



**NEW YORK**  
STATE OF  
OPPORTUNITY.

**NYSERDA**



New York Generation Attribute Tracking System | June 25, 2019

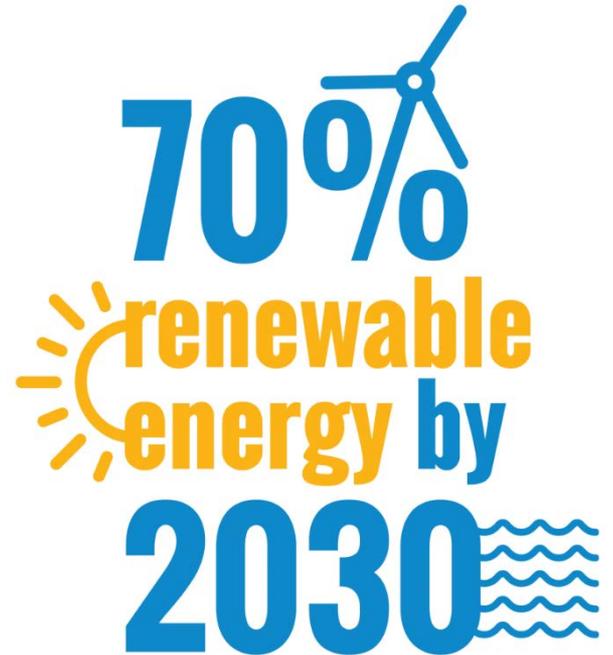
# **NYGATS Stakeholder Meeting**

# Agenda

- Introductions
- New York Generation Attribute Tracking System Updates
- 2018 Settlement Timeline
- APX update on NYGATS registry administration
- Stakeholder feedback and wrap-up

# New York State Climate Leadership and Community Protection Act of 2019

- > Most aggressive climate policy enacted by a major global economy
- > Charts Path to a Carbon Neutral Economy by 2050
- > 100% Clean Electricity by 2040, 70% Renewable Energy by 2030
- > Codifies New York's Clean Energy Targets into Law
- > Establishes the first Statutory Climate Action Council
- > Landmark Commitments to Environmental Justice and Just Transition



# CLCPA by the Numbers, Targets Codified into Law

**Carbon neutral economy by 2050, mandating at least an 85 percent reduction in emissions below 1990 levels**

**40 percent reduction in emissions by 2030**

**100 percent clean electricity by 2040**

**70 percent renewable electricity by 2030**

**9,000 MW of offshore wind by 2035**

**6,000 MW of distributed solar by 2025**

**3,000 MW of energy storage by 2030**

**185 TBTU energy savings**

**100% clean  
carbon-free electricity  
by 2040**

*most aggressive in the nation*

# NYGATS History



## Today's Updates:

- Demonstration of Clean Energy Standard (CES) compliance – *Mark Gundrum*
- Value of Distributed Energy Resources (VDER) project RECs – *Jennifer Phelps*
- Renewable Energy Standard (RES) Tier 1 certification – *Marci Brunner*
- Environmental Disclosure Program (EDP) – *Peter Sheehan*
- CES Progress Reporting – *Marci Brunner*
- Community Choice Aggregation (CCA) renewable products – *Brad Tito*

# CES Compliance Functionality



# CES Compliance Module

- New module on the home page in LSE Accounts
- Shows running total of load for the RES and ZEC compliance periods
- Monitor RES and ZEC obligations and compliance activity

## LSE Tier 1 REC Preliminary Compliance Report

Compliance Year (January-December)	LSE Total Load (MWh) through January 2019	Tier 1 REC Obligation %	Tier 1 REC Obligation	Tier 1 RECs Banked	Tier 1 RECs Active	Tier 1 RECs EDP	Tier 1 REC Balance	ACP Price	Potential ACP	Total Charge
2019	4,009	0.780	31	0	0	0	(31)	\$24.67		\$764.77
2018 - Final	668,759	0.150	1,003	0	56	183	(820)	\$18.71		\$15,342.20
2017 - Final	703,770	0.035	246	0	0	246	0	\$23.28		\$0.00

Note: There is a 5-month lag between when the load occurs and when it is available to NYGATS. This lag is part of the NYISO settlement process. For example, the load data from January will be available in NYGATS in June.

## LSE ZEC Compliance Summary

Compliance Year (April-March)	LSE Total Load (MWh) through January 2019	LSE Load Share	LSE ZEC Obligation	ZECs	ZEC Balance	ZEC Price	ZEC Total Charge	Data Source
2019	0	0.00000%	0	0	0	\$19.5900	\$0.00	Calculated
2018	496,133	0.37218%	98,397	0	(98,397)	\$17.4800	\$1,719,979.56	Calculated
2017 - Final	705,761	0.45868%	126,679	126,679	0	\$17.5394	\$0.00	Snapshot

Note: There is a 5-month lag between when the load occurs and when it is available to NYGATS. This lag is part of the NYISO settlement process. For example, the load data from January will be available in NYGATS in June.

# RES Retirement Reason

- LSE Accounts for EDP transfers
- Trackable field to identify RES retirements

EDP Subaccount

Select a EDP subaccount 2018

Utility Green Pricing Product: Certification:  Select a Certification   
Additional Details:

Competitive Green Power Product: Certification:  Select a Certification   
Additional Details:

RES Compliance: Additional Details:

Community Choice Aggregation: Certification:  Select a Certification   
Municipality:  Name of the CCA jurisdiction (e.g. Town of [Name] or City of [Name]).  
RECs may be attributed to one local government only.

Other: Certification:  Select a Certification   
Additional Details:

# LSE Compliance Reporting

## LSE Obligation and Compliance Verification

Compliance Year

Total Load (MWh):	1,120,124
Tier 1 REC Obligation (%):	0.035
Tier 1 REC Obligation:	392
Vintage 2015 Tier 1 RECs Retired:	0
Vintage 2016 Tier 1 RECs Retired:	0
Vintage 2017 Tier 1 RECs Retired:	350
Total Tier 1 RECs Retired - EDP:	350
Vintage 2015 Active Tier 1 REC Expiring:	0
Current Year Banked Tier 1 Certificates:	0
Tier 1 REC Balance:	-42
ACP Invoice:	<a href="#">Invoice generated on 2018-07-23 22:41</a>
ACPs made:	42
Obligation/Compliance Acknowledgement Status:	Accepted by  on 2018-08-23 19:34GMT

- In LSE Accounts
- View summary of compliance activity
- Submit RES compliance filing
- Record of compliance activity is maintained
- Viewable by NYSERDA and DPS

# NYSERDA Tier 1 REC Sales

- Interface in NYGATS for LSEs to order Tier 1 RECs from NYSERDA
- Functions in accordance with CES Final Phase 2 Implementation Plan

## Order Tier 1 RECs - 2019 Q1

Compliance Year (January-December)	LSE Total Load (MWh) through January 2019	Tier 1 Obligation %	Tier 1 REC Obligation	Tier 1 RECs Banked	Tier 1 RECs Active	Tier 1 RECs EDP	Tier 1 REC Balance
2019	4,009	0.78%	31	0	0	0	-31

Vintage Year	Right of First Refusal Tier 1 RECs Available	NYSERDA Tier 1 REC Price	Tier 1 REC Order Quantity	Order Cost	Allocated Tier 1 RECs	Actual Cost
2018	66	\$17.01	0	\$0.00	0	\$0.00
2019	156	\$22.43	0	\$0.00	0	\$0.00
		Total	0	\$0.00	0	\$0.00

Order Status: No order entered



NYSERDA

# NYGATS and the CES

- Available Non-NYSERDA Tier 1 RECs can be posted to the NYGATS Bulletin Board
- Publicly available for Buyers and Sellers

## Bulletin Board Buyer Listings

[CSV](#) [Excel](#)

Requestor	Contact	Phone	Email	Quantity	Price	Comments	Timestamp
New York Municipal Power Agency	Ken Podolny	518-465-9313	kp@readlaniado.com	5000		interested in procuring 5,000+ Vintage 2017-19 RECs, both Tier 1 eligible and otherwise.	2019-05-06 16:40:55Z
New York Power Authority	Thomas Doherty	9142873760	thomas.doherty@nypa.gov	160000		The New York Power Authority (NYPA) invites you to submit a proposal for NYPA's voluntary purchase of Renewable Energy Credits (also known as Environmental Attributes) (Attributes or RECs) derived from wind farms located in the State of New York, for resale and transfer to its customers. NYPA is requesting bids for up to 160,000 MWh of RECs over the calendar-year 2018-2019 Vintage periods. Product types, quantities, and terms requested are shown in the RFP event posted separately on the Ariba platform. Participation requires registration and onboarding of the organization on Ariba. Please contact NYPA for more information and assistance.	2019-05-13 19:41:48Z
NOCO Electric LLC	Joe DePrima	7166141309	jdeprima@noco.com	568		NOCO looking to purchase 2018 Tier-1 RECs to meet RES/CES compliance obligations.	2019-05-30 13:30:33Z

# VDER Project Registration



# VDER Project Registration

NEW YORK STATE OF OPPORTUNITY. New York Generation Attribute Tracking System

Welcome, m

## New Project Registration

Project Type

Project Type: \*+  Generating Unit Project  VDER  Aggregated Project

Active Sub-Account Selection: \*

ID, Name and Location Information

NYISO Generator:

NYISO Gen ID:

Plant Name: \*

Unit Name: \*

Street Address1: \*

- New project type (VDR)
- Available in all account types
  - Interconnecting utility
  - Customers declining “E”
- Reduced number of registration fields to complete
- SIR # required
- Many fields set with default values (e.g. NERC Region = NPCC)

# VDER Project Registration – Onsite Owner

Project Class

Control Area Operator for Project: \*+

Utility to which Project is interconnected: \*

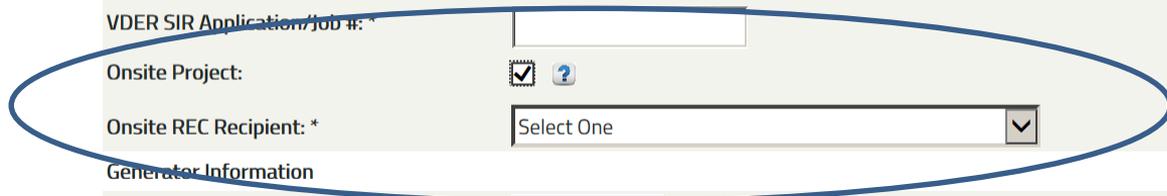
VDER SIR Application/Job #: \*

Onsite Project:  ?

Onsite REC Recipient: \*

Generator Information

In-Service Date: \*  (format: MM/DD/YYYY)



- New project type (ONS)
- Available in all account types
- As per 3/19/2017 PSC VDER Order
  - For onsite VDER projects where the utility has rights to the RECs from exported generation and the onsite owner desires the RECs from generation consumed on-site

# VDER Project Registration – Onsite Owner

VDER Onsite is only for projects where RECs are split between the interconnecting LSE and the project owner

1. Interconnecting LSE registers VDER project, VDR project created in LSE Account
2. Review of VDR project registration, VDR project approved
3. ONS project created in project owner's NYGATS Account
4. Interconnecting LSE loads meter data for exported generation from VDER project
5. Feasibility check 1 is run on VDR meter data
6. Passes feasibility, exported generation RECs issued in LSE's NYGATS Account
7. Onsite owner loads meter data for onsite consumption from VDER project
8. Feasibility check 2 is run on (VDR meter data) + (ONS meter data)
9. Passes feasibility, onsite consumption RECs issued in onsite owner's NYGATS Account

# VDER Project Registration – LSE Accounts

**New Generator/Project Registration**

Apply for Tier 1 Eligibility:  (Select to re-direct to Tier 1 Application after submitting project)

Fuel Type Selected: Solar

State/Provincial/Voluntary Eligibilities:

Tier 1:  Yes  No

Tier 1 Percent Eligible:  (format: x.xx)

ZEC:  Yes  No

LIHI Certified:  Yes  No

Verification/Certification #:

\* Required Field

Back
Save
Submit for Approval
Cancel

## In LSE Accounts Only

- Tier 1 application integrated into project registration
- Project registration and Tier 1 certification a one-step process
- Validated using DPS Public SIR Inventory Reporting

# RES Tier 1 Certification



# RES Tier 1 Eligibility – Certification Process

- NYGATS is the platform for generators to apply for eligibility and for NYSERDA and DPS review and determination
- For Operational Projects, if approved, eligible percentage of certificates get Tier 1 flag
  - Tier 1 eligibility is indicated on RECs issued after approval of Tier 1 application
- Provisional Certification -- non-operational projects - pre-requisite for participation in RES Procurements
- Public reports available on RES Tier 1 Operational and Provisional Certification

## Public

Active Projects

Energy Import Projects

Active Accounts

Seller Listings

Buyer Listings

Certificate Statistics Monthly

Certificate Statistics Annual

Operational Eligibility

Provisional Eligibility

Import and System Fuel Mixes

Import and System Mix Emissions

EDP Label

# NYGATS Public Reports

Operational Eligibility												
Account Holder Company Name	NYGATS ID	Project Name	City / State	Control Area Operator	Fuel Type	Vintage Type	Nameplate Capacity	Eligibility	Initial Vintage	Application Status	Date Submitted	Date of NYSERDA ruling
<a href="#">GreenLogic LLC</a>	GEN33746	Deer Park F.I.T. - PC Richard & Son Long Island Corp	Deer Park, NY	NYISO	Solar	New	0.315	Tier 1	01/2017	Approved	04/04/2017	04/10/2017
<a href="#">GreenLogic LLC</a>	GEN33757	Finish Line Technologies, INC. - Finish Line Technologies, INC.	Hauppauge, NY	NYISO	Solar	New	0.315	Tier 1	01/2017	Approved	04/04/2017	04/10/2017

Provisional Eligibility						
Control Area Operator	Fuel Type	V... Typ	Eligibility	Count of Projects	Nameplate Capacity	
NYISO	Adulterated Biomass - Renewable	New	Tier 1	1	21	
NYISO	Biogas - Anaerobic Digestion	New	Tier 1	1	2	
PJM	Biogas - Landfill Gas	New	Tier 1	3	10.525	
NYISO	Fuel Cells - Non-Renewable	New	Tier 1	3	15.24	
NYISO	Hydroelectric	Existi...	Tier 1	2	13.6	
NYISO	Solar	New	Tier 1	279	12683.97	

# Quick Stats on Certification

NYSERDA has 30 days to either grant or deny a PSoQ or SoQ.

Average time to determination = 4 days

340 Provisionally Certified Projects

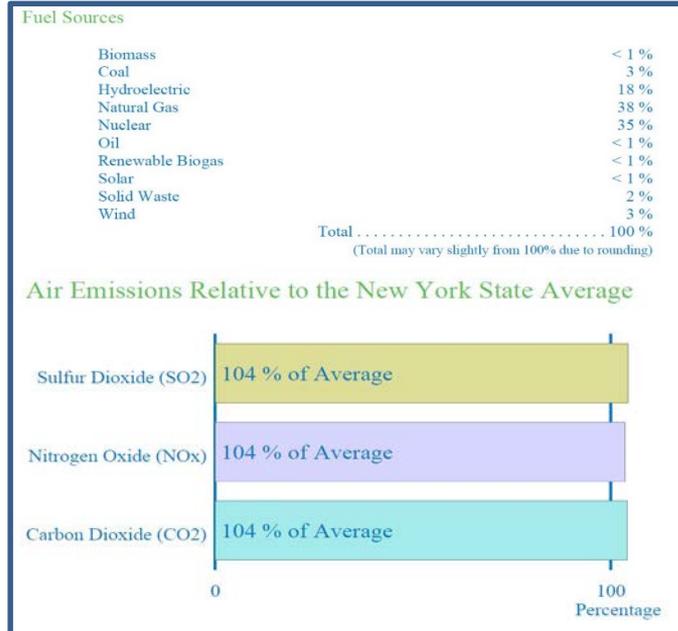
200 Operationally Certified Projects

Review the Eligibility Guidelines prior to submitting an Operational or Provisional Certification application

<https://www.nyserda.ny.gov/-/media/Files/Programs/Clean-Energy-Standard/Eligibility-Certification-Guidelines.pdf>



# Environmental Disclosure (EDP)



# Updates and Mechanics

- All RECs must be in the EDP subaccount by June 30 to be included in the EDP label
  - This includes any Tier 1 RECs transferred for RES compliance
- Only bundled (attributes + energy) RECs are included in EDP
  - Nationally-sourced REC-only imports are **not** included in the label
  - EDP eligibility can be confirmed on the REC Transfer Acceptance screen

Pending/Scheduled									
Project Name	Fuel Type	Vintage	Quantity	Status	Initiation Date	EDP Eligible	Tier 1	LIHI Certified	Accept Reject
Test Project - Test project Hydroelectric		01/2019		1 Pending	06/24/2019	Yes	No	No	Accept Reject

- Final LSE load numbers for the calendar year are available from the NYISO in May
  - Available in NYGATS by May 15
- LSEs have between May 15 and June 30 to ensure they have sufficient RECs within the EDP subaccount to backup renewable claims
- Non-Tier 1 RECs purchased by NYSERDA under the former RPS program are allocated to eligible LSE EDP subaccounts at settlement, prior to label creation

# Updates and Mechanics (cont'd)

- Understanding and calculating values contained in EDP label
  - Get the total load figure from the “*EDP Label*” report within NYGATS (this is within the “*Account Holder*” reports in LSE Accounts)
  - Run the “*Import and System Mix Emissions*” report from the Public reports section and note the pollutant emission values (lbs/MWh) from *Residual Mix* Type within the *NYISO* Control Area
  - Multiply the lbs/MWh x Non-Renewable Certificates value – from the *EDP Label* report and divide by Total Load. Values will match label.

- EDP labels located at:

<http://www3.dps.ny.gov/W/PSCWeb.nsf/All/80AF99D08DD828EA85258228005172A9?OpenDocument> (2000 – 2015)

[https://nygats.ny.gov/ng/Report/getdto\\_view\\_Report\\_PublicEDPLabel](https://nygats.ny.gov/ng/Report/getdto_view_Report_PublicEDPLabel) (2016, 2017, future)

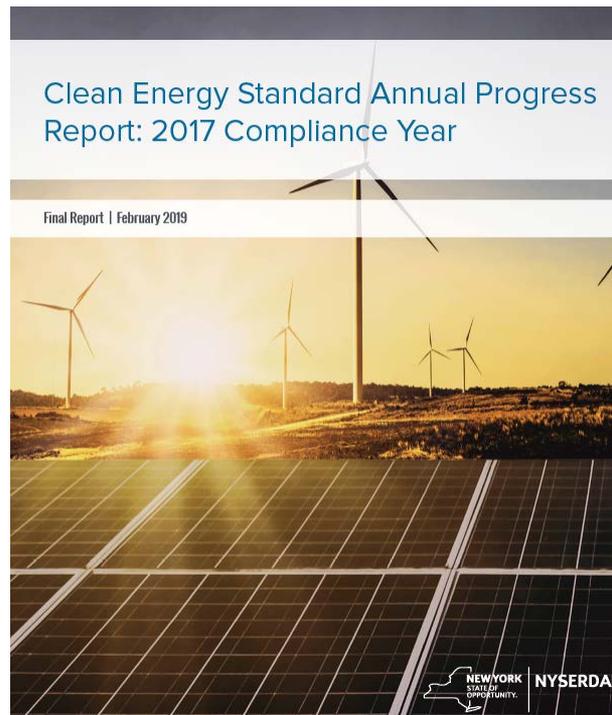


# CES Progress Reporting



# CES Annual Progress Report: 2017 Compliance Year

- Published February 2019
- NYGATS data used throughout
- Available at <https://www.nyserda.ny.gov/-/media/Files/Publications/Energy-Analysis/RPS/2019-Clean-Energy-Standard-Annual-Progress-Report.pdf>



# NYGATS data in 2017 Report

Figure 4. New York System Mix, 2017

Source: NYGATS

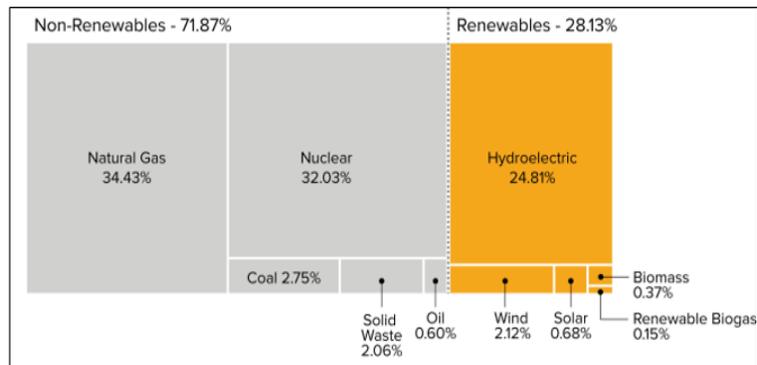


Table 8. Voluntary Activity in NYGATS

Source: NYGATS

	2017 RECs
Total Voluntary Activity in LSE EDP Subaccounts	4,019,475
Corporate or Individual Retirements	188,279
Customer-sited DER Retirements	1,114,207
Non-Tier 1 RECs Banked	2,601,389

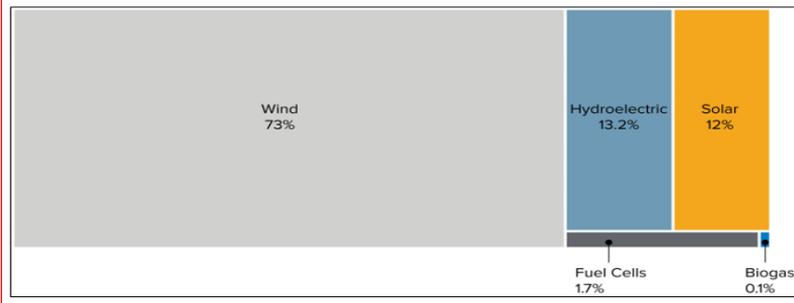
Table 2. New York System Mix Renewable Energy by Technology

Source: NYGATS

Fuel Type	2014 MWhs	2017 MWhs	MWh change
Biomass	609,293	561,816	-47,477
Hydroelectric	35,834,762	37,995,574	2,160,812
Renewable Biogas	394,314	236,970	-157,344
Solar	681,610	1,045,489	363,879
Wind	3,775,684	3,242,868	-532,816
<b>Total</b>	<b>41,295,663</b>	<b>43,082,717</b>	<b>1,787,054</b>

Figure 7. 2017 Tier 1 RECs by Technology

Source: NYGATS



# NYGATS Public Reports

- Certificate Statistics – updated in real-time
- Import and System Fuel Mixes - updated at settlement
- APX working on enhancements to public reports for more transparency in CES Progress Reporting

# CCA Renewable Products



# CCA Retirement Reason

- In NYGATS LSE Accounts for EDP transfers
- Trackable field to identify CCA retirements by jurisdiction

EDP Subaccount

Select a EDP subaccount 2018

Utility Green Pricing Product: Certification:   
Additional Details:

Competitive Green Power Product: Certification:   
Additional Details:

RES Compliance: Additional Details:

Community Choice Aggregation: Certification\*:   
Municipality:  Name of the CCA jurisdiction (e.g. Town of [Name] or City of [Name]).  
RECs may be attributed to one local government only.

Other: Certification:   
Additional Details:



# CEC Requirements for the CCA Action

To earn credit for the CCA action under NYSERDA's Clean Energy Communities (CEC) Program, the municipality must submit the following documentation:

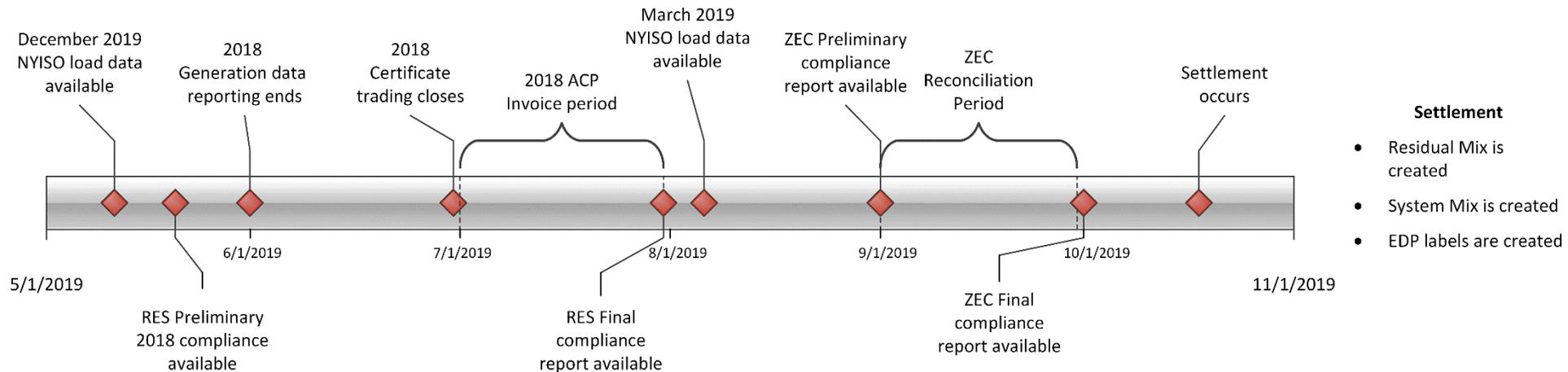
- The adopted legislation authorizing the municipality's participation in an opt-out CCA program.
- An executed electric service agreement between the applying jurisdiction and an Energy Services Company (ESCO) to supply electricity to participating customers on an opt-out basis that is a default 100% renewable clean energy product mix.
  - The agreement should provide that the ESCO will retire RECs on behalf of the Municipality in a NYGATS Account (with reports on such retirements to the Municipality) in a manner that is compliant with rules of the Environmental Disclosure Program.
  - The electrical energy associated with the RECs must be consumed at retail in New York State.

# Questions?

# 2018 Settlement Timeline



# 2018 NYGATS Settlement



# Registry Administration Updates



# NYGATS Help Knowledge base

**NEW YORK STATE OF OPPORTUNITY.** New York Generation Attribute Tracking System

Home Reports Registry Help

**Login**

Username

Password

Remember Username

Login  
[Forgot password?](#)  
[Register for NYGATS](#)

**Message Notification - last 30 days**

Total Messages 0

Message Type	Message	Receive Date
No Records!		

[View more messages...](#)

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**Help**

**Help**

register a project

**Top results**

- Do I need to register a provisional project before registering an operational project?
- Registering Provisional Projects in NYGATS
- Registering NYISO Projects in NYGATS
- [Registering Aggregated Projects in NYGATS](#)
- Registering Import Projects in NYGATS
- Registering Operational Non NYISO Projects (e.g. Distributed Generation Projects)
- NYGATS Introduction
- NYISO Generation Data Reporting
- Should project Nameplate Capacity be registered in AC or DC?

zendesk [Leave us a message](#)

# Certificate Imports and Exports

## Facilitating Bundled and Unbundled Transactions

- Bundled = a transaction of Energy and Attributes; requires the schedule and physical flow of energy into (or out of) New York Control Area
- Unbundled = a transaction of Attributes only (aka “Certificate-Only” transaction)

## Current Direct Linkage

- PJM – Bundled and Unbundled imports into NYGATS only
- Export function provided, but not linked to PJM-GATS
- NAR – Bundled and Unbundled imports into NYGATS; Unbundled exports
- GIS – Bundled exports out of NYGATS

## Improvements/Growth of Connectivity

- GIS – Automation of bundled and unbundled imports into NYGATS
- PJM – Bundled and Unbundled exports out of NYGATS
- Continued growth in the voluntary markets will drive additional linkage to other registries for unbundled transactions

# Questions?

# Thank you!

<https://www.nyserda.ny.gov/NYGATS>

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