

Non-tech summary for ‘Suzhou Qizi Mountain Landfill Gas Recovery Project (GS397)’

Project description

The Suzhou Qizi Mountain Landfill Gas Recovery Project, which is developed by Everbright Environment and Energy (Suzhou) Landfill Gas to Energy Co., Ltd., is located at Qizi Mountain Landfill, Suzhou, Jiangsu Province, China. The proposed project applies for Gold Standard VER. The purpose of the proposed project is to utilize landfill gas (LFG) for electricity generation. It is a combination project including LFG collection, LFG processing system and electricity generation. LFG collected will be used for electricity generation with internal combustion engines and generators.

There are 4 units in the project. Each unit has an installation capacity of 1.25 MW. Power generation by proposed project will be supplied to East China Power Grid. These 4 units are separated into two phases. For each phase, there is a respective processing system, whose description is in the following context. Both of phases share a landfill gas collection system, which could guarantee the proper operation of these four units. The first stage, which is not the same as the two phases of the proposed project, of landfill site (15m-80m above sea level) will be closed in 2008, with 15 years operation period. The second stage of landfill gas will be set up vertically above the first phase, with 15 years operation period as well.

During the third crediting period, the project is expected to collect 3,033 tonnes CH₄ per year on average. The exported electricity is estimated to be 15,945 MWh a year on average. The electricity generated will replace equivalent amount of electricity from East China Power Grid. In absence of the project, equivalent amount of electricity exported to the grid by the proposed project would have otherwise been supplied by East China Power Grid. Greenhouse gas (GHG) emissions will be reduced by avoiding CO₂ emissions from those fuel-based power plants connected to the grid and by avoiding GHG emissions from releasing LFG into atmosphere at the landfill site. The expected average annual emission reductions are 97,975 tCO₂e during the third crediting period. Emission reductions from steam generation with waste heat are not counted for a conservative approach.

Project location

The project is located on Qizi Mountain, Mudu County, Wuzhong District, Suzhou City, Jiangsu Province, P.R.China. It is 13km far from the centre of Suzhou City. The exact location of the project is 31°14'15"N 120°33'9"E. A map indicating the location of the project site is provided in Figure 1:



Crediting period

This project has been registered as GS project with ID of 397. The first crediting period is from 22/04/2007 to 21/04/2014. The second crediting period is from 22/04/2014 to 21/04/2021. The project is applying for crediting period renewal. The third crediting period will be from 22/04/2021 to 21/04/2028.

Other description

There is no change in the third crediting period. The project operation is the same as the first and second crediting period.