

ANTAI WASTE GAS RECOVERY CHINA



**Promoting sustainable industry in China's
'coal pit'**

The Antai Waste Gas Recovery project is located in Shanxi Province, a region of China dominated by coal and steel production. The project reduces greenhouse gas emissions and local air pollution by capturing waste gas at the Antai steel mill, and using it to generate electricity and heat.



The Context

This project is located in Shanxi Province, also known as China's 'coal pit' as it contains roughly one third of the country's total coal deposits. Shanxi is also home to some of the most polluted cities in the world and faces grave environmental problems, which could severely impact its growing economy and the health of inhabitants. Air pollution levels are particularly concerning, and rivers are also heavily contaminated with wastewater from the surrounding industry.

The Project

Waste gas from the blast furnaces and coke ovens at the Antai steel mill is captured and used to generate electricity, which is then recycled for the plant's use. The project improves local air quality by avoiding uncontrolled gas emissions, and a modernised water cooling system considerably reduces the water consumption of the plant.

The Benefits

More than 150 new jobs for the local community have been created in plant operations, with all employees receiving technical training and wages above Chinese standards. The project benefits also extend to local communities, with programmes offering financial support for older residents and university scholarships for students.

This project is a leading example of the advantages linked to modern, low-carbon processes, helping China transition towards a brighter, more sustainable future.



Gold Standard



20+
scholarships

of CNY 10,000 granted to local young people each year, allowing them to attend college, or university in Shanxi's capital of Taiyuan



60-70
%

less water consumed by the plant



264,000
MWh

generated on average each year, promoting China's renewable energy industry



150+
jobs

created in plant operations, boosting the surrounding economy



262,000
tCO₂e

mitigated on average annually, by capturing waste gas and using it for renewable energy

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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