

Using REC Tracking Systems for State Compliance with the Clean Power Plan

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About Center for Resource Solutions

A nonprofit organization creating policy and market solutions to advance sustainable energy since 1997.

- Expert assistance
- Renewable energy and climate policy
- Renewable Energy Markets Conference
- Green-e certification for suppliers and users of renewable energy and carbon offsets



Green-e

Renewable Energy for CPP Compliance

- “ ... a state could take into account all of the CO₂ emission reductions from renewable energy measures implemented by the state, **whether they occur in the state or in other states**. This proposed approach for RE acknowledges the existence of **renewable energy certificates (REC) that allow for interstate trading of RE attributes ...**”

Key Roles of REC Tracking Systems

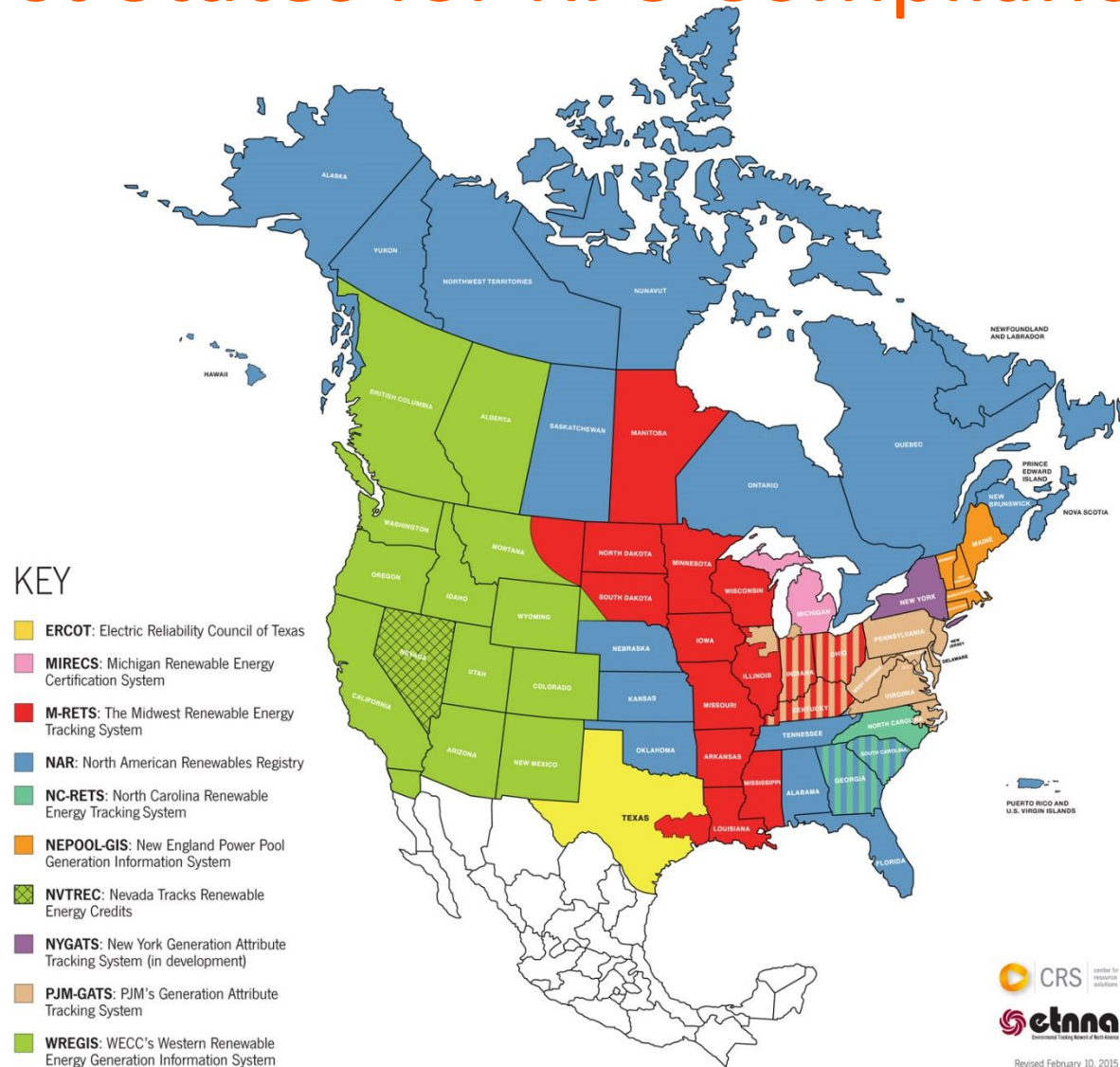
- Documenting renewable electricity production
- Identifying renewable energy generators and generation eligible for CPP compliance by state
- Verifying use of RE for compliance with a specific state plan
- Assuring no double counting between states for CPP compliance
- Facilitating inter-state trading of RE for CPP

RPS Important Tool for States to Comply with CPP



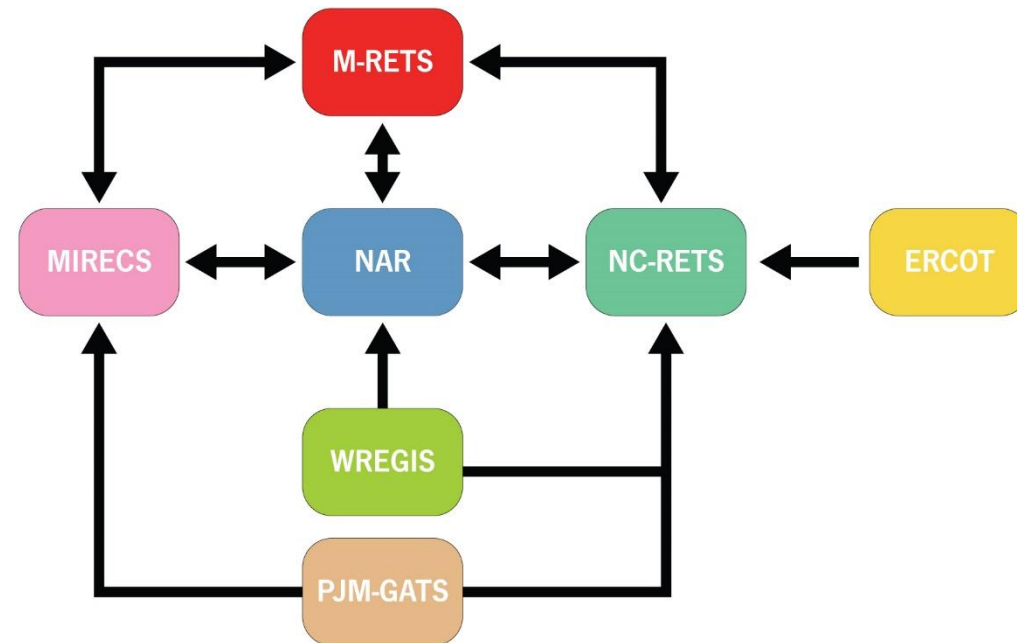
Source: Database of State Incentives for Renewables and Efficiency (DSIRE) available at http://dsireusa.org/documents/summarymaps/RPS_map.pdf.

Existing Tracking Systems Used by Most States for RPS Compliance



Source: Environmental Tracking Network of North America (ETNNA), available at <http://www.etnna.org/learn.html>. M-RETS territory indicated above effective April 2015.

RE Trading and Registry Transfers



RPS States, DC and Puerto Rico	Allow RPS Imports From
4 States Allow No Imports	
2 States Allow Imports From	1 State
1 State Allows Imports From	2 States
2 States Allow Imports From	3 States
3 States Allow Imports From	4 States
1 State Allows Imports From	6 States
2 States Allow Imports From	7 States
1 State Allows Imports From	8 States
15 States Allow Imports From	9+ States

Source: North American Renewables Registry (<http://www.narecs.com>) and The Midwest Renewable Energy Tracking System (M-RETS; <http://www.mrets.org/resources/frequently-asked-questions/>). Data accessed 2/10/15.

Tracking Systems Data Reflects Regulator Needs

Certificate Data	Static Data
Certificate Type	State or Province
Tracking System ID	Country
Project Type	NERC Region
Project Name	eGrid Sub-Region
Certificate Vintage	Commenced Operation Date
Certificate Serial Numbers	Fuel Type/Energy Source
Quantity of Certificates	Nameplate Capacity
Meter Data From:	Reporting Entity Type
Meter Data To:	Reporting Entity Contact Company or Organization
Name	Utility to Which Facility is Interconnected
Certificate Creation Date	Repowered Indicator (Y/N)
Utility to Which Project is Connected	Repowered Amount
	Repower Date (required if repowered indicator = Y)
	Qualified Facility (Y/N)
	State(s) RPS Eligibility

Source: Adapted from “REC Definitions and Tracking Mechanisms Used By State RPS Programs,” by Jan Hamrin for the Clean Energy States Alliance, June 2014. Available at <http://bit.ly/1AW5xMF>.

State Verification and Reporting

Example Certificate Retirement Report

Account Holder	Sub-Account	Retirement Types	Facility ID	Generating Facility	Fuel Type	Vintage Year/ Month	Certificate Serial Numbers	Quantity	State X Eligible	State Y Eligible	State Z Eligible	Green-e Energy Eligible
ACME	State X Renewable Energy Compliance	RPS	E9823	Slainte Wind Project - Dartmouth Ridge	Wind	11/2013	108-FR-12-3654-65987-1 to 98654	98,654	Yes	No	Yes	Yes
ACME	State X Renewable Energy Compliance	RPS	E9823	Slainte Wind Project - Dartmouth Ridge	Wind	11/2013	365-EW-36-4527-45871-1 to 87457	87,457	Yes	No	Yes	Yes
ACME	State X Renewable Energy Compliance	RPS	R2165	Kiba Solar - Blackrock Solar Energy Project	Solar	10/2013	656-GF-36-4712-56471-1 to 200	200	Yes	No	Yes	Yes
ACME	State X Renewable Energy Compliance	RPS	H9032	Fork Union County - Damascus Renewable Energy Center	Biomass	11/2013	659-LA-85-2198-34985-1 to 69832	69,832	Yes	No	Yes	Yes
ACME	State X Renewable Energy Compliance	RPS	J8723	Sol Solutions - Ridgefield Solar Farm	Solar	9/2013	879-AQ-14-3654-45698-1 to 20	20	Yes	No	Yes	Yes

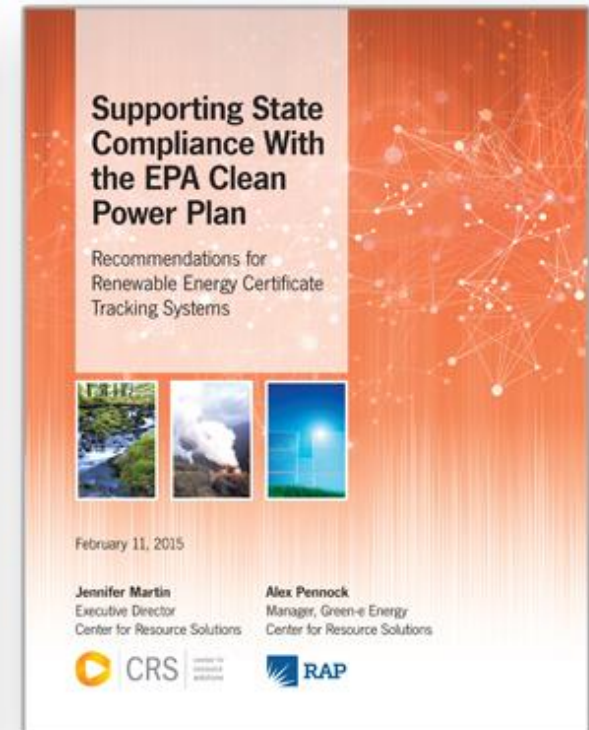
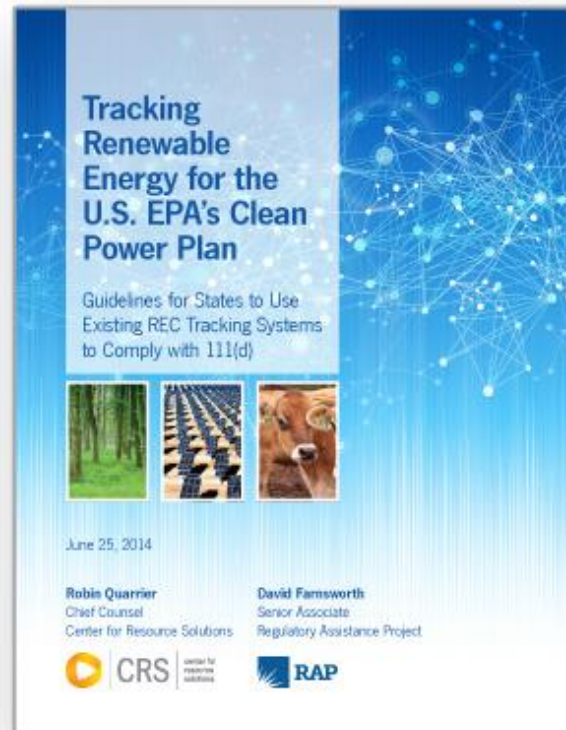
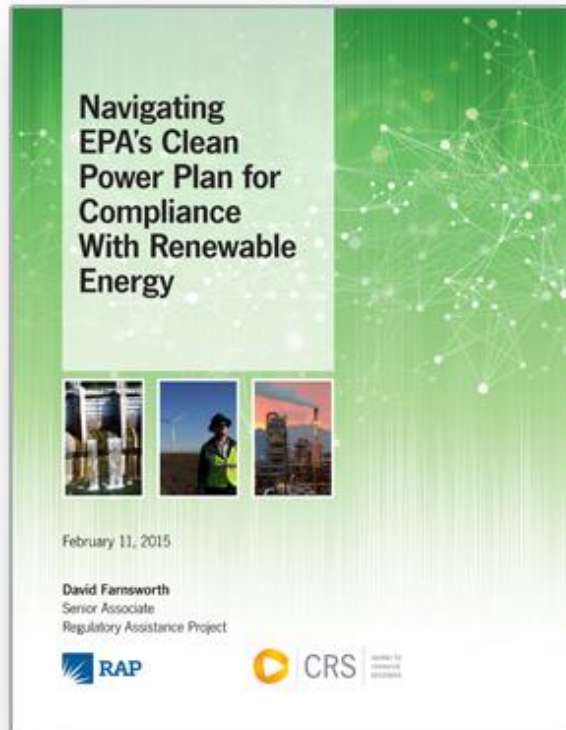
Retirement reasons/subaccounts can be expanded to ID generation that is used for CPP by obligated entities.

*It is critical for State Plans
involving renewable energy to be
clear that REC **retirement** (not
eligibility) is needed for CPP
Compliance.*

Next Steps

- Tracking system administrators and states collaborate to:
 - Add new certificate data and reporting functionality to support states/regions CPP needs
 - Augment information collected during certificate retirement
 - Create or modify administrative access for state regulators
 - Expand certificate import/export functionality to match state policies for CPP

Resources



Available at: <http://www.resource-solutions.org/publications.php>

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