



Energy from waste heat, China

In an effort to lower the carbon footprint of its energy-intensive ferro-silicon production, modern waste heat recovery systems to reduce its fossil-fuelled power consumption have been installed at the company's furnaces.

Location



Qinghai province is a low developed area in the Northwestern part of China, located on plateau with mountains and grassland. This province is rich in natural resources, while economic and living standards are less developed.

Project



At a time when China is sensing the pressure to balance economy and environment, a huge number of emission reduction measures are being implemented with the help of carbon finance.

Among them is this Gold Standard waste-heat capture project at a ferro-silicon plant in Qinghai, implemented in all its 16 existing ferrosilicon furnaces. Through this project with its three turbine generators of a total capacity of 24 MW, the company has reduced its fossil-fuelled power consumption by an impressive 172,000 MWh annually.

The project generates energy by recovering and utilising waste heat from the furnaces' funnels. Converted into electricity, it meets part of the internal demand, thereby displacing the electricity that was previously taken from the mostly coal-fired state grid.

Before the installation of the emission reduction project, the waste heat generated by the 16 furnaces was not utilised but simply vented into the atmosphere.

In addition to the benefits to the climate and environment, the project owner is also involved in sustainable development of the region.



Project achievements



Socio-economic impact:

- The project has generated about 20 permanent new green jobs for locals.

Environmental impact:

- A significant reduction in air pollutants such as sulphur dioxide, grime, and suspended particulate matter results from the reduced demand for fossil-fuelled power thanks to the waste-heat recovery system.



Checklist Project 300 733



The Gold Standard[®]
Premium quality carbon credits

✓ Additionality and permanence:	according to the rules of the CDM and the Gold Standard
✓ 3 rd party verified::	by Japan Consulting Institute
✓ Transparency:	provided by the Gold Standard Registry
✓ Annual CO ₂ -reduction:	140,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

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