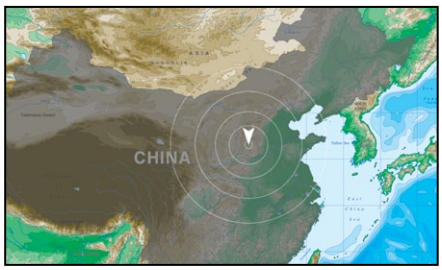
Antai Waste Gas Recovery Project

Creating sustainable industry in China's "coal pit"

The Antai Waste Gas Recovery Project is located in a region dominated by coal and steel production. The project reduces greenhouse gas emissions and local air pollution by capturing waste gas and using it to generate electricity and heat.



The project is located in Shanxi Province, also known as China's "coal pit" since it contains about a third of the country's total coal deposits. It has more coal companies than any other province, as well as a large amount of heavy industry based around chemical production, power generation and metal refining.

The economy in Shanxi is growing fast but the province is facing severe environmental problems and has some of the most polluted cities in the world. River water is heavily polluted due to wastewater from industry and fails to meet water quality standards. Because of this groundwater is now being extracted at an unsustainable rate, leading to water shortages. Air pollution is also a serious problem in Shanxi, particularly in large cities.

The project is based at the Antai steel mill. Waste gas from the mill's blast furnaces and coke ovens is captured and used to generate electricity, which is then consumed in the plant. Greenhouse gas emissions are reduced because the electricity generated would have otherwise come from the grid, which is dominated by coal-fired power stations. Prior to the implementation of the project the waste gas was either flared or released directly into the atmosphere.

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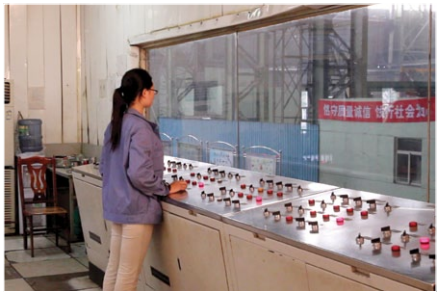


Project snapshot

Name	Antai Waste Gas Recovery Project
Location	Shanxi Province, China
Type	Energy Efficiency
Emissions prevented	311,000 tonnes of CO_2e per year
Standard	Gold Standard

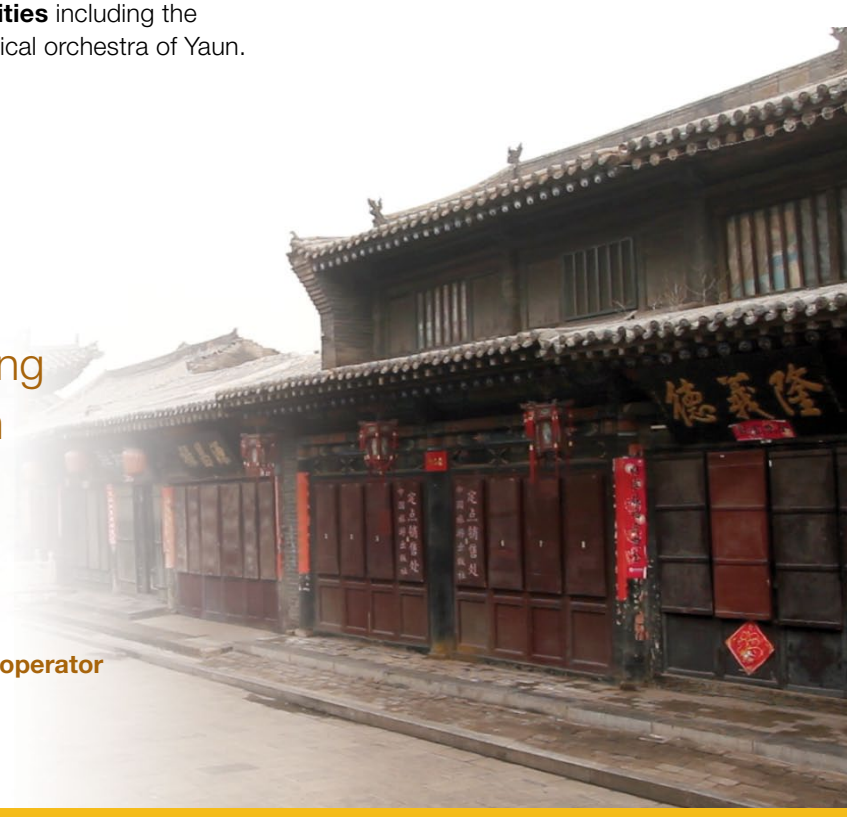
Benefits Beyond Carbon Reduction

The Antai Waste Gas Recovery Project has benefits beyond the reduction of greenhouse gas emissions. The project has improved local **air quality** by avoiding uncontrolled gas emissions. The plant has also **reduced water consumption** by 70% by updating the water cooling with modern air cooling generator units. **Air quality** has also been improved in the wider region by reducing the emissions of sulphur dioxide and particulates from coal fired power plants.

The project contributes to sustainable development in the local community and in the province as a whole. More than **150 new jobs** for the local community have been created for the operation of the project, and all employees have received technical training. The plant is a **safe and positive work environment** with wages above Chinese standards.

It provides a social insurance package for workers including **medical insurance** and a **retirement fund**, which is not common in private companies. The company pays for **education of employees** at local schools and colleges.

The project owner supports the local village of Yaun by providing **financial support for older residents** - villagers above the age of 60 who are unable to work anymore, whether or not they worked at the plant, receive up to 400 Yuan per month. In addition, young people in the region are granted **university scholarships** of around 10,000 Yuan to enable them to attend university in the nearby city of Taiyuan. The project owner also **supports cultural activities** including the traditional musical orchestra of Yaun.



"All workers feel very safe and comfortable, not like in other companies. The company is giving a social insurance package, with medical safety insurance and a retirement fund which is not common in private companies."

– Xi Binfeng, Senior operator

For more information

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