



MINISTRY OF MINING
AND HEAVY INDUSTRY



MINERAL RESOURCES AND
PETROLEUM AUTHORITY OF
MONGOLIA

A collage of images related to mining and petroleum, including an excavator, an oil pumpjack, a mining truck, a conveyor belt, gold nuggets, and a large mining site.

***MINERAL RESOURCES AND
PETROLEUM STATISTICS
2018/IX***

www.mrpam.gov.mn

BACKGROUND

This "Mineral Resources and Petroleum Statistics" has been monthly published for you, Dear Customer, in printed and electronic versions since 2013 and we have begun updating the content and version of the compendium, depending on the characteristics of our subscribers, the frequency of news, and the evolution of modern statistics. If you have any further questions, please send us the following address and telephone to assist us.

Address::

Monitoring, Evaluation and Statistics Division
of Mineral Resources and Petroleum Authority
Government building 12, Barilgachdyn talbai 3,
Chingeltei district, Ulaanbaatar 15170, Mongolia

Tel: 70183111

Fax: 11-310370

E-mail: info@mrpam.gov.mn

Web: www.mrpam.gov.mn

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KEY INDICATORS

Valid mining and exploration licenses 3189 (2018.X.05)	Valid licensed area size 9,5 mln.ha (2018.X.05)	Percent of total area in Mongolia's territory 6.0% (2018.X.05)
The average price of gold 1198,5 US\$/ounce (2018.IX)	The average price of copper 6019.6 US\$/tons (2018.IX)	Thermal coal on the world market average price 31.0 US\$/tons (2018.IX)
Coking coal on the world market average price 133.7 US\$/tons (2018.IX)	Coal production 36'767,5 ths.tons (2018.I-IX)	Coal sale 33'388,6 ths.tons (2018.I-IX)
Coal export 27'299,6 ths.tons (2018.I-IX)	Petroleum production 5'009'669 barrel (2018.I-IX)	Petroleum export 4'811'791 barrel (2018.I-IX)
Petroleum import 162'362,6 tons (2018.IX)	Gasoline A-80 national average price 1783 MNT (2018.IX.25)	Gasoline AI-92 national average price 1917 MNT (2018.IX.25)
Gasoline AI-95 national average price 2163 MNT (2018.IX.25)	Diesel fuel national average price 2215 MNT (2018.IX.25)	Performance rate of budget revenue 81.5% (2018.I-IX)



I. STATISTICS OF MINERAL LICENSES AND AREA SIZE

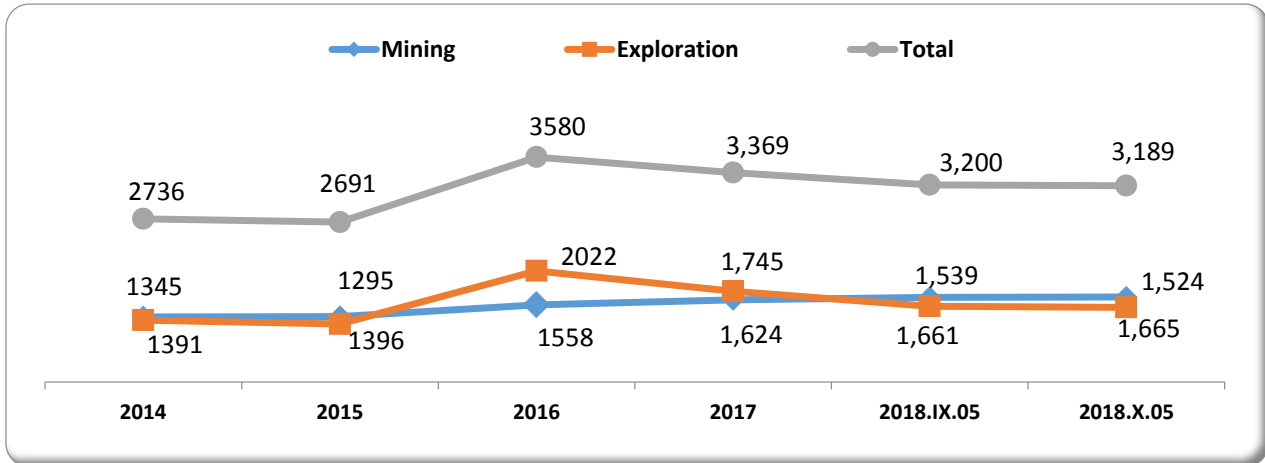
1.1. COUNT OF VALID LICENSES AND AREA SIZE, /by provinces, 2018.X.05/

Aimag and capital city	TOTAL			Of which:					
	Count of Licenses	Area size /ths.ha/	Percent of total territory	Mining			Exploration		
				Count of Licenses	Area size /ths.ha/	Percent of total territory	Count of Licenses	Area size /ths.ha/	Percent of total territory
TOTAL	3189	9458.8	6.0	1665	1577.4	1.01	1524	7881.4	5.02
Arkhangai	37	73.6	1.3	26	12.6	0.23	11	61.1	1.10
Bayan-Ulgii	67	181.6	4.0	26	12.3	0.27	41	169.2	3.70
Bayankhongor	168	431.1	3.7	89	83.5	0.72	79	347.6	3.01
Bulgan	118	178.4	3.7	69	34.9	0.72	49	143.5	2.95
Uvurkhangai	51	114.1	1.8	29	15.7	0.25	22	98.4	1.57
Govi-Altai	176	902.9	6.4	51	86.3	0.61	125	816.6	5.76
Govisumber	17	58.7	10.6	13	38.9	7.02	4	19.8	3.58
Darkhan Uul	78	13.9	4.3	66	7.8	2.40	12	6.1	1.86
Dornogovi	401	1643.7	15.0	177	213.0	1.95	224	1430.7	13.08
Dornod	170	539.5	4.4	71	57.1	0.46	99	482.4	3.91
Dundgovi	219	860.4	11.5	98	158.8	2.13	121	701.6	9.40
Zavhan	81	458.0	5.5	9	14.1	0.17	72	443.9	5.38
Umnugovi	213	1378.7	8.3	99	514.1	3.11	114	864.6	5.23
Orkhon	9	11.1	13.2	9	11.1	13.16	0	0.0	0.00
Sukhbaatar	104	427.7	5.2	63	51.7	0.63	41	376.0	4.57
Selenge	196	118.7	2.9	142	38.1	0.92	54	80.5	1.94
Tuv	443	456.1	6.2	302	148.1	2.00	141	308.0	4.16
Uvs	151	547.5	7.9	46	20.8	0.30	105	526.7	7.57
Ulaanbaatar	184	14.0	3.0	170	12.5	2.65	14	1.5	0.31
Khuvsgul	36	94.4	0.9	21	9.2	0.09	15	85.2	0.84
Khovd	124	372.0	4.9	33	13.4	0.18	91	358.6	4.72
Khentii	256	507.2	6.3	115	48.2	0.60	141	459.0	5.69

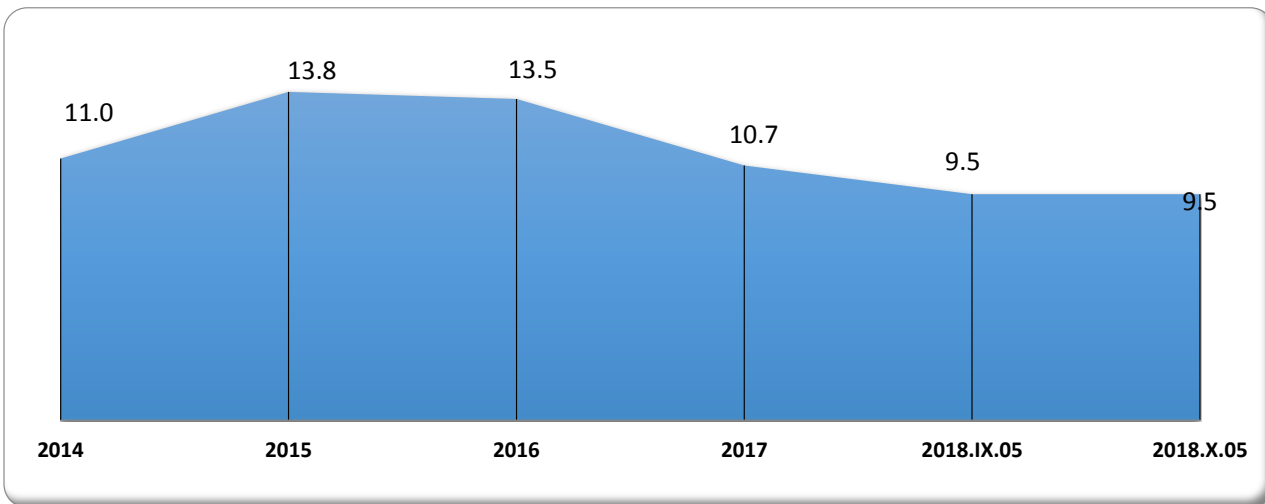
Source: Cadastre Division, MRPAM



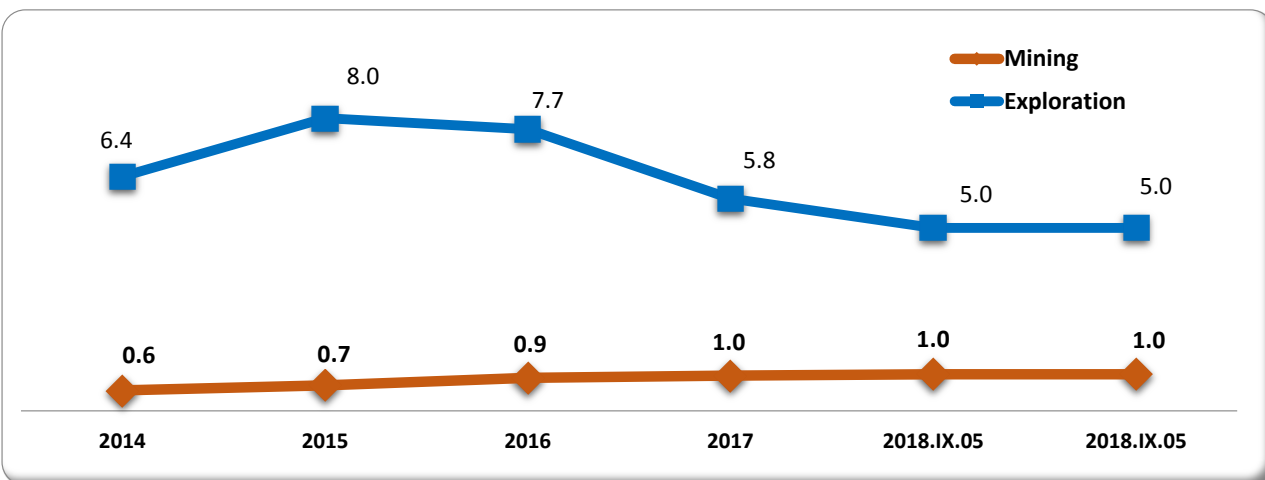
1.2. COUNT OF VALID LICENSES, 2014-2018



1.3. VALID LICENSED AREA /mln.ha, 2014-2018/



1.4. PERCENT OF TOTAL AREA IN MONGOLIA'S TERRITORY, 2014-2018



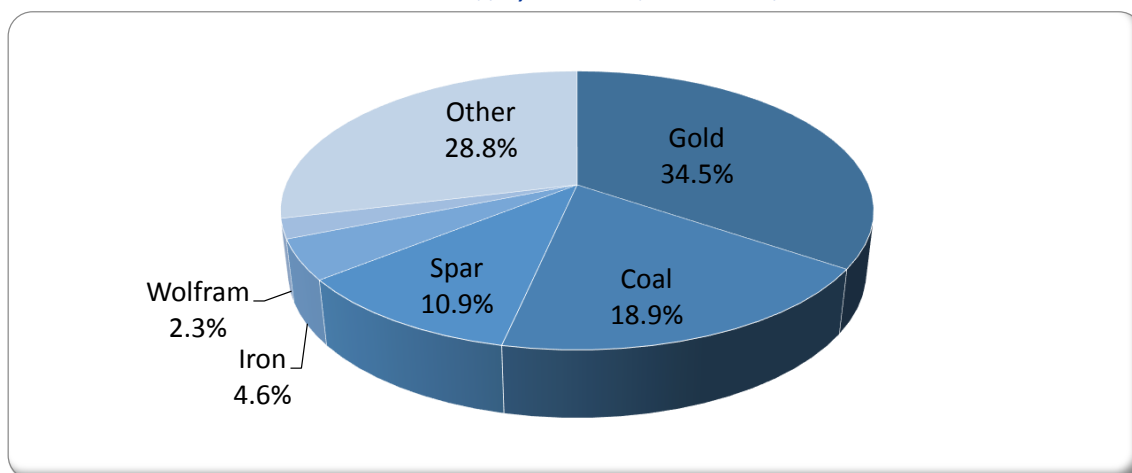
Notes: Exploration licenses stopped issuing since 2010.IV.20
 Application for exploration licenses started to receiving from 2015.I.26
 Source: Cadastre Division, MRPAM



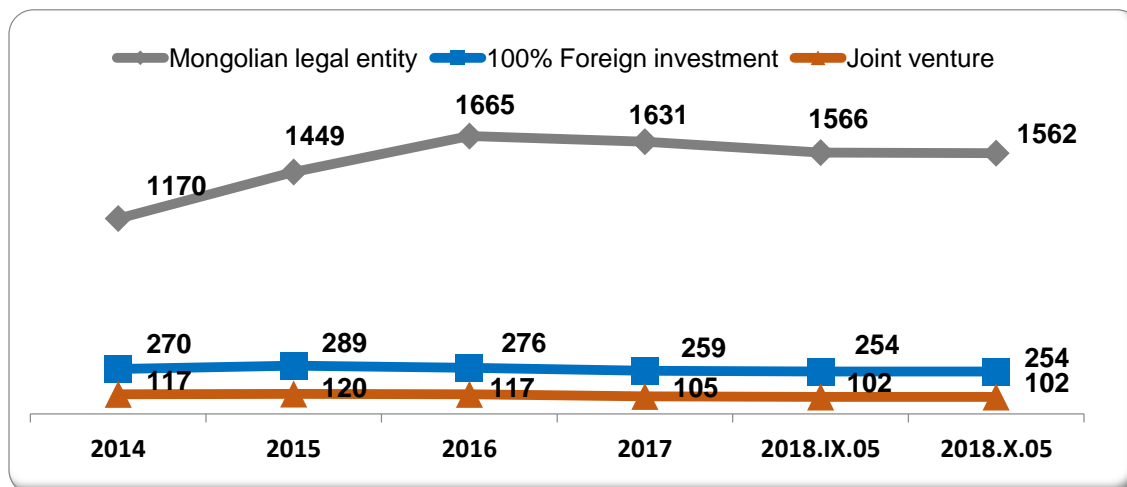
1.5. REGISTERED AREA, /mln.ha, overlap, 2018.X.05/

	Hectare	Percent of total territory
Valid mining licensed area	1.5	1.0%
Valid exploration licensed area	7.8	5.0%
State protected area	29.1	18.6%
Special purpose area	28.3	18.1%
Strategic deposit, government reserved area	39.2	25.1%
Settled area, border and railway strip area	1.1	0.7%
Other prohibited area	49.1	31.4%

1.6. PROPORTION OF MINING LICENSES, /by minerals, 2018.X.05/



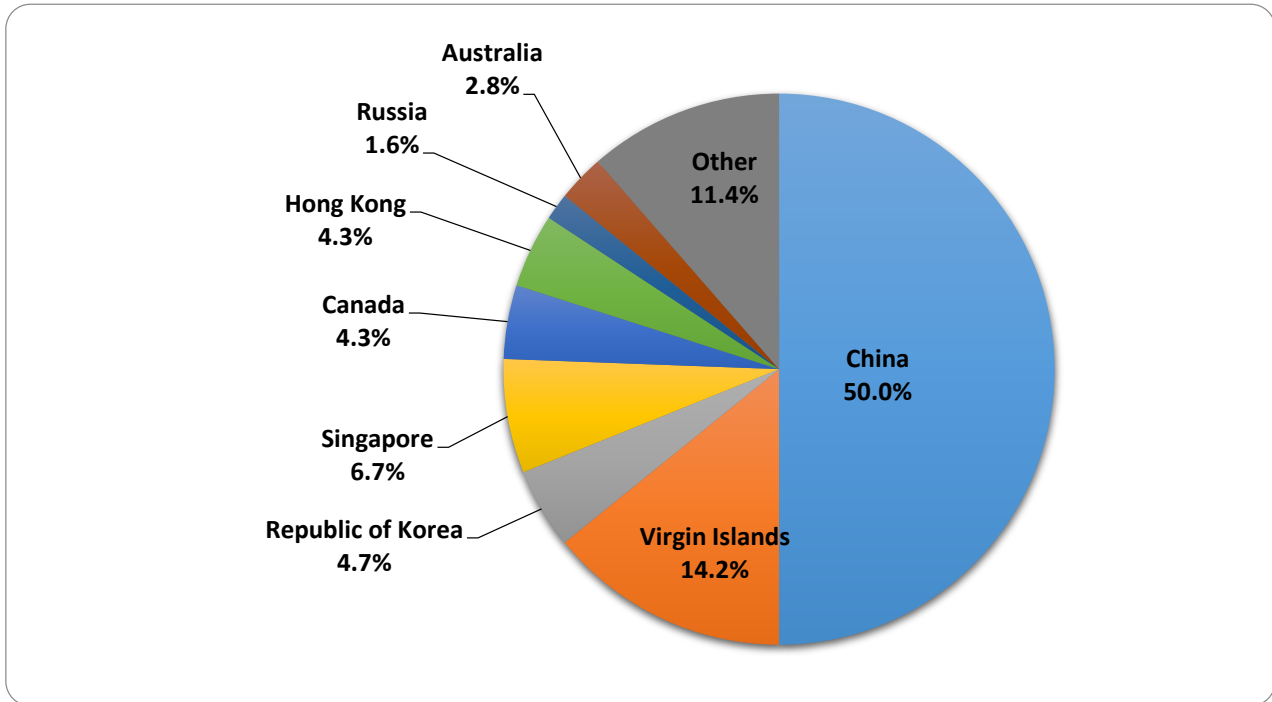
1.7. LICENSE HOLDERS, /by legal group, 2014-2018/



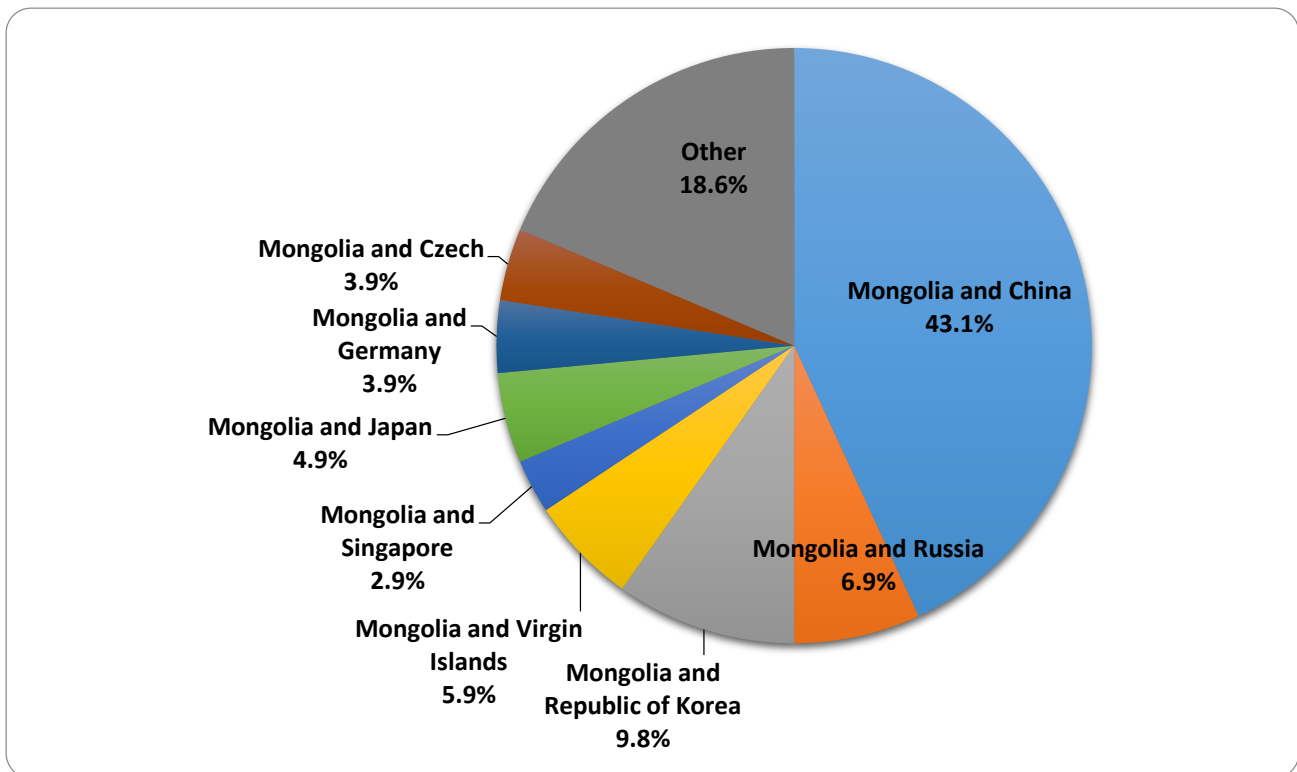
Source: Cadastre Division, MRPAM



1.8. COMPOSITION OF FOREIGN INVESTED LICENSE HOLDERS, /by countries, 2018.X.05/



1.9. COMPOSITION OF THE JOINT VENTURE LICENSE HOLDERS, /by countries, 2018.X.05/



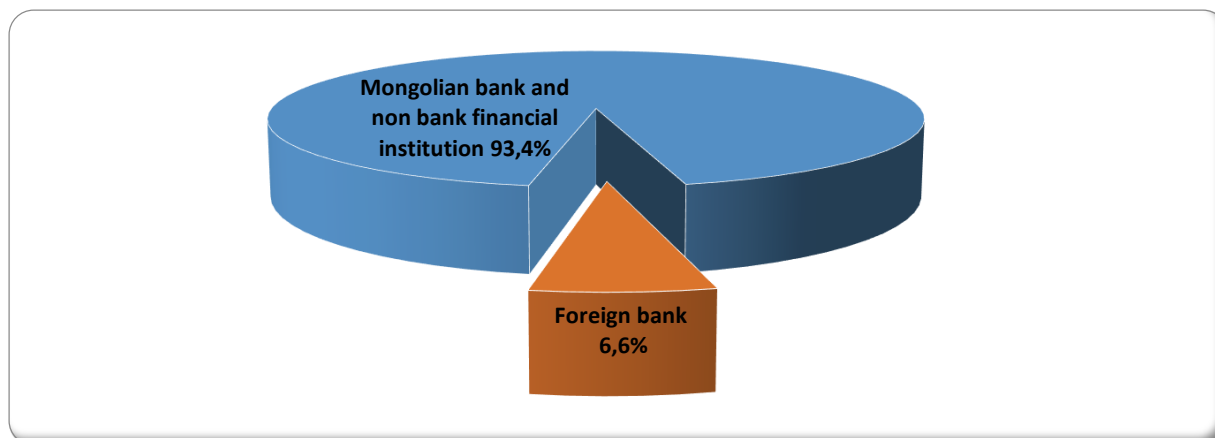
Source: Cadastre Division, MRPAM



1.10. ORIGIN OF LICENSE HOLDERS, 2018.X.05

	Holder		License		Area size	
	Count	Percent	Count	Percent	Hectare	Percent
TOTAL	1918	100%	3189	100%	9,383,236.9	100%
Mongolia	1562	81.44%	2514	78.83%	6,966,094.4	74.24%
China	172	8.97%	234	7.34%	489,197.1	5.21%
Virgin Islands	42	2.19%	103	3.23%	346,750.2	3.70%
Singapore	22	1.15%	77	2.41%	460,263.8	4.91%
South Korea	22	1.15%	36	1.13%	100,446.3	1.07%
Hong Kong	15	0.78%	34	1.07%	246,457.5	2.63%
Russia	14	0.73%	16	0.50%	7,940.9	0.08%
Canada	13	0.68%	28	0.88%	196,108.2	2.09%
Australia	7	0.36%	8	0.25%	33,060.0	0.35%
Japan	7	0.36%	60	1.88%	207,728.1	2.21%
Germany	6	0.31%	7	0.22%	13,864.0	0.15%
United States of America	5	0.26%	7	0.22%	7,807.4	0.08%
Holland	4	0.21%	20	0.63%	131,587.6	1.40%
Luxemburg	4	0.21%	8	0.25%	20,095.8	0.21%
Czech Republic	4	0.21%	7	0.22%	52,526.3	0.56%
Great Britain	4	0.21%	7	0.22%	19,669.2	0.21%
Ukraine	2	0.10%	2	0.06%	291.8	0.00%
Bulgaria	2	0.10%	4	0.13%	4,784.6	0.05%
Bermud	2	0.10%	3	0.09%	7,314.3	0.08%
Kazakhstan	2	0.10%	2	0.06%	2,340.6	0.02%
Poland	1	0.05%	1	0.03%	1,561.3	0.02%
Seychelles	1	0.05%	1	0.03%	36,391.0	0.39%
Hungary	1	0.05%	1	0.03%	87.4	0.00%
Barbados	1	0.05%	3	0.09%	10,040.0	0.11%
New Zealand	1	0.05%	2	0.06%	151.7	0.00%
Malaysia	1	0.05%	2	0.06%	2,416.5	0.03%
Macao	1	0.05%	2	0.06%	18,260.9	0.19%

1.11. ORIGIN OF LICENSE PLEDGE, 2018.X.05



Source: Cadastre Division, MRPAM



1.12. PLEDGING LICENSES BY BANK, NON-BANK FINANCIAL INSTITUTE, 2018.X.05

	License		Area	
	Count	Percent	Hectare	Percent
TOTAL	243	100.0%	384,761.5	100.0%
Trade and Development Bank	35	14.4%	45,391.8	11.80%
Development Bank of Mongolia	23	9.5%	18,460.0	4.80%
Golomt Bank	21	8.6%	18,822.1	4.89%
Capital Bank	17	7.0%	4,645.9	1.21%
Ulaanbaatar City Bank	17	7.0%	10,889.5	2.83%
HAAN Bank	16	6.6%	2,804.7	0.73%
XAC Bank	13	5.3%	1,335.1	0.35%
Golomt, Saving, Zoos, Anod Banks	11	4.5%	80,891.6	21.02%
Anod Bank	9	3.7%	8,696.8	2.26%
Golomt bank Golomt bank	7	2.9%	6,411.9	1.67%
European Bank for Reconstruction and Development	7	2.9%	2,639.4	0.69%
Zoos Bank	6	2.5%	104,121.3	27.06%
Chinggis Khan Bank	6	2.5%	2,467.7	0.64%
GSB capital BBSB	6	2.5%	10,609.2	2.76%
National Investment Bank	4	1.6%	1,247.2	0.32%
State Bank	4	1.6%	570.6	0.15%
Capitronbank	4	1.6%	1,222.1	0.32%
Triple flag mining finance Bermuda Ltd	3	1.2%	13,041.9	3.39%
Bank of China	3	1.2%	916.8	0.24%
Saving bank	3	1.2%	10,911.8	2.84%
Khutulnomgon	3	1.2%	294.2	0.08%
Export-Import Bank of China	3	1.2%	1,092.0	0.28%
Erelbank	2	0.8%	150.3	0.04%
First lithium Corporation	2	0.8%	17,131.1	4.45%
Gazprombank	1	0.4%	440.9	0.11%
Worldgold	1	0.4%	583.4	0.15%
Progress Capital	1	0.4%	28.5	0.01%
Delitasan	1	0.4%	19.9	0.01%
Bank of China	1	0.4%	79.5	0.02%
Business-Invest Development	1	0.4%	1,791.4	0.47%
Jet Finance	1	0.4%	56.8	0.01%
Kredit Express	1	0.4%	235.6	0.06%
Munkh Orshih Capital	1	0.4%	178.1	0.05%
International Investment Bank	1	0.4%	28.3	0.01%
Solomon Investment	1	0.4%	5,324.7	1.38%
Standart Chartered Bank	1	0.4%	8,489.9	2.21%
Transcapital	1	0.4%	270.6	0.07%
Turquoise Finance	1	0.4%	673.4	0.18%
Transport Development bank	1	0.4%	189.1	0.05%
Xamtyn no'xorloliin san	1	0.4%	114.7	0.03%
Export-Import Bank of China, China Development B	1	0.4%	1,405.4	0.37%
Mongolian Post bank	1	0.4%	86.6	0.02%

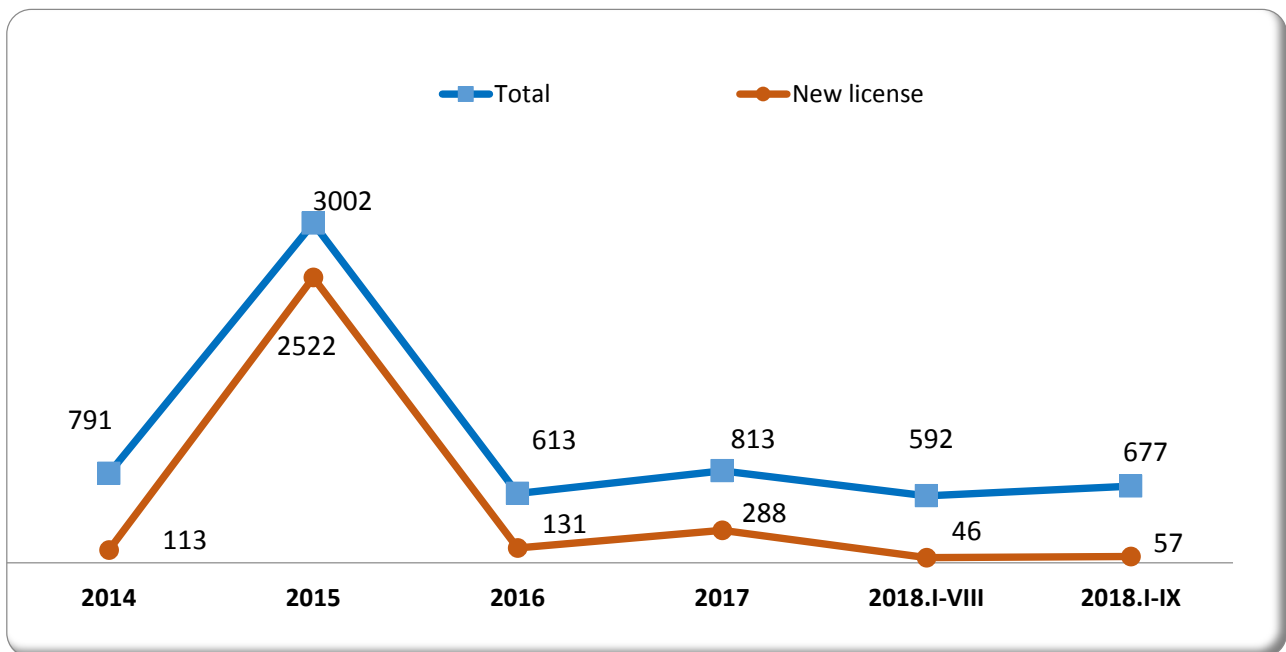
Source: Cadastre Division, MRPAM



1.13. RECEIVED APPLICATION, /by application type, 2014-2018/

Application type	2014	2015	2016	2017	2018.I-VIII	2018.I-IX
TOTAL	791	3002	613	813	592	677
New license	113	2522	131	288	46	57
Mining	98	87	103	65	46	57
Exploration	0	2335	0	0	0	0
Tender	15	100	28	223	0	0
Extension of exploration license	453	249	173	231	333	389
Transfer	53	92	139	153	119	131
Mining	36	52	49	78	19	19
Exploration	17	40	90	75	100	112
Pledge	44	22	33	37	36	37
Mining	40	22	30	32	36	37
Exploration	4	0	3	5	0	0
Surrender	128	117	137	104	58	63
Mining	12	24	26	14	9	9
Exploration	116	93	111	90	49	54

1.14. RECEIVED APPLICATION, 2014-2018



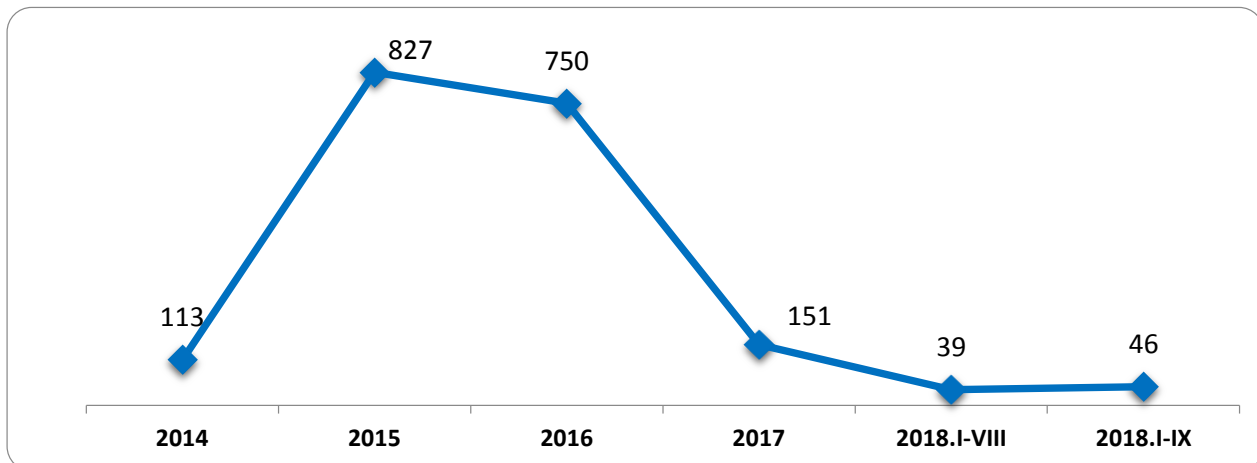
Source: Cadastre Division, MRPAM



1.15. CHANGES IN LICENSE REGISTRATION, /by license type, 2014-2018/

Type of registration	2014	2015	2016	2017	2018.I-VIII
New license	113	827	750	151	39
Mining	97	91	93	77	34
Exploration	2	697	629	41	5
Tender	14	39	28	33	0
Surrendered	119	150	166	97	64
Mining	13	25	25	13	9
Exploration	106	125	141	84	55
Canceled	123	173	241	237	121
Mining	14	10	37	35	17
Exploration	109	163	204	202	104
Expired	289	179	124	176	116
Transferred	51	88	146	136	136
Mining	38	46	50	62	31
Exploration	13	42	96	74	105
Extended	444	336	167	162	310
Pledged	40	22	29	39	36
Mining	34	22	27	34	36
Exploration	6	0	2	5	0
Terminated pledges	29	24	16	39	16
Mining	24	19	12	38	15
Exploration	5	5	4	1	1
Re-issue of license documents	11	19	35	26	34
Mining	7	10	15	19	10
Exploration	4	9	20	7	24

1.16. COUNT OF ISSUED LICENSE, 2014-2018



Source: Cadastre Division, MRPAM



1.17. LIST OF LICENSE HOLDERS WITH 10 AND ABOVE LICENSES, 2018.X.05

No	Name of entity	Count of license	Area size /ha/	Company type	Nationality
1	Chingis world mining	50	156,734.6	joint venture with foreign investment	Mongolia, Japan
2	Mongolroscvetmet	30	16,136.4	mongolian legal entity	Mongolia
3	Golden east mongolia	28	154,751.8	Entity with 100% foreign investment	Virgin Islands
4	Mongolyn alt Mak	24	62,365.3	mongolian legal entity	Mongolia
5	Gacuurt	17	9,557.3	mongolian legal entity	Mongolia
6	Caina investment mongolia	15	207,645.0	Entity with 100% foreign investment	Singapore
7	Olon-Ovoot gold	14	90,111.6	mongolian legal entity	Mongolia
8	Khunnu govi altai	12	2,206.7	mongolian legal entity	Mongolia
9	Erel	11	10,996.6	mongolian legal entity	Mongolia
10	Gobi Coal and Energy	11	6,988.5	mongolian legal entity	Mongolia
11	Richfluorite	11	6,387.6	mongolian legal entity	Mongolia
12	Cogegobi	10	223,082.7	mongolian legal entity	Mongolia
13	MoEnCo	10	12,807.4	Entity with 100% foreign investment	Singapore
14	MAK cement	10	3,854.8	mongolian legal entity	Mongolia

1.18. LIST OF LICENSE HOLDERS WITH 100'000 AND ABOVE LICENSED AREA SIZE, 2018.X.05

No	Name of entity	Count of license	Area size /ha/	Company type	Nationality
1	Cogegobi	10	223,082.7	mongolian legal entity	Mongolia
2	Caina investment mongolia	15	207,645.0	100% foreign invested entity	Singapore
3	Mongol uranium resource	2	191,728.6	mongolian legal entity	Mongolia
4	Chingis world mining	50	156,734.6	joint venture with foreign investment	Mongolia, Japan
5	Golden east mongolia	28	154,751.8	100% foreign invested entity	Virgin Islands
6	PeabodyWinsway resources	6	121,945.0	100% foreign invested entity	Holland
7	Monlaa	4	108,679.0	mongolian legal entity	Mongolia
8	FVSP	4	104,232.4	100% foreign invested entity	Hong kong

Source: Cadastre Division, MRPAM



II. GEOLOGICAL STATISTICS

2.1. GEOLOGICAL SURVEY CONDUCTED AT EXPENSE OF THE STATE BUDGET, /by type of work, mln MNT, 2015-2018

Type of work	2015		2016		2017		2018.I-IX	
	mln.tug	performance	mln.tug	performance	mln.tug	performance	mln.tug	performance
TOTAL	9,280.6	81.8%	9,341.1	100%	12,255.1	91.8%	10,346.8	77.6%
1:200000 scale geological map	330.5	62.9%	642.7	100%	482.3	100.0%	360.8	0.4%
1:50000 scale geological map, general survey	5,556.7	78.4%	4,975.8	100%	5,355.9	100.0%	3,666.7	37.4%
Thematic work	3,167.7	92.0%	3,476.1	100%	6,274.6	80.8%	6,319.3	62.6%
Collaborative projects	225.6	79.3%	246.6	100%	142.4	100.0%	-	0.0%

2.2. GEOLOGICAL AND EXPLORATION SURVEY CONDUCTED AT EXPENSES OF THE EXPLORATION LICENSE, /by type work, mln.MNT, 2013-2017/

	2013	2014	2015	2016	2017.IX.30*	2017 (%)
TOTAL	150,095.8	160,421.9	107,238.5	190,260.4	136,450.8	100.0%
Preparation	3,842.3	3,146.2	2,998.7	8,924.2	3,506.7	2.6%
Mapping	2,328.8	3,006.8	2,314.2	5,815.3	1,869.2	1.4%
Geological survey	2,530.5	2,535.4	2,789.2	6,383.5	2,289.8	1.7%
Sampling	2,659.3	2,259.7	2,047.1	32,645.9	78,986.7	57.9%
Geophysical work	13,427.2	12,413.9	10,716.5	9,826.5	14,425.4	10.6%
Mining	2,530.8	4,887.8	2,784.2	1,697.1	-	0.0%
Drilling	82,575.7	86,233.0	49,794.5	68,917.0	5,802.6	4.3%
Geochemical work	2,133.4	746.0	779.1	-	-	-
Laboratory	10,889.8	10,490.8	6,710.6	8,833.1	11,343.9	8.3%
Topogeodetic work	1,880.4	1,357.9	1,638.3	2,248.6	5,364.6	3.9%
Hydrogeological work	751.6	2,781.3	2,549.9	1,174.1	940.5	0.7%
Transport	5,182.5	3,780.9	3,112.8	17,331.0	341.4	0.3%
Indoor, laboratory investigation	11,233.7	21,563.1	11,055.0	11,685.7	1,082.5	0.8%
Environment reclamation	1,382.0	2,015.8	1,749.6	1,346.9	348.2	0.3%
Field sampling	416.6	1,484.7	1,246.9	2,101.3	906.5	0.7%
Geomorphology	25.3	0.0	20.6	-	-	-
Archeology	528.3	123.0	96.8	231.2	162.2	0.1%
Paleontology	448.9	88.3	43.3	-	-	-
Other	5,328.7	1,506.9	4,791.0	11,098.5	9,080.6	6.7%

* Preliminary result

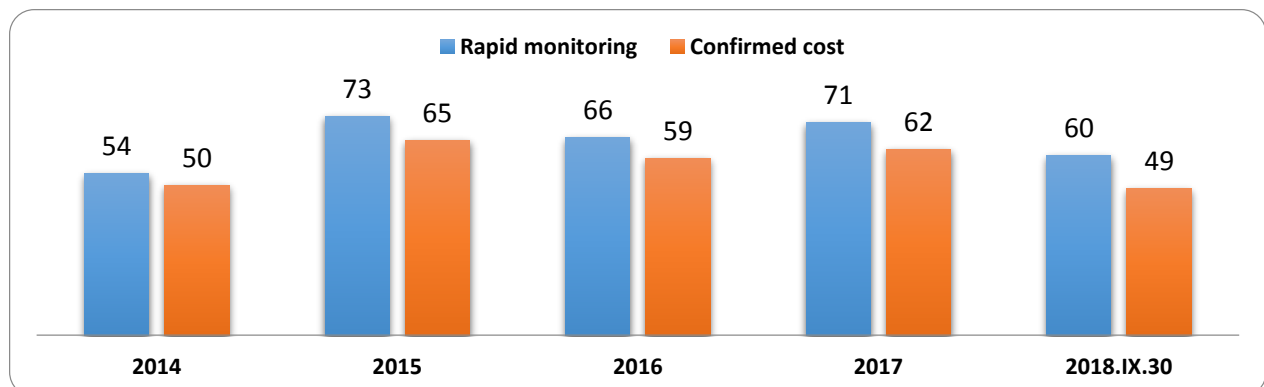
Source: Geology and Exploration Division, MRPAM



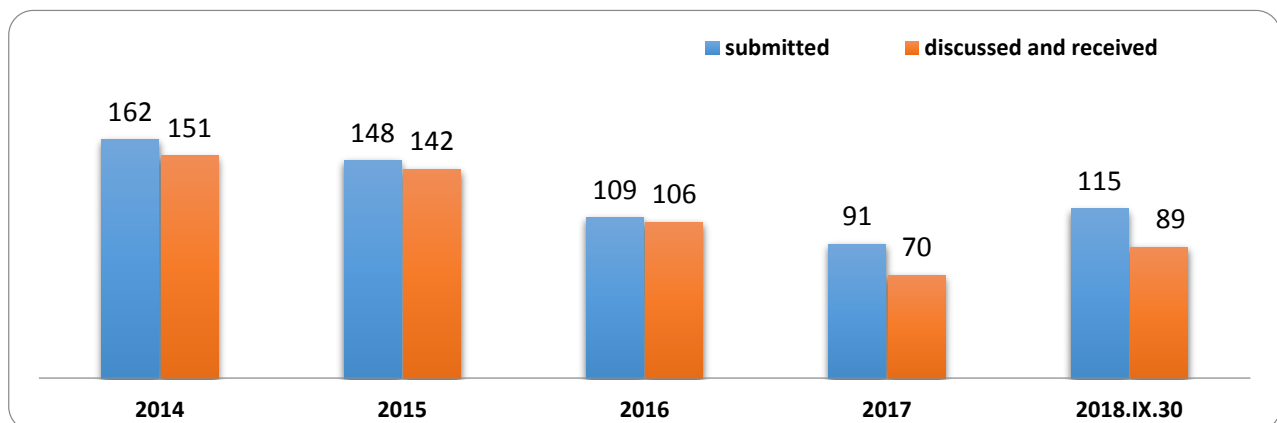
2.3. ANNUAL EXPLORATION PLAN, REPORT SUBMITTED AND NUMBER OF OF LICENSES CERTIFIED FOR EXPLORATION EXPENDITURE, 2014-2017

	2014	2015	2016	2017	2018.IX.30
Plan					
Plan to be submitted	1667	1345	2051	1748	1695
Submitted	1133	1307	1750	1724	1652
Attendance %	68.0%	97.2%	85.3%	98.6%	97.4%
Report					
Report to be submitted	1345	1802	1974	1745	-
Submitted	958	1260	1666	1538	-
Attendance %	71%	69.9%	83.0%	88.1%	-
Minimum review of exploration expenditure report %	100%	97.0%	99.7%	94.9%	-
Cost of financial statements	100%	91.7%	94.9%	87.0%	-

2.4. SPECIAL RAPID TRACKING FOR GEOLOGICAL EXPLORATION PERMITS AND NUMBERS, 2014-2018



2.5. RECEIVED EXPLORATION REPORT, 2014-2018



Source: Geology and Exploration Division, MRPAM

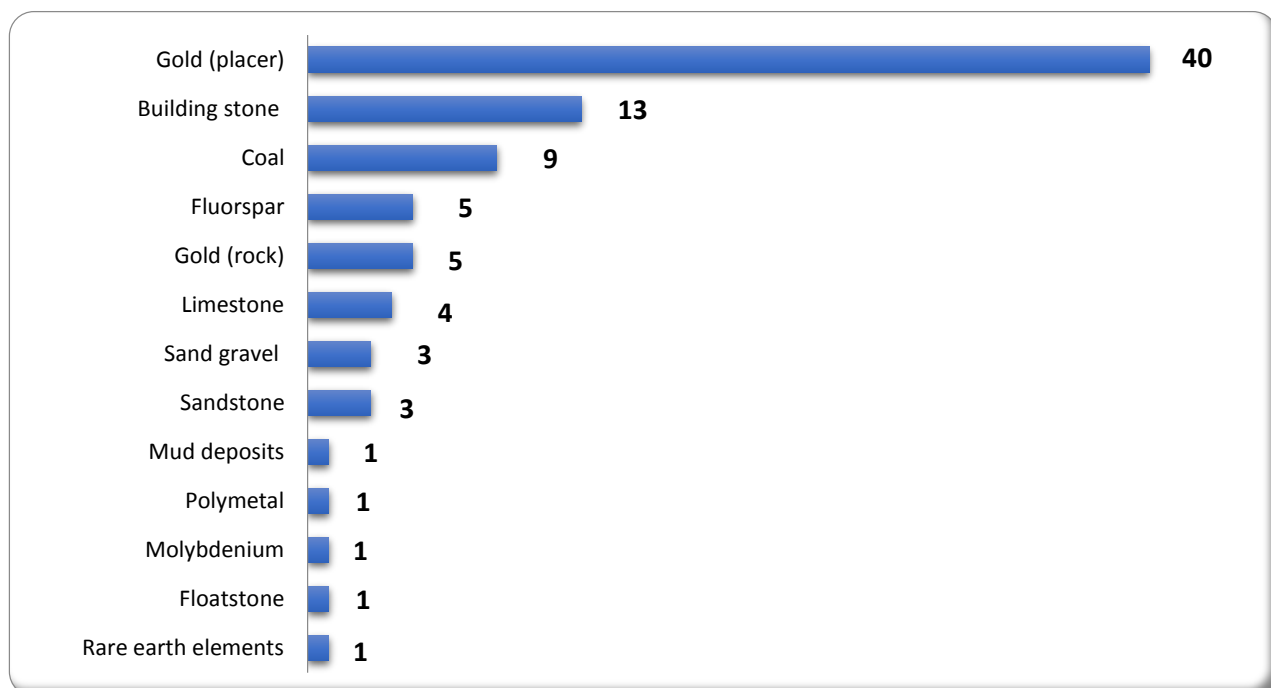


2.6. MINERAL RESOURCE RESERVES REGISTERED IN THE STATE'S INTEGRATED REGISTRATION, 2016-2018

Deposit types	Unit	2016		2017		2018.IX.30	
		ore	metal	ore	metal	ore	metal
Gold (rock)	ths.t/kg	62,864.2	33,819.7	8,412.8	3,211.9	6,837.9	18,697.9
Gold (placer)	kg	6,581.0	5,955.2	3,374.7	3,015.0	5,040.8	4,521.6
Iron	ths.t	54,463.2	18,030.0	45,655.7	11,870.9	7,739.8	2,673.9
Polymetal	ths.t	15,091.4	-	-	-	2,837.3	-
Cu	t	-	57,547.3	-	-	-	-
Zn	t	-	41,043.0	-	77.7	-	-
eqZn	t	-	-	-	-	-	101,202.6
Pb	t	-	-	-	83.4	-	-
eqPb	t	-	-	-	1,636.3	-	-
Molybdenium	ths.t	-	-	-	-	35,271.0	10,352.4
Tungsten	ths.t/t	-	-	502.6	4.4	-	-
Rare earth elements	ths.t/t	-	-	0.12	0.04	274.6	0.02
Copper	ths.t/t	2042008.3*	7789023.5*	29,183.0	134.9	55,871.2	149.1
Tin	ths.t	-	89.6	-	0.7	-	-
Fluorspar	ths.t	801.1	335.0	1,177.6	664.6	1,287.9	365.4
Uranium	t	4.9	-	-	-	-	-
Coal	mIn.t	1,295.4	-	3,579.7	-	9,662.7	-
Pear shaft	mIn.t	-	-	-	-	-	-
Limestone	mIn.t	155.4	-	185.8	-	52.6	-

Note: * Updated estimates /2016/

2.7. DEPOSIT DELIVERED TO THE STATE REGISTRATION OF MINERAL RESERVES, 2018.I-IX



Source: Geology and Exploration Division, MRPAM

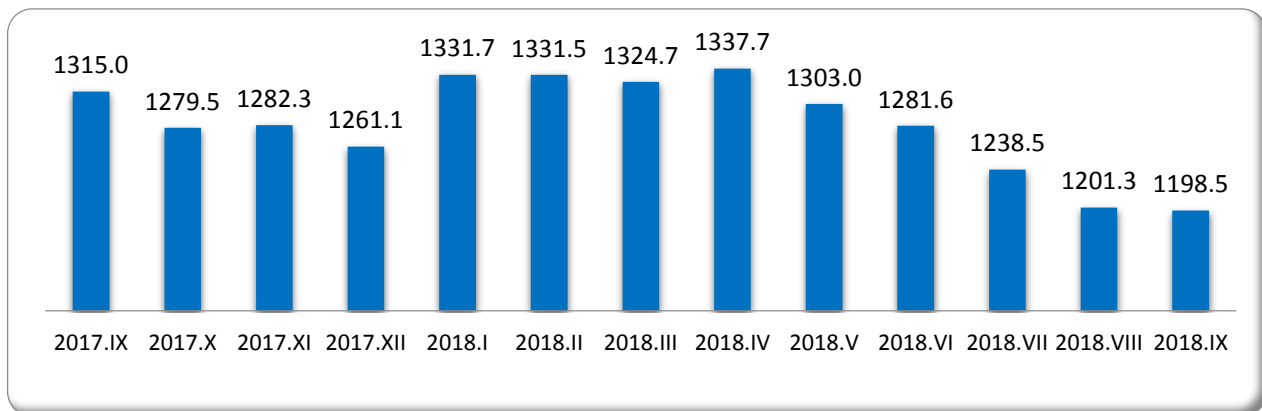


III. MINING STATISTICS

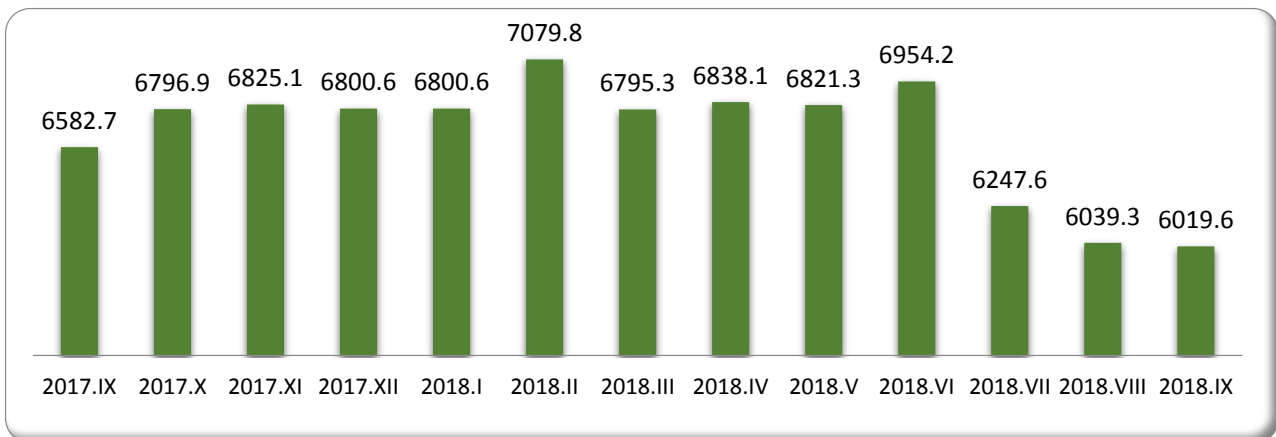
3.1. THE AVERAGE OF COMMODITY PRICES IN THE WORLD MARKET, 2014-2018

Mineral commodities	Unit	2014	2015	2016	2017	2018.IX
Gold	\$/ounce	1271.2	1160.1	1151.4	1257.1	1198.5
Silver	\$/ounce	19.1	15.7	16.4	17.1	14.3
Copper	\$/tons	6859.5	5501.0	5665.8	6162.4	6019.6
Zinc	\$/tons	2161.0	1928.8	2671.3	2893.6	2432.7
Blue lead	\$/tons	2095.4	1786.1	2230.3	2317.1	2027.8
Tin	\$/tons	21909.9	16079.3	21274.1	20090.1	18989.5
Molybdenum	\$/tons	25203.0	14618.2	15000.0	15665.1	25000.0
Tungsten	\$/tons	50971.0	36082.4	32000.0	36011.1	39530.0
Iron ore	\$/tons	93.1	49.8	62.0	54.3	36.4
Fluorite concentrate AG-97	\$/tons	305.7	283.3	260.0	345.4	455.0
Fluorite ore MG-85	\$/tons	240.0	244.3	250.0	293.9	360.0

3.2. THE AVERAGE PRICE OF GOLD, /by US\$/ounce, 2017.IX-2018.IX/



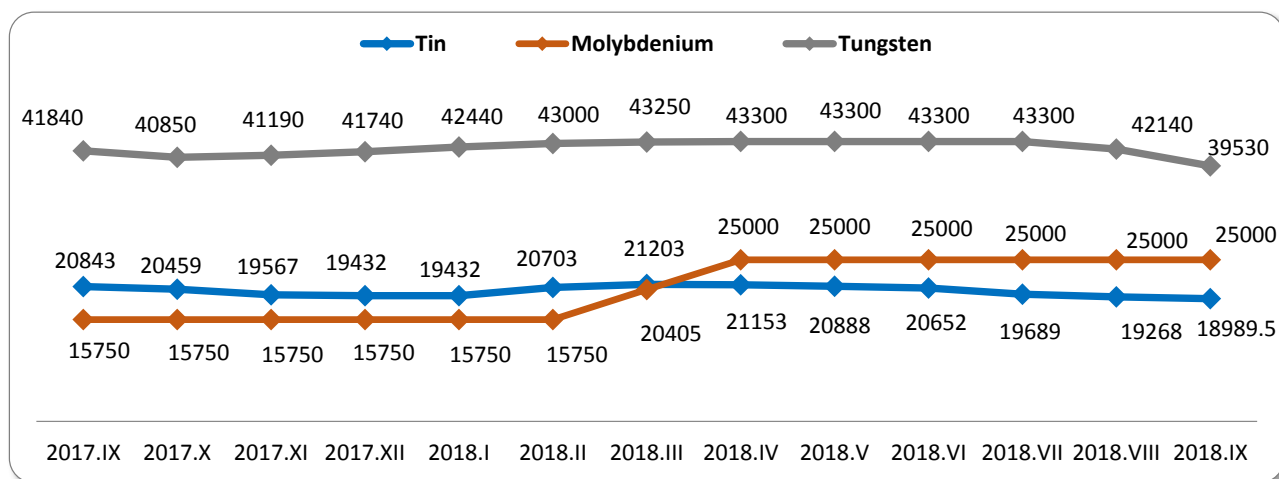
3.3. THE AVERAGE PRICE OF COPPER, /by US\$/tons, 2017.IX-2018.IX/



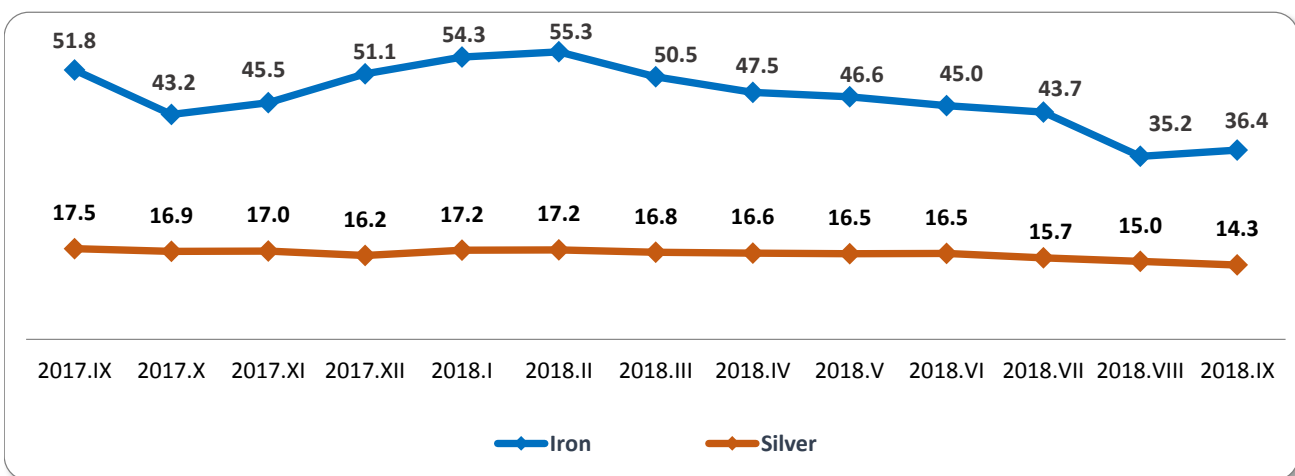
Source: www.kitco.com, www.westmetall.com, www.lme.com, www.asianmetal.com, www.lndmin.com, www.umetal.com www.sxcoal.com



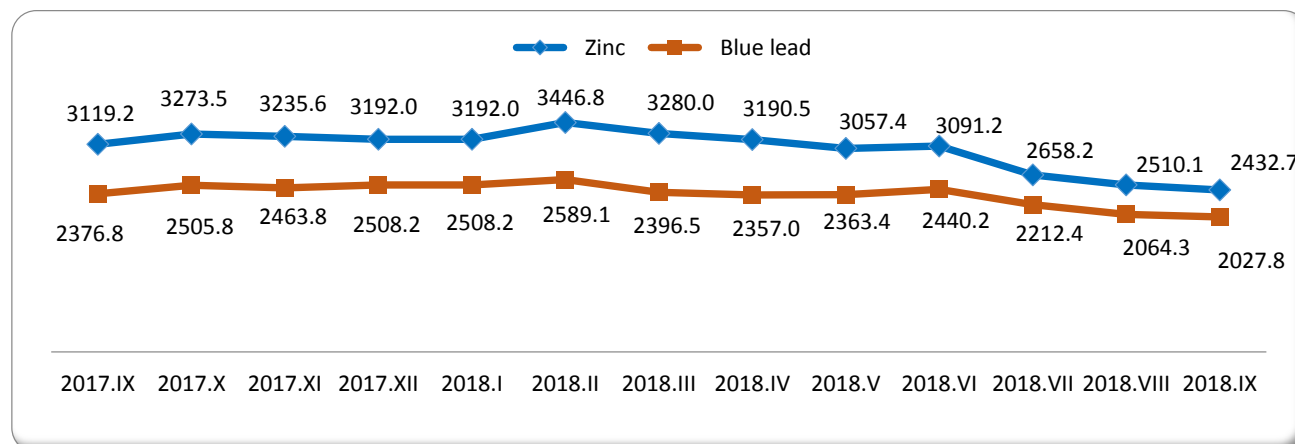
3.4. THE AVERAGE PRICE OF TIN, MOLYBDENUM AND TUNGSTEN IN THE WORLD MARKET, /by US\$/tons, 2017.IX-2018.IX/



3.5. THE AVERAGE PRICE OF IRON AND SILVER IN THE WORLD MARKET, /by US\$/tons, US\$/ounce, 2017.IX-2018.IX/



3.6. THE AVERAGE PRICE OF ZINC AND BLUE LEAD IN THE WORLD MARKET, /by US\$/tons, 2017.IX-2018.IX/



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



3.7. REHABILITATION WORK BY MINING LICENSE HOLDERS, 2018.V.09

	Measurement	2013	2014	2015	2016	2017
Area covered by mining	ha	1037.8	1560.7	871.0	2511.0	1745.0
Rehabilitated area	ha	806.9	959.6	750.0	999.5	376.8
Expenses for rehabilitation	mln.MNT	7381.7	9211.6	4019.0	2313.0	1602.4
Area covered by technical rehabilitation	ha	532.2	523.1	589.0	654.0	420.3
Area covered by biological rehabilitation	ha	369.9	322.0	320.0	718.0	360.1
Environmental expenses	mln.MNT	3876.3	11683.1	8597.0	5455.0	0.0
Abusive protection rehabilitation	ha	-	-	-	257.0	24.1
Abusive protection rehabilitation	mln.MNT	-	-	-	739.1	26.0
Remodeling the mine and rehabilitation of the village	ha	-	-	-	29.0	24.1
Remodeling the mine and rehabilitation of the village	mln.MNT	-	-	-	175.0	65.4

Source: Mining Industry and Technology Division, MRPAM

3.8. LIST OF COMPANIES REGISTERED WITH INTERNATIONAL STOCK EXCHANGE COMPANIES OPERATING IN MONGOLIA'S MINING SECTOR, 2018

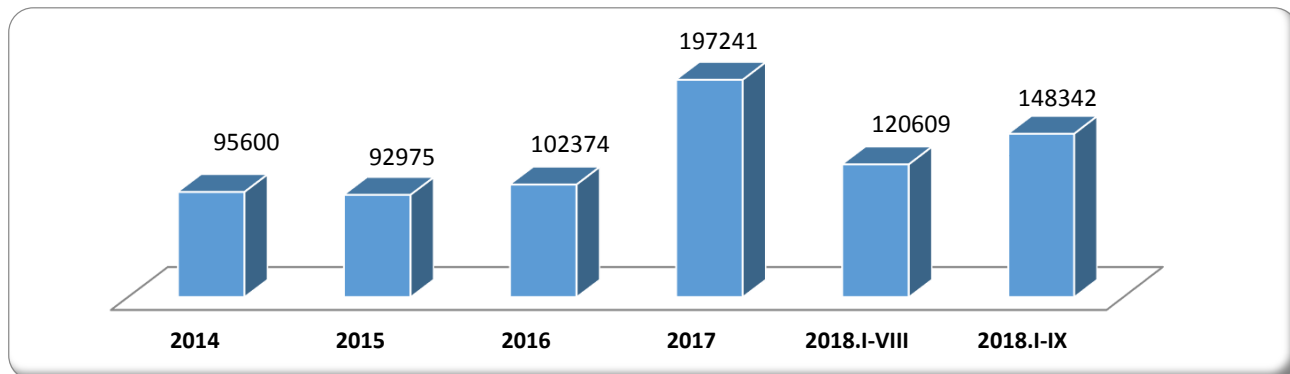
Company name	Stock exchange	Symbol	Currency	Price				Market value /2018.X.10 /
				2018	2018	2018	2019	
				I-III	IV-VI	IX	VII-IX	
Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	3.158	2.918	2.182	2.499	5.61B
Peabody Energy Corporation	NYQ	BTU	USD	39.79	40.981	42.161	42.898	5.66B
Rio Tinto plc	LSE	RIO.L	GBP	3,883.2	4,099.1	3,686.3	3,863.1	70.30B
Mongolia Energy Corporation Limited	HKG	0276.HK	HKD	0.194	0.166	0.137	0.132	365.26M
Mongolian Mining Corporation	HKG	0975.HK	HKD	0.226	0.152	0.153	0.14	1.26B
South Gobi Resources Ltd.	HKG	1878.HK	HKD	1.242	1.014	0.911	0.924	251.16
Centerra Gold Inc.	TOR	CG.TO	CAD	6.592	7.364	5.302	5.769	2.13B
Erdene Resource Development	TOR	ERD.TO	CAD	0.475	0.379	0.351	0.37	62.08M
Entrée Resources Ltd.	TOR	ETG.TO	CAD	0.603	0.495	0.488	0.528	99.35M
Prophecy Development Corp.	TOR	PCY.TO	CAD	3.299	2.754	0.162	1.225	17.19M
Steppe Gold Ltd	TOR	STGO.T	CAD	-	1.469	1.224	1.257	51.93M
Kincora Copper Limited	VAN	KCC.V	CAD	0.208	0.137	0.164	0.165	9.35M
Altan Rio Minerals Limited	VAN	AMO.V	CAD	0.018	0.013	0.012	0.018	1.34M
Xanadu Mines Limited	ASX	XAM.AX	AUD	0.251	0.193	0.131	0.145	110.17
Aspire Mining Limited	ASX	AKM.AX	AUD	0.011	0.016	0.024	0.023	53.11M
Haranga Resources Limited	ASX	HAR.AX	AUD	0.003	-	-	-	1.45M
Tian Poh Resources Limited	ASX	TPO.AX	AUD	0.081	0.09	-	-	34.79M
Banpu Public Company Limited	SET	BANPU.	THB	21.545	20.425	7.504	8.441	102.21B
Petro Matad Limited	LSE	MATD.L	GBP	9.928	11.664	19.445	20.085	37.88M
Wolf Petroleum Limited	ASX	WOF.AX	AUD	0.016	0.01	0.011	0.01	6.43M

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

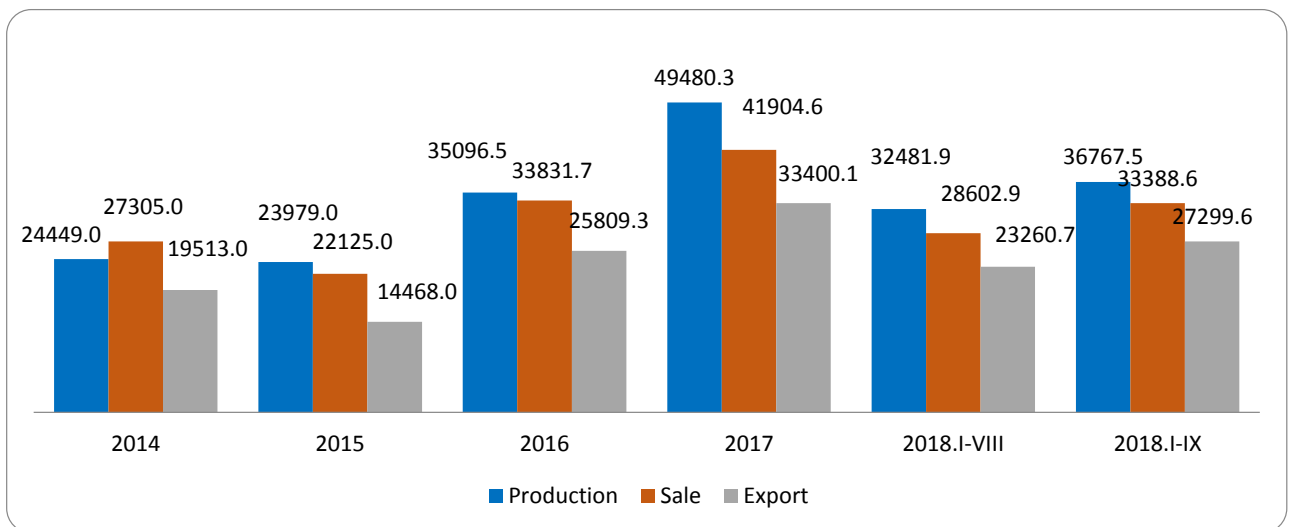


IV. COAL STATISTICS

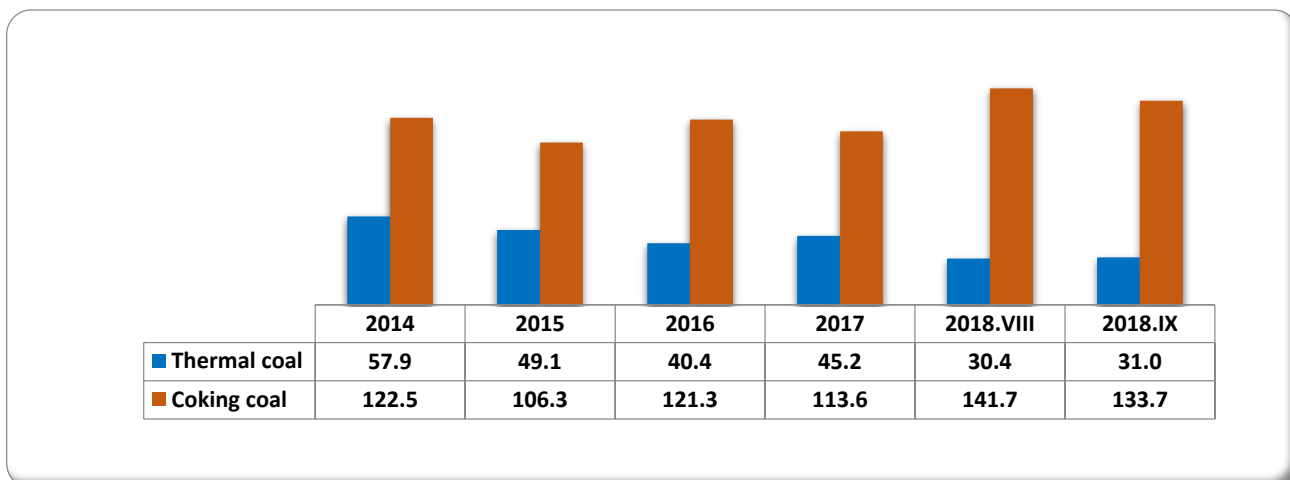
4.1. STRIPING, /by ths.m3 2014-2018/



4.2. COAL PRODUCTION, SALE AND EXPORT, /by ths.tons, 2014-2018/



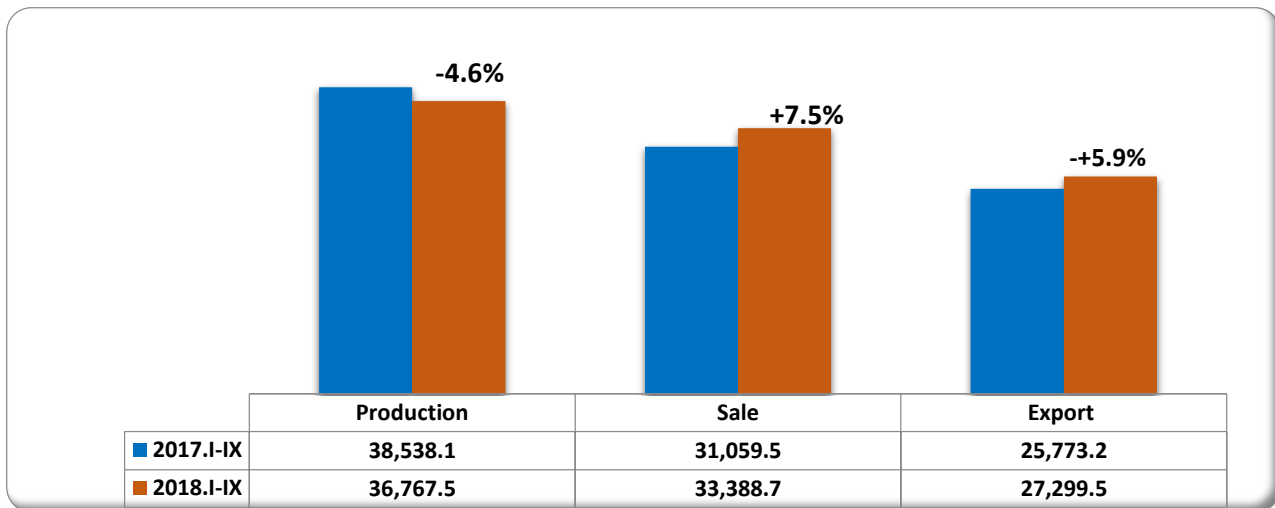
4.3. COAL ON THE WORLD MARKET AVERAGE PRICE, /by US\$/tons, 2014-2018/



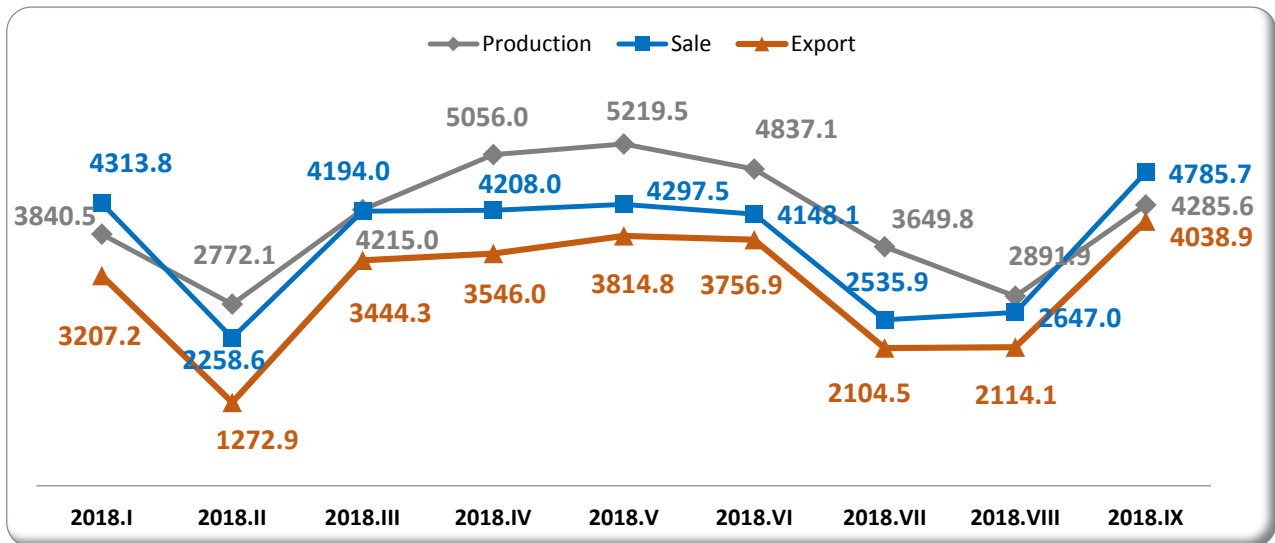
Source: Coal Research Division, MRPAM



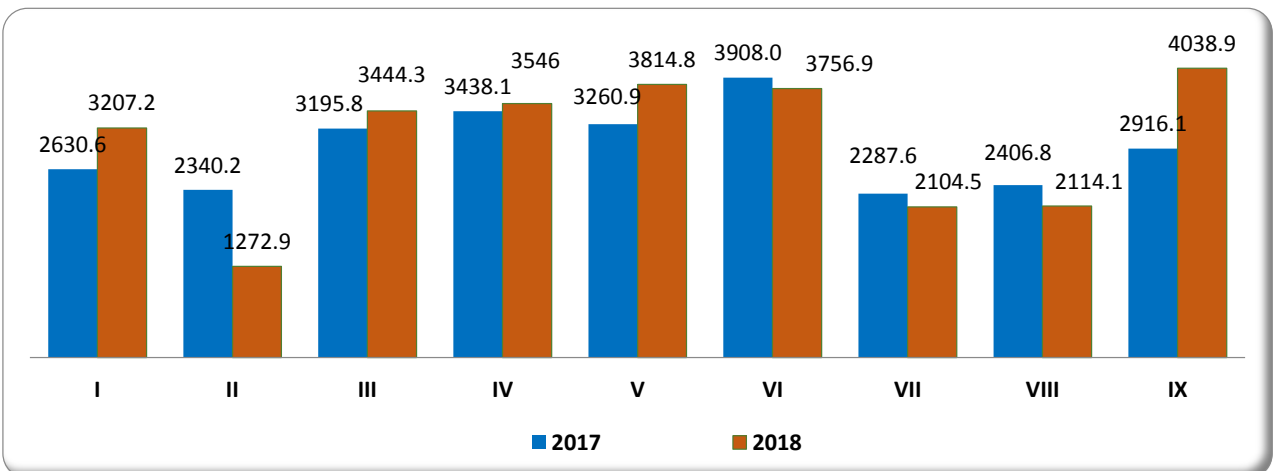
4.4. COAL PRODUCTION, SALE AND EXPORT, /by ths.tons, 2017- 2018/



4.5. COAL PRODUCTION, SALE AND EXPORT, /by month , ths.tons, 2018/



4.5. COAL EXPORT, /by month , ths.tons, 2017-2018/



Source: Coal Research Division, MRPAM



4.7. MINING AND PETROLEUM EXAMINATION AND TESTING CENTRAL LABORATORY, 2018.VIII

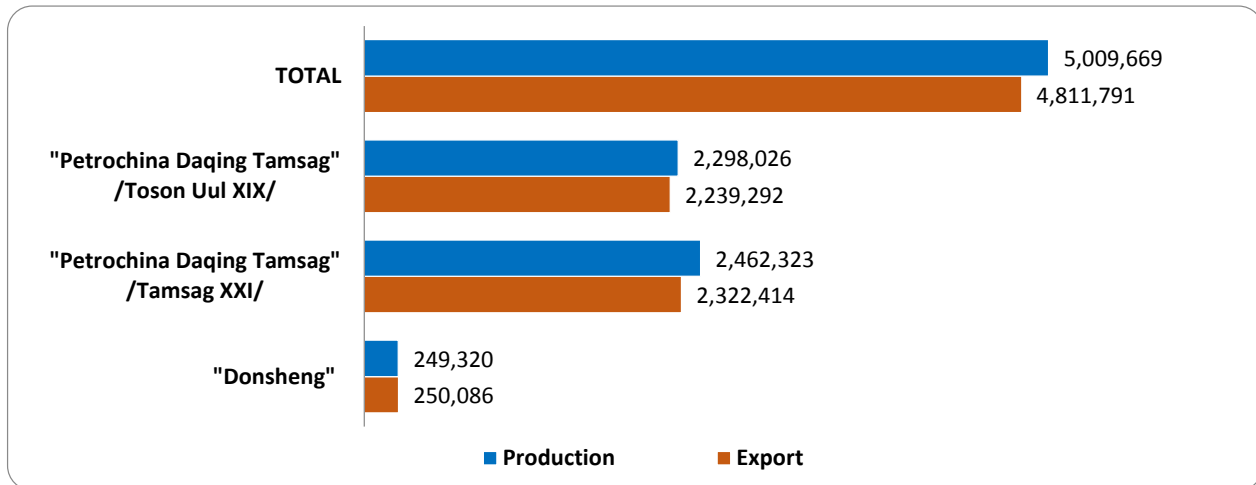
Type of coal	Name	Classification	Border name	Deposit name	Quality Indicators						
					TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI
					Weight, %				kcal/kg	Index	
Raw coal	Antracite	Antacite	Khang	Mandakh nuur	3.6	9.0	7.8	0.72	7263	0.0	0.0
	Coal	Coking	Khang	Ail Bayan	-	-	-	-	-	-	-
			Gashuun sukhait	Baruun, zuun tsankhi	1.6	16.8	26.9	1.38	6864	6.5	71.1
				Tavan tolgoi 4rd orifice	1.9	18.5	28.4	0.54	6745	6.5	69.2
			Weak coking	Gashuun sukhait	Tavan tolgoi 8th orifice	2.5	19.5	33.3	0.58	6570	6.5
		Shivee huren		Khuren shand	2.8	13.3	40.2	1.60	6720	6.0	65.6
				Baruun noyon uul	1.0	13.3	31.8	0.41	7151.9	5.5	64.6
				Chinkhua Mak	2.7	4.6	36.2	0.00	7100.0	6.5	72.4
		SGS		2.1	13.3	39.8	1.01	6650	5.0	61.0	
		Zamiin uud		Mogoin gol	-	-	-	-	-	-	-
		Non-coking coal	Zamiin uud	Bor khul	4.1	21.3	24.5	1.34	6053	0.0	0.0
			Khang	Ail Bayan	-	-	-	-	-	-	-
			Gashuun sukhait	ITT Energy	3.7	28.0	38.8	0.36	5609	1.5	16.4
				Tavan tolgoi Energy	2.9	35.0	33.9	0.7	5055.8	1.5	16.9
			Shivee huren	Khuren shand	3.3	35.2	37.8	1.07	4882	0.0	0.0
				Zangat Uul	-	-	-	-	-	-	-
			Khang	Ail Bayan	-	-	-	-	-	-	-
		Other	Zamiin uud	Dalan Chkha	6.9	23.8	34.9	0.95	5330	0.0	0.0
				Dalan Shtain	5.7	14.0	41.8	0.74	6045	0	0
	Dalan FShR			3.4	25.9	25.9	0.95	5575	0	0	
	Brown coal	Bichigt	Hulman nuur	-	-	-	-	-	-	-	
			Khuut	17.2	6.846	39.76	0.975	5128	0.0	0.0	
	Washed coal	Coal	Coking	Gashuun sukhait	Ukhaa khudag	10.7	10.3	26.7	0.59	6570	7.5
Yarant				Khushuut	1.3	28.2	18.0	0.43	5935	6.0	67.5
Weak cokingx			Gashuun sukhait	Ukhaa khudag	9.5	8.3	35.2	0.95	6625	7.0	80.6
			Tumenzag	-	-	-	-	-	-	-	
Noncoking			Shivee khuren	SGS	-	-	-	-	-	-	-
				Gashuun sukhait	Ukhaa khudag	-	-	-	-	-	-
Coke	27,04-0010	Gashuun sukhait	Coke	5.2	15.0	0.9	0.61	5569	0.0	0.0	

Source: Mining and Petroleum Central Laboratory, MRPAM



V. PETROLEUM STATISTICS

5.1. PETROLEUM PRODUCTION AND EXPORT, /by barrel, company, 2018.I-IX/

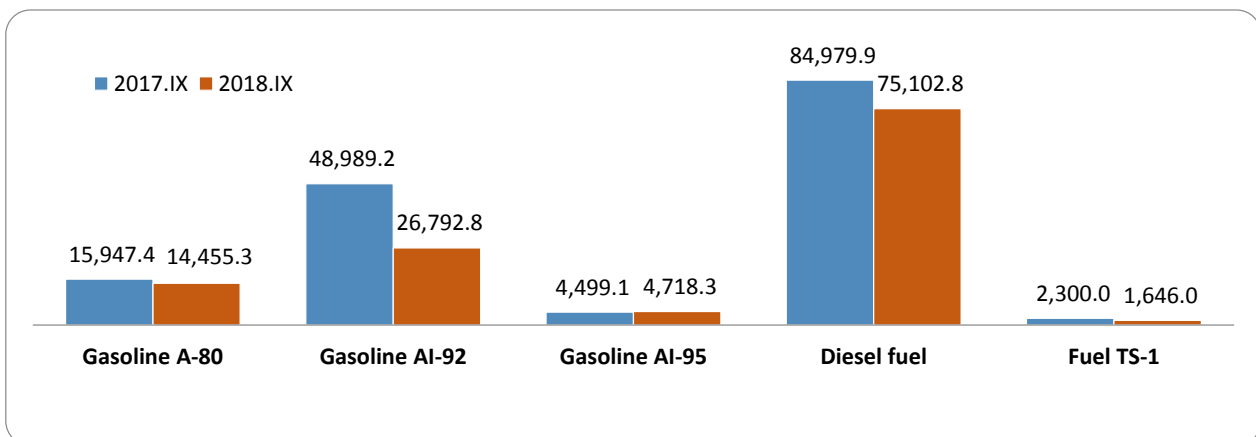


Source : Petroleum Exploitation Division, MRPAM

5.2. PETROLEUM PRODUCTS IMPORTING, /by type, tons, 2018.IX/

	TOTAL	Russia	China	Republic of Korea	Other countries
TOTAL	162,362.6	160,645.4	556.2	186.6	974.3
Gasoline A-80	5,938.9	5,938.9	-	-	-
Gasoline AI-92	33,383.0	33,383.0	-	-	-
Gasoline AI-95	3,716.0	3,716.0	-	-	-
Gasoline AI-98	170.8	170.8	-	-	-
Diesel fuel	80,382.1	80,382.1	-	-	-
Fuel TS-1	5,791.3	5,791.3	-	-	-
Lique- fied gas	3,002.0	2,864.5	86.9	50.6	-
Other	29,978.4	28,398.8	469.3	136.0	974.3

5.3. THE RESIDUE OF PETROLEUM PRODUCTS, /by type, tons, 2017- 2018/



Source : Petroleum Products Division, MRPAM



5.4. THE RESIDUE OF PETROLEUM PRODUCTS, /by company, tons, 2018.IX.25/

Company name	TOTAL	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Diesel fuel	Fuel TS-1
TOTAL	121,457.6	13,481.2	29,007.8	6,115.0	71,308.6	1,545.0
NIC JSC	26,366.7	6,202.1	7,238.5	487.0	12,439.1	-
Petrostar LLC	10,274.7	1,308.9	1,897.5	1,820.4	5,247.9	-
Magnai Trade LLC	15,223.0	1,030.0	6,335.0	1,051.0	6,288.0	519.0
Shunkhlai Group LLC	21,498.4	1,243.6	5,018.2	949.9	14,286.8	-
Sod Mongol Group LLC	9,168.7	1,158.1	2,175.6	329.5	4,479.4	1,026.0
Petrojump LLC	258.5	-	30.3	6.6	221.7	-
M-Oil Group LLC	2,604.2	97.3	219.9	176.0	2,110.9	-
Rysjan LLC	1,516.6	291.1	413.5	812.0	-	-
Just Oil LLC	466.1	109.4	100.9	3.8	252.0	-
Oin Birj LLC	8,930.6	575.7	3,732.4	211.9	4,410.6	-
Sinchi Oil LLC	521.4	240.3	73.1	135.9	72.1	-
Khurs Autoservice LLC	1,249.9	390.7	242.4	-	616.8	-
New Energy Star LLC	1,390.4	78.6	472.8	100.3	738.7	-
Undarga Uvs LLC	880.8	280.1	89.5	-	511.2	-
Monsuli LLC	2,223.8	418.3	561.2	-	1,244.3	-
ICIC LLC	7,448.3	22.0	356.3	18.2	7,051.8	-
Khazyna LLC	85.0	35.0	25.0	-	25.0	-
Tod Petroleum LLC	1,117.4	-	25.7	12.5	1,079.2	-
Palamino Oil and Energy LLC	89.0	-	-	-	89.0	-
Welcome LLC	40.0	-	-	-	40.0	-
Petroeum Production LLC	6,519.4	-	-	-	6,519.4	-
Naran Petroleum LLC	2,896.4	-	-	-	2,896.4	-
NP Petroleum LLC	688.4	-	-	-	688.4	-

Source : Petroleum Products Division, MRPAM

5.5. THE WORLD AVERAGE PRICE OF PETROLEUM PRODUCTS ARE SELLING RETAIL SALE, /by US\$/tons,
2018.I-IX/

Date	New York		London		Russia		China	
	WTI		BRENT		URALS 32'		DAQING 33'	
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	↓ -10.2%	478.52	↓ -8.17%	448.86	↓ -9.30%	418.75	↓ -7.93%
2018/02/16	481.29	↑ 4.90%	492.65	↑ 2.95%	459.75	↑ 2.43%	424.57	↑ 1.39%
2018/02/26	498.69	↑ 3.62%	509.45	↑ 3.41%	475.39	↑ 3.40%	439.84	↑ 3.60%
2018/03/02	477.93	↓ -4.16%	489.08	↓ -4.00%	454.27	↓ -4.44%	420.93	↓ -4.30%
2018/03/09	484.10	↑ 1.29%	497.59	↑ 1.74%	451.20	↓ -0.68%	412.94	↓ -1.90%
2018/03/16	486.44	↑ 0.48%	503.06	↑ 1.10%	463.84	↑ 2.80%	425.30	↑ 2.99%
2018/03/23	512.81	↑ 5.42%	529.05	↑ 5.17%	516.82	↑ 11.42%	458.74	↑ 7.86%
2018/03/30	492.68	↓ -3.93%	514.46	↓ -2.76%	516.82	↔ 0.00%	436.93	↓ -4.75%
2018/04/06	497.52	↑ 0.98%	524.26	↑ 1.91%	499.21	↓ -3.41%	439.11	↑ 0.50%
2018/04/13	518.12	↑ 4.14%	550.55	↑ 5.01%	512.29	↑ 2.62%	470.37	↑ 7.12%
2018/04/20	494.55	↓ -4.55%	562.71	↑ 2.21%	521.06	↑ 1.71%	537.25	↑ 14.22%
2018/04/27	531.38	↑ 7.45%	567.11	↑ 0.78%	539.11	↑ 3.46%	543.80	↑ 1.22%
2018/05/04	544.03	↑ 2.38%	568.86	↑ 0.31%	515.80	↓ -4.32%	542.34	↓ -0.27%
2018/05/11	551.67	↑ 1.41%	586.41	↑ 3.09%	539.70	↑ 4.63%	497.63	↓ -8.24%
2018/05/18	556.20	↑ 0.82%	596.52	↑ 1.72%	559.94	↑ 3.75%	514.72	↑ 3.43%
2018/05/25	527.01	↓ -5.25%	570.84	↓ -4.31%	536.41	↓ -4.20%	479.97	↓ -6.75%
2018/06/01	518.67	↓ -1.58%	585.43	↑ 2.56%	496.21	↓ -7.49%	487.67	↑ 1.61%
2018/06/08	512.58	↓ -1.17%	580.56	↓ -0.83%	535.75	↑ 7.97%	487.09	↓ -0.12%
2018/06/15	520.38	↑ 1.52%	576.99	↓ -0.62%	530.93	↓ -0.90%	487.09	↔ 0.00%
2018/06/26	518.35	↓ -0.39%	563.01	↓ -2.42%	529.10	↓ -0.34%	508.61	↑ 4.42%
2018/07/03	578.59	↑ 11.62%	601.99	↑ 6.92%	549.78	↑ 3.91%	528.89	↑ 3.99%
2018/07/06	576.80	↓ -0.31%	585.96	↓ -2.66%	549.78	↔ 0.00%	502.28	↓ -5.03%
2018/07/13	554.09	↓ -3.94%	572.36	↓ -2.32%	540.43	↓ -1.70%	470.95	↓ -6.24%
2018/07/20	532.63	↓ -3.87%	555.19	↓ -3.00%	509.00	↓ -5.81%	472.84	↑ 0.40%
2018/07/27	535.99	↑ 0.63%	568.03	↑ 2.31%	521.79	↑ 2.51%	480.47	↑ 1.61%
2018/08/03	534.43	↓ -0.29%	556.25	↓ -2.07%	513.02	↓ -1.68%	472.77	↓ -1.60%
2018/08/10	527.72	↓ -1.54%	553.21	↓ -2.61%	506.23	↓ -2.98%	461.21	↓ -4.01%
2018/08/17	508.83	↓ -3.58%	545.61	↓ -1.37%	502.50	↓ -0.74%	453.43	↓ -1.69%
2018/08/24	529.28	↑ 4.02%	567.80	↑ 4.07%	540.13	↑ 7.49%	483.46	↑ 6.62%
2018/08/31	544.65	↑ 2.90%	589.91	↑ 3.89%	550.37	↑ 1.89%	495.09	↑ 2.41%
2018/09/07	528.65	↓ -2.94%	583.75	↓ -1.04%	551.68	↑ 0.24%	487.09	↓ -1.62%
2018/09/14	538.33	↑ 1.83%	593.33	↑ 1.64%	557.82	↑ 1.11%	500.03	↑ 2.66%
2018/09/21	552.30	↑ 2.59%	594.32	↑ 0.17%	558.19	↑ 0.07%	504.83	↑ 0.96%

Source : www.wtrg.com, info.TOCOM, www.bloomberg, www.ineng.org, www.reuters.com, www.oil.in-en.com, www.topoilnews.com, www.nymex.com, www.finmarket.ru, www.quandl.com, www.topoilnews.com



5.6. THE RETAIL PRICE OF PETROLEUM PRODUCTS SOLD THROUGHOUT MONGOLIA, /by provinces, MNT/litre, 2018.IX.18, 2018.IX.25/

Aimag and capital city	Gasoline A-80		Gasoline AI-92		Gasoline AI-95		Diesel fuel	
	2018.IX.18	2018.IX.25	2018.IX.18	2018.IX.25	2018.IX.18	2018.IX.25	2018.IX.18	2018.IX.25
NATIONAL AVERAGE PRICE	1763	1783	1888	1917	2157	2163	2183	2215
Western region	1826	1842	1952	1968	-	-	2146	2164
Bayan-Ulgii	1700	1700	1820	1820	-	-	1890	1890
Govi-Altai	1820	1820	1930	1930	-	-	2230	2230
Zavkhan	1890	1890	1990	1990	-	-	2260	2260
Uvs	1830	1910	2010	2090	-	-	2150	2240
Hovd	1890	1890	2010	2010	-	-	2200	2200
Hangai region	1746	1746	1890	1890	2148	2148	2209	2209
Arkhangai	1770	1770	1910	1910	2200	2200	2240	2240
Bayankhongor	1800	1800	1930	1930	-	-	2260	2260
Bulgan	1720	1720	1860	1860	2120	2120	2180	2180
Uvurkhangai	1770	1770	1910	1910	-	-	2240	2240
Orkhon	1690	1690	1830	1830	2120	2120	2160	2160
Selenge	1690	1690	1830	1830	2120	2120	2160	2160
Khuvsgul	1780	1780	1960	1960	2180	2180	2220	2220
Central region	1755	1761	1871	1874	2161	2169	2214	2225
Ulaanbaatar	1680	1680	1830	1830	2110	2120	2140	2150
Tuv	1690	1690	1830	1830	2120	2120	2150	2150
Darkhan	1690	1690	1830	1830	2120	2120	2130	2160
Govisumber	1750	1800	1880	1900	2150	2200	2200	2250
Dundgovi	1780	1780	1830	1830	2150	2150	2290	2290
Dornogovi	1810	1810	1900	1900	2230	2230	2250	2250
Umnugovi	1830	1830	1970	1970	2180	2180	2300	2300
Zamin Uud	1810	1810	1900	1900	2230	2230	2250	2250
Eastern region	1783	1783	1937	1937	2173	2173	2250	2263
Dornod	1790	1790	1950	1950	2180	2180	2250	2250
Sukhbaatar	1810	1810	1970	1970	2180	2180	2250	2290
Khentii	1750	1750	1890	1890	2160	2160	2250	2250

5.7. RETAIL PRICE OF PETROLEUM PRODUCTS OF MAIN COMPANIES IN ULAANBAATAR CITY, /by company, MNT/litre, 2018.IX.25/

	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Diesel fuel
AVERAGE PRICE IN UB	1680	1828	2118	2152
Shunkhlai LLC	1690	1825	2120	2155
Sod Mongol LLC	1650	1830	2080	2140
Magnai trade LLC	1690	1830-1850	2150	2150-2250
Petrovis LLC	1690	1825-1830	2120	2160

Source : Petroleum Products Division, MRPAM

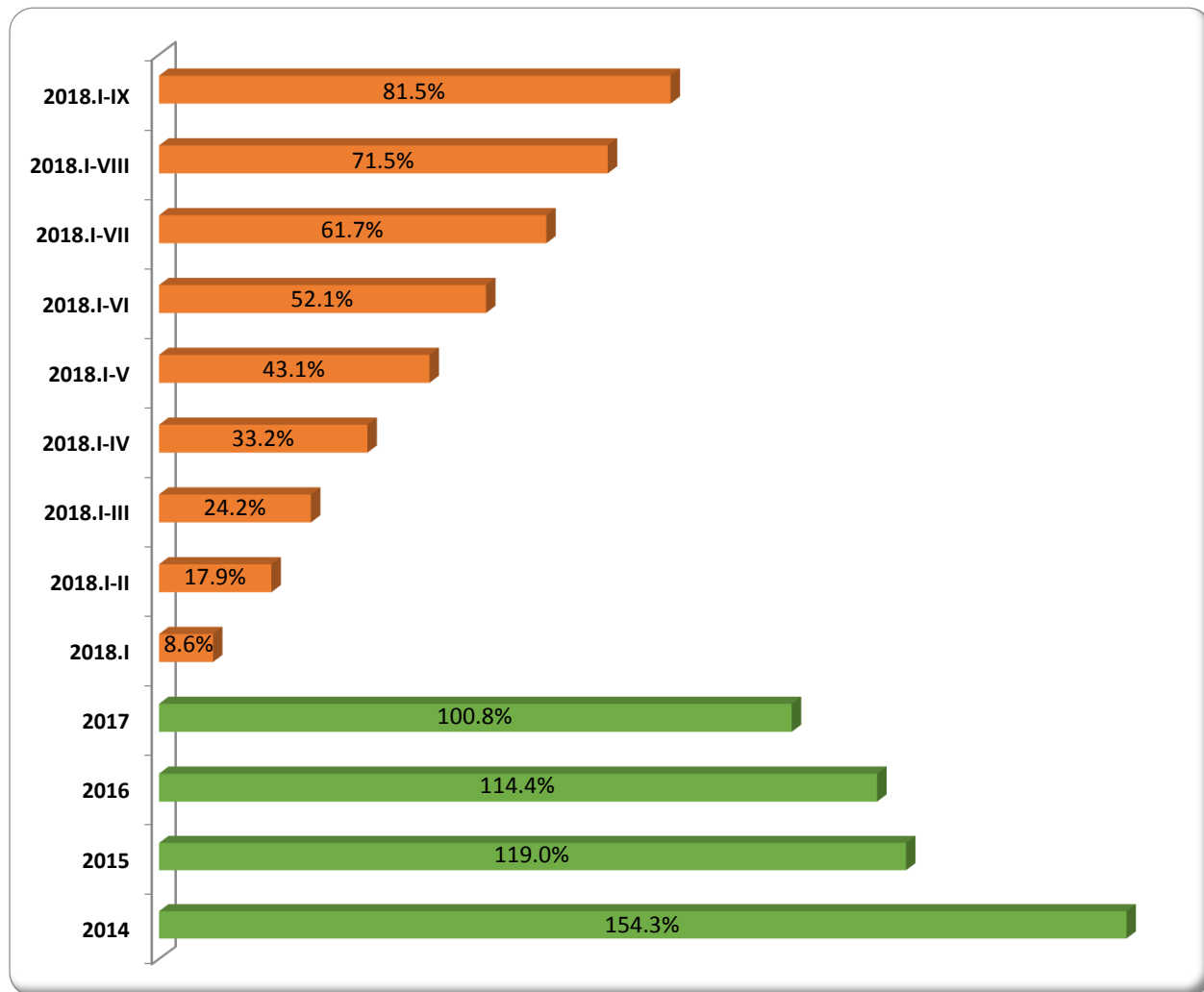


6. STATISTICS OF STATE INVESTMENT REVENUE

6.1. BUDGET REVENUE PLAN AND PERFORMANCE, /by income type, mln.MNT, 2018/

	Plan of 2018	Performance	Performance rate
		2018.I-IX	
License fee	37,000.0	29,930.4	80.9%
Reimbursement	2,100.0	921.0	43.9%
Petroleum export revenue	223,448.3	176,467.4	79.0%
Service revenue /petroleum/	2,392.5	2,106.0	88.0%
Service revenue /mineral resources/	3,717.3	1,489.6	40.1%
Tender revenue	23,150.0	-	0.0%

6.2. PERFORMANCE RATE OF BUDGET REVENUE , 2014-2018



Source: Public Administration and Management Division, MRPAM

TELEPHONE LIST OF MINERAL RESOURCES AND PETROLEUM AUTHORITY

Director	263701
Deputy Director	263750
Deputy Director	328305
Public Administration and Management Division	263708
Legal Division	263781
Geology and Exploration Division	330939
Mining Productions, Technology Division	310041
Coal Research Division	263965
Cadastre Division	263640
Monitoring, Evaluation and Statistics Division	70183861
Heavy Industry, Technic and Technology Division	70181239
Petroleum Exploitation Division	70181176
Petroleum Products Division	70181308
Mineral Resources Information Technology Center	328305
Mineral Resources and Petroleum Combustible Testing and Experimental Laboratory	70183105
Statistics specialist of Monitoring, Evaluation and Statistics Division	70183111

CALL CENTER OF GOVERNMENT	11-11
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