# Generation Attribute Tracking System Subscriber Meeting

Wednesday  April 17, 2019

1 - 3:00 p.m. ET

pjm | EIS
Environmental
Information Services

- Welcome and Introductions

- GATS Status Update

- Recent GATS Enhancements

- Upcoming GATS Enhancements

- Certificate Creation Timeline Change

- PJM EIS' Blockchain Collaboration with The Energy Web Foundation (EWF)

- State RPS Updates

- Feedback on GATS

# GATS Status Update

# GATS Status Then and Now
*(as of April 02, 2019)*

| Year | No. of GATS Subscribers | No. of Renewable Generators Registered |
|---|---|---|
| 2016 | 12,220 | 103,388 |
| **2019** | **17,221** | **204,765** |

## Generators Registered by State

| | AL | AR | DC | DE | GA | IA | IL | IN | KY | LA | MD | MI | MO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 1 | 3 | 2,356 | 3,091 | 6 | 28 | 753 | 549 | 275 | 1 | 32,972 | 110 | 7 |
| **2019** | **2** | **1** | **4,370** | **5,246** | **47** | **41** | **3,579** | **926** | **303** | **2** | **62,705** | **141** | **24** |

| | NC | ND | NJ | NY | OH | PA | SC | TN | TX | VA | WI | WV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 206 | 2 | 49,451 | 40 | 2,116 | 9,242 | 0 | 6 | 1 | 1,764 | 33 | 375 |
| **2019** | **288** | **2** | **101,860** | **27** | **2,535** | **19,855** | **16** | **6** | **1** | **2,333** | **24** | **431** |

# Solar Facilities Registered in GATS

- 202,760 solar PV facilities in 19 states & DC

- 1,244 solar Thermal facilities in 9 states & DC

- Total solar PV nameplate capability: 7,245.54 MW

- Total solar Thermal nameplate capability: 13.39 MW

- Many are residential facilities

- Largest solar PV project registered: 140.82 MW

## 2,547 generator approvals
*Monthly average – April 2018 through March 2019*

| Generator Approvals by State Certification | |
| --- | ---: |
| DC | 7,290 |
| DE | 4,723 |
| IL | 161,448 |
| MD | 63,442 |
| NJ | 103,406 |
| OH | 9,314 |
| PA | 26,842 |
| VA | 193,456 |

## Generator Updates
*Monthly Average*

| | |
| --- | ---: |
| Submitted | 397 |
| Approved | 338 |

# GATS Recent Enhancements

# Reports

## *NIN History Report*

- Displays all current systems that are placed in *Need Info* either by the system or by the GATS Admins.

- **Assets > Assets > NIN History**

| Unit ID | Facility Name | NIN Reason | Admin | Create Date |
|---------|---------------|------------|-------|-------------|
| NON241550 | 241550Gen-241550Unit | Schedule A is missing or incorrect owner is Marissa Runcie | Michelle Weiman | 01/31/2019 |
| NON241550 | 241550Gen-241550Unit | Interconnection date is incorrect | SchedVal | 01/30/2019 |
| NON247956 | 247956Gen-247956Unit | Interconnection date is incorrect | SchedVal | 03/29/2019 |
| NON82235 | 82235Gen-82235Unit | State certification is incorrect STATE CERTIFICATE NEEDED | Genie McCaskill | 06/02/2015 |
| NON82235 | 82235Gen-82235Unit | Interconnection date is incorrect | SchedVal | 05/16/2014 |
| NON82235 | 82235Gen-82235Unit | Interconnection date is incorrect System Size is incorrect | SchedVal | 05/15/2014 |
| NON82235 | 82235Gen-82235Unit | Interconnection date is incorrect System Size is incorrect | SchedVal | 05/14/2014 |

![pjm|EIS]

# Reports

## *Held Generation*

- Displays generators that are being held for high generation. Information such as Month held, generation entry date, and percentage over the production estimate are displayed.

- **Assets > Generation > Held Generation**

| Facility ID | Facility Name | Capacity (MW) | Online Date | Period | Extrapolation Start Period | Generation Entry Date | Fuel Type | Entry Type |
|---|---|---|---|---|---|---|---|---|
| NON84909 | 84909Gen-84909Unit | 0.01029 | 01/01/2012 | 06/2018 | | 7/10/2018 4:47:00 PM | Solar - Photovoltaic | Meter (kWh) |
| NON59290 | 59290Gen-59290Unit | 0.00576 | 10/01/2011 | 11/2018 | | 12/17/2018 4:20:00 PM | Solar - Photovoltaic | Meter (kWh) |
| NON241513 | 241513Gen-241513Unit | 0.00990 | 09/01/2018 | 02/2019 | | 3/25/2019 9:07:00 AM | Solar - Photovoltaic | Meter (kWh) |

| Meter ID | Initial Meter Read | Initial Meter Read Date | Meter Reading (kWh) | Meter Reading (Btu) | Reading Date | Rollover? | Production | Percent | Meter Picture | Initial Hold Date | Estimated Production | Login Name |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 71,131 | | 06/29/2018 | | 1,294 | 188.36 | Meter Picture | 07/10/2018 | 687 | SchedVal |
| 1 | | | 47,761 | | 11/30/2018 | | 390 | 196.97 | Meter Picture | 12/18/2018 | 198 | SchedVal |
| 2 | | | 3,738 | | 02/28/2019 | | 697 | 162.09 | Meter Picture | 03/26/2019 | 430 | SchedVal |

# Reports
## *Held Generation*

Drill down through the Production link to view additional details

**Facility Information**

| | |
|---|---|
| Facility ID: | NON74943 |
| Facility: | 74943Gen - 74943Unit |
| Capacity: | 0.09984 |
| On-line Date: | 06/01/2013 |
| Generation Start Date: | 06/01/2013 |
| Entry Type: | Meter (kWh) |

**Generation History**

| Month of Generation | Meter Reading | Meter Date | Generation (kWh) | Actual Generation Entry Type | Estimated Production (kWh) | Processed? | Placeholder? | Rollover? | Extrapolation Origination Month/Year |
|---|---|---|---|---|---|---|---|---|---|
| 02/2019 | 663,212 | 02/28/2019 | 6,354 | Meter (kWh) | 7,251 | | | | |
| 01/2019 | 656,858 | 01/31/2019 | 3,877 | Meter (kWh) | 6,305 | | | | |
| 12/2018 | 652,981 | 12/31/2018 | 4,546 | Meter (kWh) | 5,409 | | | | |
| 11/2018 | 648,435 | 11/30/2018 | 11,493 | Meter (kWh) | 6,111 | | | | |
| 10/2018 | 636,942 | 10/31/2018 | 4,917 | Meter (kWh) | 19,403 | Yes | | | 10/2018 |
| 09/2018 | | | 5,721 | Meter (kWh) | 19,403 | Yes | | | 10/2018 |
| 08/2018 | | | 13,223 | Actual (kWh) | 12,049 | Yes | | | |
| 07/2018 | | | 14,162 | Actual (kWh) | 13,675 | Yes | | | |
| 06/2018 | | | 12,722 | Actual (kWh) | 14,162 | Yes | | | |
| 05/2018 | | | 12,336 | Actual (kWh) | 13,976 | Yes | | | |
| 04/2018 | | | 11,289 | Actual (kWh) | 23,846 | Yes | | | 04/2018 |
| 03/2018 | | | 10,433 | Actual (kWh) | 23,846 | Yes | | | 04/2018 |
| 02/2018 | | | 5,559 | Actual (kWh) | 7,251 | Yes | | | |
| 01/2018 | | | 6,199 | Actual (kWh) | 6,305 | Yes | | | |
| 12/2017 | | | 4,588 | Actual (kWh) | 5,409 | Yes | | | |
| 11/2017 | | | 6,590 | Actual (kWh) | 6,111 | Yes | | | |
| 10/2017 | | | 9,117 | Actual (kWh) | 9,132 | Yes | | | |

**Retail LSE Subaccount REC Removal**

Ability to now unretire RECs from the Retail LSE Subaccount (not the Reserved Subaccount) if the REC isn't certified in any state AND it is before the End of Trading Period (February)

**State Change Request**

- Automated a process that changes NJ Solar Systems to Class I based on the NJ Qualification Life Rules
- Systems are updated on July 1 each year after May generation is processed
- Generation that is not reported through May of the EY will only be eligible for Class I RECs
- Notifications are provided at 6 and 3 months prior to the change to allow sufficient time for the generation to be reported

**Standing Orders**

Admins now have the capability to update the Irrevocable Flag on a large number of standing orders at one time

**Automate Generator Approvals**

A daily process was created to auto approve generators when they pass ALL validations in GATS

## Retirements Reasons

- Zero Emission Standard (ZES) Retirement Reason



- Update PVWatts to Version 6

# Performance

- **Certification Creation Process**

  Performance improvements, efficient maneuverability, and implemented so process can run more than once a month

- **Inbox/Outbox**

  Confirm, Reject, and Withdrawal All in batches

- **Transfer History**
  - Provided the capability to allow users with large volume to select a date range
  - Initially the report displays blank
  - Archived old log records from the Transfer History Report

- **CSV File Uploads**

  Limited the number of rows that would be accepted in a single upload to reduce the time out errors for Generator, Generation and Generator Updates

- **Upgraded Hardware, Operating System and Database**

# GATS Upcoming Enhancements

## MSET Load Reconciliations

- Effective with the June data – reconciliations to be loaded into GATS during the September data load
- Load values will be displayed in GATS but will be processed on a two-month lag so as to include Reconciliations

- Billing will still occur based off the unreconciled load values on a monthly basis

*Implemented – April 2019 BUT not effective until September 2019*

## Pike County LSE Subaccount

Allow subscriber to retire RECs to a Pike County Retail LSE Subaccount without having obligations in the subaccount

*Expected Implementation – May 2019*

## TPR API Changes

- Retrieve facilities that have selected them as a TPR via a web service

- Add capacity to the TPR Selected Generator Report

*Expected Implementation – May 2019*
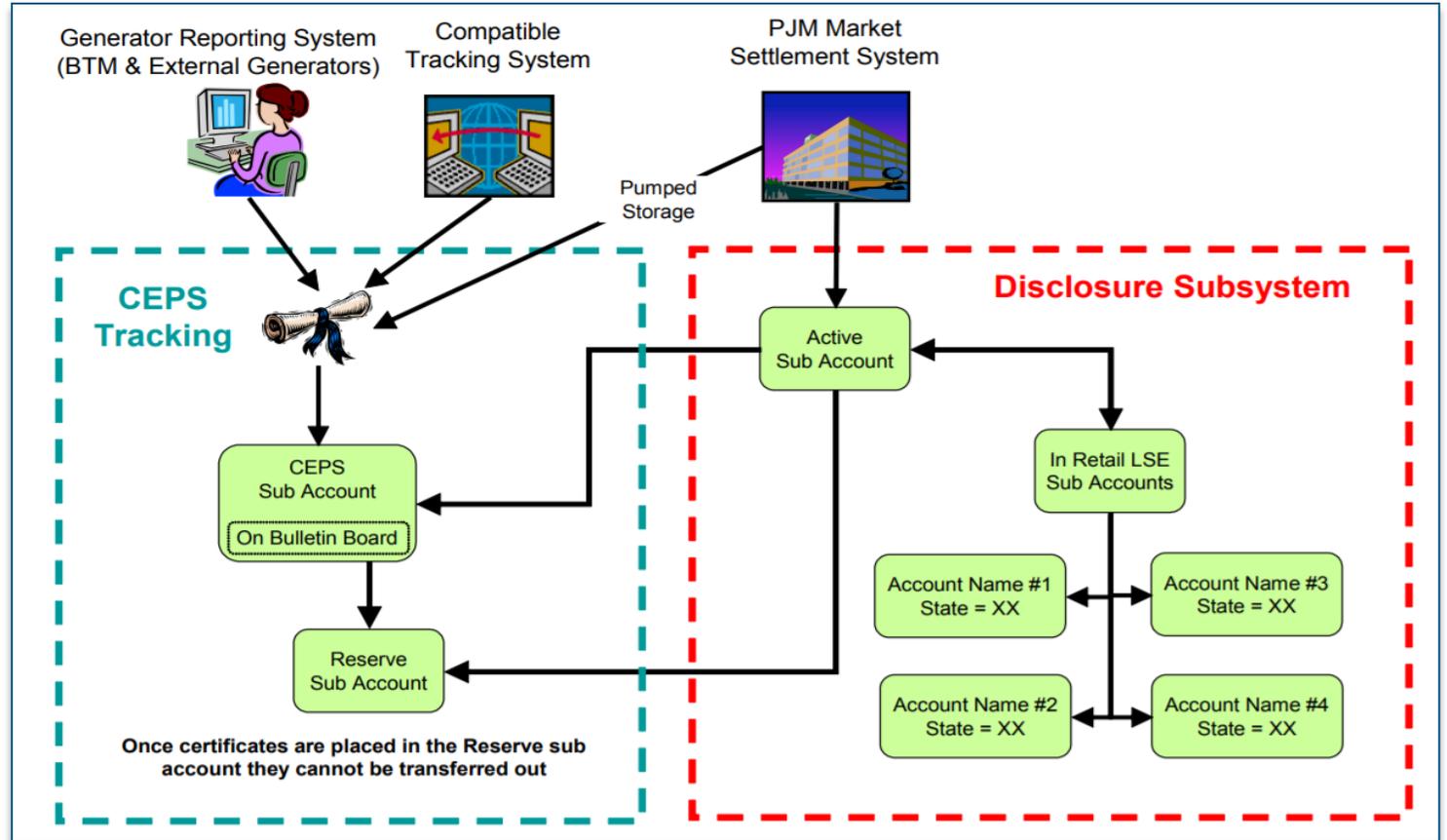
## Aggregator API Changes

Include the new NIN Report in the API

*Expected Implementation – May 2019*

## Active and CEPS Folder Structure

Allow for the creation of additional folders under the Active and CEPS Accounts to manage RECs within one GATS Account

*Expected Implementation – July 2019*

## Automatic Deactivation of Non-Reporting Generators

- Automating the process (currently manual) to deactivate generators who have not reported for an extended period of time.

- Email notifications will be provided in advance of the deactivation to allow the Subscriber to report the generation prior to the deactivation date

- Once deactivated the Subscriber will need to contact the GATS Administrators to reactivate the system

*Expected Implementation – July 2019*

## Batch Transfer Rewrite

Functionality being rewritten to provide a more user friendly experience

*Expected Implementation – July 2019*

## Event Log Update

- Event log is being stripped down to provide only the required information

- Stripped out information would include information regarding REC Transfers and users are directed to use the Transfer History Report

*Expected Implementation – July 2019*

# Certificate Creation Timeline Change

- Certificate Creation for Non-PJM Generators would process **DAILY**

- Generation would be processed on a lag time of  3  -7 days from when generation is entered and validated.

- Systems that have generation entry reported as *Production Estimates* would be processed the first time certification creation runs for a given month

- TPR generators would be processed on the same delay as above

- Generation that passes validation near the end of the month will be processed on the last business day of the month (just as it is now).

- Generation that is considered high generation, will be held just as it is today

- Generation that is considered low will now be held and will need to be released by the admin or if the generation is updated, just like high gen. Email notifications  will be provided.

- PJM Generation (MSETS) would still be processed on the last business day of the month

*Expected Implementation – October 2019*

# Certificate Creation Timeline Change

**First**
of the month

All production estimate systems are processed
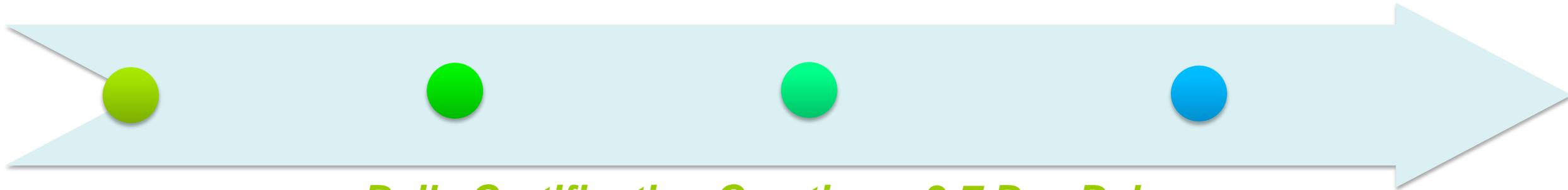
**6th – 10th business day**
of the month

PJM Settlements Data is loaded into GATS

**7 days before last business day**
of the month

TPR window closes

**Last Business Day**
of the Month

- All PJM generators and remaining validated systems are processed
- Load obligations are processed
- Billing is processed

*Daily Certification Creation – 3-7 Day Delay*

- PJM EIS' Blockchain Collaboration with
- The Energy Web Foundation (EWF)

- PJM EIS entered into a Collaboration with the Energy Web Foundation (EWF) in October 2018

- The Blockchain Pilot is a 13 Month Project that will conclude in November 2019

- Needs Assessments were conducted with 10 GATS Subscribers who were identified as having a presence in the Voluntary Market

- The focus is on developing a Bulletin Board for systems wishing to participate in the Voluntary Market

- The Pilot is a stand alone pilot which does not include integration within the existing GATS System at this time

State RPS Updates

Feedback on GATS

# GATS Technical & Customer Service / Administrative Support

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