

# GREEN-E<sup>®</sup> 201



# POWERING A RENEWABLE FUTURE

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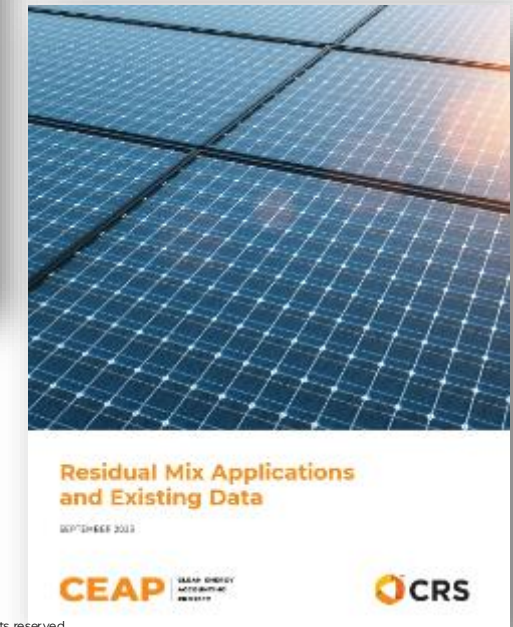
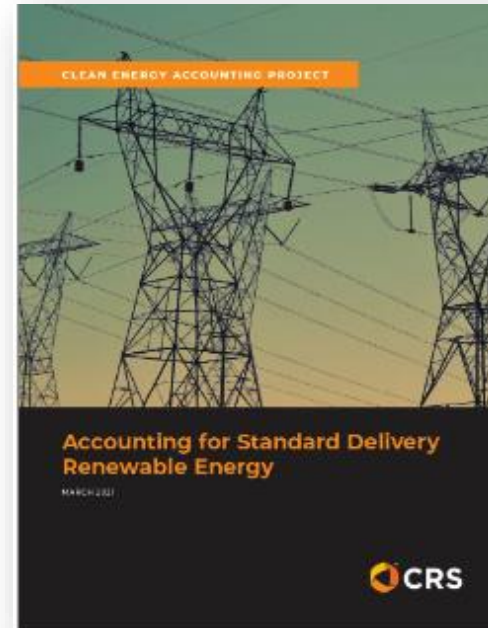


# Introduction.

# About Center for Resource Solutions

Nongovernmental Organization (NGO) creating policy and market solutions to advance sustainable energy since 1997.

- Expert assistance
- Renewable energy and climate policy
  - Clean Energy Accounting Project (CEAP)
- Renewable Energy Markets annual conference
  - REM Asia, Singapore, April 29-30
  - REM US, Denver, September 16-18
- Green-e® certification for suppliers and users of renewable electricity, carbon offsets and renewable fuels in the voluntary market



# Green-e® References and Endorsements



WORLD  
RESOURCES  
INSTITUTE



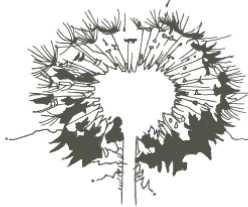
LEED points issued to buildings using Green-e® certified renewable electricity/RECs



GREENHOUSE  
GAS PROTOCOL



SUSTAINABLE  
PURCHASING  
LEADERSHIP  
COUNCIL



INTERNATIONAL  
**LIVING FUTURE**  
INSTITUTE<sup>SM</sup>



BSR<sup>®</sup>



ENERGY-EFFICIENT  
CODES COALITION



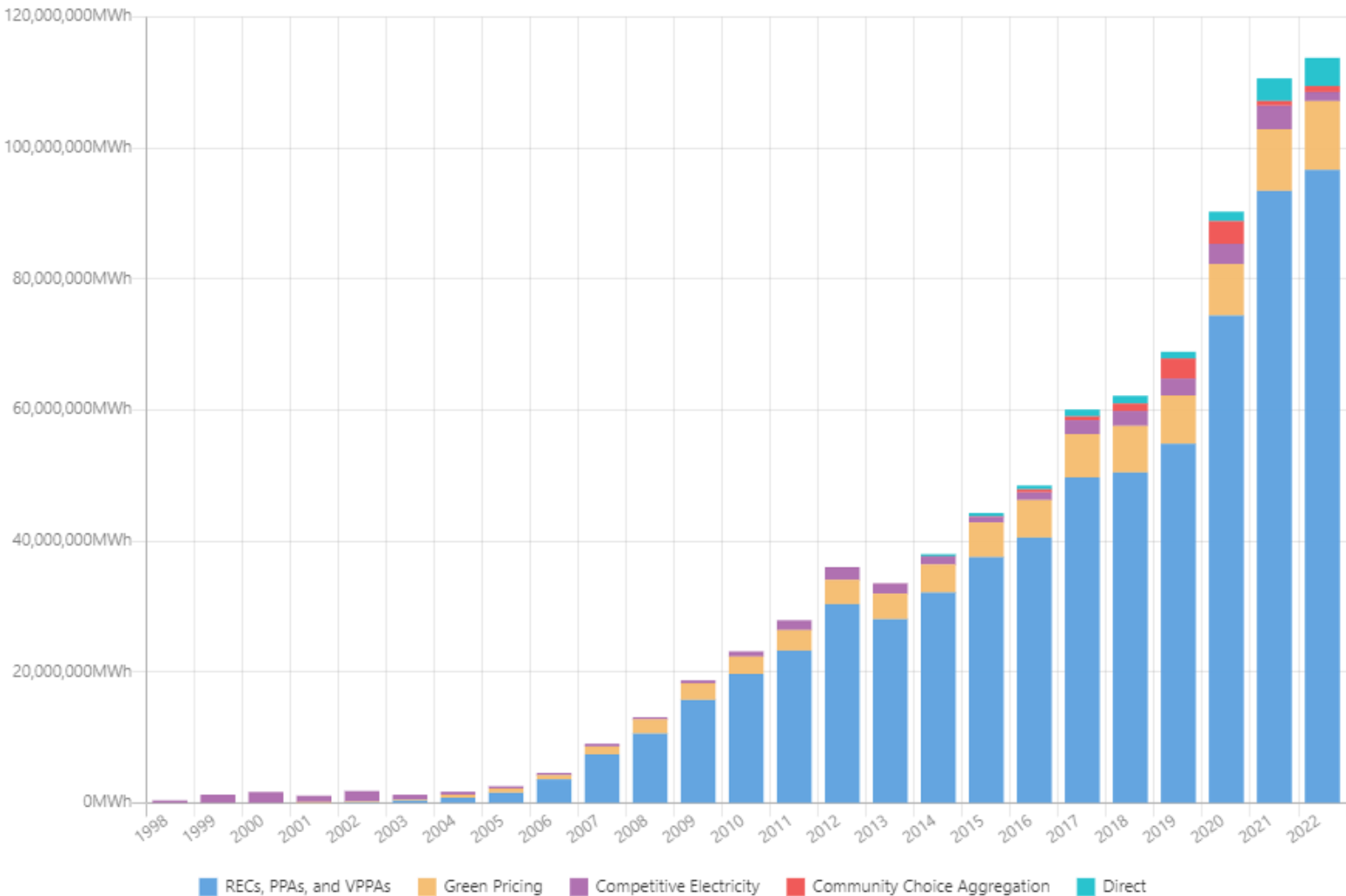
MeetGreen<sup>®</sup>



GLOBAL  
ELECTRONICS  
COUNCIL

# Green-e® Energy Verification Report

## Green-e® Energy Certified Retail Sales by Product Type (MWh)

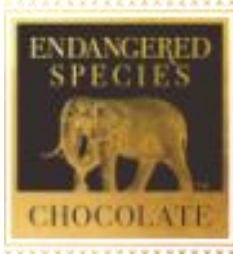


### By the Numbers

- Over 114 million MWh
- 1.3 million retail purchasers, of which 314,000 were businesses
- 26% increase in Direct procurement

# Who Buys Green-e®?

1.3 million retail purchasers buy Green-e® certified renewable energy, including 314,000 businesses, including some brands you may know:



# Who Buys Green-e®?

Among the **314,000 business purchasers** of Green-e® certified renewable energy, are over 100 colleges and universities and **948 companies, institutions, and buildings that buy >10,000 MWh annually**



# Benefits.



# Benefits of Green-e<sup>®</sup> Certification

**Consumer Credibility.** Green-e<sup>®</sup> is the leading 3rd party verification in renewable energy markets.

**Quality Assurance.** Certified renewable energy products meet rigorous environmental, sustainability, and marketing claims standards.

**Risk Reduction.** Protects against double counting and claiming, creating confidence in clean energy purchases.

**Compliance with Sustainability & Reporting Standards.** Green-e<sup>®</sup> helps prequalify businesses for LEED, U.S. EPA's Green Power Partnership (GPP) and WRI's GHG Protocols (among others).

# Benefits of Certification

Can also certify Events, Locations, Datacenters, and EV Fleets/Chargers!

Qualifies buyers for Green-e® Marketplace

- Provides guidance for making credible, FTC and GHG Protocols compliant renewable electricity marketing claims
- Marketing Claims are validated and certified at either the corporate or on-product level
- Over 800 products made with renewable energy display the Green-e® Certification mark
- Participants include Bigelow Tea, Procter & Gamble, Sephora , Kao and Church & Dwight



# 9 out of the Top 10 Utility Green Pricing Programs are Green-e® Participants



NREL's Top Ten Green Power Programs (2022 data):

<https://www.nrel.gov/analysis/assets/pdfs/green-pricing-top-10-2022-data-plus-archives-11-2-2023.pdf>

# Example Green-e® Participants



# Example Green-e® Participants



# CCAs Currently Offering Green-e® Products



# Green-e<sup>®</sup> Energy Overview.

# Example Green-e® Energy REC Chain of Custody



Generator registers on  
third-party REC tracking  
system

Generator submits  
tracking attestation to get  
CRS Listed™

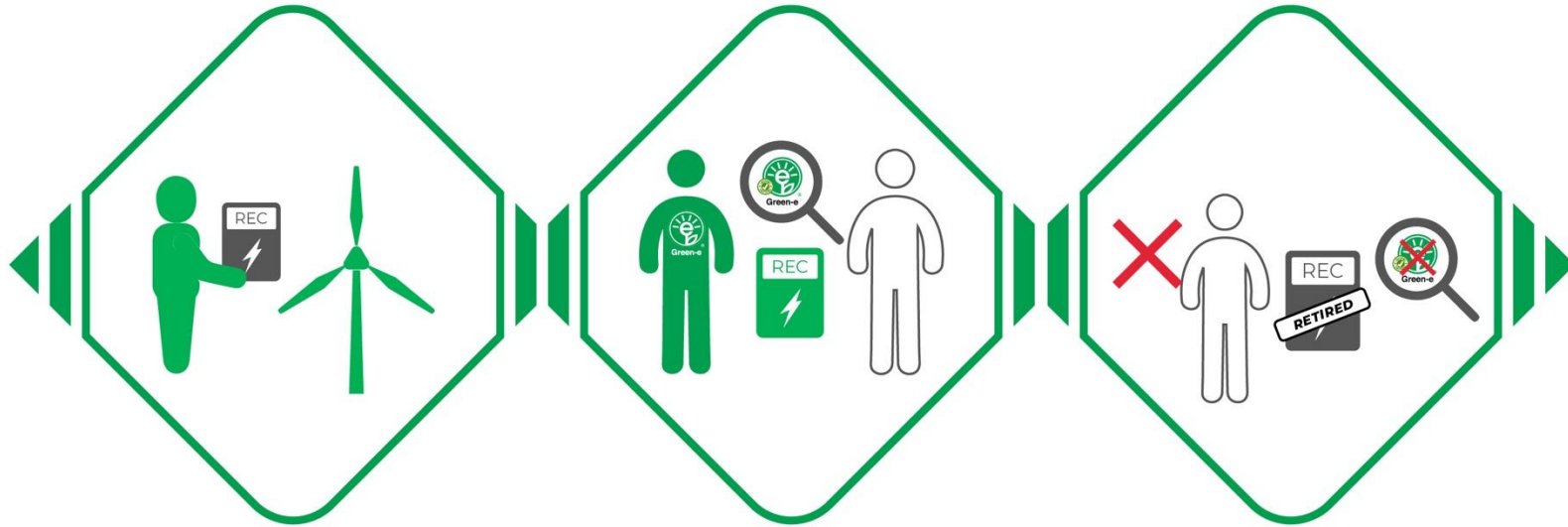
CRS Listed™ generator  
sells RECs to wholesale  
seller

Wholesale seller sells RECs  
to Green-e® certified retail  
seller

Green-e® certified retail  
seller retires RECs on  
behalf of end customer.  
RECs **are** Green-e®  
certified



# Uncertified sellers cannot sell Green-e<sup>®</sup> certified, even if purchasing Green-e<sup>®</sup> certified



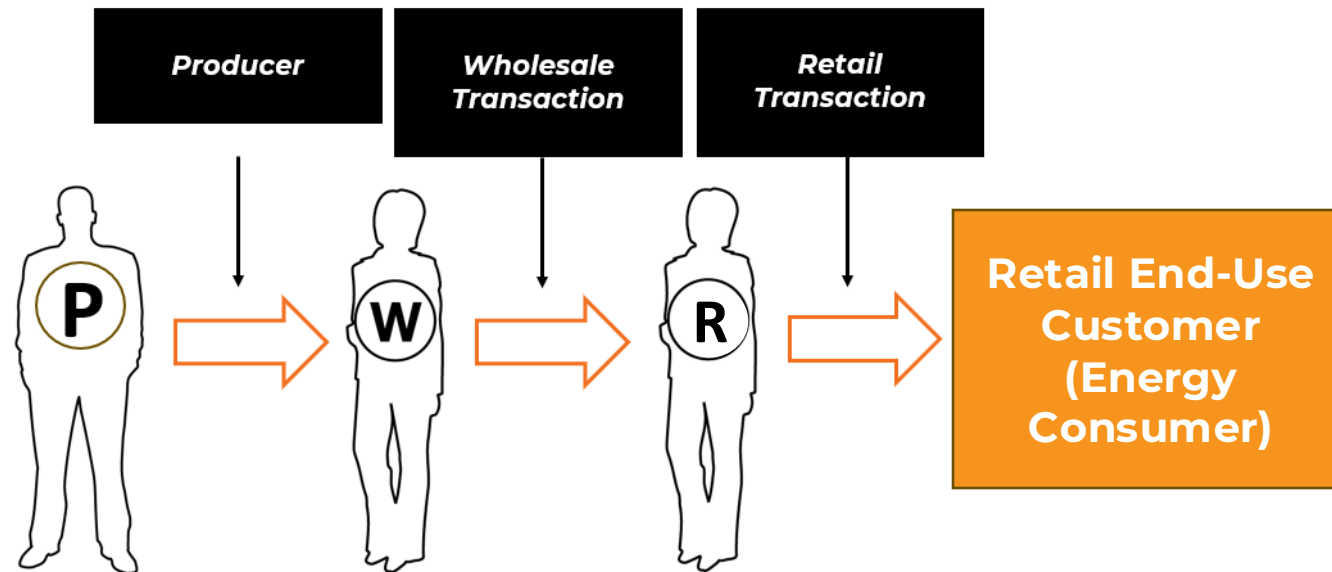
CRS Listed™ generator sells RECs to wholesale seller

Green-e<sup>®</sup> certified wholesale seller sells RECs to uncertified retail seller. RECs **are** Green-e<sup>®</sup> certified.

Uncertified retail seller retires RECs on behalf of customer. RECs **are not** Green-e<sup>®</sup> certified. Seller **cannot** sell RECs as Green-e<sup>®</sup> certified as there was no Green-e<sup>®</sup> audit

# Types of Transactions

When there are multiple parties taking possession of the REC before it is ultimately consumed, transactions to these middle parties in the chain of custody are known in the market as "wholesale transactions". The final sale to the consumer of the credit is known as a "retail transaction".



*Chain-of-Custody*

# Supply Must Meet the Green-e® Standard

- 15-year “New Date”
- Must be surplus to regulation
- No double counting, selling or claiming
- GHG reduction benefits must be included
- State-specific requirements and restrictions
- Vintage requirements



Wind



Solar



Biomass



Low-impact  
Hydropower



Geothermal

6 MONTHS

12 MONTHS

3 MONTHS

# Product Options.

# Certifications for sellers...

- ✓ Utility green power programs
- ✓ Community solar
- ✓ RECs
- ✓ Competitive electricity products
- ✓ Carbon offsets
- ✓ Community choice aggregation
- ✓ Carbon offset natural gas programs
- ✓ Federally eligible

# Certifications for buyers...

- ✓ PPAs (delivered or virtual)
- ✓ On-site power
- ✓ Corporate purchasers
- ✓ Products manufacturing
- ✓ Conferences and trade shows
- ✓ EV charging stations
- ✓ Paper and printers



# Product Type

## Customer Type

- Commercial or Residential

## Resource Mix

- Fixed Mix (Required for Residential)
  - All customers get the same mix of resources (ex: 80% Wind, 20% Solar)
- Variable Mix
  - Up to 100 different resource mixes

## REC Broker

- Does not require ownership of REC in broker's tracking system account
  - For transactions between generators and end-use customers only

# Product Type

## Utility Green Pricing/Competitive Electricity vs REC-only Product

- Utility Green Pricing/Competitive Electricity/CCAs – Bundled product with REC and Electricity sold together
  - Must be sourced and sold within the customer's state, NERC region or ISO Balancing Authority Area
- REC product – Unbundled product where RECs sold separately from electricity
  - Can be sourced nationally in the US and Canada
  - Require customer disclosures around what a REC is and cannot be referred to as “renewable energy”, “green power” or “clean energy”

# Green-e<sup>®</sup> Direct

**For renewable electricity or EACs purchased directly from a renewable electricity generation facility owned by another party or the participant**

- Does not require annual Marketing Compliance Review Audit
- Buyer or seller can participate/certify

## Long-Term Contract Exception

**Can certify contracts for the length of their term, up to 30 years maximum  
(i.e. over the 15-year “New Date”)**

- For renewable electricity/EACs purchased directly from a renewable electricity generation facility owned by another party or the participant
- Contract for supply must be executed within the first year of facility operation



# Tariffs With Long-Term Contract Options (Utility Only)

**The 15-year generator “New Date” requirement may be extended to the tariff commitment length (up to 30 years) if:**

- For products offered to non-residential customers, at least 25% of generation must be committed to customers that sign up for the longest option term in their procurement agreement
- The product must be structured such that every customer enrolled receives renewable electricity from pre-specified eligible facilities that are dedicated to the product; additional resources may be added but none should be removed
- The product contains non-residential customer commitment lengths no shorter than 5 years

# Federal Option

## **Green-e® Energy certified product for Federal Agencies to meet EO 14057**

- Biden administration's EO 14057: Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability
  - Generator must be placed in service on or after October 1, 2021
  - Generator must be in the same grid as where energy is consumed
- Reduces risk to buyers and sellers to ensure supply complies with EO 14057
- No product base fee for existing Green-e® participants

# Program Requirements.

# CRS Listed ≠ Green-e® Certified

WHY CHOOSE GREEN-E® ENERGY CERTIFICATION OVER CRS LISTED™ FACILITIES?	CRS LISTED™ FACILITIES	GREEN-E® ENERGY CERTIFIED RENEWABLE PRODUCTS
<p><b>Confirms all greenhouse gas reduction benefits are included in the RECs</b>            RECs lose carbon attributes in carbon cap-and-trade states/provinces without extra steps required for Green-e® certification to preserve them — learn more at <a href="https://resource-solutions.org/re-fact-sheet/">resource-solutions.org/re-fact-sheet/</a></p>	✗	✓
<p><b>Ensures RECs are voluntary purchases (above-and-beyond business as usual); called regulatory surplus</b>            RECs used to satisfy state-specific renewable energy mandates are required by law. Don't pay extra for something your provider is already required to source!</p>	✗	✓
<p><b>Reduces your reputational risk through third-party verification of REC transactions</b>            Evaluation to avoid double-counting, -selling or -claiming, and verify that you are getting the correct quantity, resource type, and facility location you contracted for</p>	✗	✓
<p><b>Certifies that generation is time-stamped close to the time of your purchase</b>            21-month vintage window, which aligns with leading guidance, such as the GHG Protocol</p>	✗	✓
<p><b>Transparency: clear disclosures and claims review for your auditor/CSR report</b>            Make sure no one will question your accounting or marketing statements and that they align with best practices (ex: CDP, SBTi, FTC Green Guides, etc.)</p>	✗	✓

# CRS Listed

CRS Listed Facilities [New Attestations Under Review](#)

Show **All** entries

Search:

Name of Generation Facility	Tracking System	Tracking System ID Number	Status	Effective Date	Expiration Date	Renewable Resource Type	Facility State	EIA or QF	Facility ID Number	Nameplate Capacity (MW)	First Operational	Repowering Date	End Date of Extended Use
224WB 8me, LLC	ERCOT	2649	Approved - Requires Additional Green-e® Verification	09-01-2023	08-31-2024	Solar	TX	EIA	63343	110	06-23-2023		
225DD 8me LLC	ERCOT	1491	Approved - Requires Additional Green-e® Verification	05-26-2021	05-25-2025	Solar	TX	EIA	61920	250	05-26-2021		
25 Mile Creek	NAR	GEN4676	Approved	12-01-2022	11-30-2024	Wind	OK	EIA	65511	250	10-01-2022		



## CRS Listed™ Tracking Attestation

Is this a new application or a renewal? \*

New Application  Renewal

### Renewal Information

Tracking System \*

NAR

The Tracking System in which the Facility is registered. In states where there is a Renewable Portfolio Standard or goal, facilities must be registered in the state-approved tracking system(s) in order to submit tracking attestations. See [Green-e Approved Tracking Systems](#) for the list of states with corresponding approved tracking systems.

Tracking System ID Number \*

GEN318912

#### Acceptible Syntax for Tracking System ID Numbers

ERCOT: Numeric Only

MIRECS: AGG\_\_\_ or GEN\_\_\_

M-RETS: M\_\_\_

NAR: AGG\_\_\_ or GEN\_\_\_

NC-RETS: EFF\_\_\_ or GEN\_\_\_

NEPOOL-GIS: CLM\_\_\_ or IMP\_\_\_ or MSS\_\_\_ or NON\_\_\_

NYGATS: GEN\_\_\_ or AGG\_\_\_

PJM-GATS: NON\_\_\_ or MSET\_\_\_

WREGIS: W\_\_\_

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Next

# Annual Verification Audit

**Who:** All Green-e Energy<sup>®</sup> Certified sellers or buyers (Participants)

**What:** Audit of Green-e<sup>®</sup> Energy products sales and transactions

**Purpose:** Ensures no double counting and double claiming of RECs  
RECs sourced from qualified newer facilities  
RECS meet carbon accounting and reporting standards

**Platform:** Launching new Verification system for RY2024

# Participant Responsibilities for the Annual Verification Audit Include

GREEN-E <sup>®</sup> Energy Participants	Auditor
Hire CIA/CPA * <a href="http://green-e.org/auditors">green-e.org/auditors</a> *	Complete CRS' <i>Verification Audit Protocol</i> Document * Inspect REC retirements and transfers & match to specific REC sales *
Copy of REC retirement & transfer report from tracking system	
Submit <i>Tracking Attestation</i> for generators to be <b>CRS Listed</b>	
Submit RPS/State Compliance specific materials	
Upload Green-e <sup>®</sup> marketing materials : PPCL, HPCL	



# Verification and Green-e® Resources



[News](#) [Events](#) [Verification Reports](#) [Glossary](#) [FAQ](#) [Get Updates](#)



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[PARTICIPANT PORTAL](#)

[CRS LISTED](#)

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## Green-e Energy Participant Portal

[Skip To: 2023 Verification Materials](#) | [General Verification Process](#) | [Participant Resources](#) | [Sales and Marketing Support](#) | [Documents](#) | [To Know](#)

*Updated March 20, 2024*

### QUICK LINKS

- » [Find Certified Clean Energy and Offsets](#)
- » [CRS Listed Facilities](#)
- » [Residual Mix Tables](#)
- » [Latest News](#)

# Helpful Documents in the Participant Portal

Document	Helpful Information
Green-e® Renewable Energy Standard for Canada and the U.S. (4.3)	<ul style="list-style-type: none"><li>• RPS State Specific Requirements</li><li>• Renewable Resource Eligibility</li><li>• Boundary Restrictions</li></ul>
Green-e® Energy Code of Conduct (2.3)	<ul style="list-style-type: none"><li>• Timeline &amp; Deadlines</li><li>• Marketing Materials</li><li>• Verification &amp; MCR details</li></ul>
Green-e® Purchaser Certificate	<ul style="list-style-type: none"><li>• Proof of certification for REC or electricity</li></ul>

# Annual Marketing Compliance Review

**Who:** All Green-e<sup>®</sup> Certified Participants except Direct products

**What:** Review marketing materials; No auditor required

**Purpose:** Ensures participants are marketing product correctly and following the Green-e<sup>®</sup> Energy Code of Conduct.

**Platform:** Submittable

# Green-e<sup>®</sup> Energy Marketing Materials

## SAMPLE Price, Terms, and Conditions

[Product Name] is Green-e Energy certified, and meets the environmental and consumer-protection requirements of the nonprofit Center for Resource Solutions at [www.green-e.org](http://www.green-e.org).



Company: [Company Name] (a subsidiary of [Company Name])

Whom should I contact for more information? [Company contact information, including Website, E-mail and Mailing Address]

What is the contract length? [Duration of the contract (in months); if less than 12 months, this must be specified here]

How much will [product name] cost? [Identify the cost of the certified product]

### [YEAR HISTORICAL/YEAR PROSPECTIVE] PRODUCT CONTENT LABEL <sup>1</sup>

[PRODUCT NAME] is sold in blocks of [###] kilowatt-hours (kWh) or matches X% of your electricity usage. In [year], [Product Name] [was/will be] made up of the following new renewable resources averaged annually.

Green-e Energy Certified New <sup>2</sup> Renewables in [PRODUCT NAME] [YEAR]		Generation Location
-Biomass	%	
-Geothermal	%	
-Low impact hydroelectric <sup>3</sup>	%	
-Solar	%	
-Wind	%	
<b>Total Green-e Energy Certified New Renewables</b>	<b>%</b>	

1. [For PPCL] These figures reflect the renewables that we have contracted to provide. Actual figures may vary according to resource availability. We will annually report to you before August 1 of next year in the form of a Historical Product Content Label the actual resource mix of the electricity you purchased. [or, for HPCL: These figures reflect the power delivered to [Product name]'s customers in [year].]

# Green-e® Timeline and Deadlines

<b>MONTH</b>	<b>WEEK</b>	<b>DEADLINE</b>
<b>February</b>	<b>3</b>	<b>UNAUDITED VERIFICATION AND PRODUCT MIX CHANGE DUE</b>
<b>May</b>	<b>1</b>	<b>REQUEST FOR VERIFICATION SUBMISSIONS EXTENSIONS</b>
<b>June</b>	<b>1</b>	<b>VERIFICATION IS DUE</b>
<b>August</b>	<b>4</b>	<b>MARKETING COMPLIANCE REVIEW IS DUE</b>

# Contact.

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**[www.resource-solutions.org](http://www.resource-solutions.org)**

**[www.green-e.org](http://www.green-e.org)**

Q & A