Policy and Development on the Green Mine Construction in China

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9th Mining Task Force Meeting
Cebu, The Philippines
August 2015

Main Policies and Measures on Green Mines
1. **Concept and Content of Green Mines**

To take rational use of resources, energy conservation and emission reduction, ecological environment protection and social harmony as the main objectives with the requirements on scientific exploiting approaches of mines, efficient use of resources, standardized management of enterprises, environmental protected and green manufacturing, eco-friendly mine environment, so that to pursue the circular economy development model with focuses on the integration of the resources, ecological, economic and social benefits, to inject the concept and practice of green mining throughout the entire process of mineral resources development and utilization.

2. **The development of green mining and the construction of green mines is an important measure to promote the sustainable development of mining and the construction of ecological civilization.**

In the year of 2009, the State Council approved the ‘National Mineral Resource Planning (2008-2015)’, it was the first time that the concept and requirement on the development of green mining and the improvement of green mines had been explicitly proposed at national level, and meanwhile the overall planning target to devote more efforts to promoting green mine construction and to establish the green mine pattern by 2020 had been confirmed.
3. Regulations and Suggestions on Green Mine Construction

- From the government aspect, the Ministry of Land and Resources issued ‘Guidance on the implementation of the task on the development of green mining and green mines of the National Mineral Resources Planning’ and released ‘National Preliminary Conditions on Green Mines’.

- From the industry aspect, China Mining Association jointly with other 11 mine enterprises and industry associations initiated and formulated ‘The Agreement on Green Mining’.

4. National Preliminary Conditions on Green Mines

‘The National Preliminary Conditions on Green Mines’ formulated by the Ministry of Land and Resources issued preliminary conditions on green mines covering 9 aspects including rule of law, standardized management, comprehensive use, technical innovation, energy conservation and emission reduction, environment protection, land reclamation, social harmony and enterprise culture.
5. Main Measures

❖ **Guide by Planning**  – to formulate development plan for green mines construction according to the requirement and arrangement of the Mineral Resources Planning.

❖ **Industry Self-regulation**  – to promote green mining by encouraging enterprises performing social responsibilities.

❖ **Pilot Project and Demonstration**  – to elect national experimental units of green mines and to let them play a demonstration role.

❖ **Policy Support**  – to encourage enterprise to constructing green mines by involving financial, taxation and technology policies.


6. Stimulus Policies

❖ **To strengthen the support of financial special funds.** To strengthen the support of special funds such as ‘exploration on the replacement resources of crisis mines’, ‘geological environment recovery and management’, ‘economic and comprehensive utilization of mineral resources’ and allocate more support on green mine enterprises, to encourage and support enterprises to carry out rational use of resources, environmental protection and other related jobs.

❖ **To formulate resources allocation system which is conductive to green mine construction.** To give policy support for those enterprises which has fulfilled green mines conditions in terms of resources allocation and land use for mining, to give priority to those enterprises when allocate resources and provide land according to law and to encourage enterprises to growing and becoming stronger.

❖ **To improve taxation and other economic policies.** To establish and improve tax reduction system and gradually form an economic policy system given special support to green mines enterprises.

❖ **To enhance the guidance of technology policies.** To draw up the technical catalog of encouraged, restricted, eliminated mineral resource conservation and comprehensive utilization, to improve the skill of resource development and utilization, energy conservation and emission reduction and environmental protection through technological innovation with advanced technologies, techniques and equipment.
2. The Progress of Green Mines Construction

1. National Experimental Units of Green Mines

- The selection and evaluation task had been organized for 4 times and 661 enterprises were evaluated as national green mining experimental units, of which the first 35 enterprises passed the national green mine acceptance check.

- In terms of industry scope, the 661 national green mining experimental units work in the fields of energy, ferrous metal, nonferrous metal, gold, chemical industry, non-metal and building materials. In terms of the nature of the enterprises, there are state-owned companies, private companies and foreign-owned companies.

- Through pilot projects on national green mine construction, to actively expand the experience and construction mode, to guide and lead more mining enterprises to conduct green mines construction work and to promote the development of green mining.
2. Demonstration Base of Comprehensive Use of Mineral Resources

- There are 40 demonstration bases being founded for the first time. The demonstration bases mainly concentrate on energy mineral resources, the country much-needed bulk dominant mineral resources and mineral resources of strategic emerging industries including oil and gas, coal, nonferrous metals, ferrous metals and etc. totally 7 areas, the involved resources types account for more than 50% of the country's total reserves.

- Through demonstration bases, 8 technical difficulties on comprehensive use of mineral resources namely low permeability oil, shale gas, vanadium-titanium magnetite, solid potash, low grade collophane has been solved in the way of turning a number of low-grade, inter-grown and associated minerals and difficult-to-use minerals resources into economically recoverable resources, the economic benefit is significantly.

- The demonstration bases make efforts on the innovation of the development mode of resource industry, by doing so 5 new mode of resources development such as backfill mining mode, new pattern of land use for mining, mining and land coordination mode, factory development mode of oil and gas well and the regional mining construction mode have been formed to promote the industrial development of comprehensive utilization.

3. Advanced and applicable techniques on comprehensive use of mineral resources

- A total of 159 advanced and applicable techniques have been popularized after selection, among which 59 mining techniques, 40 mineral processing techniques and 60 comprehensive use of associated minerals, paragenic ore and tailings, all those techniques are in dealing with oil and gas, coal, metals, non-metallic minerals.
4. Cash Deposit System for Geological Environment Treatment and Recovery of Mines

- 31 provinces (autonomous regions and municipalities) have been promulgated and implemented cash deposit system for geological environment treatment and recovery. Up to the end of 2014, a total number of 99,006 mines should pay cash deposit and 87% had paid.

5. Mine Recovery Action

- Up to 2014, China had invested 14.65 billion RMB for geological environment treatment and recovery to recover 3310 mines with a total area of 103,000 hectares. The recovery percentage was 26.7%.
6. Mining Park

Up to the end of 2014, there were 72 qualifications being approved to build National Mining Parks and 30 National Mining Parks is completing and open to the public now. There were 41 Provincial Level Mining Parks in provinces, districts and cities and the total investment was 2.294 billion RMB.

7. Survey and Monitoring on Geological Environment

Since 2001, China has completed surveys on 125,000 square kilometers, more than 110,000 mines have been surveyed. The full cover of mines by remote sensing monitoring has been initially realized. The survey and monitoring system combined of regional remote sensing interpretation and field survey has been formed.
Thanks for your attention!