

Technology Fact Sheet

Large-Scale Heat and Power (Cogeneration)ⁱ

1) Technology status

Vietnam: already operated on a small scale; capacity: 1-10MW; frequently used in sugar and paper production; highly efficient.

World: used on a large scale in many countries; capacity of up to several hundred MW; commercially viable; stable operation; transferable.

2) Socio-economic benefits

- Not more capital-intensive than conventional thermal power.
- Efficiency: 60-65%, reducing electricity and heat prices.

3) Environmental benefits

- Higher efficiency than conventional technology by 15-20%.
- Reducing fuel loss and carbon dioxide emissions by 15%, equivalent to 100grCO₂/kWh, compared to conventional coal-fired thermal power.

4) Application potential

According to planning, Vietnam will be applying this technology to large-scale manufacturing facilities.

5) Barriers

- Robust industrial planning required.
- Higher awareness and understanding on centralized production and integrated energy use concepts.

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/>