

Carbon Offset Projects

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Renewable Wind Power Project by Adani



This project involves the establishment of a 100 MW wind energy initiative in the State of Gujarat, India. Over a ten-year crediting period, the project is set to offset an estimated 172,333 tCO2e per year, displacing 183,960 MWh/year of electricity from the prevailing power plant mix connected to the Indian grid, which is predominantly reliant on thermal/fossil fuel-based sources.

Project Benefits

⊘ Generates employment opportunities during construction and operation phases.

⊘ Contributed to infrastructure development, including road improvement

⊘ Stimulated local business growth through enhanced power generation.

- ⊘ Provided clean technology investment in the region.
- Decreased dependence on fossil fuels and conserved natural resources
- ⊘ Avoided significant greenhouse gas emissions and pollutants.
- Promoted wind-based power generation, encouraging future projects.







Household Biogas Project in Uttarakhand, India



This project, located in Uttarakhand province, India, seeks to replace the prevalent and inefficient wood-fired mud stoves with clean, sustainable, and efficient biogas technology. This transition is facilitated by distributing 13,549 household biogas plants (also known as biodigesters). These biodigesters utilise cow dung as feedstock to generate biogas for cooking and water-heating purposes.

Project Benefits

- ⊘ The project avoids an estimated 53673 tCO2e annually.
- ⊘ The project provides affordable and clean fuel
- Reduction in firewood consumption not only decreases emissions of GHGs but also contributes to forest and biodiversity conservation.
- I5 jobs have been created for maintenance work on the biodigesters.
 Improved indoor air quality leads to better health outcomes for family members and reduces incidences of smoke and fire-related injuries.
- ⊘ Improved hygienic conditions in rural areas through the appropriate disposal of organic waste
- ⊘ Residue from the biodigesters can be used as organic fertiliser, enhancing soil conditions in rural areas and increasing soil productivity.









Hydroelectric Project, Kinnaur District



This project generates electricity through hydro power, utilizing the potential of the Sutlej River. With a capacity of 1000 MW, the run-of-theriver hydro power plant is located between Karcham and Wangtoo in the Kinnaur district of Himachal Pradesh. The generated electricity is integrated into the NEWNE grid.

Project Benefits

- Increases the share of renewable energy in the grid mix.
- Local employment during construction and operational phases.
- Addresses the shortage of electrical power in the northern grid.
- ⊘ Infrastructure development, including a 10+2 grade school, an industrial training institute, a 40-bedded hospital, and upgradation of existing roads and bridges, uplifting the social life of surrounding villages.
- ⊘ Enhanced business opportunities for local stakeholders, especially during the implementation phase.









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