



Sustainability action · Project Renewable Energy and Energy Efficiency

Patan Solar PV Power project, India

The purpose of the project activity is to generate electrical energy utilising solar energy and export the generated electricity to the regional grid.

Project

The proposed project activity is a green field solar photovoltaic power project. The purpose of the project activity is to generate electrical energy utilising solar energy and export the generated electricity to the regional grid.

In absence of the project activity equivalent amount of electricity would have been generated in the state electricity grid. Thus the project activity would result in avoidance of Greenhouse gas emissions and contribute to mitigation of global warming. The

project activity was commissioned on 4th March 2012. The plant is part of the country's first multi-developer, multi-technology solar park, bringing clean energy to the region.

The project activity contributes to the sustainable development of the host country with respect to social, economic, environmental and technological well-being.

Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 301 1812	According to the rules of the the VCS	By TÜV Nord	Provided by the Markit Registry	58,827 tCO ₂ e	As documented in our database	Pictures available



Location

The Patan Solar PV Power project is located in the Gujarat Government's Solar Park at Charanka village in Patan district, some 350 kms from Gandhinagar, Gujarat.

Project achievements

Socio-economic impact

- The project proponent has committed 2% of the revenue from sale of carbon credits for sustainable development of the neighbouring village.
- 80 job opportunities have been created, with the majority of workers being sourced from local communities (manufacturing, installation, operation and maintenance of equipment).
- The project has led to regional infrastructure improvement in direct alignment with the national goals and objectives for agriculture, livestock, rural development, fishing and nutrition.
- This initiative will be an important catalyst for sustainable development in Gujarat, which has some of the largest business corporations in India and one of the major industrial hubs of India.
- To support sustainable development in this region with its harsh climate, the project owner is supporting the local population of Charanka and Farangi village with vaccination campaigns and medical camps, and is taking care of public water supply schemes such as bore wells.

Environmental impact

- By generating electricity through solar power, the plants displace fossil fuel-based electricity from the Indian national grid. The plant reduces a total of 58,827 tCO₂e per annum, as well as other pollutants such as NO_x, SO_x and particles.

