



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

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| Submitting DNA: | Iran (Islamic Republic of) |
| Title/version of the EB guideline/procedure this submission relates to: | <p>Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality (EB70, Annex 37)</p> <p>Guidelines for demonstrating additionality of microscale project activities (EB68, Annex 26)</p> |
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| Summary of the proposal: | |
| <p>1. This proposal is to propose specific renewable energy technologies (RET) to be approved by the Executive Board of the clean development mechanism (CDM) as conferring automatic additionality on microscale CDM project activities implemented in Iran. The proposal refers to Guidelines for demonstrating additionality of Microscale Project Activities (EB 63- Annex 23) and to Procedure for Submission and Consideration of Microscale Renewable Energy Technologies for Automatic Additionality (EB 65, Annex 33). Based on information derived from the Ministry of Energy (MOE) and from the Iran Power Industry Statistics (IPIS), Iran meets the requirements to recommend the following renewable energy technologies:</p> <ul style="list-style-type: none"> - Hydro - Wind - Renewable Biomass - Geothermal <p>In particular, project activities up to 5 MW employing RET are additional, in this case, following item “d” of the mentioned Guidelines.</p> <p>2. Please note that the following electricity generation technologies of installed capacity of 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</p> | |

generation); (b) Offshore wind technologies; and (c) Marine technologies (wave, tidal). Therefore, these technologies need not be recommended under the scope of the “Guidelines for demonstrating additionality of microscale project activities.” Information presented in the attached file “IranRETmicro.xls” reflects the latest published information in English (2010~2011) about the power production in Iran, it is available from the TAVANIR, Ministry of Energy of Iran (<http://www2.tavanir.org.ir/info/stat89/sanathtml/s18.htm>). Finally, this form is sent according to the Procedure for Submission mentioned above.

Additional clarification requested 21-Nov-12

1. How the power plants out of national grid (off-grid plants) were determined. Could you please let us know what is the criterion used to differentiate off-grid from grid connected plants.
2. The workbook 'page 88' cell F55 mentions the wind power capacity as 96 MW while in the submission it is mentioned as 94 MW. Also no separate capacity of renewable biomass and landfill gas is mentioned in the work book 'page 88' while it is there in the submission. We believe this is a typo as the total renewable capacity remains same in excel sheet and submission. Could you please correct the information provided in the excel sheet.

Response from DNA submitted 05-Dec-12

1. The only off grid area in Iran is Kish Island which is far away from main land and electricity generation capacity in this region is considered as non-grid connected capacity. The private power plants and large industrial plants have a long-term power purchasing agreement with the government for selling the electricity to them, meaning the government is the only buyer of electricity in the country. Thus the grid connected capacity mentioned in the submission is correct.
2. The typo is corrected in the excel file. Installed wind capacity is 94MW. All total renewable biomass capacity is from landfill gas power plants which are indicated as LFGTE in “page 88” of the attached excel file.

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 the most recent data that is available from 2010-2011. It is 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 **61018.69 MW**.
 - (i) **Hydro:** The installed capacity of hydro plants with less than 5 MW capacity was 69.00 MW leading to a **ratio of 0.11%** (69.00/61018.69) in the reference year. Thus, it is considered that the requirement for Hydro technologies (i.e. ratio under three per cent) has been met;
 - (ii) **Geothermal:** The installed capacity of geothermal plants with less than 5 MW capacity was 0 MW, leading to a **ratio of 0 %** in the reference year. Thus, it is considered that the requirement for Geothermal technologies (i.e. ratio under three per cent) has been met;
 - (iii) **Wind:** the aggregate plant capacity of all total wind turbine installations in the country was 23.86 MW, leading to a **ratio of 0.15 %** (23.86/61018.69) in the reference year. Thus, it is considered that the requirement for Wind technologies (i.e. ratio under three per cent) has been met;

- (iv) **Renewable Biomass:** based on the data provided by the DNA, aggregate plant capacity of all renewable biomass technologies equal to or less than 5 MW was 1.88 MW, leading to a **ratio of 0.003%** (1.88/61018.69) in the reference year. Thus, it is considered that the requirement for renewable biomass technologies (i.e. ratio under three per cent) has been met.

The reported data and calculations provided by DNA of Iran (Islamic Republic of) have been verified by reviewing publicly available report for year 2010-2011 from the TAVANIR, Ministry of Energy of Iran which is available at <http://www2.tavanir.org.ir/info/stat89/sanat/html/s18.htm>.

- (d) It is noted that a call for public input was open from 02–15 November 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 Iran (Islamic Republic of) following the “Procedure for submission and consideration of microscale renewable energy technologies for automatic additionality” (version 02) 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:

- Hydro;
- Geothermal;
- On-shore Wind; and
- Renewable Biomass

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 additional¹:

- (a) Solar technologies (photovoltaic and solar thermal electricity generation);
- (b) Off-shore wind technologies;
- (c) Marine technologies (wave, tidal); and
- (d) Building and household rooftop wind turbines up to 100 kW.

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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¹ See “Guidelines on the demonstration of additionality of small-scale project activities” (available at: <http://cdm.unfccc.int/Reference/Guidclarif/index.html#meth>).

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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