

Technology Fact Sheet

Underground coal gasificationⁱ

1) Technology status

Vietnam: still under research.

World: successful application in countries like Russia, Germany or China.

2) Socio-economic benefits

- Ensuring coal (coal gas) supply for electricity generation and large-scale industries, highly beneficial for the economy.
- High technology efficiency will help cutting prices.

3) Environmental benefits

- Minimizing environmental impacts around mine areas.
- Higher efficiency and lower CO₂ emissions than direct burning of fuels.

4) Application technology

Vietnam has large reserves of lignite (brown coal) in the Red River Delta, but current conventional extracting technologies are not efficient and badly impact the local environment and communities.

Coal gasification is suitable to the geophysical characteristics of coal mines.

5) Barriers

- Requiring more experimenting.
- Requiring a full technology transferring process.
- Capital-intensive.

ⁱ This fact sheet has been extracted from TNA Report - Mitigation for Vietnam. You can access the complete report from the TNA project website <http://tech-action.org/>