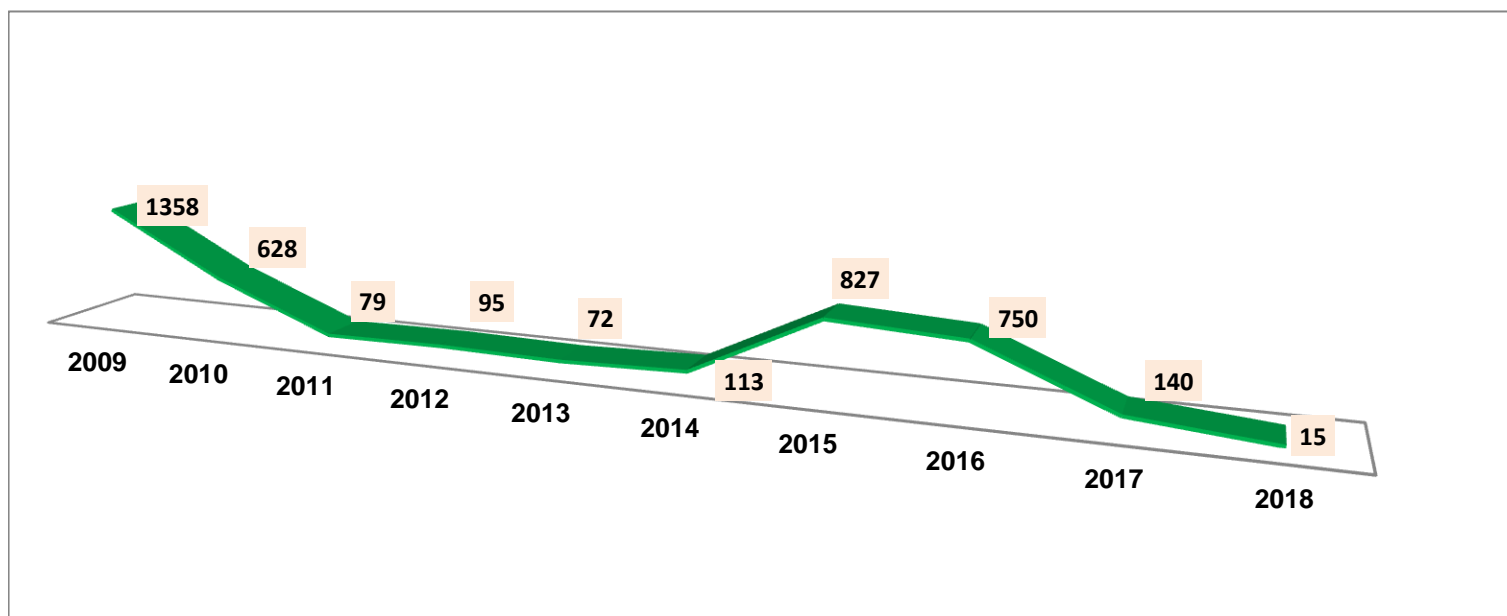
Source: Computerized mining cadastre system, MRPAM



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

Type of registration	2010	2011	2012	2013	2014	2015	2016	2017	Mar, 2018
1. New issued	235	79	95	72	113	827	750	140	11
<i>Mining</i>	90	79	95	72	97	91	93	65	7
<i>Exploration</i>	145	0	0	0	2	697	629	44	4
<i>Selection processed</i>	—	—	—	—	14	39	28	31	0
2. Reversed	105	89	141	146	119	150	166	72	26
<i>Mining</i>	6	4	7	16	13	25	25	9	0
<i>Exploration</i>	99	85	134	130	106	125	141	63	26
3. Canceled	458	275	270	347	123	173	241	220	41
<i>Mining</i>	39	65	139	43	14	10	37	35	2
<i>Exploration</i>	419	210	131	304	109	163	204	185	39
4. Expired	248	225	175	253	289	179	124	141	11
5. Transferred	448	441	200	8	51	88	146	122	31
<i>Mining</i>	59	58	47	8	38	46	50	58	15
<i>Exploration</i>	389	383	153	0	13	42	96	64	16
6. Extended	791	997	601	317	444	336	167	162	71
7. Pledged	50	62	38	61	40	22	29	36	9
<i>Mining</i>	36	39	22	42	34	22	27	32	9
<i>Exploration</i>	14	23	16	19	6	0	2	4	0
8. Terminated pledges		28	42	31	29	24	16	36	11
<i>Mining</i>		8	15	29	24	19	12	35	10
<i>Exploration</i>		20	27	2	5	5	4	1	1
9. Refunded		94	56	15	11	19	35	18	22
<i>Mining</i>		29	16	9	7	10	15	12	4
<i>Exploration</i>		65	40	6	4	9	20	6	18

4.13. Number of issued licenses, 2009-(Mar, 2018)

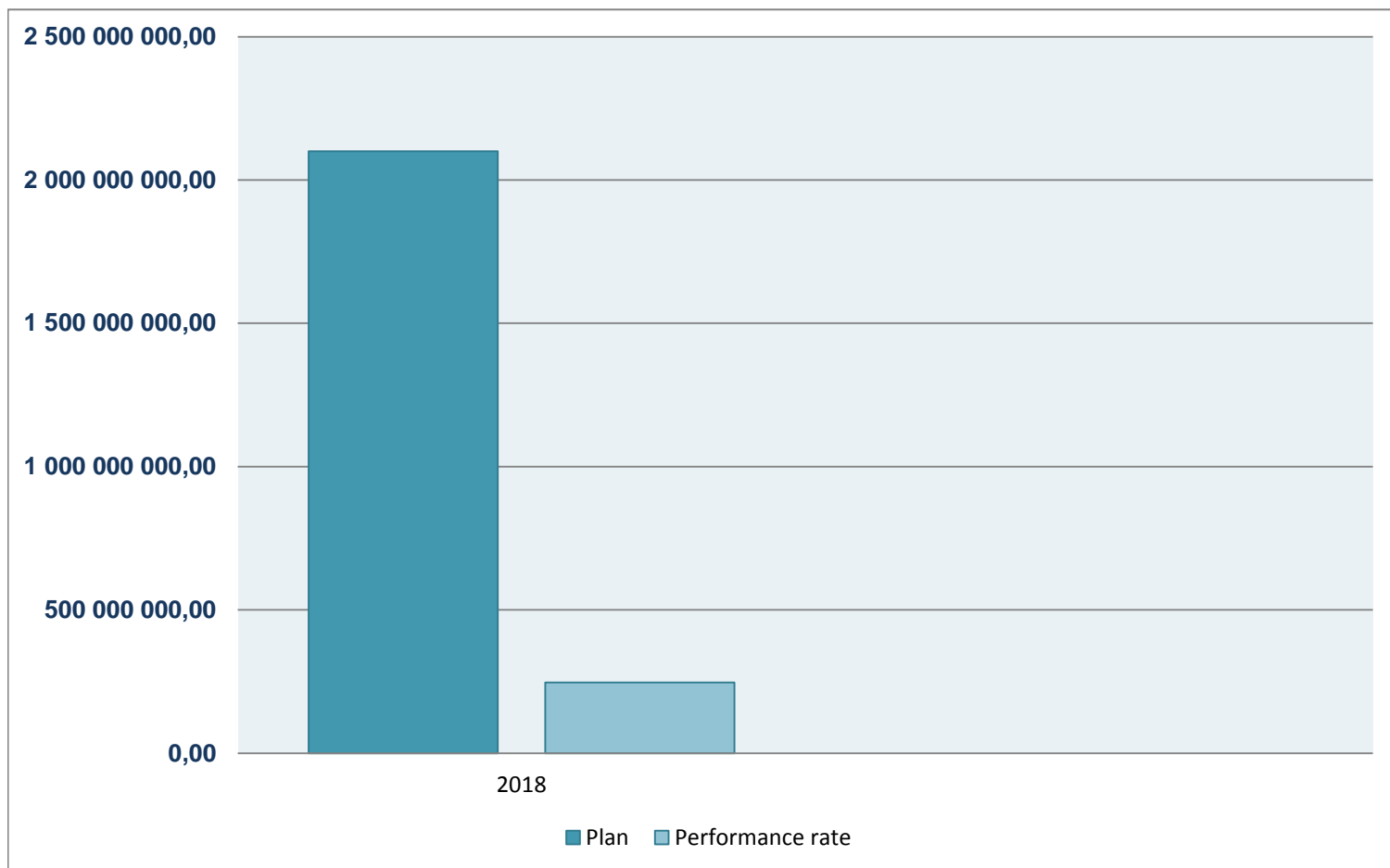


Source: Computerized mining cadastre system, MRPAM



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 246 811 546,42 was paid back by the March of 2018. /in increasing amount /



6. State investment revenue

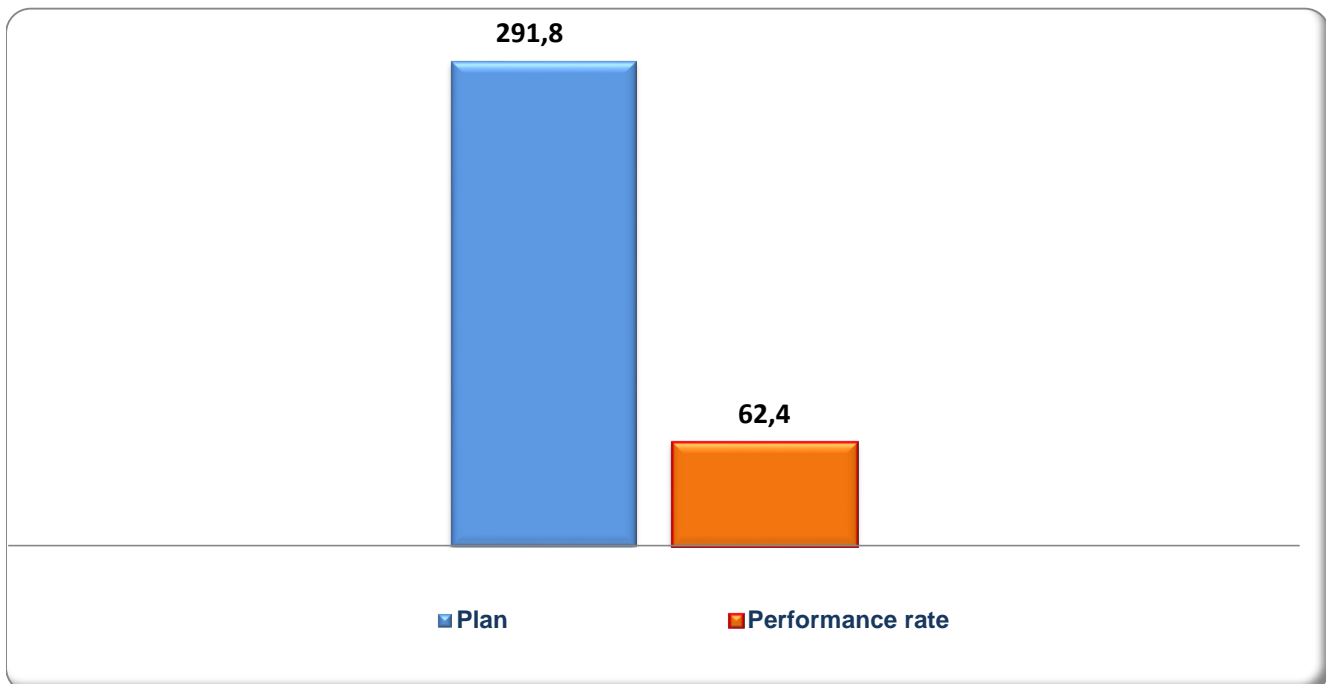
6.1. Budget revenue performance, MNT, Mar, 2018

Income type		Plan of 2018	Performance rate, Mar, 2018	Performance rate, Jan-Mar, 2018	Performance rate, 2018, %
№	State budget revenues	291 808 115 046	23 742 543 812	62 353 899 601	21,37%
1	License fee	37 000 000 000	2 014 218 302	6 296 099 444	17,02%
2	Reimbursement	2 100 000 000	71 367 102	246 811 546	11,75%
3	Petroleum revenues	223 448 349 919	13 895 601 970	53 328 441 023	23,87%
4	Other revenues /Service revenues/	6 109 765 127	2 176 739 621	2 482 547 588	40,63%
5	Own income /Selection of tender/	23 150 000 000	-	-	0%

Other revenues

№	Revenue type	Plan of 2018	Performance rate, Mar, 2018	Performance rate, Mar, 2018	Performance rate, Mar, 2018, %
1	Service revenue /mineral resources/	3 717 273 977	219 801 818	682 180 378	18,35%
2	Service revenue /petroleum/	2 392 491 150	180 267 104	1 795 367 209	75,04%

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

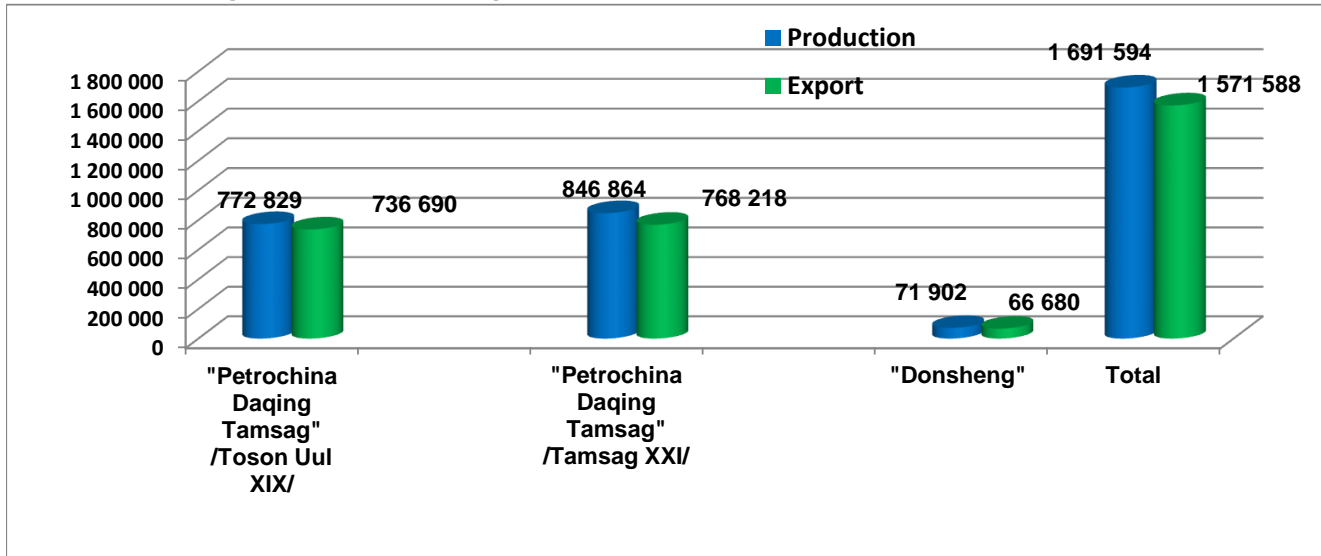


Source: Administration and Management Division, MRPAM



7. PETROLEUM STATISTICS

7.1. Petroleum production and export, barrel, Mar, 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	772 829	846 864	71 902	1 691 594
2	Export	736 690	768 218	66 680	1 571 588

7.3. Petroleum products importing, Mar, 2018 /tn/

No	Countries	A-80	AI-92	AI-95	AI-98	Diesel	Other /oil, fuel oil, bitumen and gas/
1	Russia	3 907,7	35 567,5	1 530,0	345,1	65 133,1	124,7
2	China	0,0	1 959,0	195,6	0,0	0,0	0,0
3	Korea	0,0	0,0	0,0	0,0	0,0	4 732,9
4	Other countries	0,0	0,0	0,0	0,0	0,0	8 164,8
Total		3 907,7	37 526,5	1 725,6	345,1	65 133,1	13 022,5

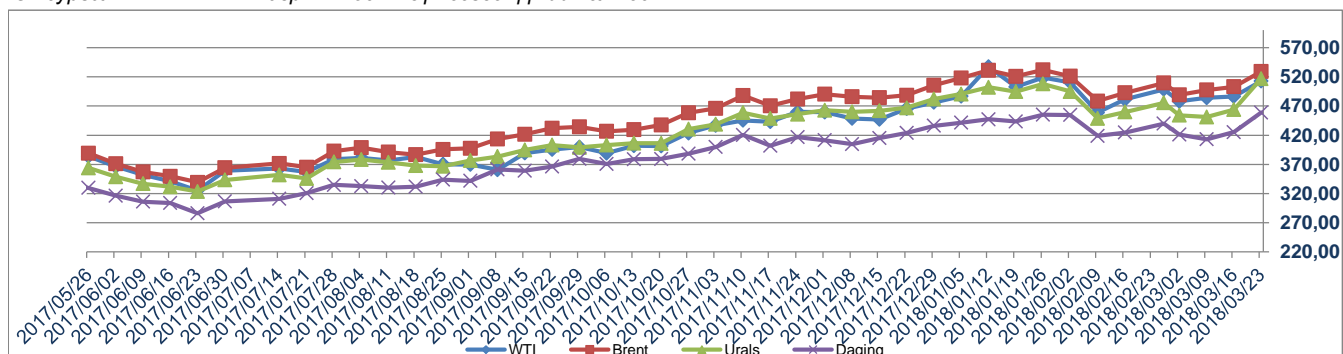
Source : Petroleum Product Division, MRPAM

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

ам.доллар/ тонн

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

Эх сурвалж: АМГТГ-ын Газрын тосны бүтээгдэхүүний хэлтэс



7.5. The average retail price of petroleum products sold throughout Mongolia, Mar, 20 /MNT/

Number	Zone name	Pillar center	Province, city	Type							
				A-80		AI-92		AI-95		DT	
				20 Mar	27 Mar	20 Mar	27 Mar	20 Mar	27 Mar	20 Mar	27 Mar
1	Western region	Khovd, Uliastai	Bayan-Ulgii	1650	1650	1800	1800	0	0	2080	2080
2			Govi-Altai	1750	1750	1860	1860	0	0	2140	2140
3			Zavkhan	1750	1820	1850	1920	2100	2100	2150	2260
4			Uvs	1670	1750	1850	1890	1850	1850	2100	2220
5			Hovd	1820	1820	1940	1940	2075	2075	2200	2200
The average price of western region				1 728	1 758	1 860	1 882	1 205	1 205	2 134	2 180
6	Hangai region	Kharkhorin, Erdenet	Arkhangai	1690	1690	1820	1820	2150	2150	2100	2100
7			Bayankhongor	1680	1680	1840	1840	0	0	2140	2140
8			Bulgan	1630	1630	1770	1770	2070	2070	2040	2040
9			Ovorkhangai	1660	1660	1820	1820	2300	2300	2100	2150
10			Orkhon	1620	1620	1760	1760	2070	2070	2040	2040
11			Selenge	1530	1580	1740	1730	2070	2040	2020	2010
12			Khuvsgul	1670	1670	1850	1850	2180	2180	2080	2080
The average price of hangai region				1 640	1 647	1 800	1 799	1 834	1 830	2 074	2 080
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1480	1580	1660	1730	2040	2040	2020	2010
14			Tuv	1520	1520	1740	1740	2040	2040	2 020	2 020
15			Darkhan	1580	1580	1730	1730	2040	2040	2020	2010
16			Govisumber	1640	1640	1780	1780	2050	2050	2100	2100
17			Dundgovi	1660	1660	1780	1780	2050	2050	2140	2140
18			Dornogovi	1650	1650	1780	1780	2050	2050	2080	2080
19			Umnugovi	1650	1650	1850	1850	2050	2050	2150	2150
20			Zamin Uud	1780	1780	1980	1980	2150	2150	2175	2175
The average price of central region				1 620	1 633	1 788	1 796	2 059	2 059	2 088	2 086
21	Eastern region	Choibalsan, Undurkhaan	Dornod	1680	1680	1830	1830	2100	2100	2100	2100
22			Sukhbaatar	1700	1700	1850	1850	2100	2100	2160	2160
23			Khentii	1630	1630	1780	1780	2050	2050	2100	2100
The average price of eastern region				1 670	1 670	1 820	1 820	2 083	2 083	2 120	2 120
State average price				1 665	1 677	1 817	1 824	2073	2071	2104	2116

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	2050	2010
2	"Sod Mongol" LLC	1 480	1 660	2050	2010
3	"Magnai trade" LLC	1 530	1 730	2040	2010
4	"Petrovis" LLC	1 480	1 660	2050	2010
Average price		1 518	1 695	2048	2010

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



8. Mining and petroleum examination and testing central laboratory statistics

Mar, 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	-	-	-	-	-	-	-
	Coal	Coking	Khangi	COA LLC	Ail bayan	0,9	10,3	27,1	0,39	6646	9,0	99,4
			Gashuun sukhait	Endens	Baruun, zuun tsankhi	3,2	15,0	27,9	1,05	6427	7,0	68,4
				Tavantolgoi	Tavan tolgoi 4rd orifice	2,7	15,6	26,1	0,95	6273	6,0	63,0
		Weak coking	Gashuun sukhait	Tavantolgoi	Tavan tolgoi 8 orifice	3,2	25,1	32,1	1,12	5998	4,0	42,1
			Shivee khuren	Uush zoos	Khuren shand	3,7	10,4	37,1	1,07	7083	7,5	73,0
				Tsagaan uvuljuu	Baruun noyon Uul	2,7	18,6	28,8	0,54	5837	7,5	70,2
				SGS LLC	Nariin sukhait	-	-	-	-	-	-	-
			Chinkhua	-		-	-	-	-	-	-	
			Mak LLC	-	-	-	-	-	-	-	-	
			Zamiin Uud		Mogoin gol	4,5	11,9	30,2	1,13	6909	8,0	87,5
		Non-coking coking	Khangi	COA LLC	Ail bayan	1,7	47,9	26,4	0,32	4021	3,5	39,1
			Gashuun sukhait	Tavan tolgoi	Tavan tolgoi iseldsen	4,7	17,4	34,0	1,04	6269	0,0	0,0
				Endens	ATT LLC	9,6	15,4	28,5	0,34	5982	0,0	0,0
			Shivee khuren	Usukh zoog	Khuren shand	6,6	13,1	27,1	0,43	6805	4,0	43,5
				Mak XXX	Nariin sukhait	19,8	25,3	40,9	0,84	3757	0,0	0,0
				Chinkhua Mak LLC	-	-	-	-	-	-	-	-
			Gavkhlant ord	Zangat Uul	-	-	-	-	-	-	-	
		Other	Zamiin Uud	Chingis Khar Alt LLC	Dalan	5,2	20,8	29,5	1,13	5537	0,0	0,0
				Shtain coal	Dalan Shtain	6,4	25,6	26,7	1,83	5534	0,0	0,0
				CIG LLC	Alagtolgoi IG	5,4	8,4	40,7	1,38	6579	0,0	0,0
	Friendship resource LLC			Dalan	6,5	23,6	33,4	1,50	5765	0,0	0,0	
	Brown coal	Bichigt	Erdeniin bosgo LLC	Bayantsogt	-	-	-	-	-	-	-	
			Circon geology LLC	Khoot	12,9	19,5	44,1	1,67	4904	0,0	0,0	
	Washed coal	Coal	Coking	Gashuun sukhait	Energy resource	Ukhaa khudag	-	-	-	-	-	-
				Yarant	Mo and Co LLC	Khoshoot	-	-	-	-	-	-
			Noncoking	Gashuun sukhait	Tumen zaag LLC	Ukhaa khudag	-	-	-	-	-	-
Gashuun sukhait				Energy resource LLC	Ukhaa khudag	-	-	-	-	-	-	
Cox	27,04-0010	Gashuun sukhait		Cox	0,5	14,2	1,7	0,41	6746	0,0	0,0	

Эх сурвалж: Уул уурхай, газрын тосны төв лаборатори



Mineral Resources and Petroleum Authority of Mongolia