PRESENT SITUATION OF MINERAL RESOURCES OF MONGOLIA

Mineral Resources Authority of Mongolia
CONTENT


2. Investments in Mongolia.


Mineral Resources Authority of Mongolia
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**Location:** Between China and Russia in East Asia

**Territory:** 1.56 million sq. km

**Capital city:** Ulaanbaatar

**Population:** 2.7 mln

**Average altitude:** 1,580 m above sea-level

**Land:** Mongolia rank highest with an average of 64 ha per capita
CURRENT SITUATIONS OF GEOLOGICAL AND MINING SECTOR
- 100% of the Mongolian territory is covered by geological mapping on a scale of 1:200 000.
- 27.1% of the Mongolian territory is covered by general exploration work and geological mapping on a scale of 1:50 000.
- 100% of the Mongolian territory is covered by gravimetric survey on a scale of 1:1 000 000.
- 22% of the Mongolian territory is covered by gravimetric survey on a scale of 1:200 000.
- 60% of the Mongolian territory is covered by Aerial magnetic survey on a scale of 1:200 000.
- 32% of the Mongolian territory is covered by aerial multispectral survey on a scale of 1:50 000–1:25 000.
LOCATION MAP OF GOLD AND SILVER DEPOSITS AND OCCURRENCES
LOCATION MAP OF BASE METALS (Cu) DEPOSITS AND OCCURRENCES
LOCATION MAP OF BASE METALS (Pb, Zn, Ni, Co) DEPOSITS AND OCCURRENCES
LOCATION MAP OF RARE METALS (Sn, W, Mo, Bi, Be, Ta) DEPOSITS AND OCCURRENCES
LOCATION MAP OF NON-METAL MINERAL AND OCCURRENCES
LOCATION MAP OF COMBUSTIBLE DEPOSITS AND OCCURRENCES
THE ROLE OF MINING SECTOR IN THE NATIONAL ECONOMY

<table>
<thead>
<tr>
<th>Year</th>
<th>In GDP</th>
<th>In manufacturing industry</th>
<th>In Export</th>
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<tbody>
<tr>
<td>2003</td>
<td>12.6%</td>
<td>16.6%</td>
<td>49.6%</td>
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<tr>
<td>2004</td>
<td>17.0%</td>
<td>16.6%</td>
<td>58.1%</td>
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<tr>
<td>2005</td>
<td>20.2%</td>
<td>16.6%</td>
<td>70.8%</td>
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<tr>
<td>2006</td>
<td>29.9%</td>
<td>20.2%</td>
<td>65.4%</td>
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<tr>
<td>2007</td>
<td>27.1%</td>
<td>29.9%</td>
<td>69.9%</td>
</tr>
<tr>
<td>2008</td>
<td>20.2%</td>
<td>27.1%</td>
<td>75.8%</td>
</tr>
<tr>
<td>2009</td>
<td>19.5%</td>
<td>20.2%</td>
<td>78.4%</td>
</tr>
<tr>
<td>2010</td>
<td>22.7%</td>
<td>19.5%</td>
<td>80.7%</td>
</tr>
<tr>
<td>2011</td>
<td>20.2%</td>
<td>22.7%</td>
<td>84.6%</td>
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<table>
<thead>
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<th></th>
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<tr>
<td>1 FLUORIDE, thou.tn</td>
<td>71.8</td>
<td>99.0</td>
<td>80.5</td>
<td>206.7</td>
<td>233.4</td>
<td>239.4</td>
<td>245.0</td>
<td>219.1</td>
<td>344.2</td>
<td>542.4</td>
<td>251</td>
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<td>2 FLOTATION CONSENTRATE thou. tn</td>
<td>127.3</td>
<td>86.1</td>
<td>116.2</td>
<td>102.7</td>
<td>93.7</td>
<td>108.3</td>
<td>109.9</td>
<td>115.7</td>
<td>115.3</td>
<td>140.7</td>
<td>152</td>
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<td>3 COPPER CONSENTRATE thou.tn</td>
<td>133.5</td>
<td>131.7</td>
<td>130.27</td>
<td>130.0</td>
<td>126.3</td>
<td>129.7</td>
<td>130.2</td>
<td>126.8</td>
<td>129.8</td>
<td>127.31</td>
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<td>4 MOLYBDENUM CONSENTRATE thou.tn</td>
<td>1423</td>
<td>1590</td>
<td>1793</td>
<td>1141</td>
<td>1153</td>
<td>1403.9</td>
<td>1978.3</td>
<td>1783.6</td>
<td>2408.7</td>
<td>2008.97</td>
<td>1957</td>
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<tr>
<td>5 TIN CONSENTRATE /50%/, tn</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>22.0</td>
<td>47.0</td>
<td>-</td>
<td>27.5</td>
<td>87.5</td>
<td>15</td>
<td>13</td>
<td>84.3</td>
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<tr>
<td>6 TUNGSTEN STEEL CONSENTRATE /68%/, tn</td>
<td>93.0</td>
<td>51.0</td>
<td>17.0</td>
<td>77.1</td>
<td>78.2</td>
<td>182.2</td>
<td>244.5</td>
<td>141.9</td>
<td>38.6</td>
<td>19.9</td>
<td>163.4</td>
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<td>7 COAL thou.tn</td>
<td>5141</td>
<td>5544</td>
<td>5666.1</td>
<td>6665</td>
<td>7517.1</td>
<td>8074.1</td>
<td>9237.6</td>
<td>9691.6</td>
<td>13163.9</td>
<td>25246.4</td>
<td>30940</td>
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<tr>
<td>8 GOLD kg</td>
<td>12059</td>
<td>10883</td>
<td>10837</td>
<td>18500</td>
<td>21900</td>
<td>21267</td>
<td>18087</td>
<td>15184</td>
<td>9803</td>
<td>6037.1</td>
<td>5703</td>
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<tr>
<td>9 CATHODE COPPER, tn</td>
<td>1476</td>
<td>1500</td>
<td>1341</td>
<td>2376.1</td>
<td>2474.5</td>
<td>2618.4</td>
<td>3006.5</td>
<td>2586.6</td>
<td>2470.1</td>
<td>2746.2</td>
<td>2389</td>
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<td>10 IRON ORE, thou.tn</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>33.5</td>
<td>167.7</td>
<td>180.0</td>
<td>265.1</td>
<td>1387.4</td>
<td>3203.2</td>
<td>5678</td>
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<tr>
<td>11 ZINC CONSENTRATE thou.tn /WET/</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>22.8</td>
<td>109.9</td>
<td>154.7</td>
<td>143.6</td>
<td>156.5</td>
<td>112.6</td>
<td>105</td>
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</tr>
<tr>
<td>12 CAST/GAUZE COPPER tn</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>195.5</td>
<td>221.2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
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<tr>
<td>13 MOLYBDENUM OXIDE, tn</td>
<td>157.8</td>
<td>2664.0</td>
<td>2112.2</td>
<td>156.5</td>
<td></td>
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</table>
MONGOLIAN COAL MINING
(million ton)
MONGOLIAN COAL EXPORT
(million ton)

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GOLD PRODUCTION 2000-2011

- Gold Production:
  - 2000: 11808 kg
  - 2001: 13675 kg
  - 2002: 12097 kg
  - 2003: 11119 kg
  - 2004: 19418 kg
  - 2005: 24122 kg
  - 2006: 22561 kg
  - 2007: 17473 kg
  - 2008: 15184 kg
  - 2009: 9803 kg
  - 2010: 6037 kg
  - 2011*: 5703 kg

- Number of Entities:
  - 2000: 104
  - 2001: 117
  - 2002: 122
  - 2003: 124
  - 2004: 129
  - 2005: 131
  - 2006: 127
  - 2007: 106
  - 2008: 100
  - 2009: 118
  - 2010: 102
  - 2011*: 111

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COPPER CONCENTRATE 2000-2011

- Molybdenum concentrate /ton/
- Cathodal copper /ton/
- Copper concentrate /thousand ton/

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INVESTMENTS IN MONGOLIA
WORLD-SCALE LARGE DEPOSITS

- 2712 tons of silver
- 163 million tons of phosphorus
- 1104 tons of uranium
- 564 million tons of lignite
- 6.4 billion tons of coal
- 163 million tons of phosphorus
- 45 million tons of copper
- 1800 tons of gold
- 8.1 tons of gold
- 1.6 mill. tons of copper
<table>
<thead>
<tr>
<th>INVESTMENTS IN MONGOLIA</th>
<th>Total</th>
<th>Thereof:</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Mining</td>
</tr>
<tr>
<td></td>
<td>Number of licenses</td>
<td>Area /million hectare/</td>
</tr>
<tr>
<td>2010</td>
<td>4137</td>
<td>26.0</td>
</tr>
<tr>
<td>2011</td>
<td>3917</td>
<td>24.0</td>
</tr>
<tr>
<td>2013.01.01</td>
<td>3669</td>
<td>21.78</td>
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NUMBER OF VALID LICENSES OF MINERAL RESOURCES (2008-2012)

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MINING SECTOR’S POLICY OF THE GOVERNMENT OF MONGOLIA

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MINING SECTOR’S POLICY OF THE GOVERNMENT OF MONGOLIA

PROGRAM 2008-2012

1. To develop strategic deposits economically valuable and to develop the complex plan to industrialize the Mongolia.

2. To do effective research on geological formation, mineral distribution, general evaluation, geological mapping and other researches.

3. To improve the geology and mining sectors’ legal environment.
Thank you very much for your attention!

Contacts:

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