



**Preventing negative legacies
 of energy-related activities,
 including mining operations**

Ministry of Mining, Mongolia
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BASIC INFORMATION

Some facts about mining in Mongolia: about 300 mining operations, with mining licenses covering 14,3% of territory.

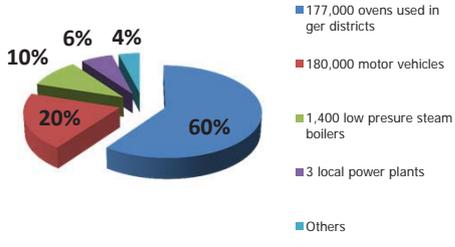
	amount	area, thous.Ha	percent, %
Mining license	1211	739.5	0.5
Expolorotaion license	2481	21600	13.8

NEGATIVE IMPACT

Air pollution

Air pollution occurs as a result of emission of toxic chemical gas, substances and other materials into the atmosphere.



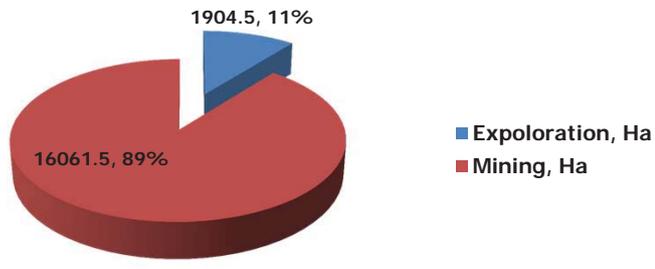
Source	Percentage
177,000 ovens used in ger districts	60%
180,000 motor vehicles	20%
1,400 low pressure steam boilers	10%
3 local power plants	6%
Others	4%

Poor air quality does not only impose harm to human's health and to their property but also to environment, plant and to wildlife.

NEGATIVE IMPACT

Soil pollution and deterioration

In Mongolia, 19870.4 hectares of land is degraded as a result of mining activities. 11 percent is caused by geological survey and 89 percent is caused due to the exploration activities.

Activity	Area (Ha)	Percentage
Exploration	1904.5	11%
Mining	16061.5	89%

NEGATIVE IMPACT

Water pollution

In 2010, the study to evaluate soil water quality was conducted in 79 rivers and 13 lakes covering 150 points. As a result of this study, the soil water quality was classified in 6 different categories depending on its quality and degradation.

Category	Percentage
I Цэвэр	55%
II Цэвэр	33%
III Бага бохирдолтой	8%
IV Бохирдолтой	1%
V Бохир	1%
VI Маш бохир	2%

The mining operations, in particular exploration of gold, were the main factors for the pollution of 28 rivers in 8 provinces in Mongolia.

PREVENTATIVE MEASURES

Preventives measures can be taken by considering in 3 areas:

- to establish legal framework and instruments to avoid negative impacts,
- to introduce modern and environmentally friendly technologies and internationally recognized best practices,
- to work with other countries and interrogational organizations by learning from their experiences.



Government policy method

In 2009 Mongolia approved a law to prevent environmental negative impacts caused by the mining industry.

- “prohibiting mineral exploration and use in completed of river, water basin, forest and protected area”.

The national program on water was approved by the Government.

- The comprehensive law on environment was passed by the Parliament in 2012



Science and research method

- To supplement the Government policies and measures, the academic community including the Mongolian Science Academy is conducting studies to introduce environmentally friendly technology in mining sector with the financial support of the Government.



Cooperation with international organizations

We are working together with:

- The Federal Institute for Geosciences and Natural Resources of Germany,
- The Swiss Development Agency,
- KOICA.



Main challenges

- The lack of social responsibility of the entities involved in mining industry,
- The lack of capacity in monitoring of mining activities,
- To increase the social responsibility and to apply appropriate measures to develop its human resource and technical capacity,
- To strengthen the cooperation between the Government and the civil society.



CONCLUSION

- It cannot be ignored that the mining industry is the economic backbone of our country.
- However, it is crucial for the Government, industry, academia and civil society to work together overcoming the challenges facing.



Thank you for attention!

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