



Wanzhou waste heat recovery, China

This project makes use of China's large potential in saving emissions through energy efficiency measures in industrial plants. Waste heat is generating energy and replacing carbon intensive grid power.

Location



The project is located in Chongqing, near the city of Wanzhou on the South bank of Yangtze River. The region is predominated by agriculture, while the city of Chongqing with its 7 million inhabitants is the economic center and traffic hub of inland China.

Project



This Gold Standard Clean Development Mechanism (CDM) project, developed according to the strict rules of the UNFCCC, aims to utilize waste heat from two cement production lines for power generation. In the absence of the project, the waste heat would be emitted to the atmosphere.

Since the portion of directly emitted heat accounts for over 35% of the total heat consumed by the cement production process, the project activity has a huge potential for energy efficiency, implemented through co-funding from carbon revenues.

But carbon revenues not only support the implementation of the two turbines with their total installed capacity of 13.5 MW. New jobs have been created for construction, operation and maintenance of the facility, with training in modern technologies. In addition, the project owner is co-funding the local school, and easing the lives of the poor in the region, e.g. by donating food. By this, the project is strongly engaged in enabling sustainable development while at the same time saving carbon and energy resources.

The electricity generated from the waste heat is re-used in the plant, significantly lowering the cement plant's power consumption from the grid that is mainly fueled by fossil sources such as coal. Overall, about 80 MWh annually will be displaced.



Project achievements



Socio-economic impact:

- 65 locals found qualified permanent jobs in operation and maintenance of the waste heat recovery facility. A number of temporary jobs for locals have been created directly and indirectly during the construction works.
- During the traditional spring festival, the project owner regularly donates to the region's old and poor, helping them lead a dignified life.
- The local Wangzhou primary school received additional funding from the project owner to enhance education for the young.
- After the devastating earthquake in neighbouring Sichuan province in 2008, the project owner donated to victims to ease their return to normal life.

Environmental impact:

- The project will significantly reduce sulphur oxide and nitrogen oxide emissions, mitigating air pollution and its adverse impacts on human health.
- The project will contribute to promoting advanced clean technologies in China's cement industry, such project having a huge replication potential in industrial facilities throughout the country.

Checklist Project 300 087



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