



**CDM: Proposed specific renewable technologies/measures
recommendation form (version 01)**

<i>Submitting DNA</i>	Republic of Korea
<i>Title/version of the EB guideline/procedure this submission relates to</i>	
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Summary of the proposal	
<p>According to the “Guidelines for demonstrating additionality of microscale project activities (version 03)” and following the “Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality” (EB 65, annex 33) and taking into account the decision of the Board (EB 65, paragraph 114), the DNA of the Republic of Korea submitted further information concerning the total installed capacity of the following recommended renewable energy technologies¹:</p> <ul style="list-style-type: none"> • Hydro; • Wind; • Solar Photovoltaics; • Solar thermal; • Geo-thermal; • Renewable Biomass; • Tidal, Wave and Ocean. 	
Recommendation to EB	
The Board at its sixty third meeting specified three criteria to be satisfied by the DNA recommendations in	

¹ The Korean DNA previously submitted a recommendation for automatic additionality for specific microscale renewable energy technologies based on ver. 02 of the Guidelines (See Annex 5: Technical assessment of the submission received by the DNA of South Korea). Subsequently the Board adopted the “Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality” and clarified (EB 65, para. 114) that the submissions already made by DNAs would need to be processed in accordance with the new procedure, and that the secretariat should request DNAs to provide any further information required under this procedure. As per the new procedure i.e. ver. 03 of the Guidelines, data on installed capacity of renewable energy and other power plants is required rather than the annual renewable energy production required in ver. 02. Hence, additional information was requested from the DNA as per the EB 65 clarification.

order that automatic additionality is conferred to microscale renewable energy projects in the host country. The submission is assessed below against these criteria:

1. 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.

2. Criteria 2: **Most recent available data** on the percentage of contributions of specific renewable energy technologies shall be provided to demonstrate compliance with the **3 per cent threshold**. **In no case shall data older than three years** from the date of submission be used.

The submission has provided data from 2009 and includes a statement from the DNA that it is the most recent data that is available. The SSC WG considered that the above requirement was met, based on the information in the submission.

3. 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**.

- (i) **Hydro**: Total installed capacity of **ALL** grid-connected technologies in the country in the reference year was 74,722 MW. The submission provides two separate calculations for the ratio of the installed capacity of the technology to the total grid-connected installed capacity:

- **Aggregate plant capacity equal to or less than 5MW was 77 MW**, leading to a ratio of **0.1 %**;
- **Aggregate plant capacity of all hydro installations in the country was 5515 MW**, leading to a ratio of **7.4**. However this included pumped hydro facilities of 3,900MW, where each pumped hydro plant was greater than 200MW. When pumped hydro is excluded from all hydro capacity, the ratio is **2.1%**.

Based on the above information SSC WG considered that the requirement for Hydro technologies (i.e. threshold ratio under three per cent) has been met.

- (ii) **Wind**: The **submission** provides two separate calculations for the ratio of the grid-connected capacity of the technology to the total grid-connected capacity:

- **Aggregate plant capacity equal to or less than 5MW was 28 MW**, leading to a ratio of **0.04 %**;
- **Aggregate plant capacity of all wind installations in the country was 346 MW**, leading to a ratio of **0.46%**.

Based on the above information SSC WG considered that the requirement for Wind technologies (i.e. threshold ratio under three per cent) has been met.

² See attachment A of appendix B of the “Simplified modalities and procedures for small-scale CDM project activities” (Annex 24, EB 63).

(iii) **Renewable Biomass:** The submission provides two separate calculations for the ratio of the grid-connected capacity of the technology to total grid-connected installed capacity:

1. **Aggregate plant capacity equal to or less than 5MW was 18 MW**, leading to a ratio of **0.02%**;
2. **Aggregate plant capacity of all renewable biomass grid-connected electricity generation installations in the country was 84 MW**, leading to a ratio of **0.11%**.

Based on the above information SSC WG considered that the requirement for renewable biomass technologies (i.e. threshold ratio under three per cent) has been met.

(iv) **Geothermal:** The installed capacity of geothermal technologies was zero in the reference year, therefore the requirement has been met for geothermal technology.

(v) **Marine (Wave, Tidal, Ocean):** The installed capacity of these technologies was zero in the reference year therefore the requirement has been met for geothermal technology.

(vi) **Solar-PV:** The submission provides two separate calculations for the ratio the grid-connected capacity of the technology to the total grid-connected installed capacity:

1. **Aggregate plant capacity equal to or less than 5MW was 407 MW**, leading to a ratio of **0.54%**;
2. **Aggregate plant capacity of all Solar PV installations in the country was 417 MW**, leading to a ratio of **0.56%**.

Based on the above information SSC WG considered that the requirement for Solar-PV technologies (i.e. threshold ratio under three per cent) has been met.

(vii) **Solar thermal:** The submission recommends solar thermal technologies, however the SSC WG noted that thermal energy technologies are **ineligible** according to the guidelines.

4. Moreover, 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 additional²: (a) Solar technologies (photovoltaic and solar thermal electricity generation); (b) Offshore wind technologies; (c) Marine technologies (wave, tidal). Therefore, these technologies need not be recommended under the scope of these guidelines.

5. In addition the SSC WG noted that the reported figures as above on aggregate plant capacity of all grid-connected electricity generation installations in the host country are consistent with publicly available IEA data (Energy Statistics/Balances of OECD Countries, International Energy Agency, Paris).

6. In addition the SSC WG noted that a call for public input was open from 16 Jan 2012 till 29 Jan 2012 as per the “Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality”, and no inputs 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 Korea following the “Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality” and the “Guidelines for

demonstrating additionality for microscale projects (Version 03), may be considered by the Board as eligible for conferring automatic additionality in the host country:

- Hydro;
- Onshore Wind;
- Geothermal;
- Renewable Biomass (Biogas, wood wastes/other solid wastes).

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