

Please find the summary of the project activity below:

Orange Sironj Wind Power Pvt. Ltd. is the promoter of the project activity. The project activity involves installations of 100 wind turbines each having 2 MW capacities in district Thoothukudi, Tamil Nadu. The total capacity of the proposed project activity is 200 MW. The generated power from this project activity will be supplied to Solar Energy Corporation of India (SECI) which falls in Southern region of the country and is classified as Indian Grid as per the CEA database of CO2 emission factor version 12.

Pre project VS Project scenario:

The project activity is generation of renewable energy by using Wind power which supplies energy to the Indian grid. The baseline for the project is continuation of power generation in the Indian grid which is fossil fuel dominated.

The implementation of this project activity would contribute to the sustainable development of the region according as stipulated by the Ministry of Environment and Forests (MoEF). Each of the sustainable development indicators established by the Government of India have been analyzed in the context of the project activity to assess the project's contribution to sustainable development. This analysis appears below.

Economic and Social well being:

- Employment generation for local people during the construction and operational phases of the project activity. This will improve the socio-economic condition of the local people.
- The project activity will improve power supply in the regional grid. The project activity is a small step toward meeting the energy demand of the Indian grid.
- Power generated from this project activity can be used for small scale industries, thus would generate self-employment opportunities.
- The project leads to Diversify the sources of electricity generation
- The project uses clean and efficient technologies, and conserves natural resources

Environmental well being:

- The generation of electricity from Wind is one of the cleanest and sustainable ways to generate electricity. Wind power produces no toxic emissions and none of the GHG gases that contribute to global warming, thereby leading to emission reductions.
- Being a renewable resource, using Wind energy to generate electricity contributes to resource conservation. The project causes no negative impact on the surrounding environment contributing to environmental well-being.

Technological well being:

The proposed project activity is using clean Wind Power technology. The applied technology is considered as one of the most environmental safe and sound technologies available as the operation of the Wind project does not emit any GHGs or any other harmful gases unlike the operation of conventional power plants.