



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

<i>Submitting DNA</i>	Republic of Chile
<i>Title/version of the EB guideline/procedure this submission relates to</i>	GUIDELINES FOR DEMONSTRATING ADDITIONALITY OF MICROSCALE PROJECT ACTIVITIES / (Version 03) EB 65
<i>Contact Information (name of person or office, e-mail addresses and phone contacts)</i>	<p>Andrea Rudnick García</p> <p>Climate Change Office - Ministry of Environment of Chile</p> <p>Email address: <a href="mailto:arudnick@mma.gob.cl">arudnick@mma.gob.cl</a></p> <p>Phone: +56 2 241 1871</p>
<b>Summary of the proposal</b>	
<p>This document contains the submission of proposed specific renewable energy technologies/measures to qualify the as conferring automatic additionality. The specific renewable energy technologies proposed for automatic additionality are grid-connected renewable energy technologies that generate only electricity of installed capacity equal to or smaller than five (5) MW.</p> <p>According to the “Guidelines for Demonstrating Additionality of Microscale Project Activities”, EB 63, Annex 23, renewable energy technologies of installed capacity equal to or smaller than 5MW are additional if any one of the four conditions established in the referred document are satisfied. In particular the Chilean DNA addresses the fourth condition:</p> <p><i>d) The project activity employs specific renewable energy technologies/measures recommended by the host country designated national authority (DNA) and approved by the Board to be additional in the host country.</i></p> <p><i>ii) 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.</i></p> <p>Therefore, this submission demonstrates the conditionality that the ratio of the total installed capacity of all grid-connected hydropower plants with capacity equal to or smaller than 5MW and the national grid-connected installed electricity generation is less than 3 per cent in Chile.</p> <p>The present demonstration of additionality used the most recent complete data series available from year 2010 of the National Energy Commission of the Ministry of Energy of Chile.</p> <p>The detailed calculation is presented in the attached spreadsheet named “Chile_demonstration_additionality_microscale.xls”.</p> <p>The specific renewable energy technologies recommended for the automatic additionality are:</p> <ul style="list-style-type: none"> <li>- Hydro</li> <li>- Wind</li> <li>- Renewable Biomass</li> <li>- Geothermal</li> <li>- Solar-PV</li> <li>- Marine</li> </ul>	

## 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:** 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. Data older than three years from the date of the submission shall in no case be used.

The submission has provided data from 2010 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.

- (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 technologies in the country in the reference year was 15,558 MW.

- (i) **Hydro:** Aggregate plant capacity equal to or less than 5MW was 11.40 MW leading to a ratio of 0.07%;

The SSC WG thus considered that the requirement for Hydro technologies (i.e. threshold ratio under three per cent) has been met.

- (ii) **Wind:** It is found that **Aggregate<sup>1</sup> plant capacity of all wind installations in the country was 162.51 MW**, leading to a ratio of 1.04%. The SSC WG thus considered that the requirement for Wind technologies (i.e. threshold ratio under three per cent) has been met;

- (iii) **Renewable Biomass:** based on the data provided by the DNA, renewable biomass constitutes: biomass residues, biogas, bio-fuel and woody biomass. Aggregate plant capacity of all these technologies equal to or less than 5MW was 4.0 MW, leading to a ratio of 0.025%. The SSC WG thus 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

<sup>1</sup> With respect to the paragraph 2(d)(i) of the guidelines for the demonstration of additionality of microscale project activities, the SSC WG agreed to clarify 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](http://cdm.unfccc.int/Panels/ssc_wg)>

technology;

(vi) **Solar-PV**: the installed capacity of these technologies was zero in the reference year therefore the requirement has been met for geothermal technology;

(d) 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 (e.g. Renewable Information 2011, Energy Statistics/Balances of OECD Countries, International Energy Agency, Paris);

(e) The SSC WG noted that a call for public input was open from 02 March 2012 to 15 March 2012 as per the “Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality”, and no inputs were received in response to this call.

#### **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 Chile 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 (biomass residues, biogas, bio-fuel and woody biomass).

Note: 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:<sup>2</sup> (a) Solar technologies (photovoltaic and solar thermal electricity generation); (b) Offshore wind technologies; and (c) Marine technologies (wave, tidal). Therefore, these technologies need not be recommended under the scope of these guidelines.

#### **Information to be completed by the secretariat**

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<sup>2</sup> See attachment A of appendix B of the .Simplified modalities and procedures for small-scale CDM project activities (EB 63, annex 24).