Technical assessment of DNA submissions on
“Guidelines for the demonstration of additionality of microscale project activities”

Background
1. The SSC WG at its thirty-fourth meeting assessed one submission received from the DNAs
(see Annex 7 of the thirty-second and thirty-third meeting reports of the SSC WG for the previous
technical assessments). This document contains the assessment of submissions received from the
DNA of Korea Republic.

Assessment
2. The Korean DNA requests as per “Guidelines for demonstrating additionality for
microscale projects (Version 02)” that all renewable energy technology/measures based on Hydro,
Wind, Solar PV, Solar Thermal, Renewable Biomass (includes biogas, biofuels, renewable waste,
gasification technologies), Geo-thermal, Ocean, Tidal and wave technologies be considered
additional in the host country. The Korean DNA indicated (see the table below) that since 2009 the
contribution of all renewable energy technologies is less than or equal to 5% of national annual
electricity generation.

Table 1. Percentage share of renewable energy technologies in
national annual grid electricity generation

<table>
<thead>
<tr>
<th>Technology</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro</td>
<td>1.86</td>
</tr>
<tr>
<td>Wind</td>
<td>0.15</td>
</tr>
<tr>
<td>Solar thermal</td>
<td>0.00</td>
</tr>
<tr>
<td>Solar PV</td>
<td>0.12</td>
</tr>
<tr>
<td>Renewable Biomass</td>
<td>0.13</td>
</tr>
<tr>
<td>Tidal/Wave/Ocean</td>
<td>0.00</td>
</tr>
<tr>
<td>Geothermal</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Source: DNA submission.

3. On the basis of data submitted by DNA, the submission is in compliance with the
requirements of EB 62, paragraph 42 (c) and (e), i.e. the submission includes most recent available
data on the percentage of contributions of specific renewable energy technologies to demonstrate
compliance with the 5 per cent threshold. The SSC WG also found that the data reported are
consistent with International Energy Agency data. The group concludes that the submission is
deemed to be technically valid in accordance with version 2 of the guidelines.

4. The SSC WG has also further conducted the technical analysis of this submission based on
the recent guidelines provided by the Board at its sixty-third meeting, see Annex 23 “Guidelines for
demonstrating additionality for microscale projects (Version 03)” making assumptions on the
utilisation rates as indicated in annex 6 to the thirty third meeting report of the SSC WG. Table 2
illustrates that 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 is
equal to or less than 3 per cent.

---

1 Please note that EB 63 revised the guideline including the threshold criteria. (See Annex 23 of the EB 63
meeting report). Accordingly, the applicable threshold shall be a maximum of 3 per cent, determined as the
ratio of installed capacity of the specific grid-connected renewable energy technology in the total grid-
connected installed capacity in the host country.

2 Including pump storage.

### Table 2. Percentage share of renewable energy technologies in installed capacity of grid connected electricity generation technologies

<table>
<thead>
<tr>
<th>Hydro (%)</th>
<th>Wind</th>
<th>Solar thermal</th>
<th>Solar PV</th>
<th>Renewable Biomass</th>
<th>Tidal/Wave/Ocean</th>
<th>Geothermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.31</td>
<td>0.46</td>
<td>0.00</td>
<td>1.10</td>
<td>0.15</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Source: Estimated based on IEA (2011)³

5. Therefore the SSC WG concluded that on the basis of data submitted and the assumption made by the SSC WG on the utilization rates, the DNA’s request is technically valid under the threshold requirements stipulated in both version 02 and version 03 of the guideline. The DNA may be requested to submit information on respective installed capacities of renewable energy technologies to confirm the validity of Table 2 calculations.