

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

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Biomass generation project, in Sheyang county, Jiangsu province, P.R. China (hereafter referred to as the proposed project) is located in West Economic Development Zone of Sheyang County, Yancheng city, Jiangsu Province, P.R.China. The proposed project is a newly-built generation project with local surplus biomass residues wood residues/cotton straw/cole straw/maize straw/rice straw/reed/wheat straw as fuel. The install capacity of this project is 30MW¹ with 130 t/h boiler. The annual biomass residues consumption are about 170,194.67 tons /25,175.05 tons /1.01 tons /19,386.04 tons /27,212.57 tons /16,392.39 tons /10,497.07 tonne for wood residues/cotton straw/cole straw/maize straw/rice straw/reed/wheat straw separately (in wet base), which are re-calculated from actual operation statistics in 2009/2010, and it is expected to deliver annually 188,488.80 MWh electricity to East China Power Grid (ECPG) of China.

The proposed project has been put into operation on Sep 3rd 2007, the GHG emission reductions are from two components. Firstly, it will substitute some electricity generation of ECPG dominated by fossil fuel power plants. Secondly, it will use local surplus biomass residues in high efficiency, which will reduce CH₄ emissions because the biomass is dumped or left to decay or burned in an uncontrolled manner in the absence of the proposed project. The estimated annual GHG emission reductions are 136,170 tCO₂e, and the total GHG emission reductions for the 2nd crediting period are 848,967 tCO₂e.

The existing scenario prior to the implementation of the proposed project is that the ECPG supplies the equivalent power generation, and the equivalent of biomass is dumped or left to decay under mainly aerobic conditions, as identified in the section B.4. The scenario existing prior to the implementation of the project activity is the same as the baseline scenario.

The proposed project makes good use of the renewable biomass residues as fuels for generation; it will produce positive economic and environmental benefits and contributes to the local sustainable development through following aspects:

- Utilizing the biomass residues for electricity generation, which will reduce a great deal of biomass residues dumped or left to decay or burned in an uncontrolled manner and released pollutants into atmosphere, and thus will prevent the negative influences improve local environment;
- To reduce the coal consumption and increase the supply of local power generation, which will alleviate power shortage and coal supply pressure in local area;
- To increase the income of local farmers because the biomass residues as fuel can be sold and bunt ash can be returned to cropland or produce fertilizer with positive environment effects;
- to create new 123 job opportunities for the generation plant operation and maintenance, and other job opportunities for the activities of straws collection, storage and transportation;
- To be helpful for advanced technology transfer to China since the key equipment of straw boiler will be made in China authorized by Denmark BWE Company; and the air cooled technology and high efficiency hop-pocket dust catcher are also introduced, which will promote such technology diffusion in China.

¹ Due to debugging failure in May of 2007, PO replaced the 25MW power generation unit (PGU) to be a new unit of capacity 30MW and re-installed in July, 2007.

The project was put into trial operation in May of 2007, but the debugging is failing due to purchased 25 MW power generation unit, so, PO and Wuhan Steam Turbine Group Corporation agreed to replace the 25MW PGU to be a new unit of capacity 30MW and re-installed in July.2007. The new power generation unit was commissioned successfully on Sep 3rd.2007 and in normal operation status since the 2nd half of 2008.The project was registered at UNFCCC on 01/04/2008 and a revised PDD has been approved by EB on 17/05/2012.

The project is not a CPA that has been excluded from a registered CDM project PoA as a result of erroneous inclusion of CPAs.

A.2. Location of project activity

A.2.1. Host Party

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People's Republic of China.

A.2.2. Region/State/Province etc.

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Jiangsu Province.

A.2.3. City/Town/Community etc.

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West Economic Development Zone of Sheyang County, Yancheng city

A.2.4. Physical/Geographical location

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The proposed project is located in West Economic Development Zone of Sheyang County, 3 kilometres to Sheyang county centre, 50 meters of its north is Xiaoyang River, and 6 kilometres to its west is the "Tongsan" free way under building.

The Sheyang County is located in Yancheng city, Jiangsu province. South of Sheyang County is bordered to Dafeng city, Yandu County and Yancheng city, west is adjoined to Jianhu county and Fuling County, north is Binhai County, east is Huang sea with 103 kilometres of coastline. The detailed location of the project is shown in figure 1.

The proposed project is located 33°46'03" of north latitude and 120°10'57" of east longitude.