CDM Proposed specific renewable technologies/ measures recommendation form (Version 01.1)

Submitting DNA:	Sri Lanka
Title/version of the EB guideline/procedure this submission relates to:	"GUIDELINES FOR DEMONSTRATING ADDITIONALITY OF MICROSCALE PROJECT ACTIVITIES (Version 03)"
Contact Information: *(name of person or office, e-mail addresses and phone contacts)*	DNA SRI LANKA,CLIMATE CHANGE SECRETARIAT INFO@CLIMATECHANGE.LK, 00942883481

Summary of the proposal:

We would like to recommend the following Renewable Energy Technologies for auto Additionality.

- Bio mass and wind.

Additional clarifications requested 27-Jul-12:

In accordance with section IV and paragraph 10 of the "Procedure for Submission and consideration of microscale renewable energy technologies for automatic additionality", <http://cdm.unfccc.int/Reference/Procedures/methSSC_proc04.pdf>, you are requested to provide the additional information requested below to facilitate the consideration of your submission.

1. With reference to the data provided under Table 1 of the submission form, if available, you may wish to provide additional documentation (e.g. relevant data, documentation, statistics, web links of the sources where the data/information studies are available etc.) that support the reported data.

2. Please also confirm that the attached data from the Ceylon Electricity Board corresponds to year 2011.

3. Please confirm that the data reported in the Table 1 also covers projects in the CDM pipeline (registered/at validation) that are already in operation in the reported year.

4. With respect to the paragraph 2(d)(i) of the "Guidelines for the demonstration of additionality of microscale project activities", please note that in the specific case of wind energy technology, all the wind installations in the country shall be considered for the analysis, irrespective of the size of the wind farm, in order to derive the percentage share of wind technologies in the total installed capacity of grid connected electricity generation technologies. In other words, in the case of wind, the ratio shall be 33/3141 = 1.1%. Please refer to paragraph 37 of the meeting report of the thirty-sixth small-scale working group (SSC WG) available at <http://cdm.unfccc.int/Panels/ssc_wg>.

5. Please note, in accordance with the "Guidelines on the demonstration of additionality of small-scale project activities" (see <http://cdm.unfccc.int/Reference/Guidclarif/meth/methSSC_guid05.pdf>), the following electricity generation technologies of installed capacity up to 15 MW are already included in the positive list of grid-connected renewable electricity generation technologies that are automatically defined as additional:

(a) Solar technologies (photovoltaic and solar thermal electricity generation);

(b) Offshore wind technologies;

(c) Marine technologies (wave, tidal);

(d) Building-integrated wind turbines or household rooftop wind turbines of a size up to 100 kW

Therefore, these technologies need not be recommended under the scope of this submission. See also footnote 1 of "Guidelines for demonstrating additionality of microscale project activities" at <http://cdm.unfccc.int/Reference/Guidclarif/ssc/methSSC_guid22.pdf>.

You are requested to provide the information requested above as soon as possible but not later than 24 August 2012.

Response from DNA submitted 23-Aug-12:

This has reference to your e-mail dated 27.07.2012 on the above.

As per your mail, I would like to provide the following additional information to facilitate the consideration of our submission.

With reference to the data provided under table 1 of the submission form, we wish to provide the web link of the Ceylon Electricity Board name as http://www.ceb.lk/sub/publications/annual.aspx

Also, please see the attached letter from Ceylon Electricity Board to confirm the data from Ceylon Electricity Board corresponds to year 2011 and please see the web link http://www.ceb.lk/sub/db/op_commissionedproj.html to confirm that the data reported in table 1 also covers projects in the CDM pipeline that are already in operation in the reported year.

Accordingly, renewable energy technologies such as wind and biomass are qualified for proving additionality under the above guidelines and solar will be qualified under the positive list of grid connected renewable electricity generation technologies.

Therefore, being DNA host country to CDM Sri Lanka recommended the above renewable energy technologies for additionality of micro scale project activities.

Recommendation to EB:

The Board at its sixty-third meeting specified three criteria to be satisfied by the DNA recommendations in order that automatic additionality is conferred to microscale renewable energy projects in the host country. The submission is assessed below against these criteria:

(a) **Criteria 1:** DNA submissions shall include the specific grid connected renewable electricity generation technologies that are being recommended and provide the required data (e.g. wind power, biomass power, geothermal power, hydropower);

The submission has provided segregated data per technology and is in accordance with the above requirement.

(b) **Criteria 2**: The most recent data available on the percentage of contributions of specific renewable energy technologies shall be provided to demonstrate compliance with the 3 per cent threshold. No data older than three years from the date of the submission shall be used.

The submission has provided the most recent data available, from 2011. It is considered that the above requirement is met, based on the information in the submission.

(c) **Criteria 3**: the ratio of installed capacity of the specific grid connected renewable energy technology in the total installed grid connected power generation capacity in the host country shall be equal to or less than 3 per cent; "Specific renewable energy technologies/measures" refers to grid connected renewable energy technologies of installed capacity equal to or smaller than 5 MW.

Total installed capacity of ALL grid-connected electricity generation technologies in the country in the reference year was **3,141 MW.**

(i) **Wind (On shore):** the aggregate plant capacity of all total wind turbine installations in the country was **33 MW** leading to a ratio of 1.05%[1]. It is considered that the requirement for wind technologies (i.e. ratio under three per cent) has been met;

[1] With respect to the paragraph 2(d)(i) of the guidelines for the demonstration of additionality of microscale project activities, the SSC WG clarified that in the case of wind energy technology, all the wind installations in the country shall be considered for the analysis, irrespective of the size of the wind farm, in order to derive the percentage share of wind technologies in the total installed capacity of grid connected electricity generation technologies. Please refer to paragraph 37 of the meeting report of the thirty-sixth small scale working group <http://cdm.unfccc.int/Panels/ssc_wg>.

(ii) **Renewable Biomass** (Agro waste, Dendro[2]): the aggregate plant capacity of all renewable biomass technologies equal to or less than 5MW was 1.5 MW, resulting in a ratio of 0.05%. It is thus considered that the requirement for renewable biomass technologies (i.e. ratio under three per cent) has been met;

The reported data and calculations have been verified by reviewing publicly available reports and data provided by Ceylon Electricity Board of Sri Lanka. (Available at <http://www.ceb.lk/sub/publications/statistical.aspx>; <http://www.ceb.lk/sub/publications/annual.aspx>; <http://www.ceb.lk/sub/db/op_commissionedproj.html>).

It is noted from the "CEB Statistical Digest Report-2011" (page 3, <http://www.ceb.lk/sub/publications/statistical.aspx>) that the total installed capacity of hydro (large and small) in the country in year 2011 was 1207 MW (large) +194 MW (small)= 1401 MW but in the submission it is reported as 190.7 MW under the column B, Table 1 of the submission form. This issue however has not been raised to the DNA because of the following reasons:

- The total installed capacity of hydro plants with less than 5 MW was 149 MW leading to a threshold ratio of 4.7% which is greater than the cutoff threshold of 3%. The DNA also has not recommended the technology to qualify as automatically additional.
- The total installed capacity reported in the submission (i.e. 3141 MW) and installed capacities of all other renewable energy technologies including the proposed technologies (i.e. Wind and biomass) crosschecks with the CEB's data.
- It is most likely that the installed capacity of large hydro plants has been reported under section 2 of Table 1 of the submission form, which is for "Grid connected non-renewable electricity generation technologies".
- The reshuffling of data of large hydro in the table would not impact the outcome of the recommendation, since hydro technology is not eligible in the host country under this submission.

(d) It is noted that a call for public input was open from 07 to 20 September 2012 as per the "Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality" and no comments were received.

Recommendation to the Board

The following grid connected microscale renewable energy technologies of a capacity equal to or less than 5 MW, recommended by the DNA of Sri Lanka following the "Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality" and the "Guidelines for demonstrating additionality of microscale project activities" (version 04), may be considered by the Board as eligible for conferring automatic additionality in the host country:

- Onshore Wind;
- Renewable Biomass (Agro waste, dendro)

The following electricity generation technologies with an installed capacity up to 15 MW are already included in the positive list of grid-connected renewable electricity generation technologies that are automatically defined as additional[3]: (a) Solar technologies (photovoltaic and solar thermal electricity generation); (b) Offshore wind technologies; and (c) Marine technologies (wave, tidal). Therefore, these technologies do not need to be recommended under the scope of these guidelines.

SECTION TO BE FILLED IN BY THE UNFCCC SECRETARIAT	
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[2] As per national energy policy <http://www.ceb.lk/download/db/national_energy_policy.pdf> and Energy Forum of Sri Lanka <http://efsl.lk/details.aspx?catid=3> "Dendro power" is the generation of electricity from sustainably grown biomass (fuel wood) biomass energy source.

[3] See "Guidelines on the demonstration of additionality of small-scale project activities" (available at: <http://cdm.unfccc.int/Reference/Guidclarif/index.html#meth>).

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History of the document

Version	Date	Nature of revision(s)
01.1	12 April 2012	Editorial changes to include new logo and other improvements.
01.0	13 January 2012	Initial publication.
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