

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



The landfill gas recovery project is located in a partly industrialised region of Jiangsu Province, close to the city of Suzhou. The rapidly growing city on the lower reaches of the Yangtze River is known as “Venice of the East” and famous for its beautiful gardens.

The Project



The plant is today collecting the landfill gas from a large landfill site outside Suzhou, using wells and pipes reaching deep underground.

There are 4 units in the project, each with an installed capacity of 1.25 MW, processing the landfill gas 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 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



- 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 brings 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 environmentally friendly technology in the solid waste treatment industry of China.
- The safety situation of the landfill site has been improved as the combustible landfill gas will be properly collected and utilized for electricity generation.
- The project activity brings more employment opportunities for local people. For example, more than 54 people have been engaged during

the construction period over one year and there are 20 positions in the plant operation on a regular basis.

- The project brought significant improvement to better air quality in the region by preventing the emission of H_2S , NH_3 , and other gases.

South PoleProject No. 300 259
Average emission reductions per year: 134'000 tCO₂e
Standard: Gold Standard VER



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