



NYGATS Stakeholder Meeting

November 16th, 2015

Overview

Background

- 2012 – Governor Cuomo signs into law Bill #S03872C requiring NYSERDA to develop a Generation Attribute Tracking System
- June 2015 – APX Inc. awarded a contract to design, implement, and administer New York Generation Attribute Tracking System (NYGATS)
- October 26, 2015 – Draft NYGATS Operating Rules released for Stakeholder comment
- December 4, 2015 – Comments due to nygats@nyserda.ny.gov

New York Generation Attribute Tracking System (NYGATS)

- Track all generation and associated emissions
- Create certificates for in-state generation & imports
- Retire certificates for voluntary purposes, Renewable Portfolio Standard (RPS) and exports
- Support the Environmental Disclosure Program (EDP)
- Potential to support the Clean Power Plan (CPP) and Large Scale Renewable (LSR) Initiatives
- Facilitate the Voluntary Market

Agenda

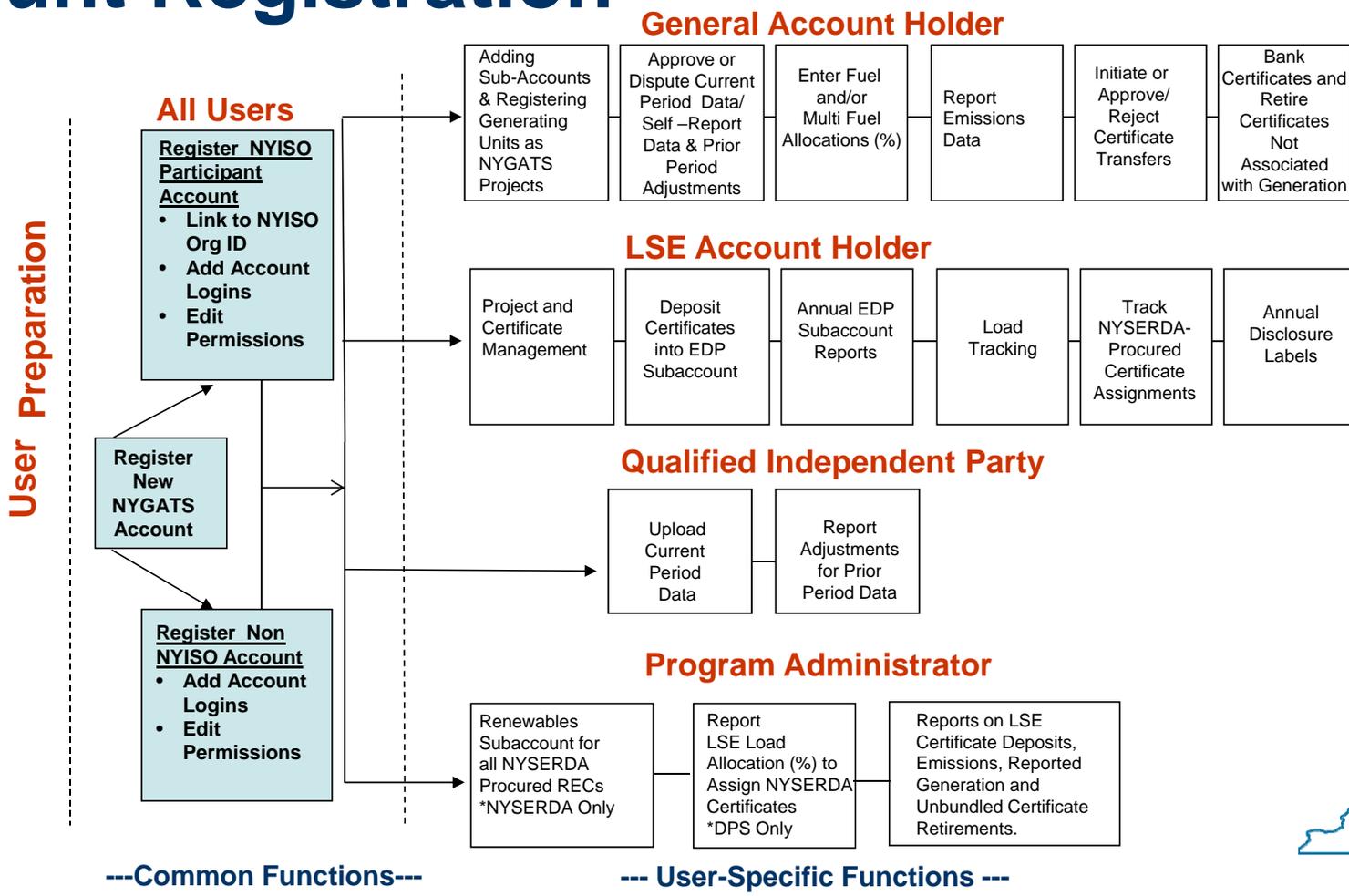
1. Account and Project Registration
2. Account Structure
3. Reporting Generation and Certificate Creation

Lunch (Provided)

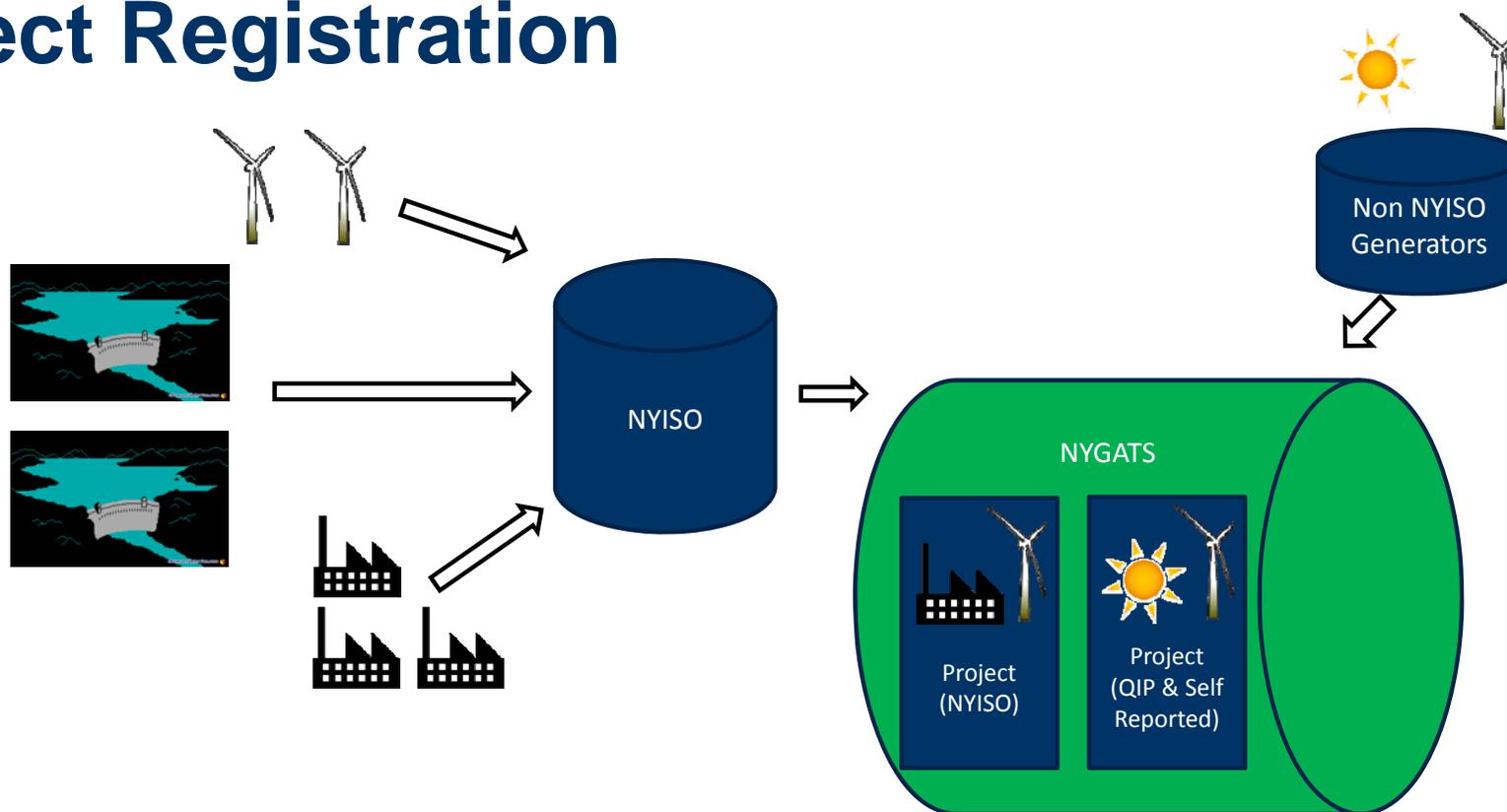
4. Imports and Exports
5. Settlement and Creation of Labels
6. Next Steps
7. Adjourn

Account and Project Registration

Account Registration

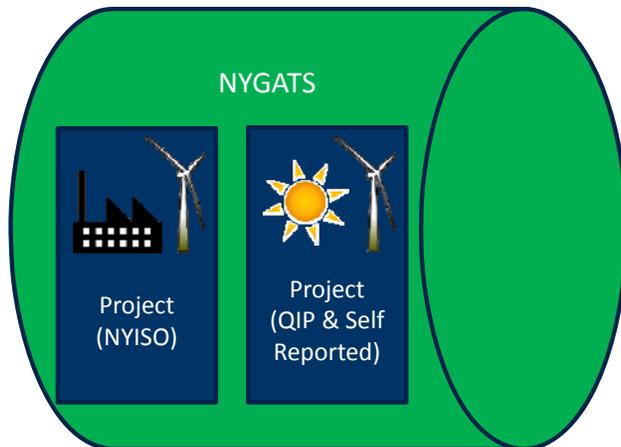


Project Registration



Project Registration

NYGATS Project – Tracking System Representation of the Generator



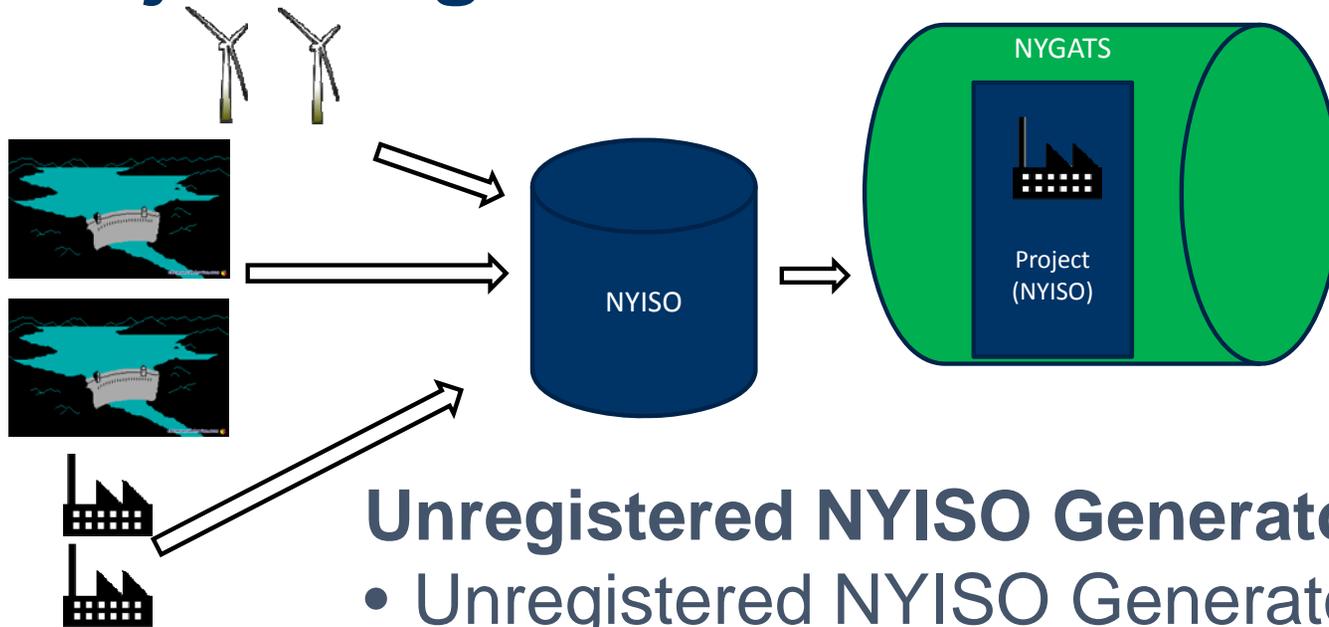
Static Data

- Ownership Information
- Location Information
- Metering Information

Dynamic Data

- Generation
- Emissions

Project Registration

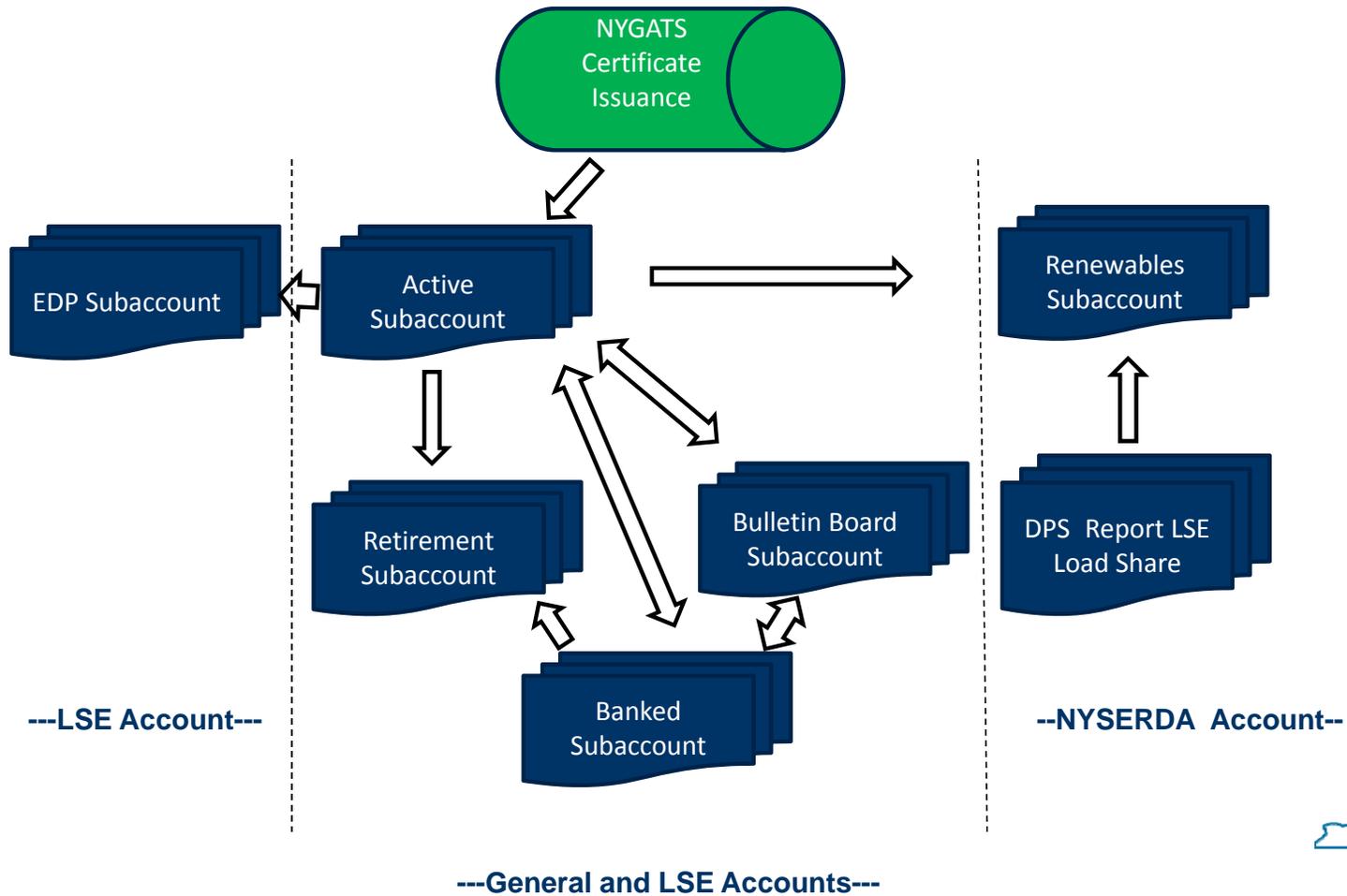


Unregistered NYISO Generators

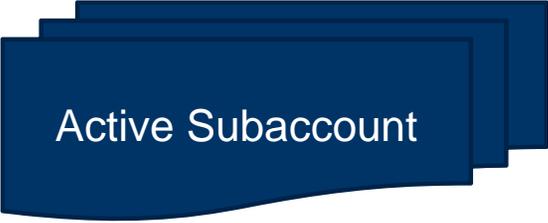
- Unregistered NYISO Generators will still be tracked by NYGATS
- NYGATS Administrator will create Certificates for Unregistered NYISO Generators for purpose of EDP Labels

Account Structure

Account Structure



Account Structure



Active Subaccount

Active Subaccount

- Holding place for all Active Certificates
- First point of deposit for all Certificates
- May be associated with one or more Projects
- Unlimited Active Subaccounts
- Certificates remaining at settlement swept out and used in EDP labels

Account Structure



Retirement
Subaccount

Retirement Subaccount

- May be used to retire Certificates after sale to an end-use customer or other entity
- Certificates excluded from the Residual Mix during the Settlement and will not appear on a LSE's fuel mix and emissions Environmental Disclosure Label
- Certificates may not be transferred out of the Retirement Subaccount
- Only Renewable Certificates may be deposited into the Retirement Subaccount

Account Structure

A graphic consisting of three overlapping dark blue rectangular boxes. The text "Banked Subaccount" is centered in white on the front-most box.

Banked
Subaccount

Banked Subaccount

- Holding place for Certificates the Account Holder wants to bank to sell to an end-use customer or other entity without an accompanying energy delivery after the Settlement.
- Certificates will not be eligible for use toward NYSERDA procurement and will not appear on an LSE's Environmental Disclosure Label.

Account Structure



Bulletin Board
Subaccount

Bulletin Board Subaccount

- Subaccount used to post Renewable Certificates available for purchase by other NYGATS Account Holders
- Certificates available for purchase are displayed in the Bulletin Board Public Report

Account Structure



EDP Subaccount

EDP Subaccount

- Used by LSE Account Holders to deposit Certificates associated with generation to be associated with the Environmental Disclosure Label
- EDP Subaccount Report displays LSE's total Load downloaded from NYISO, NYSERDA's Certificate assignment, Certificates deposited for Environmental Disclosure Labels and the application of the Residual Mix.

Account Structure



Renewables
Subaccount

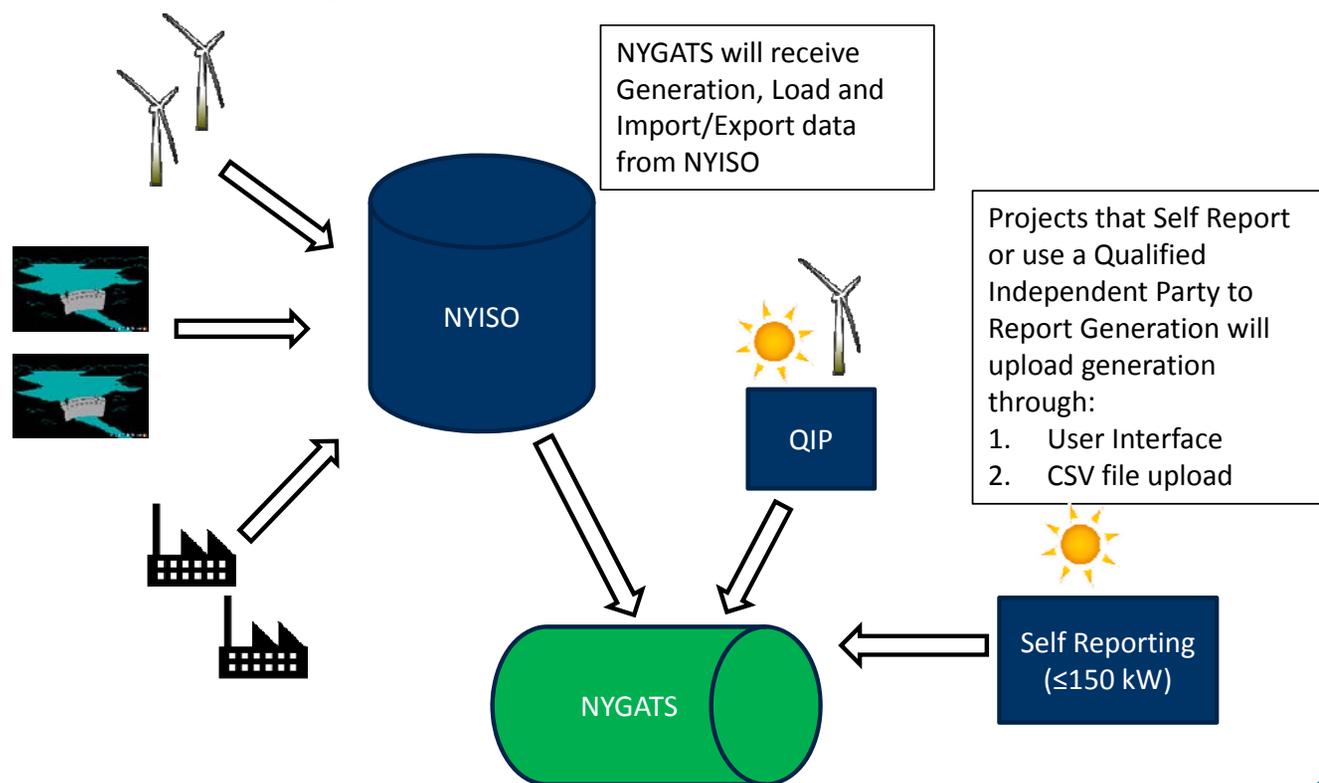
Renewables Subaccount

- Subaccount used by NYSERDA to deposit Certificates associated with NYSERDA Procurement
- DPS will Report Final Load Totals and LSE Load Share (%)
- LSE Load Share will be used to Allocate NYSERDA Procurement to LSE's EDP Subaccount

Reporting Generation and Certificate Creation

Reporting Generation and Certificate Creation

How is generation reported to NYGATS?



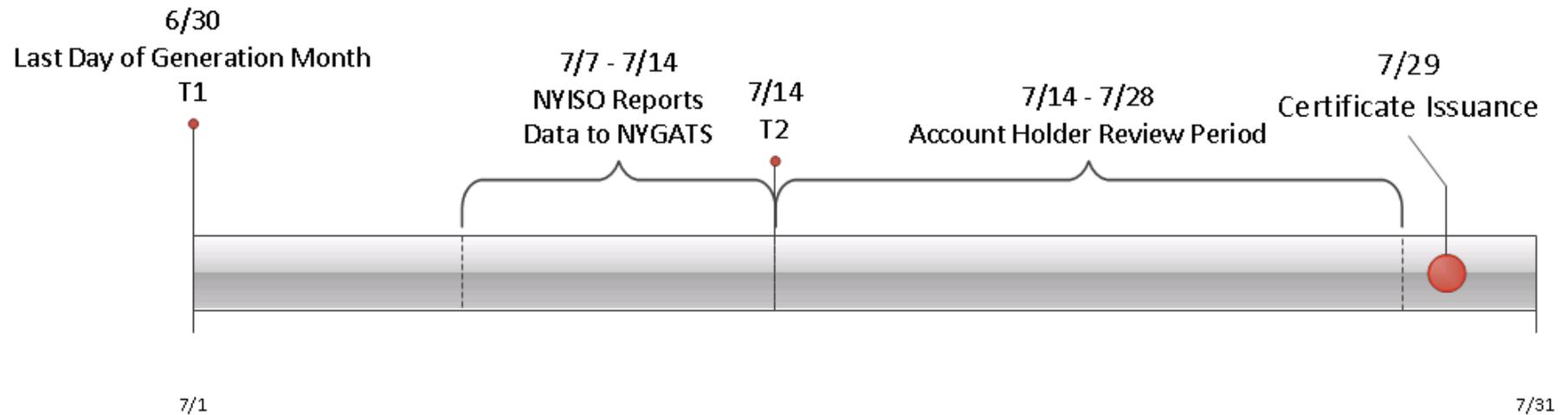
Reporting Generation and Certificate Creation

NYISO Tariff Change

- NYISO is pursuing a tariff change for the authority to provide data for NYGATS
- Data is limited to only what is required for NYGATS and NYSERDA Renewable Portfolio Standard (RPS) and the DPS Environmental Disclosure Program (EDP)
- Most data provided is rolled up to monthly level – hourly data is only provided when necessary

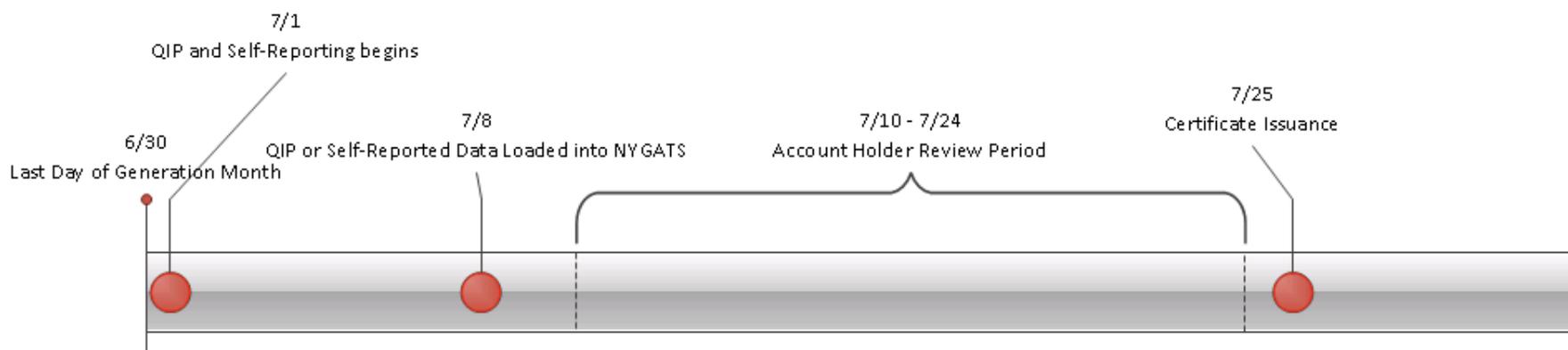
Reporting Generation and Certificate Creation

Certificate Creation for NYISO Settled Generation



Reporting Generation and Certificate Creation

Certificate Creation for QIP and Self Reported Generation



QIP and Self Reported Generation

- NYGATS Generators can submit generation data and Prior-Period Adjustments for the vintage year 30 days prior to the Settlement Date associated with the Vintage (i.e. 2016 generation can be loaded 30 days prior to the 2016 Settlement which occurs at 11:59pm June 30th 2017)
- Account Holder Review Period 14 days
- Certificates Issue 15 days after data is reported to NYGATS

Reporting Generation and Certificate Creation

Emissions

When Will Emissions Be Reported?

- The DEC and EPA will supply emissions data at the generator level on an annual basis
- Certificates will be created using default emission rates initially, based on the latest data available from the either DEC or EPA at the time of Certificate creation
- The Account Holder can review the default emissions and elect to change this during the Account Holder Review Period
- Delays in available emissions data will not hinder Certificate Creation
- Given the known delay between when generation and emission data will be available, emissions will be reported after certificate issuance.

Reporting Generation and Certificate Creation

Emissions

In What Format Will Emissions Be Reported?

The following emissions are supplied in pounds/MWh:

- Carbon dioxide
- Nitrogen oxides
- Sulfur dioxide

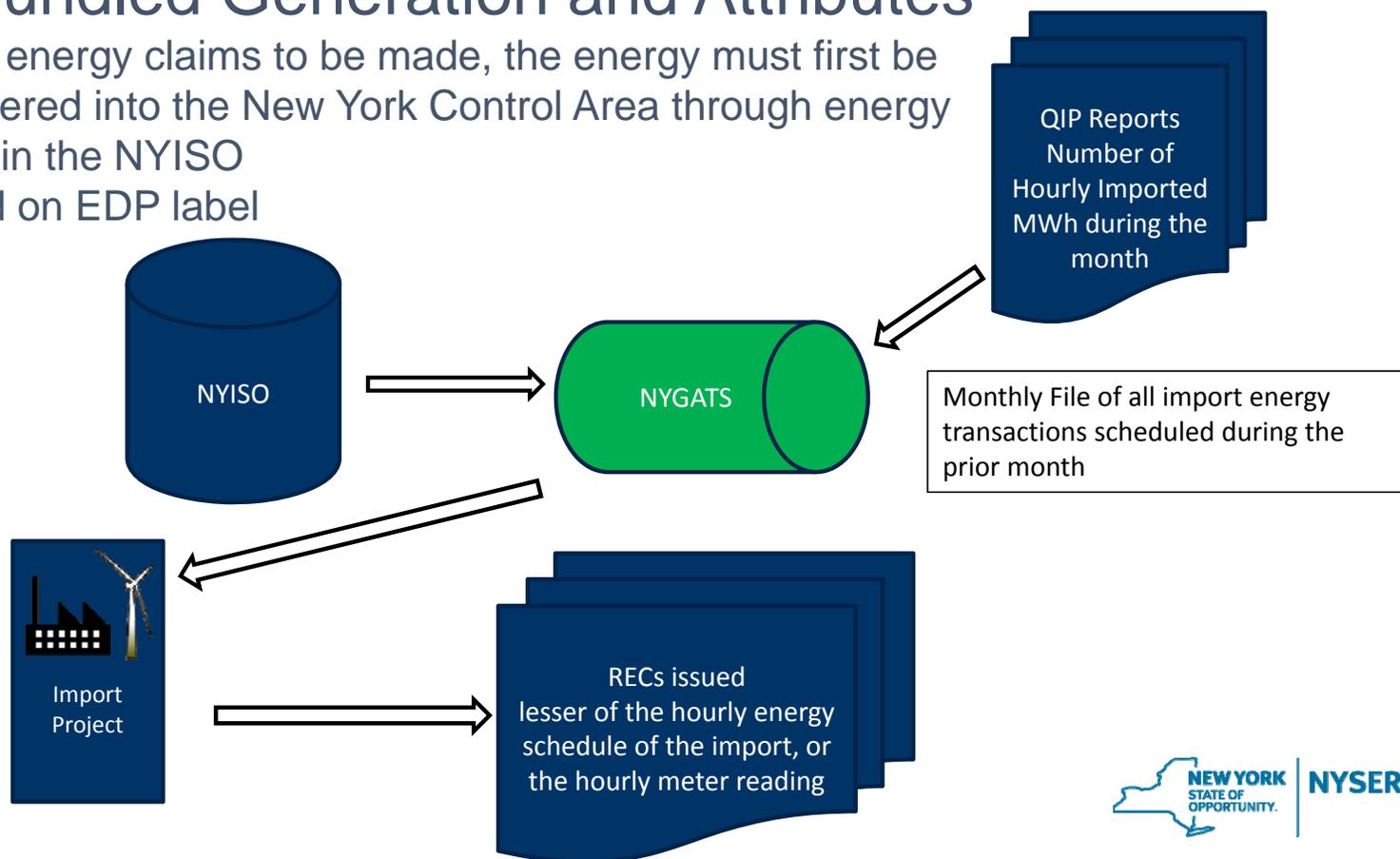
Lunch (Provided)

Imports and Exports

Imports and Exports

Process for Bundled Generation and Attributes

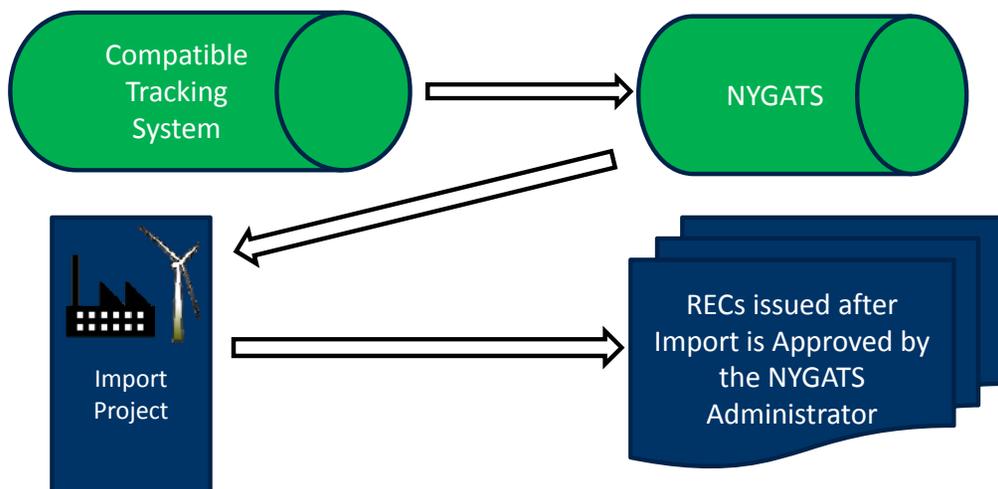
- Unit-Specific Import energy claims to be made, the energy must first be scheduled and delivered into the New York Control Area through energy transactions placed in the NYISO
- Certificates included on EDP label



Imports and Exports

Energy Delivery Delayed Method

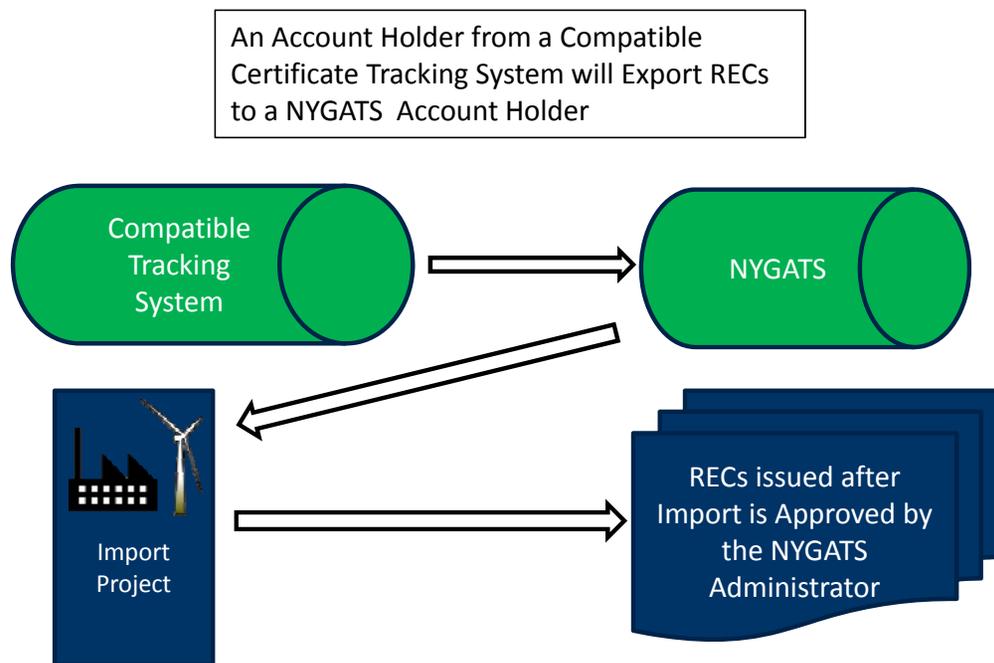
- An Account Holder from a Compatible Certificate Tracking System will Export RECs to a NYGATS Account Holder
- Receiving account holder will identify whether REC Imports are associated with delivered power from exporting tracking system
- NYGATS Administrator will determine if sufficient energy flows from the exporting control area into the NYCA transpired beginning with the first day of the Settlement Period
- Certificates included on EDP label



Imports and Exports

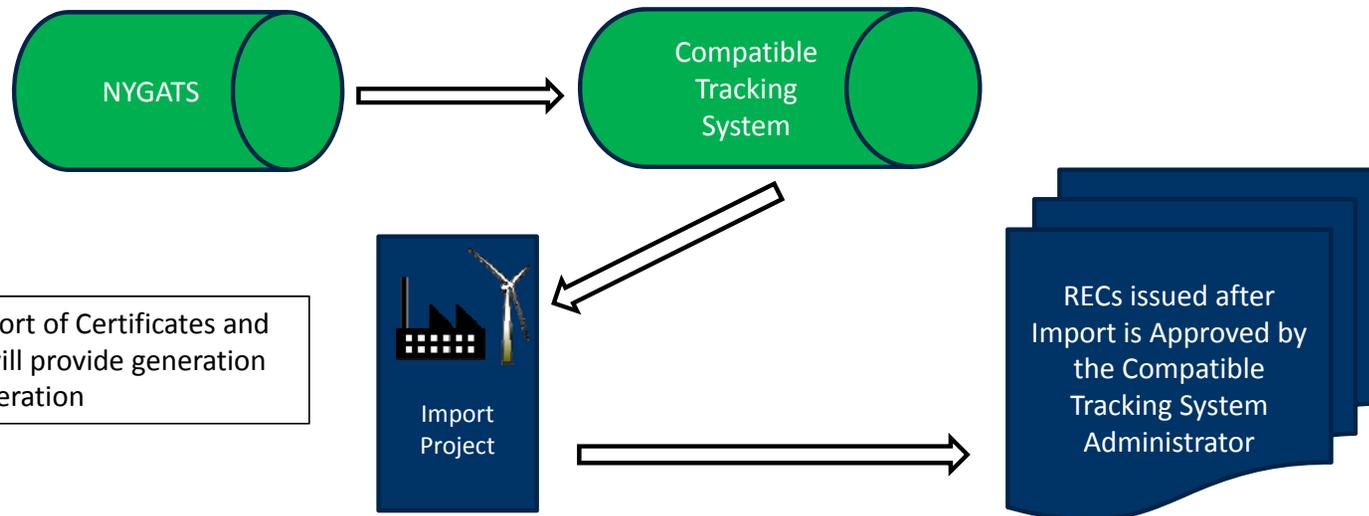
Process for unbundled certificates

- Unbundled Certificates will only be transferred from a Compatible Certificate Tracking System
- Certificates excluded from EDP label



Imports and Exports

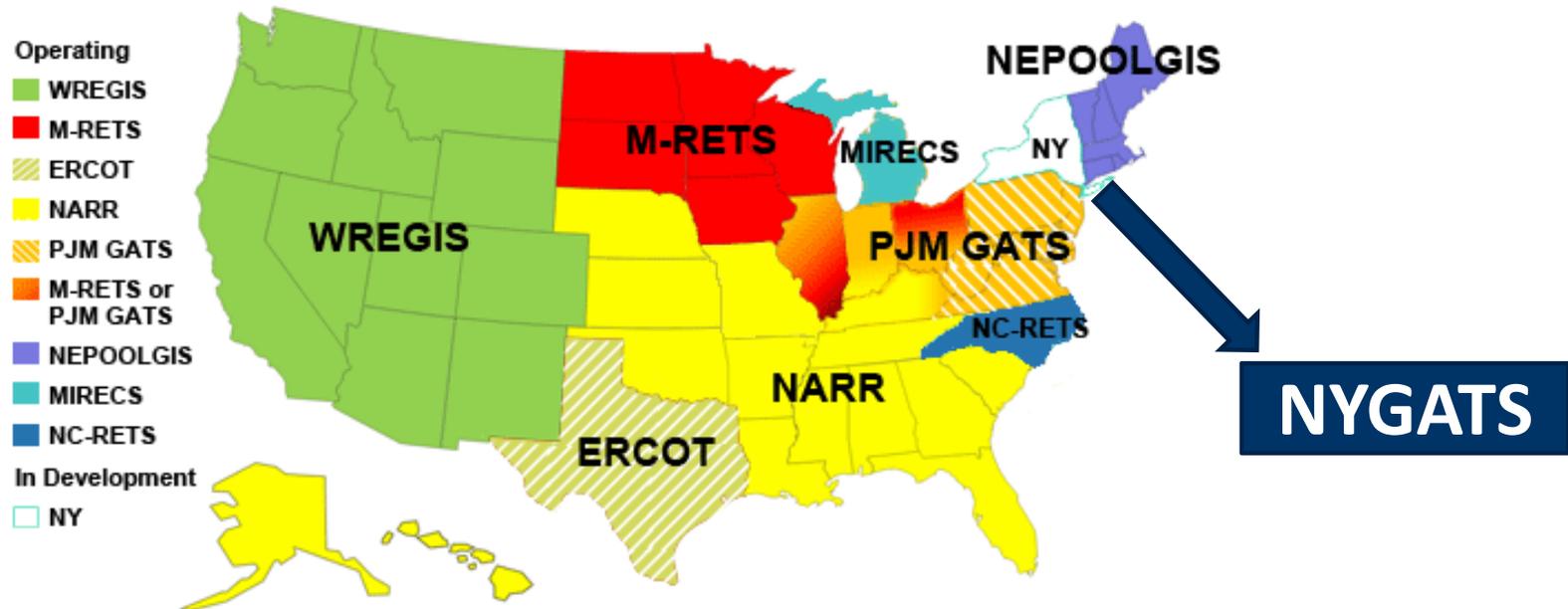
Exporting Certificates to a Compatible Tracking System



When there is an Export of Certificates and Generation , NYISO will provide generation files of Exported Generation

Imports and Exports

Tracking Systems

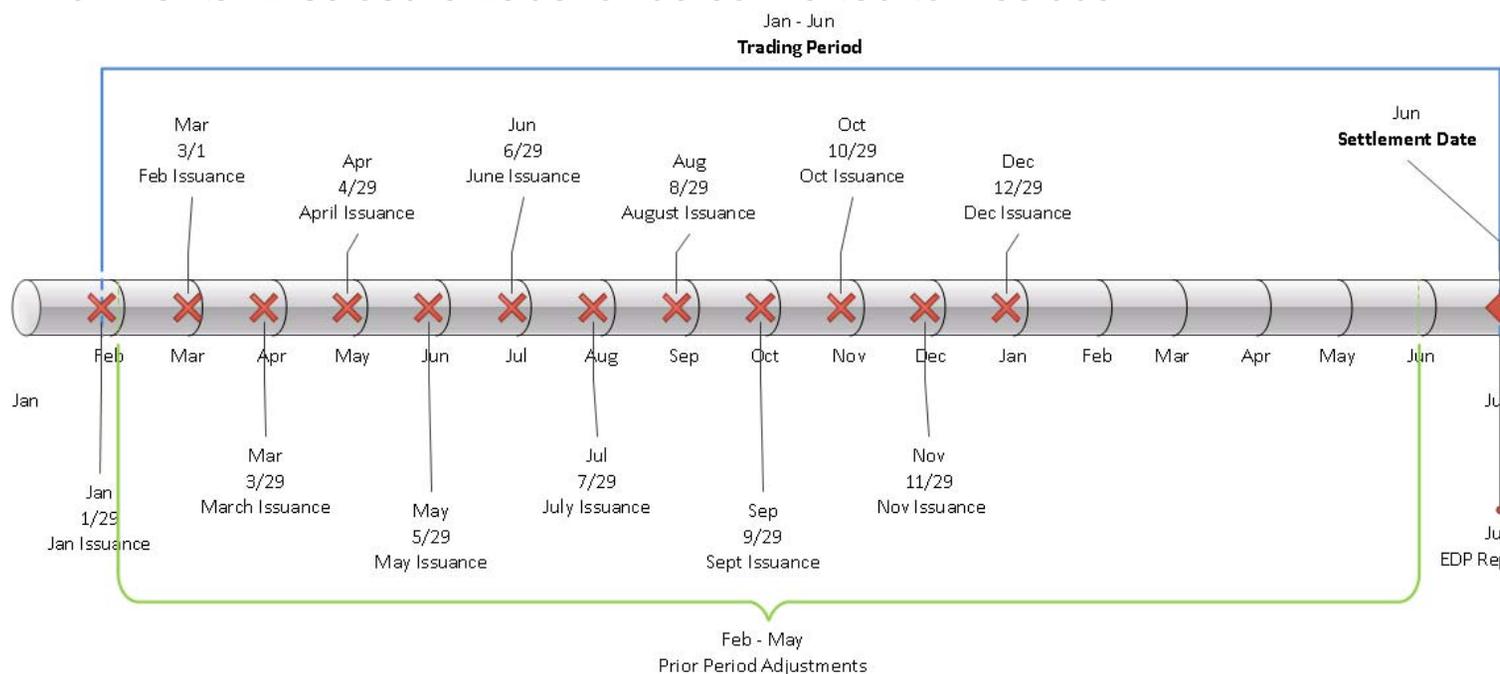


Settlement and Creation of Labels

Settlement and Creation of Labels

Schedule

- NYGATS Account Holders will be allowed to trade and retire Certificates until 11:59:59PM Eastern prevailing time on June 30th of each year.
- All Unsettled Certificates from the previous vintage year will either be settled into the appropriate LSE Environmental Disclosure Label or be converted to Residual Mix



Settlement and Creation of Labels

Assignment of NYSERDA Renewable Attributes

- The DPS Program Administrator will report the percentage of load served by LSEs that contribute to New York's Renewables Fund
- The Load Share is used to allocate the average Attributes of Certificates procured by NYSERDA to each LSE that contributes to New York's Renewables Fund.



Settlement and Creation of Labels

Environmental Disclosure Label

Following the end of the Settlement period, the NYGATS Administrator will create an Environmental Disclosure Label for each LSE. The Disclosure Label can be printed and exported and will be available via an LSE General Account Holder's Account Holder reports

Field	Rules
Account Holder	<ul style="list-style-type: none"> The name of the LSE
Electricity Product	<ul style="list-style-type: none"> Product name or descriptor, if more than one
Period	<ul style="list-style-type: none"> Annual Settlement Period
Fuel Mix	<ul style="list-style-type: none"> Each fuel type used and the percentage for that fuel type
Emissions by pollutant (in lbs/MWh)	<ul style="list-style-type: none"> Calculated for the selected period

Next Steps

Next Steps

- Written comments to nygats@nyserda.ny.gov by Friday, December 4, 2015
- For assistance, contact Doreen Harris at NYSERDA 518-862-1090 x3337 or doreen.harris@nyserda.ny.gov
- Final rules anticipated January 2016
- System testing and acceptance February 2016
- Two-phase user training February and April 2016
 - Account Holder and Project Registration February 2016
 - Certificate Creation and Transfers Q2 2016
- Generation data backloading to January 2016 to allow for full 2016 EDP labels