

Generation Attribute Tracking System Subscriber Group Meeting

Thursday December 10, 2015
9:00am Eastern Time

- Welcome and Introductions
- GATS Status Update
- State Updates
- Recent GATS Enhancements
- Upcoming GATS Enhancements
- Terms Of Use Updates
- GATS Mobile
- PJM EIS Website Refresh
- Subscriber Roundtable Discussion

GATS Status Update

- 11,122 GATS subscribers
- 72,213 renewable generators registered in 22 States & DC
- Total Number of Generators:

AL	1	MO	5
AR	3	NC	174
DC	1,728	NJ	37,296
DE	2,107	NY	40
GA	6	OH	1,785
IA	8	PA	7,894
IL	288	TN	6
IN	400	TX	1
KY	231	VA	1,327
LA	2	WI	33
MD	18,497	WV	313
MI	68		

Solar Facilities Registered in GATS

- 70,444 solar PV facilities in 16 states & DC
- 1,065 solar Thermal facilities in 9 states & DC
- Total solar PV nameplate capability : 2,508.16 MW
- Total solar Thermal nameplate capability: 10.61 MW
- Many are residential facilities
- Largest solar PV project registered: 38.69 MW



- Generator Approvals (Avg): 1,642
- Generator Approvals by State Certification

DC	38
DE	25
IL	1,575
MD	772
NJ	685
OH	58
PA	85
VA	1,565

- Generator Updates Submitted (Avg): 314
- Generator Updates Approved (Avg): 290




State Updates

Recent Enhancements

- **Market Settlements Meter Adjustments**
 - GATS now receives meter adjustments automatically based on the new Settlements timeline of reporting meter adjustments during data load
 - Deadline is now 30 days after the month rather than 5 days
 - GATS Administrators previously entered in the adjustments manually
 - Any adjustments after this window will need to be done manually
- **Meter Picture Upload**
 - Pictures are stored to the generator for review by the GATS Administrators during High Generation review
 - The picture will be associated with a month and year of generation for that generator
- **Certification Number Field Expanded**
 - Expanded the Certification Number field to allow for up to 50 characters
 - All impacted reports were also updated to handle the longer character length
- **New Landing Pages**
 - Easier to view data
 - Streamlined for residential and small business subscribers



pjm | **EIS**  logout

My Account Help

customize page Lukach Solar - LukachSolar Change Password

Registration ? x

[Change Profile](#)

Public Reports ? x

[GATS Generators](#)

[PJM Residual Mix](#)

[Import System Mix](#)

[Bulletin Board](#)

GATS Certificates Monthly Annual

Statistics Reporting Year

Reserved Certificate Monthly Annual

Transfers

[PJM System Mix](#)

[Renewable Generation Registered in GATS](#)

[Solar Weighted Average Price](#)

[Aggregator/Broker Listing](#)

[RPS Retired Certificates \(Reporting Year\)](#)

[RPS Eligible Certificates by Status \(Reporting Year\)](#)

[Voluntary Market Refirements](#)

Asset Management ? x

[Dealer JM Assets LI](#)

[Register Solar Photovoltaic Generator](#)

[Register Solar Thermal Generator](#)

[Register Non-Solar EIM Generator](#)

[Upload EIM Generator](#)

[Upload Updates for Generator](#)

[Refer Generation](#)

[Refer Transfers](#)

[Upload With Generation \(With only, multiple facilities/months\)](#)

[Designate Third Party Reporter for Generation](#)

Account Management ? x

[Login Management](#)

Account Information ? x

Company Name: Lukach Solar

Account Administrator Email: GATSTest@gmail.com

Account Administrator Phone: 123-456-7891

Account Status ? x

Trading Period

2013 - Close	2014 - Open	2014 - Close
2/28/2014 - 2/28/2014 7:54:39 AM	2/28/2014 7:54:39 AM - 3/28/2015	2/28/2015 - 3/1/2015

Task

Certificate Creation	Open Period	Acct Holder Review	Certificate Creation	Open Period
July 2014	August 2014	August 2014	August 2014	August 2014
08/28/2014 to 09/15/2014	09/15/2014 to 09/29/2014	09/30/2014	10/01/2014 to 10/17/2014	

Account Summary

MSET Data & Manual Generation Totals

Supply MWh	Demand MWh
Generation 0.335	Load N/A
Imports N/A	Exports N/A

Account Activity

Certificates	Obligations
Active 0	Transferred In 0
CEPS 9	Transferred Out 0
On Bulletin Board 0	
Bulletin Board Purchases	
Reserved 0	
In Retail LSE Sub-Accounts 0	In Retail LSE Sub-Accounts 0

Account Totals

Certificates	Obligations
Certificate Total 9	Obligation Total 0

Inbox ? x

Inbox Certificate Details (Empty)

Obligation

From	Quantity	Status	Confirm	Reject
Empty				

Standing Orders

From	Quantity %	Status	Confirm	Reject
Empty				

Outbox ? x

Outbox Certificate Details (Empty)

Obligation

To	Quantity	Status	Withdraw
Empty			

Standing Orders

To	Unit ID	Quantity %	Status	Withdraw
Empty				

Account Summary

MSET Data & Manual Generation Totals

Supply MWh	Demand MWh
Generation 0.335	Load N/A
Imports N/A	Exports N/A

Account Activity

Certificates	Obligations
Active 0	Transferred In 0
CEPS 9	Transferred Out 0
On Bulletin Board 0	
Bulletin Board Purchases	
Reserved 0	
In Retail LSE Sub-Accounts 0	In Retail LSE Sub-Accounts 0


Account Totals

Certificates	Obligations
Certificate Total 9	Obligation Total 0

Retail LSE Sub-Accounts Summary

Load data in GATS might not match your actual RPS obligation

Retail LSE Sub-Accounts Name	State	Zone	Default	Certificates	Obligations
No Subaccounts Created					



Generation Attribute Tracking System

Generator Only
GeneratorOnly
Home
Sign Out

Accounts
Assets
Certificates
Reports
Training

The deadline for generation entry this month is 9/29/2014 12:00 PM

Account Summary	
Unprocessed Activity (MWh)	
Generation	1.559
Account Activity	
Certificates	
Active	0
CEPS	9
On Bulletin Board	0
Bulletin Board Purchases	
Reserved	0
Certificate Total	9

Inbox	
Certificates	0
Outbox	
Certificates	0

Favorites [Edit](#)

[Display My Assets](#)

Asset Management				
Unit ID	Plant - Unit	Status	Update	Generation
NON75743	Generator One - Generator One	■ ACT	UPD	ENTRY

- PJM EIS has redesigned the GATS landing pages to streamline the pages and make it easier for account holders to find the information they most frequently need.
- The following information is now viewable from the landing page:
 - » Account Summary
 - » Inbox/Outbox
 - » Favorites
 - » Asset Management
 - » Access to reports with drop down menu

Account Summary

Account Summary	
Unprocessed Activity (MWh)	
Generation	1,559
Account Activity	
Certificates	
Active	0
CEPS	9
On Bulletin Board	0
Bulletin Board Purchases	
Reserved	0
Certificate Total	9

Inbox/Outbox

Inbox	
Certificates	0
Outbox	
Certificates	0

Favorites

[Favorites](#) [Edit](#)
[Display My Assets](#)

- This Icon indicates an item that can be added to your favorites section, which is accessible on the landing page.

Asset Management

Unit ID	Plant - Unit	Status	Update	Generation
NON40773	University One - University One	ACT	UPD	ENTRY
NON47628	Residence Three - Residence Three	ACT	UPD	ENTRY
NON62854	Residence One - Residence One	ACT	UPD	ENTRY
NON62855	Residence Two - Residence Two	ACT	UPD	ENTRY
NON75743	Generator One - Generator One	ACT	UPD	ENTRY

[More >](#)

- The [More >](#) link allows the user to access their entire list of assets.

Drop Down Menus

Generation Attribute Tracking System
 Accounts Assets Certificates Reports Training

Assets >

Unprocessed Activity (MWh)	Unprocessed Generation
0.33	0
Account Activity	0
Active	0
CEPS	9
On Bulletin Board	0
Reserved	0
Certificate Total	9

[Certificates](#)
[Asset Management](#)

- This screenshot shows the new drop down menus where the subscriber can now find all reports or screens associated with their Generation. All of the reports that were part of the Account Holder Report section can now be found under the drop down menus at the top of the page and are grouped together based on their function.

LANDING PAGE FOR GENERATOR ACCOUNT TYPE

The screenshot shows the PJM EIS Generation Attribute Tracking System interface. At the top, there is a navigation bar with 'Accounts', 'Assets', 'Certificates', 'Reports', and 'Training'. A 'Favorites' box is located on the right side. The main content area is divided into several sections: 'Account Summary' (with a table for 'Unprocessed Activity (MWh)' and 'Account Activity'), 'Inbox/Outbox' (with 'Certificates' counts), and 'Asset Management' (with a table for 'Unit ID', 'Plant - Unit', 'Status', 'Update', and 'Generation').

Unit ID	Plant - Unit	Status	Update	Generation
NON75743	Generator One - Generator One	ACT	DIRP	ENRTE

1. Account

Holder Reports

Reports can now be found under the drop down menus at the top of the page, grouped based on their function. The "Assets" drop down can be used to access reports for assets and generation.


2. Account Summary

All information pertaining to the certificates that will be created or have been created can be found in the **Account Summary** section. To access the information within this section simply click on the hyperlink to drill down to detailed information.


3. Inbox/Outbox

Inbox/Outbox has been moved up front and center to allow for easy access to manage the certificate transfers.

4. Favorites

The **Favorites** box is a new feature on the landing pages. It allows the user to keep their frequently used reports (pages) on the main page for easy access. Display My Assets is included in the **Favorites** as a default for the Generator Account Type. Use the  icon that is found on the reports to easily add the reports you access frequently to your **Favorites** list.

5. Asset Management

Assets are now viewable from the new landing page. Generation can be entered by clicking on the  icon next to the system under the Asset Management Section.

- **Aggregator Interface Updates**

- Transfer REC Process updated to include transaction ID
- Additional processes included
 - Process Transfers – Confirm, Reject, Withdraw RECs
 - Get Inbox/Outbox
 - Get Transfer History
 - Get RECs from their Active, CEPS and Bulletin Board subaccounts
- Document uploads

- **GATS Mobile**

- A subset of features have been implemented to be accessible via a Mobile Device
 - Generator Registration
 - Generation Entry
 - Meter Picture Upload
 - Forgot Password
- Additional features will be converted as the .NET Conversion progresses

- High Generation Review Process
 - Nightly process runs and notifies the Subscriber via email that their generation is high and they need to provide documentation
 - Evaluation is done based on the number of days between the last meter reading and the current meter reading
- Batch Transfer Process
 - Retiring for Voluntary Market now requires the subscriber to select a State

- Reports
 - My Solar Generation Report – included additional fields (last meter read and date)

My Solar Generation - Account Holder ID: 32488 - Month/Year: 10/2015

Report Parameters

Month/Year:

Results

Note: Click on a heading label to sort the data.

Drag a column header here to group by that column

Month of Generation	GATS Gen ID	Facility Name	Status	Fuel Type	Entry Type	Generation (kWh)	Generation Owed (kWh)	Carryover (kWh)	MMA (kWh)	Adjusted Generation (kWh)	Remaining Generation (kWh)	Meter ID	Meter Name	Last Meter Read (kWh/Btu)	Last Meter Read Date
10/2015	NON82931	82931Gen - 82931Unit	ACT	Solar - Photovoltaic	Meter (kWh)	823	0	788	0	1,611	611	1		18,611	10/31/2015

- Reports
 - Held Generation – New Report

Accounts	Assets	Certificates	Reports	Training						
Held Generation										
Results <input type="button" value="CSV"/> <input type="button" value="Print"/> <input type="button" value="Reset"/> <input type="button" value="Show Field Chooser"/>										
<i>Note: Click on a heading label to sort the data.</i>										
Drag a column header here to group by that column										
Facility ID	Facility Name	Capacity (MW)	Online Date	Period	Extrapolation Start Period	Generation Entry Date	Fuel Type	Entry Type	Meter ID	Initial M Read
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NON83627	83627Gen-83627Unit	0.00814	08/01/2013	06/2014	01/2015	2/22/2015 6:06:00 PM	Solar - Photovoltaic	Meter (kWh)	1	
NON83762	83762Gen-83762Unit	0.01012	07/01/2013	06/2014	01/2015	2/22/2015 7:22:00 PM	Solar - Photovoltaic	Meter (kWh)	1	
NON83764	83764Gen-83764Unit	0.00878	08/01/2013	06/2014	01/2015	2/22/2015 7:22:00 PM	Solar - Photovoltaic	Meter (kWh)	1	

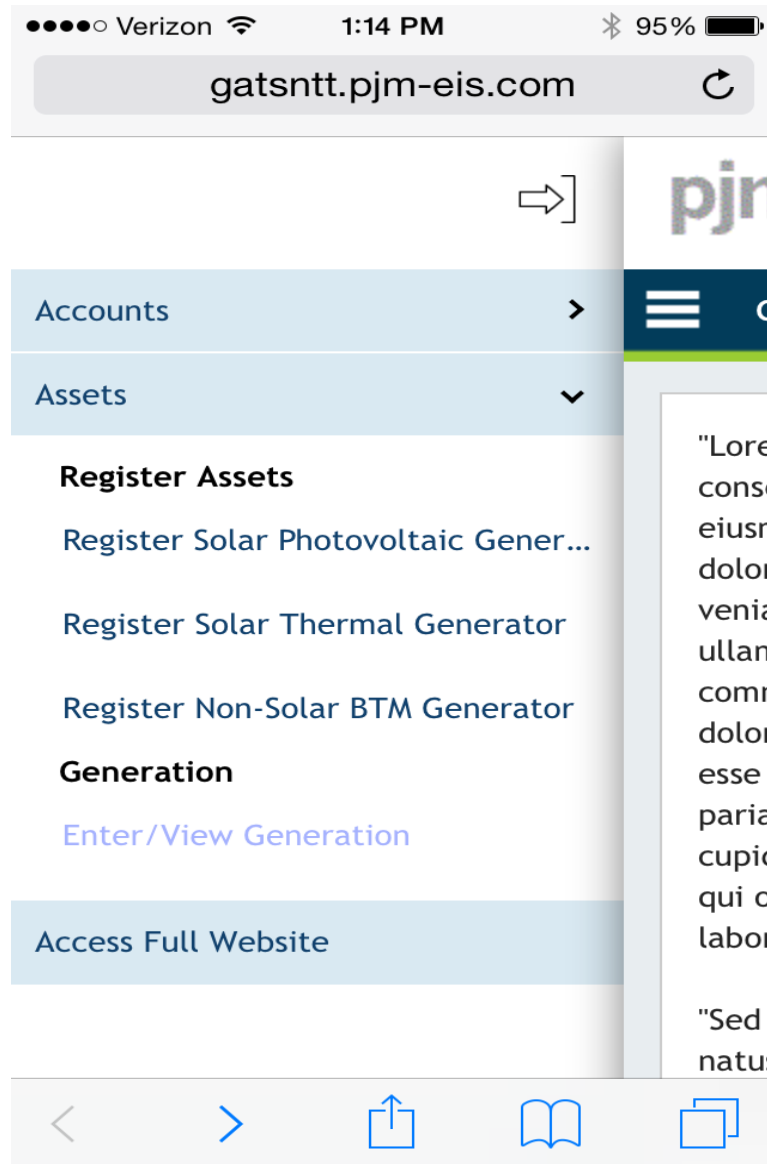
- Automatic Certification for VA
 - GATS will evaluate generators upon approval to determine if they are eligible in VA and apply the appropriate certification number
- PV Watts Upgrade
 - API was updated with the latest version of PVWatts for creation of production estimates
- .NET Conversion
 - Approximately 75% of GATS has been converted to .NET from Classic ASP
- Enhanced Security
 - Stronger login name required
 - Password requirements changed to require a 10-digit alphanumeric combination
 - Improved security questions with Forgot Password
 - Reports display First and Last Name rather than login name

GATS Upcoming Enhancements

- Generator Account Type Updates (Dec 2015)
 - Generator Account Types will be unable to receive REC transfers
- .NET Conversion
 - Rewrite the Batch Transfer Screen (Dec 2015)
 - Continue converting the remaining 25% of the system (Ongoing)

GATS Mobile

- Converted the following features to be mobile accessible:
 - Account Registration
 - Generator Registration
 - Generation Entry
 - Change/Forgot Password
 - Picture Upload
- Implementation responsive versions of GATS screens will continue where it adds value



Verizon 1:14 PM 95%

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Accounts >
 Assets v
Register Assets
 Register Solar Photovoltaic Gener...
 Register Solar Thermal Generator
 Register Non-Solar BTM Generator
Generation
[Enter/View Generation](#)
 Access Full Website

"Lore
 conse
 eiusm
 dolor
 venia
 ullam
 comm
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 esse
 paria
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 qui ot
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 "Sed
 natus

●●●○ Verizon 9:15 PM 58% gatsntt.pjm-eis.com

Unit ID: NON94792
Facility Name: JaclynnTest2 - JaclynnTest2
Generation Start Date: 07/2014

Processed Generation
 No processed generation

Unprocessed Generation

Period	Jan 2015	Feb 2015
Source	Self (Meter)	Self (Meter)
Units	kWh	kWh
Last Read	1,489	350
Read	1,631	1,793
Generation	142	162
Date (mm/dd/yyyy)	<input type="text"/>	<input type="text"/>

When entering data and months are skipped the data will be split out automatically based on the monthly production estimates that are created using your system characteristics. To override the extrapolation of data please delete the last entry and

GATS Terms Of Use

- Schedule H – Consent of Application Program Interface User
 - Testing is required prior to gaining access to the production system
 - Testing in production is strictly prohibited
 - Minimize performance issues by scheduling jobs during non-peak hours
 - Maintain a 90% success rate for each method used
 - Fees will be charged for advanced capabilities of the Aggregator Interface

API Functionality	Initial Setup Fee	Annual Maintenance Fee
Third Party Reporter Methods: Generation Upload Generation Deletion	Waived	Waived
Aggregator Methods: Generation Upload Generator Upload Generator Update Generator Retrieval Production Estimate Retrieval	Waived	Waived
REC Transfer Methods: Buyer Retrieval Inbox, Outbox, Transfer History Retrieval Available RECs Retrieval Initiate REC Transfer Process REC Transfer	\$2,500 (single account)	\$500 (single account)
	\$12,500 (multiple accounts)	\$2,500 (multiple accounts)

PJM EIS Website Refresh

- New look and feel
- Responsive to Mobile Devices
- Additional resources for Aggregators and Homeowner
- Go live is set for December 2015



The screenshot shows the PJM EIS website interface. At the top, there is a 'GATS Sign In' button. Below it is the PJM EIS logo. A navigation bar contains three tabs: 'Getting Started', 'Program Information', and 'Reports & Events'. The main content area features a large image of solar panels and a wind turbine. Below this are three category cards:

- Aggregators:** If you are a company that helps others participate in the renewable energy certificate market, this section will help you get started. [Read More](#)
- Home Owners:** If you are a homeowner with a renewable energy resource and would like to capture its value in the market, this is for you. [Read More](#)
- Others:** If you do not fit into the other two categories but are a participant in the renewable energy certificate market, this is the place for you. [Read More](#)

The market for renewable energy generation engages diverse participants, from [homeowners](#) to [electric utilities](#) to [aggregators](#) to state regulators. PJM-EIS' Generation Attribute Tracking System offers the platform to buy and sell renewable energy certificates – each represents one megawatt-hour of electricity produced.

On this site, you will find all the information you need to get started in converting your renewable energy into certificates, then into revenue. Start by selecting your category below.

Panel Discussion

- Steven Eisenberg, SREC Trade
- Howard Fleischer, Managing Partner, www.NJSREC.com
- Michael Flett, President, Flett Exchange



GATS Technical & Customer Service / Administrative Support

GATS Administrators

610-666-2245

1-877-750-GATS (4287)

610-771-4114 (fax)

GATSAdmin@pjm-eis.com

www.pjm-eis.com