# 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

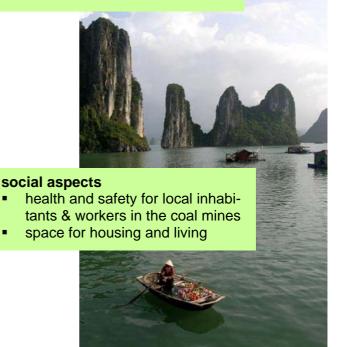
- UNESCO world natural heritage "Ha Long Bay"
- water and air quality
- soils
- flora and fauna
- landscape



### economical aspects

good longterm conditions for

- coal mining & processing
- tourism
- agriculture
- other industries



#### The following research institutions and companies work together:



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 Mitteldeutsche Bergbau-Verwaltungsgesellschaft International mbH



Grundwasserforschungsinstitut Dresden GmbH



Brenk Systemplanung GmbH



eta Engineering AG



BioPlanta GmbH

#### 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:

#### VINACOMIN

- 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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