

Green Bond Criteria: Mitigation

To improve the energy efficiency and environmental performance of heating and gas services.

Expected Results include:

- 2.75 million MWh in annual energy savings.
- 317 small inefficient boilers closed down.
- 8,935 tons of sulfur dioxide avoided per annum.
- 11,659 tons of total suspended particles (local pollutant) avoided per annum.

IBRD Loan Amount:

US\$191 million



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Country Challenge

Inefficient coal-fired heat boilers and coal-based combined-heat and power plants provide the majority of heating services in Liaoning Province (Northeast China, where winters are long and extreme).

Project Goals

The project supports rehabilitation and construction of centralized heating systems (replacing inefficient and highly polluting small boilers with larger systems utilizing more effective emissions controls), recovery of waste heat from power and steel production, and improvements in urban gas infrastructure, including rehabilitation of transmission facilities and storage expansion.

For more information:

<http://www.worldbank.org/projects/P099224/liaoning-third-medium-cities-infrastructure?lang=en>