WIND GROUPED PROJECT BY HERO FUTURE ENERGIES PRIVATE LIMITED (EKIESL-VCS-AUG-16-03)

Document Prepared By EKI Energy Services Limited

Project Title	Wind Grouped project by Hero Future Energies Private Limited (EKIESL-VCSAug-16-03)[1]
Project ID	1582
Project Start Date	29-March-2016
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[1] https://registry.verra.org/app/projectDetail/VCS/1582

1 SUMMARY OF SUSTAINABLE DEVELOPMENT CONTRIBUTIONS

The grouped project activity is a step towards supporting the implementation and installation of grid connected renewable energy power plants in India. The implementation of this grouped project activity has ensured energy security, diversification of the grid generation mix and sustainable growth of the electricity generation sector in India.

The main goal of this grouped project activity is to implement renewable energy projects in the country and the significant importance of revenues from sale of Verified Carbon Units (VCUs) to achieve this goal forms the basis of the implementation of this grouped project activity. The grouped project activity is a voluntary action and Hero Future Energies Private Limited is the Coordinating / Managing Entity (CME) or Project Proponent for all the project activity Instances.

Hero Future Energies Private Limited act as a parent company formed different SPV (Special Purpose Vehicles) for wind projects and projects are developed by name of SPVs. There are no mandatory laws or regulations existing in India requiring PP or any other party to develop a programme for renewable generation plants.

The electricity generated by the wind power plant displaces an equivalent amount of electricity from the grid, which is fed mainly by fossil fuel fired power plants. Hence, it results in reduction of GHG emissions. Average annual GHG emission reductions from the project activity are estimated as 171,293 tonnes of CO_2e and total GHG emission reductions for the chosen 10 years' crediting period are estimated as 1,712,930 tonnes of CO_2e.

The grouped project activity will support the development of new grid-connected renewable energy power plants in India and will cover the wind energy technologies. It seeks to enable investment in large and small grid connected plants that export their generated output to the regional / national electricity grid in India. The implementation of these technologies currently faces various technological, institutional and financial barriers.

All project activity instances within this grouped project activity consists of single wind renewable technology currently comprising of 100 MW in district Dhar of state Madhya Pradesh in India.

All the project instances i.e., renewable energy generation plants to be included in this grouped project will be from within India only. Hence the location and geographical boundary of the grouped project can be defined as India.

More project activity instances will be included in the grouped project activity in future. These new instances will also be grid connected renewable energy power plants will contribute to GHG emission reductions.

In a nutshell, the various contributions towards the SDGs has been given below: -

1. **SDG 7 Affordable and Clean Energy**[2]: Since the project activity is a wind power project, it generates clean energy. The Project activity is a new facility (Greenfield) and the electricity generated by the project is exported to the Indian electricity grid. The project therefore displaces an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid of India.
2. **SDG 13 Climate Action**[3]**:** The project activity generates a clean form of electricity through renewable wind energy sources. The project activity involves total capacity of 100 MW wind power project which is installed in the state of Madhya Pradesh of India.

The project supplies clean electricity from the wind power project to the Indian Grid, hence displacing the electricity generated from grid connected fossil fuel power plants and thereby avoiding the equivalent Carbon-dioxide which is the most common among the Green House Gases (GHGs).

[2] https://sdgs.un.org/goals/goal7
[3] https://sdgs.un.org/goals/goal13

2 PROJECT CONTRIBUTIONS

Table 1 : Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	13	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 699,886.99 MWh clean electricity, the project activity has resulted in reduction of 684,278 tCO_2e GHGs during the reporting period	Resulted GHGs emission reductions of 844,339 tCO_2e till now (31-July-2020)
2)	7.2	7.2.1 Renewable energy share in the total final energy consumption	Implemented activities to increase	The project activity has supplied 699,886.99 MWh electricity from renewable energy sources in Indian electricity grid during reporting period	Provided 863,599.35 MWh electricity from renewable energy sources till now (31-July-2020)

APPENDIX 1: SUPPORTING EVIDENCE

1. Supporting evidences for amount of clean energy generated from the project (SDG-7) can be referred from
   https://registry.verra.org/app/projectDetail/VCS/1582

2. Supporting evidences for the tonnes of greenhouse gas emissions avoided or removed (SDG-13) can be referred from:
   https://registry.verra.org/app/projectDetail/VCS/1582