

HEQING SOLAR COOKER PROJECT II

Document Prepared By Clean Air Trade, Inc.

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1 PROJECT DETAILS

1.1 Summary Description of the Project

“Heqing Solar Cooker Project II” (the proposed project) is located on the rural area of Gaotai county and Linze county of Zhangye, Gansu province in northwestern China. The proposed project will install 49,000 solar cookers for the rural residents. The rating power of each solar cooker is 910 W and the total capacity of the proposed project is 44.59 MW. The proposed project will enable the rural residents to efficiently substitute solar energy for the fossil fuel (coal) used in daily cooking and water boiling, avoiding CO₂ emission that would be generated by fossil fuel consumption. It is estimated that 143,762 tCO₂e emission reductions will be produced annually.

1.2 Sectoral Scope and Project Type

Sectoral scope: 01 - Energy industries (renewable / non-renewable sources)

Project type: I - Renewable Energy Projects

The project is not a grouped project.

1.3 Project Proponent

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Title	Managing Director
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1.4 Other Entities Involved in the Project

1.5 Project Start Date

The start date of this project activity is 15 August 2011. This is the start date of tender bidding process for project equipment, which marks the start of the project implementation.

1.6 Project Crediting Period

Crediting period start date: 22-September-2011

Crediting period end date: 21-September-2021

Total number of years: 10 years

1.7 Project Scale and Estimated GHG Emission Reductions or Removals

Project Scale	
Project	✓
Large project	

Year	Estimated GHG emission reductions or removals (tCO ₂ e)
22/09/2011-21/09/2012	143,762
22/09/2012-21/09/2013	143,762
22/09/2013-21/09/2014	143,762
22/09/2014-21/09/2015	143,762
22/09/2015-21/09/2016	143,762
22/09/2016-21/09/2017	143,762
22/09/2017-21/09/2018	143,762
22/09/2018-21/09/2019	143,762
22/09/2019-21/09/2020	143,762
22/09/2020-21/09/2021	143,762
Total estimated ERs	1,437,620
Total number of crediting years	10
Average annual ERs	143,762

1.8 Description of the Project Activity

1.9 Project Location

The proposed project has been implemented in rural areas of Gaotai county and Linze county of Zhangye in Gansu province. The details are illustrated in the following maps in Figure 1.



Figure1: Geographic Location of Heqing Solar Cooker Project II

1.10 Conditions Prior to Project Initiation

In the absence of the proposed project, the rural residents would continue to use the coal-fired stoves for their daily cooking and water-boiling as usual, which is the condition prior to project initiation.

1.11 Compliance with Laws, Statutes and Other Regulatory Frameworks

1.12 Ownership and Other Programs

1.12.1 Project Ownership

The project is owned by Clean Air Trade, Inc. Relevant documents will be available for inspection.

1.12.2 Emissions Trading Programs and Other Binding Limits

This project activity is completely voluntary, and it is not required by any law or regulation.

1.12.3 Other Forms of Environmental Credit

The project will not claim any other form of GHG-related environmental credit for GHG emission reductions claimed under the VCS Program, i.e., the emission reductions generated from the project will not be double counted.

1.12.4 Participation under Other GHG Programs

The project has been registered under CDM. The reference number is 5106.

1.12.5 Projects Rejected by Other GHG Programs

1.13 Additional Information Relevant to the Project

Eligibility Criteria

N/A

Leakage Management

N/A

Commercially Sensitive Information

N/A

Sustainable Development

The development of the proposed project is in line with the priority choice of Chinese energy sector, and it will facilitate the sustainable development of the project site as well as the host country in the following aspects:

- ♦ Providing rural residents with a clean, practical and convenient way to meet the energy demand of their daily cooking;
- ♦ Improving the indoor hygiene of rural residents;
- ♦ Improving the living condition and quality of rural residents;
- ♦ Mitigating GHG emission.

The proposed project will significantly contribute to sustainable development of this region. It will serve as a model for future project and stimulate the interests of investors in solar energy projects. It will promote the use of clean energy, educate and train the rural population on solar energy technology, and build awareness in environmental protection among the rural population. Those who will be directly benefited from the proposed project are 49,000 low-income households or about 196,000 villagers (average household has 4-5 people). The rural residents will get clean and reliable energy supply for their daily cooking. The technology and experience gained from this project can be transferred to future projects. The experienced personnel trained by this project can assist other projects in the future.

Further Information

N/A

2 APPLICATION OF METHODOLOGY

2.1 Title and Reference of Methodology

2.2 Applicability of Methodology

2.3 Project Boundary

2.4 Baseline Scenario

2.5 Additionality

2.6 Methodology Deviations

There is no methodology deviation.

3 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

3.1 Baseline Emissions

3.2 Project Emissions

3.3 Leakage

3.4 Net GHG Emission Reductions and Removals

4 MONITORING

4.1 Data and Parameters Available at Validation

4.2 Data and Parameters Monitored

4.3 Monitoring Plan

5 SAFEGUARDS

5.1 No Net Harm

5.2 Environmental Impact

5.3 Local Stakeholder Consultation

5.4 Public Comments