



## *Landfill Gas to Energy Conversion Project, China*

This Gold Standard VER project is concerned with how the landfill gas, which is produced during the decay of the organic matter disposed of in landfills, is used to generate electricity.

### The Location

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The landfill gas recovery project is located in the partly industrialised Jiangsu Province, China, close to the city of Suzhou, known as “Venice of the East” and famous for its beautiful gardens.

### The Project

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The plant is today collecting the landfill gas and subsequently processing it into electricity which is fed into the Suzhou City local power grid. Finally, the generated electricity is transferred to the distribution and controlling system. It feeds into the local municipal power grid, which is part of the to date heavily coal dependent East China Power Grid.

Greenhouse gas emission reductions are achieved by the project activity through avoidance of methane emissions from the landfills to the atmosphere and through displacement of fossil fuel based electricity from the grid.



## The Benefits

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- In recent years China has seen a huge increase in power consumption. This new demand is difficult to meet, however, this project helps to bridge the gap between supply and demand.
- In China, more than 80% of total electricity is generated from coal-based power plants. With China being so heavily dependent on coal for its energy demand, this project carries environmental benefits to the country's air, soil and water sources.
- By utilizing the modern technology of landfill gas recovery, the proposed project will contribute in promoting advanced environmental-friendly technology in the solid waste treatment industry of China.
- The safety situation of the landfill site will be improved, since the combustible landfill gas will be properly collected and utilized for electricity generation.
- The project activity brings more employment opportunities for local people.
- More than 54 people have been engaged during the construction period over one year and there will be 20 positions available in the plant operation on a regular basis.



## The Details

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### KEY DATA

Average emission reductions per year: 134'000 tCO<sub>2</sub>e

Commissioning date: 2007

Standard: Gold Standard VER



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