Voluntary Carbon Standard
Project Description Template

19 November 2007

[14/10/2009]

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1 Description of Project:

1.1 Project title

150 MW grid connected Wind Power based electricity generation project in Gujarat, India.

1.2 Type/Category of the project

1.3 Estimated amount of emission reductions over the crediting period including project size:

1.4 A brief description of the project:

1.5 Project location including geographic and physical information allowing the unique identification and delineation of the specific extent of the project:

1.6 Duration of the project activity/crediting period:

1.7 Conditions prior to project initiation:

1.8 A description of how the project will achieve GHG emission reductions and/or removal enhancements:

1.9 Project technologies, products, services and the expected level of activity:

1.10 Compliance with relevant local laws and regulations related to the project:

1.11 Identification of risks that may substantially affect the project's GHG emission reductions or removal enhancements:

1.12 Demonstration to confirm that the project was not implemented to create GHG emissions primarily for the purpose of its subsequent removal or destruction.

The project activity involves the establishment of a wind farm of 150 MW installed capacity

The electricity generation from this wind farm will contribute to GHG reduction about 382003 during the monitoring period. In the absence of the project activity, the accordant amount of electricity would be delivered through the grid, which to a large extent is fed by fossil sources, leading to carbon dioxide emissions. Demand for electricity in Gujarat is growing quickly, therefore the additional capacities are necessary. There is a deficit of 17.2 % in energy supply and 21.9 % in peak power demand in year 2007 in Gujarat1. This supply demand gap is likely to be met through the fossil fueled power stations. PP do not have any prior experience of installation of similar wind mills.

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1 India stats.com (Region/State-wise Peak Demand and Peak Met of Power in India
(April to July, 2007)

1.13 Demonstration that the project has not created another form of environmental credit (for example renewable energy certificates).

The project activity is registered under CDM with UNFCCC from 18th June 2009. For the period stated (30/09/2007-17/06/2009) the project activity has not created GHG emission reduction or removal credits through any other GHG Program for any form of environmental credit for the period which will be accounted under VCS.
The project was registered at UNFCCC (Ref Number 2347) on 18/06/2009 and the details of the same can be viewed on http://cdm.unfccc.int/Projects/DB/BVQI1229917560.71/view
There is no other environmental credits claimed by PP for the same duration for the project activity.

1.14 Project rejected under other GHG programs (if applicable):

Not applicable as the project activity is a registered project under CDM

1.15 Project proponents roles and responsibilities, including contact information of the project proponent, other project participants:

1.16 Any information relevant for the eligibility of the project and quantification of emission reductions or removal enhancements, including legislative, technical, economic, sectoral, social, environmental, geographic, site-specific and temporal information.):

1.17 List of commercially sensitive information (if applicable):

2 VCS Methodology:

2.1 Title and reference of the VCS methodology applied to the project activity and explanation of methodology choices:

2.2 Justification of the choice of the methodology and why it is applicable to the project activity:

2.3 Identifying GHG sources, sinks and reservoirs for the baseline scenario and for the project:

2.4 Description of how the baseline scenario is identified and description of the identified baseline scenario:

2.5 Description of how the emissions of GHG by source in baseline scenario are reduced below those that would

have occurred in the absence of the project activity (assessment and demonstration of additionality):

3 Monitoring:

3.1 Title and reference of the VCS methodology (which includes the monitoring requirements) applied to the project activity and explanation of methodology choices:

3.2 Monitoring, including estimation, modelling, measurement or calculation approaches:

3.3 Data and parameters monitored / Selecting relevant GHG sources, sinks and reservoirs for monitoring or estimating GHG emissions and removals:

Describe each data and parameter using this table.

Data / Parameter:	*EGy*
Data unit:	*MWh*
Description:	*Electricity supplied to GUVNL*
Source of data to be used:	*Certificate for share of electricity provided by GEDA.*
Value of data applied for the purpose of calculating expected emission reductions	*383117.0*[2]
Description of measurement methods and procedures to be applied:	*The electricity supplied to the grid is calculated by GEDA on the basis of the GETCO Main meter (installed at the Suthri Substation) reading (net electricity exported to the grid) after deducting imports from the grid. This is indicated in the share certificate issued by GEDA on monthly basis.*
QA/QC procedures to be applied:	*Annual calibration of all the meters installed at the substation has been undertaken. The net electricity generation data can be cross checked with sales receipts.*
Any comment:	*This data will be used for the emission reduction calculation*

Data / Parameter:	*EG_{WTG}*
Data unit:	*MWh*
Description:	*Electricity generated by each WTG*
Source of data to be used:	*Daily generation reports provided by Suzlon*
Value of data applied for the purpose of calculating expected emission reductions	*40836*[3]
Description of measurement	*The generation data of individual WTG*

[2] *The electricity generation for the period 30/09/2007-25/05/2009. This is based on the monthly share certificates issued by GEDA.*

3 The electricity generation readings from the control panel of WTG for the period of 26/05/09-17/06/09. This data is estimated on pro rata basis from the readings taken at WTG controllers.

methods and procedures to be applied:	*is monitored as a real-time entity at CMS. This data for each individual WTG is recorded electronically.*
QA/QC procedures to be applied:	*The data is recorded electronically.* *Note:* *The sum energy generation of all the WTGs at controller will be higher than the values specified in the GEDA issued share certificates.* . This is because of line losses included in the controller and excluded by GEDA.
Any comment:	*This data will be used for the emission reduction calculation*

3.4 Description of the monitoring plan

The electricity metered at the GETCO meter (M) is proportionally divided among the customers connected to the meter on the basis of the prorata readings taken at the individual WTG VCB meter (m).
There is a transmission loss between the individual WTGs and the substation. This loss is proportionally divided among the WTGs connected to the meter on the basis of the prorata readings taken at the individual WTG VCB meter (m). The final share certificate issued to the project proponent is based on the electricity generated minus the line losses. This is issued by GEDA.
Data monitoring for the emission reduction calculations is done for the following meters

GETCO main meter at substation (M), GETCO Check meter at substation (M')4
WTG controller meter installed at the WTG

The emission reduction calculations will be done on the basis of net electricity supplied to the grid after subtracting the losses incurred due to transmission from the WTG to the substation meter.
The net electricity supplied to the grid EGy is based on the share certificates issued by the GEDA on monthly basis. As the WTGs of the project activity and the non project activity are connected to a common pooling meter, the apportioning is done by GEDA on the basis of the electricity generation readings on the pooling meter and the VCB control meter reading of individual WTG.
In case the dates of the share certificates issued by GEDA and corresponding dates of monitoring period are not coinciding, the apportioning of electricity generation by individual WTG will be estimated based on prorata basis from the generation at WTG control meter for the monitoring period.
Energy generation on prorata basis is estimated as follows:

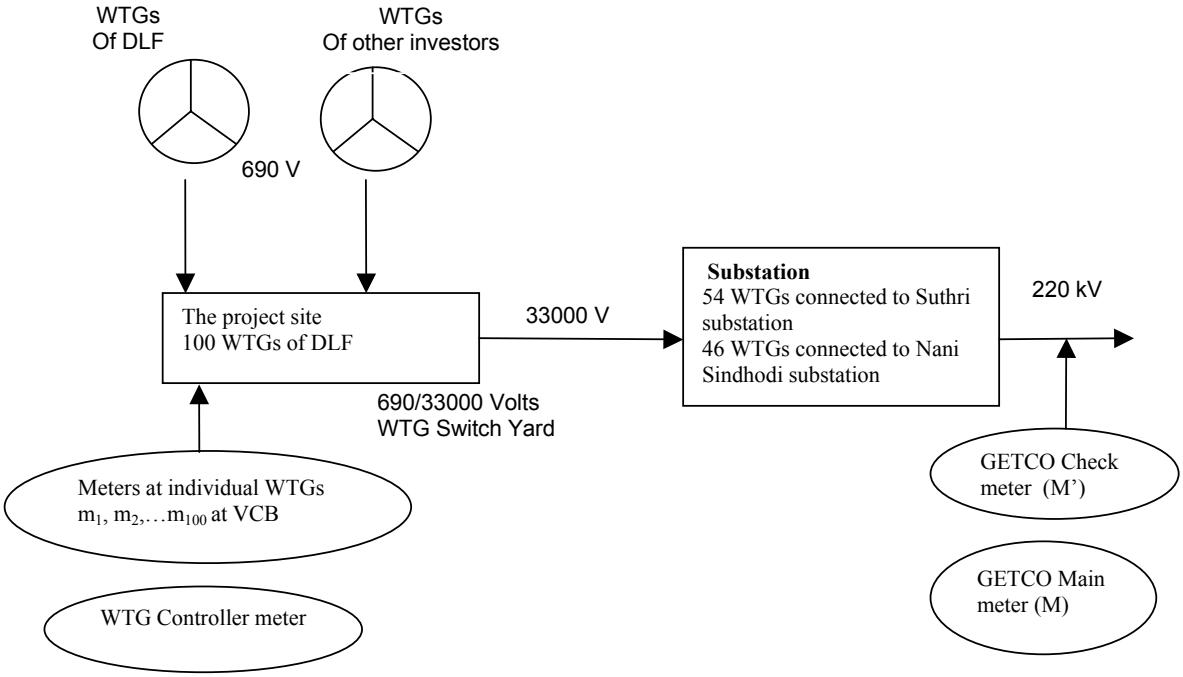
$$EG_{EB\_monitoring\_period} = \frac{EG_{WTG\_Monitoring\_period}}{EG_{WTG\_Monthly}} . EG_{EB\_Monthly}$$

Where

$EG_{EB\_Monitoring\_period}$	*Net energy generation at the EB meter installed at the substation during the monitoring period*
$EG_{EB\_Monthly}$	*Net energy generation at the EB meter installed at the substation during Monthly monitoring period from GEDA share certificates*
$EG_{WTG\_Monitoring\_period}$	*Net energy generation at the WTG controller meter during the monitoring period*

4 All the WTGs (including the WTGs of the other investors also) are connected to the pooling meters at substation.

$EG_{WTG\_Monthly}$	*Net energy generation at the WTG controller meter during the monitoring period.*



4 GHG Emission Reductions:

4.1 Explanation of methodological choice:

4.2 Quantifying GHG emissions and/or removals for the baseline scenario:

4.3 Quantifying GHG emissions and/or removals for the project:

4.4 Quantifying GHG emission reductions and removal enhancements for the GHG project:

5 Environmental Impact:

6 Stakeholders comments:

7 Schedule:

8 Ownership:

8.1 Proof of Title:

The evidence for the proof of the title has been provided through the following:

1. *The contract order copy dated 07/09/2007of the 100 WTG (1.5 MW each) with Suzlon Energy Limited.*
2. *The Power Purchase Agreement (P.P.A) signed dated (12/02/2008-3PPAs, and 14/11/2008-1PPA) with the GUVNL.*
3. *O&M contract dated 18/03/2008 with Suzlon Wind Farm Services Limited.*
4. *JMR Credit Notes*
5. *Land purchase agreement/lease (one sample copy)*
6. *GEDA permission for DLF dated 16/06/2007.*
7. *Host country approval for the project activity dated 21/07/2008; No. 4/24/2007-CCC*

8.2 Projects that reduce GHG emissions from activities that participate in an emissions trading program (if applicable):

As the project is registered as CDM project for the crediting period. Emission reduction units will be claimed under VCS for the period of (30/09/2007-17/06/2009) only. We will not double claim emission reductions (Double counting).