

CDM Executive Board

Our / Your Reference

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Date
20.11.2008

Request for Review

“ 8.75 MW Wind Power Project in Gujarat” (776)

Dear Sir/Madam,

Please find below the response of the TÜV NORD JI/CDM Certification Program to the request for review for the above mentioned project no. 0776.

If you have any questions do not hesitate to contact us.

Yours sincerely,

TÜV NORD JI/CDM Certification Program

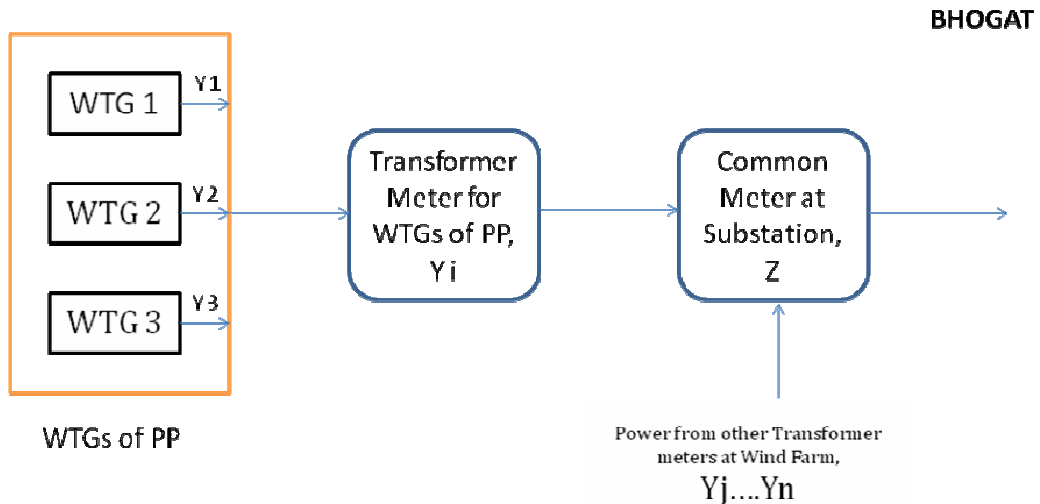


Rainer Winter

Request for Review (1-1, 1-2, 1-3)																									
<p>Issue raised by EB Members / DNA</p>	<p><i>The DOE is requested to clarify how it has verified:</i></p> <p>Request 1 & 2: The DOE is required to verify that the common meters at the substations measure electricity exported from WTGs belonging to this project activity only to ensure the pro-rata calculation approach is accurate to estimate emission reductions attributable to this project.</p> <p>Request 3: The DOE is required to verify that the common meters at the substations measure electricity exported from WTGs belonging to this project activity only to ensure the pro-rata calculation approach is accurate to estimate emission reductions attributable to this project, since there is no information showing that the common meters at the substation do not measure electricity generated from other WTGs not belonging to this project activity.</p>																								
<p>Response of project participant</p>	<p>Nil</p>																								
<p>Response of DOE</p>	<p>PP has 07 WTGs of 1.25 MW each in the project activity installed at 3 different locations in the state of Gujarat. Among these, 03 WTGs are located at Bhogat, another 03 WTGs at Vanku and 01 at Lamba site.</p> <table border="1" data-bbox="467 1137 1339 1442"> <thead> <tr> <th>Capacity</th> <th>Unique Id</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>1.25MW</td> <td>B1</td> <td>Bhogat</td> </tr> <tr> <td>1.25MW</td> <td>B2</td> <td>Bhogat</td> </tr> <tr> <td>1.25MW</td> <td>B4</td> <td>Bhogat</td> </tr> <tr> <td>1.25MW</td> <td>W06</td> <td>Lamba</td> </tr> <tr> <td>1.25MW</td> <td>V09</td> <td>Vanku</td> </tr> <tr> <td>1.25MW</td> <td>V10</td> <td>Vanku</td> </tr> <tr> <td>1.25MW</td> <td>V18</td> <td>Vanku</td> </tr> </tbody> </table> <p>The monitoring of power supplied to the grid from WTGs of PP in the project activity is based on measurement at two types of meters at the project site (s),</p> <ol style="list-style-type: none"> 1. The Transformer Meter and 2. Substation Meter (Common Meter) <p>The arrangement of meters at different sites is described as below -</p>	Capacity	Unique Id	Location	1.25MW	B1	Bhogat	1.25MW	B2	Bhogat	1.25MW	B4	Bhogat	1.25MW	W06	Lamba	1.25MW	V09	Vanku	1.25MW	V10	Vanku	1.25MW	V18	Vanku
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Bhogat:

1. At this site, a single Transformer Meter is dedicated to all WTGs of PP
2. Transformer Meter connected to WTGs of PP does not have any other WTG which is not part of the project activity, which means Transformer Meter of PP measures power from WTGs of the project activity only. PP does not have any other WTG which is not part of the project activity at this site.
3. Other WTG Owners have different Transformer Meters for their WTGs.
4. Electricity after being measured by the transformer meters is fed to the substation. At the substation end (uploading station) it is measured by substation meters (Common Meters) before being exported to grid.
5. Net electricity exported to the grid from WTGs of PP is calculated on pro-rata basis as under and reported against PP in the GEDA share of electricity certificate^{/GEDA/}

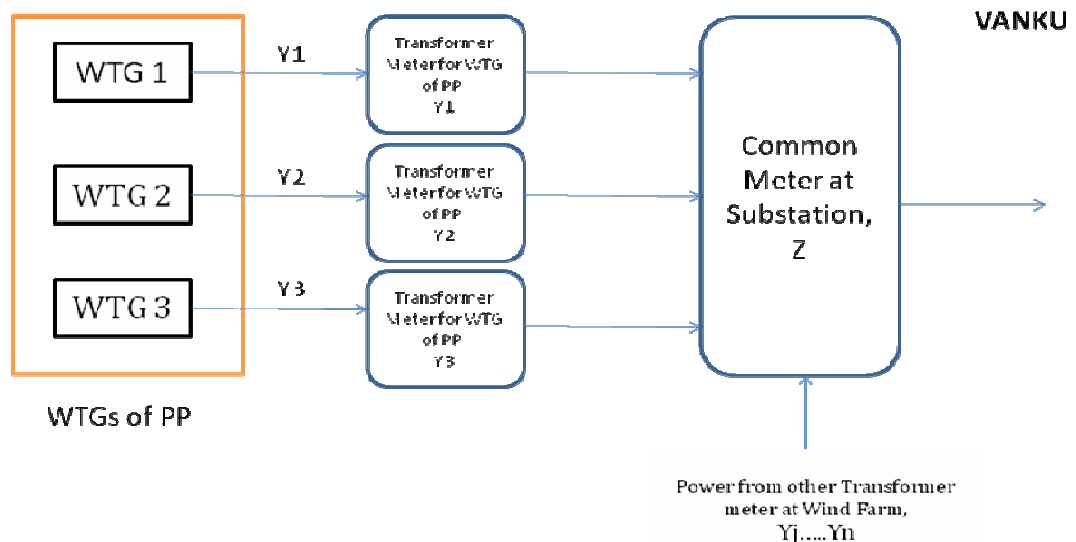


Net Electricity apportioned to WTGs of PP (WTGs 1, 2 & 3) - $Y_i \times Z / (Y_i + Y_j + \dots + Y_n)$

Both Transformer meter and Common meter are calibrated at regular intervals.

Vanku:

1. At this site, each WTG has a separate Transformer Meter.
2. PP does not have any other WTG which is not part of the project activity at this site.
3. Other WTG Owners have different Transformer Meter for all of their WTGs.
4. Electricity after being measured by the transformer meters is fed to the substation. At the substation end (uploading station) it is measured by substation meters (Common Meters) before being exported to grid.
5. Net electricity exported to the grid from each WTG is calculated on pro-rata basis as under and then the sum of the net electricity exported by these three WTGs is reported against PP in the GEDA share of electricity certificate^(GEDA).

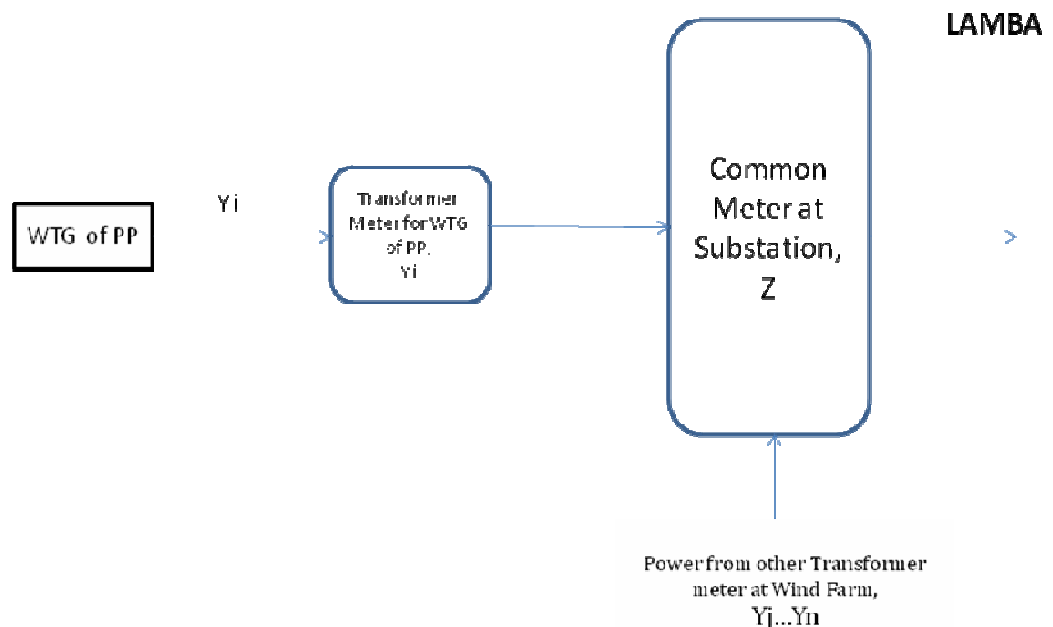


Net Electricity apportioned to WTG of PP (WTG 1) – $Y1 \times Z / (Y1 + Y2 + Y3 + \dots + Yn)$

Transformer meters and Common meter are calibrated at regular intervals.

Lamba:

1. At this site, PP has a single WTG with a single Transformer Meter at the site.
2. PP does not have any other WTG which is not part of the project activity at this site.
3. Other WTG Owners have different Transformer Meter for all of their WTGs.
4. Electricity after being measured by the transformer meters is fed to the substation. At the substation end (uploading station) it is measured by substation meters (Common Meters) before being exported to grid.
5. Net electricity exported to the grid from WTG is calculated on pro-rata basis as under and reported against PP in the GEDA share of electricity certificate^{/GEDA/} ..



Net Electricity apportioned to WTG of PP (WTG 1) = $Y_i \times Z / (Y_i + \dots + Y_n)$

Transformer meters and Common meter are calibrated at regular intervals.

The common meters at a substation (uploading station) measures the electricity from all the WTGs of the wind farm. At all the three wind farms covered under the project activity there are other wind mills which do not belong to the PP and so to the project activity. This is the very reason why the pro-rata approach is used to calculate the net electricity exported by the WTGs belonging to the project proponent as explained above. If this common meter were measuring the electricity exported from the WTGs belonging only to this project activity then the question of apportionment on pro-rata basis would not have arisen at all.

It has been verified by the verification team that there are no WTGs of the project proponent other than the one belonging to this project activity in the three wind farms covered by the project activity. This ensures that the pro-rata calculation approach used to estimate emission reduction is accurate and

attributable to this project activity only.

This fact was verified by review of Monthly GEDA Certificate for Share of electricity^{/GEDA/} which also gives the total capacity of wind mills installed by project proponent at each of these three wind farms. Further during the site visit the WTG numbers were cross checked with the one mentioned in validated PDD. These WTG numbers are indicated in table 4.2 of the verification report. The same was verified by review of Monthly generation report^{/LOG/} which also states the total number of WTGs with WTG Number. All this verification confirms that as far as project proponent is concerned, the reading by the common meter measure electricity exported from WTGs belonging to this project activity only. Based on this it is established that the net electricity exported as estimated by GEDA on pro-rata basis and indicated on the Monthly GEDA certificate for share of electricity^{/GEDA/} is attributable to the WTGs belong to this project only.

In the GEDA Certificate for Share of electricity^{/GEDA/} issued wind farm wise, the sum of net electricity exported by WTGs belonging to this project activity is reported i.e. total of three WTGs of 1.25 MW at Bhogat, three WTGS of 1.25 at Vanku and one WTG of 1.25 MW at Lamba.

In accordance with the registered monitoring plan (comments column of table D.3 for the parameter I.D. number 1 GEN_{i,y}) and as mentioned under section D.4 of the registered monitoring plan, the electricity figure from the monthly GEDA certificate for share of electricity^{/GEDA/} (commercial document) form the basis for the calculation of emission reduction.

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