



**Approved baseline and monitoring methodology/
methodological tool revision recommendation form
(Version 02.0)**

INFORMATION TO BE COMPLETED BY PANEL/ WG

Date and number of Panel/ WG meeting:	26 Feb – 1 Mar 2019 / MP 78
Title/Subject of the request for revision:	Additional options to calculate emission reductions due to RPC intervention at demand side
Reference number of the request for revision:	SSC_737
Exact reference (number, title and version) of the methodology or methodological tool to which the request for revision applies:	AMS-II.T.: “Emission reduction through reactive power compensation in power distribution network --- Version 1.0”

Summary of the request for revision:

AMS-II.T. covers project activities that are aiming to reduce energy losses (kWh) reduction in transmission/distribution lines through installation of reactive power compensation (RPC) at industrial facilities.

The current version of the methodology limits its application of RPC facilities at industries with large internal distribution network and where data on distribution network required to estimate energy-savings due to loss reduction are available. It does not provide solution to potential application of RPC intervention for small and medium sized industries.

The proposed revision aims to expand applicability of the methodology to cover reactive power compensation facilities (RCF) installed at industrial internal distribution bus bars close to loads. The proposed revision provides following additional options to calculate emission reductions due to RPC intervention at demand side:

- (a) Simplified option to estimate emission reduction where either data on internal distribution network is not available or there is no such internal distribution network;
- (b) Option to use power flow simulation method to estimate emission reduction.

The proposed revision also provides further guidance on:

- (a) Determination of Transmission (T) and Distribution (D) losses where reliable data on transmission losses is available using default D/T ratio. Refer to para 35, it is noted that the proposed draft revision introduced new option for estimation of T and D losses as provided under sub-point (i) and (ii), while maintaining third option of using default value of 10%. Also, the hierarchy for using the default value for T and D losses is same to as in other small-scale methodologies such as AMS-II.C. The proposed revision also introduced the term ‘D/T ratio’, and based on D/T loss values for roughly for 57 countries, it suggests to use average of 3.0 as a default value;
- (b) Accounting energy savings associated with reduced copper losses of transformers, which are part of the internal distribution network of the facility when certain criteria as specified under para 36 of the proposed submission are met.

The proposed revision will broaden the applicability of the methodology and may facilitate the development of CDM projects. The revision to the methodology if approved is expected to reduce transaction cost for those project developers that uses simulation approach for emission reduction estimate.

Recommended decision to the Board on the request for revision

- ☒ Approve the proposed revised methodology or methodological tool (“A case”)
- ☐ Reject the proposed revised methodology or methodological tool (“C case”)

Type of the revision if the recommendation is A case
<input checked="" type="checkbox"/> The revision is a major revision <input type="checkbox"/> The revision is a minor revision
Reasons for rejection if the recommendation is C case
Any other issues arising from the request for revision

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	18 July 2013	Revised to remove the row "Date and signature of the chair and vice chair of Panel/WG"
01.0	4 July 2013	Initial publication. This document supersedes and replaces the following documents: <ul style="list-style-type: none"> • Recommendation form for Small Scale Methodologies (F-CDM-SSCwg) (Version 01.1) • Recommendation Form for Small Scale A/R Methodologies and Procedures (F-CDM-SSC-AR) (Version 01.1)

Decision Class: Regulatory
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