



CDM – Executive Board

SECTION A. General description of project activity

A.1. Title of the project activity:

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24MW DONG YANG ENERGY PV(photovoltaic) power plant

Version: 10

Date: 10 Dec 2009

A.2. Description of the project activity:

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The purpose of the project activity

DONG YANG ENERGY PV Power Plant is a facility to produce electricity by solar energy inside of Jeollanamdo province in the Republic of Korea, and emits zero greenhouse gas (GHG) into the atmosphere.

The purpose of this project is to abate GHG emission through generating electricity by PV power without using fossil fuels. The project confirms to the government policy which promotes development of renewable energy technology and contributes to lowering dependence on electricity generated by fossil fuels which takes more takes 63.43% of electricity generation in Korea.(KPX,2007)

Description of the project activity

The project generates electricity from solar energy and supplies electricity to the grid.The project supports the government policy which promotes development of renewable energy technology in Republic of Korea. The project also contributes to decrease dependence on electricity generated by thermal power plants using fossil fuel which takes 63.43% of electricity generation in Korea (KPX, 2007)¹.

The capacity of this project is 24MW which is the highest capacity of electricity generation in Asia. The area of this project is about 682,500m² and annual amount of generated electricity will be about 35,882MWh (efficiency of 17.1%). So, generated electricity will reduce GHG emission about 21,874tCO₂ e/year.

Contribution to sustainable development

The project contributes to sustainable development in the following ways:

- Generation by photovoltaic power plant decreases the use of fossil fuels.
- As one of renewable energy sources, generation by photovoltaic power plant does not emit any GHGs, as well as SOx, NOx and particulate etc.
- Photovoltaic power can be utilized as an energy source for future generations, because it substitutes fossil fuels and does not impact on natural resource exhaustion.
- Creating employment opportunity contributes to the local economy.

A.3. Project participants:

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Name of Party involved ((host) indicates a host Party)	Private and/or public entity Project participants	Kindly indicate if the Party involved wishes to be considered a project participants (yes/no)

¹ KOREA POWER EXCHANGE (<http://www.kpx.or.kr/>)