



Industrie Service

Case Study __ Verification

A 50MW Wind Farm Project

50MW wind farm project



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Publishing the Monitoring Report

Document review

On site assessment (site inspection)

Correction and clarification

Verification report and upload the project package

Which version of methodology is the correct version for verification?

In the registered PDD, version 07 is applied, but the current version is 12.1 version.

Answer: version 07 shall be considered for verification.



Is the starting date of crediting period is correct?

The operation of wind farm started on Jan. 1st, 2009, the registration date is July 1st, 2009. So, the starting date of crediting period is Jan. 1st, 2009.

Answer: Wrong. The starting date shall be a date same to or later than the registration date.

Little issues, but important:

1. The Monitoring Report Template shall be used and filled out completely
2. The Monitoring Report shall be published, at least, 2 weeks before DOE's site inspection
3. Using excel sheet to calculate the baseline emission, project emission and leakage. Update the version of this excel sheet every time when the revision is made.



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Methodology (ACM0002, 7th version)

- The net electricity supplied to the grid shall be measured.
- Calibration shall be carried out according to national regulation or international standard

Registered PDD

Section B.7 of PDD

- The net electricity will be measured with electricity meters (accuracy is B level)
- yearly net electricity is assumed to be 100,000 MWh
- yearly calibration shall be done for each meters

Published Monitoring Report

- Net electricity is measured by Meter A (accuracy is A level) and a back-up meter (Meter B with B level accuracy)
- yearly net electricity is 110,000 MWh (10% more than the value in the PDD)
- yearly calibration has been done properly



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With questions, we are now doing the site inspection.

What will be checked first?

Answer: whether the project is the project in the PDD?

How's the operation situation?

- Just part of wind turbines are in operation? Or all of them are running in good condition?
- Is there any maintenance period or break-down record?

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Calibration is always important, because it impacts the quality of data:

The monitoring period: July 1, 2009 ~ June 30, 2011

According to the calibration certificates, the calibration has been done on the following date:

Jan. 1st, 2009

Dec. 31st, 2009

Jan. 20th, 2011

Since the calibration has been delayed (due on Dec. 31, 2010), the emission reduction in the period of Dec. 31, 2010 – Jan. 20, 2011 (21 days) shall be reduced based on the accuracy of meter.

the accuracy of meter is 0.5% and the net electricity in that period is 300MWh

Net electricity = $300 * (1 - 0.5\%) = 298 \text{MWh}$

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Why the real annual power generation is 10% higher than the assumed one in the registered PDD?

Reason 1: the wind source in the monitoring period is unexpected high (might be the highest in the past 20 years)

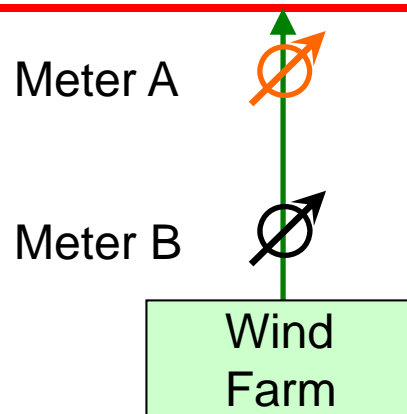
DOE: check the historical data of past 20 years and confirm in verification report.



Reason 2: the wind source was underestimated at the time of validation, the annual power generation is expected to be, at least, 10% higher.

DOE: re-validate the wind farm and re-assess the additionality; report to EB. EB will decide whether reject the project or set the emission cap.

Cross check (whether the net electricity is correct?)



Cross check 1

Meter B is used to cross check the reading obtained from Meter A

Cross check 2

The invoice of selling electricity to the grid is considered to be a reliable evidence.

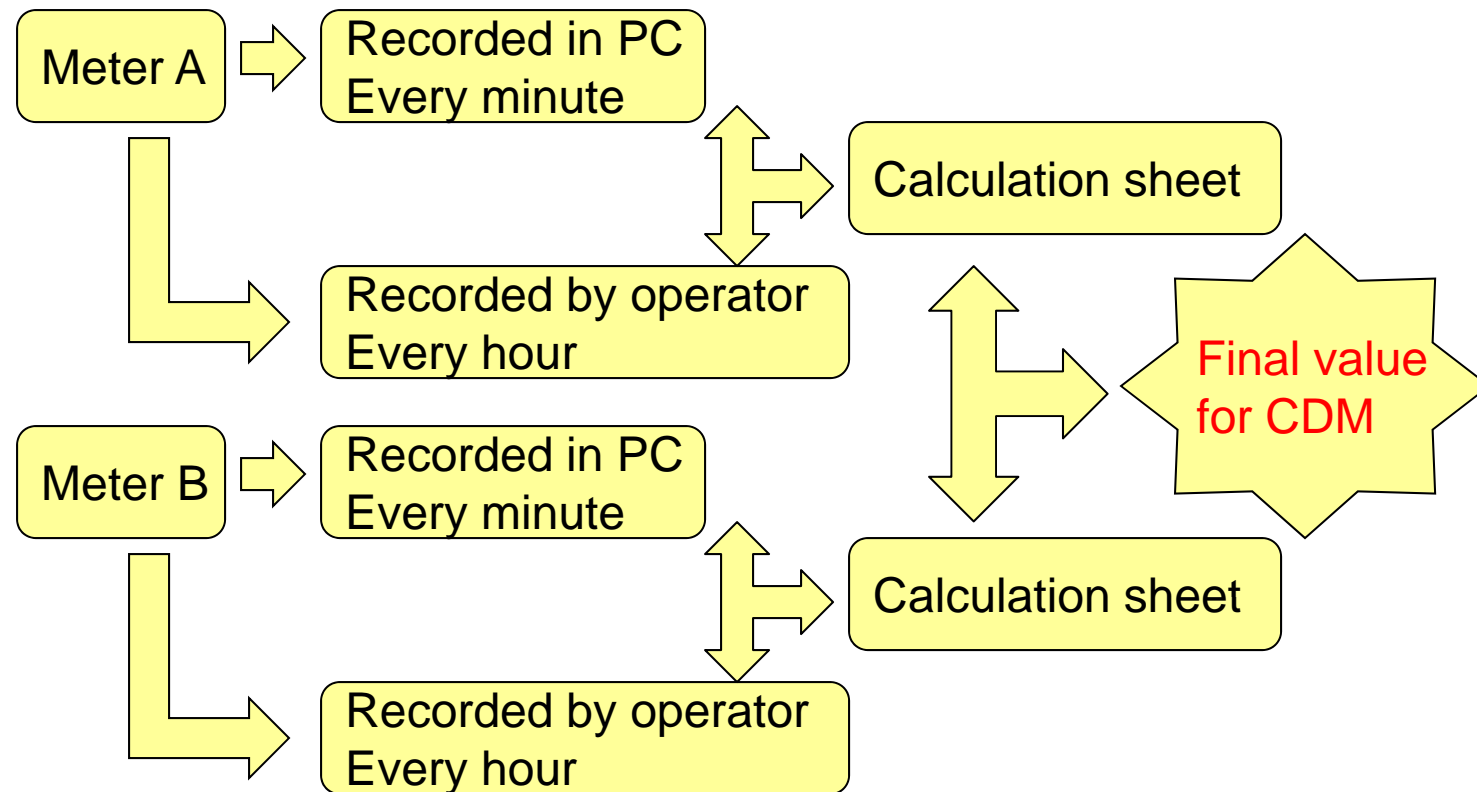
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Whether the information flow is running smoothly and no big problem is detected?



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