



Energy

Thailand Market Appendix to the Green-e® Renewable Electricity Standard for International Certification

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Instructions for how to comment are available at:

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I. Introduction and Structure

The purpose of this Thailand Market Appendix of the Green-e® Renewable Electricity Standard for International Certification (“Thailand Market Appendix”) is to provide market-specific Green-e® certification criteria for renewable electricity and Renewable Energy Certificate (REC) transactions in Thailand. Green-e® certification of transactions in Thailand must meet the criteria contained in the International Standard as well as all criteria in the Thailand Market Appendix, which may update corresponding sections of the International Standard.

The following sections of the International Standard are not updated by the Thailand Market Appendix and must be followed by users of the Thailand Market Appendix as they appear in the International Standard: ***I.A - I.D, III.B, III.E, III.F, III.G, IV.A.1, IV.C, IV.D, V.A - V.C, VI.A and VI.B.***

The remaining sections of the International Standard are updated by corresponding sections of this Thailand Market Appendix. Following the sequential order and numbering convention of the International Standard, these sections are: ***II.A - II.C, III.A, III.C, III.D, IV.A.2 and IV.B.***

All Market Appendices to the International Standard are available on the Green-e® website at www.green-e.org/marketappendix. Further details on Market Appendix availability and development are provided in Section VII of the International Standard, available at <https://www.green-e.org/international>.

II. Eligible Product, Customer and Market Types

A. Renewable Energy Product Types

Only the following renewable energy products are eligible for Green-e® certification under the Thailand Market Appendix:

1. Energy Attribute Certificates (EACs)
2. Renewable Electricity

Additional details about this product type can be found in Section II.A of the International Standard.

B. Renewable Energy Attribute Provider and Procurement Types

A Green-e® certified Renewable Energy Product can only be obtained through one of the following providers and procurement types:

1. Procurement of EACs separately from electricity service. Providers of such EACs may be electricity service providers also, or companies that provide EACs without electricity service.
2. Procurement of electricity and EACs through a Third-Party Access system as a Direct Power Purchase Agreement.
3. Self-use of renewable electricity produced by user-owned generation equipment on-site.
4. Self-use of renewable electricity produced by user-owned generation equipment off-site.

C. Customer Type and Location

Only the following customer type is eligible to purchase a Green-e® certified Renewable Energy Product:

1. Non-residential retail EAC and/or electricity customers, including commercial, Industrial and/or Institutional entities.

Electricity consumers may claim to be using Green-e® certified renewable electricity if they purchase a Green-e® certified Renewable Energy Product that is generated in Thailand. The Green-e® program does not endorse renewable electricity usage claims based on purchases of renewable energy products generated outside of Thailand. However, the Green-e® program does not specifically prohibit sales that are certified under this Thailand Market Appendix from being made to purchasers located outside of Thailand.

III. Eligible Sources of Supply

A. Renewable Resource Types

Only the following types of renewable resources are eligible to be used in Green-e® certified Renewable Energy Product:

1. Solar, including photovoltaic and solar thermal electric
2. Wind
3. Geothermal

The following resources are not eligible to be used in a Green-e® certified Renewable Energy Product:

4. Ocean-based energy captured through tidal, wave, or ocean thermal energy conversion technologies
5. Hydropower
6. Solid, liquid, and gaseous forms of biomass
7. Biodiesel (B100), biomethane, biogas, bioethanol, green diesel, or syngas
8. Fuel cells

More information about customer type and location can be found in section III.A of the International Standard.

C. Generator Age and “New Date”

For a generator to be used in a Green-e® Energy certified Renewable Energy Product in Thailand, it must be placed into operation on the grid, or meet other applicable criteria in section III.C.1 of the International Standard, no earlier than the year listed under the “Applicable New Date” in the table below. The “New Date” will advance by one year each year after 2032.

Year Certified Renewable Energy Product is Sold	Applicable New Date
2025 - 2030	2016
2031	2017
2032	2018

Additional information regarding Generator Age and “New Date” can be found in section III.C of the International Standard.

D. Location of Eligible Generators

1. Geographic Location

Generators providing electricity or EACs for a Green-e® certified Renewable Energy Product must be located in Thailand.

Additional information can be found in section III.D of the International Standard.

IV. Renewable Energy Product Specifications

A. Fully Aggregated Renewable Energy Attributes

2. Emissions Trading Scheme/Cap-and-Trade Mechanisms for Greenhouse Gas Emissions

Generators participating in Thailand's Voluntary Emissions Reduction Program must provide additional documentation from the Thailand Greenhouse Gas Management Organization in order to demonstrate that renewable electricity and EACs maintain their full avoided carbon value and that carbon credits were not issued for the same period of generation.

Additional information regarding regulatory surplus can be found in section IV.A.2 of the International Standard.

B. Regulatory Surplus: Renewable Quotas, Targets, Other Mandates and Incentives

Renewable electricity and/or EACs procured through Thailand's Utility Green Tariff 1 and Utility Green Tariff 2 programs, are not eligible to be used in a Green-e® certified Renewable Energy Product. In addition, generators contracted under Utility Green Tariff 1 and Utility Green Tariff 2 and all associated generation output will not be eligible as a Green-e® certified Renewable Energy Product during the duration of their contracts.

Additional information regarding regulatory surplus can be found in section IV.B of the International Standard.

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