



Energy

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

Version 1.0

Draft for Open Comment Period



Center for Resource Solutions

1012 Torney Avenue, 2nd Floor

San Francisco, CA 94129 USA

www.resource-solutions.org

I. Introduction and Structure

The purpose of this Vietnam Market Appendix of the Green-e® Renewable Electricity Standard for International Certification (“International Standard”) is to provide market-specific criteria for Green-e® certification of transactions of renewable electricity and Environmental Attribute Certificates (EACs) generated by facilities located in Vietnam. To be Green-e® certified, such transactions must meet the criteria contained in the International Standard as well as all modifications specified below in this Vietnam Market Appendix. These modifications affect the following sections of the International Standard: **II.B, III.A, III.C, III.D.1, IV.A.2 and IV.C.**

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, which is available on the same page.

II. Eligible Product, Customer and Market Types

B. Renewable Energy Attribute Provider and Procurement Types

A Green-e® certified Renewable Energy Product can be obtained through the following procurement types listed in section II.B of the International Standard:

3. Procurement of attributes directly from a generator that is not owned by the electricity user. Such procurement may take the form of:
 - a. Power Purchase Agreements (contracts directly between an electricity user and a generator or a generator operator) that include attributes. For example, contracts for differences, and virtual PPAs.
 - b. Use of attributes from leased generation equipment that is installed on property owned by the electricity user.

4. Self-use of renewable electricity produced by user-owned generation equipment. The electricity user may sign up to certify their own Renewable Energy Product that they will use themselves and not sell to others. Self-use options include:
 - b. The electricity user consuming attributes from a generator that they own that is located at a different location from where user is claiming the attributes, when there is a direct electrical connection between the user and the generator (sometimes called an “over the fence” arrangement or a “direct line” connection)

All other criteria explained in Section II.B of the International Standard must be upheld by the Green-e® program participant.

III. Eligible Sources of Supply

A. Renewable Resource Types

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

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

At the time of this Market Appendix's publication, the following resources listed below are not eligible to be used in a Green-e® certified Renewable Energy Product. However, these resources may be reevaluated in the future upon as the market and national policies evolve.

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 resource type can be found in section III.A of the International Standard.

C. Generator Age and “New Date”

For a generator in Vietnam to be used in a Green-e® certified Renewable Energy Product, 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 “Applicable New Date” will advance by one year each year after 2032.

Reporting Year	Applicable New Date
----------------	---------------------

2026 - 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 Vietnam, and their first point of interconnection must be in Vietnam.

Additional information can be found in section III.D.1 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 Vietnam’s carbon trading exchange and pilot greenhouse gas (GHG) emissions quota program must be able to demonstrate that carbon credits were not issued for the same period of generation for which EACs were issued. If EACs used in a Green-e® certified sales are found to be generated and traded during the same period of carbon credit issuance, the sale will not be eligible for certification.

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

C. Double Counting, Double Selling, and Double Claiming

In Addition to the criteria in section V.2.C of the International Standard, participants are required to provide Green-e® program staff with a copy (can be redacted) of a DPPA bilateral contract to confirm transfer and ownership of EACs.

Depending on the type of DPPA product. the participant must have an official registration record of the of the DPPA contract with either: the National Electricity System and Market Operation LLC; and/or local Provincial People’s Committee, the local power company, and the competent system operator.

NOTICE: “Green-e” is a trademark of Center for Resource Solutions, (CRS) registered in the U.S. and other countries. All rights reserved. This Standard is the copyrighted property of CRS. It cannot be copied, reprinted or used in any way without permission of CRS. If you wish to obtain permission to use our copyrighted materials, please contact CRS at +1-415-561-2100 or info@resource-solutions.org.



1012 Torney Ave. 2nd Floor; San Francisco, CA, USA 94109
www.resource-solutions.org | +1 415-561-2100