

Mining and Environment in Vietnam – Developing Environmental Concepts for the Coal Mining Areas in Quang Ninh



Research Association
Mining and Environment
in Vietnam

The **Research Association Mining and Environment (RAME)** was founded in 2005 and is together with Vietnam National Coal Mineral Industries Group (VINACOMIN) carrying out a research project on mining and environment in Vietnam funded by the German Federal Ministry of Education and Research (BMBF). The project includes research, know how transfer and capacity building for environmental staff of VINACOMIN in order to solve the environmental problems due to coal mining in Quang Ninh province.



environmental aspects

- protection and restoration of
- UNESCO world natural heritage „Ha Long Bay“
 - water and air quality
 - soils
 - flora and fauna
 - landscape



sustainability

economical aspects

- good longterm conditions for
- coal mining & processing
 - tourism
 - agriculture
 - other industries



social aspects

- health and safety for local inhabitants & workers in the coal mines
- space for housing and living



The following research institutions and companies work together:



VINACOMIN
Vietnam National Coal –
Mineral Industries Group
Dep. of Environment



eE+E
University of Bochum,
Environmental Engineering
and Ecology



University of Aachen,
Institute of Mining
Engineering I



UFZ Helmholtz Centre for
Environmental Research
Leipzig – Halle



Gesellschaft für
Consulting, Business und
Management mbH



Lausitzer und Mittel-
deutsche Bergbau-
Verwaltungsgesellschaft
International mbH



Grundwasserfor-
schungsinstitut Dresden
GmbH



Brenk Systemplanung
GmbH



eta Engineering AG



BioPlanta GmbH

www.rame.vn

Our main targets are:

- *Improvement* of the environmental status in Quang Ninh
- *Establishment and implementation* of an environmental management including environmental monitoring and information system (EMS and EIS)
- *Construction* of pilot environmental measures as demonstration examples for other mining companies
- *Promotion* of German environmental technologies and experience
- *Capacity building* for environmental staff of VINACOMIN
- *Build-up* of environmental awareness in the company

Our main fields of work include:

- *Dump* stabilization and design, dump revegetation
- *Water* management, *waste water* treatment
- *Dust* monitoring and mitigation
- Environmental management, *monitoring* and information system
- Environmental *planning* for mines in operation and abandoned mining areas

VINACOMIN – our partner in Vietnam



The Vietnam National Coal – Mineral Industries Group was established in 2006. The Group includes the following activities:

- coal mining & processing, coal export (more than 95% of the Vietnamese anthracite coal production)
- bauxite mining and alumina production
- mineral mining (non-ferrous metals, rare earth, gemstones, gold) & processing
- lignite mining (project in preparation)
- construction of power plants, power generation
- production of industrial explosive materials
- steel and cement production, other construction materials
- truck assembling, ship building, machinery manufacturing
- sea port
- financing, trading
- tourism
- research and education for the mining industry

VINACOMIN has in total more than 120.000 employees all over Vietnam. It is a state-owned company, subsidiaries were transferred into Joint Stock Companies where VINACOMIN owns between 51% and 100%. The company is currently further developing its various businesses. Some targets for 2010 are: **40-48 mt of saleable coal**, 1,350-2,460 MW installed power generation capacity, 0.9-2.4 mt of alumina, 220,000 t of steel, 1.7 mt of cement, 3,000 truck units.

RAME Research Association Mining and Environment in Vietnam

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