



**Approved baseline and monitoring methodology /
methodological tool clarification response form
(Version 03.0)**

INFORMATION TO BE COMPLETED BY THE SECRETARIAT OR PANEL / WG

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| Date and number of Panel / WG meeting: | N/A |
| Title/Subject of the request for clarification: | Clarification on the use of multiple sources to recharge LED lamps under AMS-III.AR. |
| Reference number of the request for clarification: | SSC_782 |
| Exact reference (number, title and version) of the methodology or methodological tool to which the request for clarification applies: | AMS-III.AR.: Substituting fossil fuel based lighting with LED/CFL lighting systems --- Version 6.0 |
| Fast track or Regular track: | <input checked="" type="checkbox"/> Fast track <input type="checkbox"/> Regular track |

Summary of the request for clarification

Original text from PP:

Context

The project proponent is seeking the certification of a carbon project activity that involves the replacement of fossil fuel based lamps through the distribution of renewable energy based LED lighting systems (Project Lamps) to end users in rural communities in sub-Saharan Africa.

The request for clarification refers to the CDM small-scale baseline and monitoring methodology AMS-III.AR. v6: Substituting fossil fuel based lighting with LED/CFL lighting systems --- Version 6.0

The project proponent seeks clarification on the eligibility criteria of the methodology, in particular regarding the limitation of allowing CFL/LED lamps that can use only one source for charging.

In the paragraph 3 of the applicability section of the methodology, it states that:

"This methodology is applicable only to project lamps whose batteries are charged using one of the following options:

(a) Charged by a renewable energy system included as part of the project lamp (e.g. a photovoltaic system or mechanical system such as a hand crank charger);

(b) Charged by a standalone distributed generation system (e.g. a diesel generator set) or a mini-grid, i.e. that is not connected to a national or regional grid;

(c) Charged by a grid that is connected to regional/national grid."

Furthermore, on the footnotes, it specifies that:

"Project lamps may be charged by any of the listed options, however each individual project lamp shall be charged by only one of the charging options (for example 10,000 project lamps may be charged by photovoltaic (PV) systems and 10,000 may be charged by a grid, but none of the individual project lamps may be charged by both a grid and a PV system)."

The project proponent seeks to introduce a PV solar LED lamp as part of the carbon project designed to be charged by two different methods:

- The PV solar panel integrated into the lamp (the default charging mode), or
- An external source of charging, via a DC connector and/or cable (which may include USB or any other power 'jack'). This external source for charging could be another solar panel, a rechargeable battery or a local generation source.

Such a product would give the users greater flexibility and usability of the lamp, in order to be able to charge

the lamp indoors or during cloudy, rainy days. For users upgrading their solar home energy supply in the future, as they climb the energy ladder, the lamp could be powered by their chosen system. Additionally, it would give users the capability to do a fast-charge or back-up to their lamp when needed, such as before travelling with their product.

Under the current methodology, it is unclear if this project lamp would be eligible to be included in a CDM.

Clarification request

Please clarify if a project lamp with the features described above (multiple charging methods, is eligible under this methodology, provided that the lamp is not charged by option (c) in the methodology (grid connected to the regional/national grid).

Subsequent to their original submission of 28 April 2020 the project proponent updated their request for clarification on 19 May 2020 by retaining only one of the two questions as above.

Clarification by the secretariat or Panel / WG

The secretariat would like to thank the author for the submission. Where baseline fossil fuel consumption for lighting was evidenced, the simplified methodology AMS-III.AR included a default baseline emission factor specified per lamp. Further to enable simplified monitoring requirements and to avoid significant amount of data collection, only one source of electricity to recharge the batteries of the lamp was included.

However, the query author may consider submitting a request for revision of the methodology following the latest version of the procedure "Development, revision and clarification of baseline and monitoring methodologies and methodological tools" to propose the inclusion of an additional option for charging the LED lamps. In doing so, reliable and conservative approaches to determine the share of electricity and related project emissions from the use of electricity for charging the batteries of the lamp should be proposed (e.g. using conservative emission factors from existing CDM methodologies and tools for the project emissions, assuming that all of the electricity is sourced from a high CO₂ emitting source such as diesel generator).

Version(s) of the approved methodology / methodological tool to which the clarification is applicable:

AMS-III.AR.: Substituting fossil fuel based lighting with LED/CFL lighting systems --- Version 6.0

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Document information

| <i>Version</i> | <i>Date</i> | <i>Description</i> |
|--|--------------|---|
| 03.0 | 13 May 2016 | Revised to include the row "Version(s) of the approved methodology / methodological tool to which the clarification is applicable" |
| 02.0 | 18 July 2013 | Revised to remove the row "Date and signature of the chair and vice chair of Panel/WG (in case of clarification by Panel/WG)" |
| 01.0 | 4 July 2013 | <ul style="list-style-type: none"> Initial publication. This document supersedes and replaces the following documents: 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) |
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