

SUSTAINABLE DEVELOPMENT IN MINING ACTIVITIES

1. INTRODUCTION.

Compliance of environmental standards is the most important tool in achieving sustainability. For a policy, program, project or plan to be sustainable, it has to take into consideration all three dimensions of sustainability such as economic growth, social equity and ecological integrity. Mining as one of activity in utilizing natural resources play a crucial role in the economic as well as social development in many countries. In enhancing the contribution of mining to sustainable development, actions at international, regional and national levels are required to:

- a. Address the environmental, economic, health and social impacts and benefits of mining, minerals and metal, including workers health and safety, throughout their lifecycle and use existing mechanism such as partnership arrangements among interested governments, intergovernmental organizations and other stakeholders to promote greater efforts, transparency and accountability for sustainability of the mining industry,
- b. To actively promote eco-design, eco-labeling and other transparent, verifiable and non-misleading consumer information tools;
- c. To apply the precautionary and polluters pay principles making producers financially liable for the environmental effects from process production activity.
- d. Enhance the participation of local and indigenous communities to play an active stakeholder role in mining development through the life cycles of mines and post mining (after closure) activities,
- e. Provide adequate financial, technical and capacity building support to developing countries, and countries with economies in transition, in optimizing mining and processing of minerals, including small scale mining, improve value added processing, and reclamation and rehabilitation of degraded sites.

At present many countries especially developing countries are facing increased growth in the mining industry. One shared issue facing countries having mining activities is the deterioration of its environmental quality such as surface and ground water, air, coastal and sea areas. Countermeasures taken to deal with the situation are the introduction of clean technology in carrying out processing and best mining practices in the mining products. These practices have been applied in developing countries with various results achieved.

Most developing countries have already environmental standards for emission, effluent, groundwater contamination in place as well as hazardous and toxic management guidelines. Nevertheless, mining industry still do not comply due to weak law enforcement, lack of monitoring capability and skilled human resources. One effective tool that can be applied is to improve the mining industries environmental performance and management through harmonization of environment standards within the developing countries.

2. OBJECTIVE

To improve environmental performance and management from the mining industry through harmonization of environment standards within the countries which produce mining products

3. EXPECTED GOALS

OUTPUT

- a. Create a demand from the public for environmentally mining process in complying with effluent, emission standards and hazardous and toxic management;
- b. Pressurize mining industries to comply with existing environmental standards;
- c. Heightened public awareness on mining industries that pollute;
- d. Ensure openness and transparency in the implementation of environmental standards for mining industries;
- e. Obtain reliable information on performance of mining industries;

OUTCOME

- a. Ensure that mining industries continue to play their essential role in sustainable development and, through their performance reduce environmental pollution to all media and enhance the quality of life within their operational work area;
- b. Pave the way for creating international harmonization of environmental standards for better positioning for global competitiveness in mining product. The resulting harmonization of technical regulations will help expand and make more efficient the export of products within and outside the developing countries region. Doing so on the basis of shared international rules will improve the corporate image of relevant industries as well as significantly benefiting global consumers;
- c. Enhance the capacity of political institutions including central and local governments as well public decision makers to determine environmental management of mining industries. Political and social institutions could exert enormous influence over the mining industry development;
- d. The opportunity to leapfrog modern technological development that developed nations had gone through. Institutional capacity to adopt and implement innovative technologies can develop sufficiently through the usage of both mining and environmental technologies;
- e. Create a better environment quality in mining industry areas;
- f. Reduce negative impact to human health and environment;
- g. Drastically reduce water and air pollution as well as land degradation from the mining sector.

4. RECOMMENDED ACTIONS

SHORT TERM

- a. Develop environmental standards based on types of mining industries especially for effluent and emission standards;
- b. Obtain relevant government institution concurrence for issuance of environmental performance of mining industries;
- c. Strengthen public awareness of surrounding communities through the information right to know on pollution from mining industries;
- d. Support stakeholders to apply best mining practice;
- e. Develop mechanism for the exchange of data and information within similar mining industries from countries with mining industries;
- f. Support local government action to reduce pollution to assist national governments efforts to meet Basel Convention on trans-boundary movement and disposal of hazardous wastes;

LONG TERM

- a. Strengthen national and regional capacity of institutions on ways to apply environmental performance mechanisms. Key questions include the level of necessary regulation whether cooperative or adversarial relations will characterize interaction between mining sector firm and public regulator, and whether regulation will focus only on industry or fall directly on consumer (i.e. voter) as well. Lack of harmony will likely increase resistance to specific regulatory measures, reduce voluntary cooperation, and greatly increase the cost and effectiveness of compliance;
- b. Promote an integrated approach to policy making at national and regional levels for pollution control to promote sustainable development, including policies, infrastructure and good delivery in modern mining and pollution;
- c. Assess and improve the transfer of clean technologies in developing countries from developed countries, in particular at the bilateral and regional levels with action to establish environmental performance mechanism;
- d. Develop and strengthen networking of related institutional support structures such as technology and productivity centers, research, training and development institutions, and national and regional cleaner production centers.

5. FUNDING

PARTNERSHIP INITIATIVES INFORMATION SHEET

Name of the Partnership/Initiative :

“SUSTAINABLE DEVELOPMENT IN MINING ACTIVITIES”

Expected date of initiation: 2003

Expected date of completion: Continuous

Partners Involved:

Governments:

Ministries of Environment, Ministries of Mining, Ministries of Internal Affair within ASEAN countries.

Intergovernmental organizations:

1. ASEAN Countries,
2. Industrial Mining Association,

Major groups:

1. Industrial Associations within ASEAN regions,
2. Indonesian Mining Association,
3. Indonesian Trade Chamber (KADIN),

Others:

1. NGOs concerned with reducing for pollution in mining process activities,
2. Local Governments within the respective ASEAN countries with mining activities.

Leading Partner: Ministry of Environment of the Republic of Indonesia

Name of the contact person/focal point: Ir. Isa Karmisa Adiputra

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Main objectives of the Partnership/Initiative

Please provide a brief description:

To improve environmental performance and management of the mining industry through harmonization of environmental standards within the ASEAN countries which produce mining products.

Please also provide a brief description of the relationship of the Partnership/Initiative with the objectives of Agenda 21 as well as relevant goals and objectives of the United Nation Millennium Declaration:

Establish harmonization of environmental standards between countries with mining activities for better positioning for global sound environmental recognition.

Expected results:

Please provide a brief description:

1. Develop environmental performance and management in the mining activities,
2. Develop post mining strategies.

Specific targets of the Partnership/Initiative and timeframe for their achievement:

Ensure openness and transparency in the implementation of environmental standards for each mining activities.

Coordination and Implementation mechanism

Please provide a brief description of expected coordination/implementation mechanism of the Partnership/Initiative.

Coordination will be developed through the Ministries of Environment within ASEAN countries as well as mining associations within respective ASEAN countries with mining activities, multi stakeholders through periodical meetings on a rotational basis.

Arrangements for funding

Please describe available and/or expected sources of funding for the implementation of the Partnership/Initiative (e.g. donor government(s); international organization(s)/financial institution(s); foundation(s); private sector; other major groups, etc.)

Source : National budget, major industrial mining, mining associations,
Amount : US\$ 6 million over a 3 year periode i.e. 2003 to 2005.

Arrangements for capacity building and technology transfer

Please include information if the Partnership/Initiative provides for training, informational support, institutional strengthening and/or other capacity building measures:

1. Workshops on pollution control of mining activities;
2. Training on mining pollution management and measurement techniques;
3. Develop network among mining partnership organizations within the respective ASEAN countries mining activities;

Please also provide here a brief description of expected arrangements for technology

transfer (if applicable).

Capacity to conduct environmental pollution control and management system will be carried out through internship and technical assistance in field of mining activities.

Links of Partnership/Initiative with on-going sustainable development activities at the international and/or regional level (if any)

Please provide a brief description:

Develop cooperation with agencies of the mining associations within ASEAN on issues dealing with environmental performance, mining pollution control technology and management,

Monitoring Arrangements

Please describe expected arrangements for monitoring of progress in the implementation of Partnerships/Initiative after it will be launched at the WSSD:

(e.g. frequency/modalities of preparation of progress reports; electronic updates, newsletters, etc)

1. Periodical reporting of sustainable development in mining activities to the respective ASEAN countries with mining activities;
2. Periodical exchange of information on follow up measures based on results from sustainable development in mining activities;

Other relevant information:

Web-site (if available): www.menlh.go.id ,or www.bapedal.go.id

Name and contact information of the person filling in this table:

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