

PowerGADS as Used Under NYISO Rules

Market Training

E-Learning Module 2025



Note: Information provided regarding North American Electric Reliability Corporation (NERC) rules and requirements is provided solely as an overview for background and context for NYISO requirements. The NYISO is not informing or advising attendees on obligations related to NERC requirements or procedures. After completing this training, please direct any GADS-related inquiries to stakeholder_services@nyiso.com

©COPYRIGHT NYISO 2025. ALL RIGHTS RESERVED



NYISO PowerGADS (PGADS) Portal

- Market Participants (MPs) enter GADS Data directly via NYISO PowerGADS (PGADS) portal
 - PGADS portal accepts Event and Performance data
- MPs can correct errors identified by the PGADS portal during the submittal process
- PGADS Portal can provide reports specific to ICAP markets, including
 - Average Equivalent Demand Forced Outage Rate (AEFORd) Reports
 - Event & Performance Data Reports



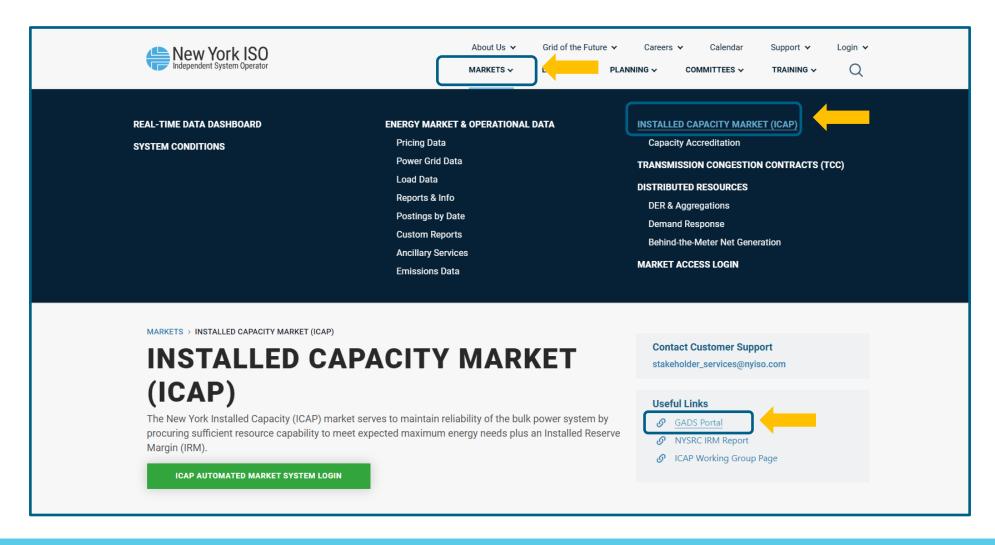
PGADS Portal

- User Portal Requirements
 - NAESB Digital Certificate* (linked to MIS User Account)
 - MIS User Account
 - User Account must have the "GADS GADS Observer" privilege
 - Contact NYISO GADS Administrator (GADS_Info@nyiso.com) to add user to the PGADS Portal

*Please refer to the 'NAESB Digital Certificate Tutorial' for details on how to obtain a NAESB certificate

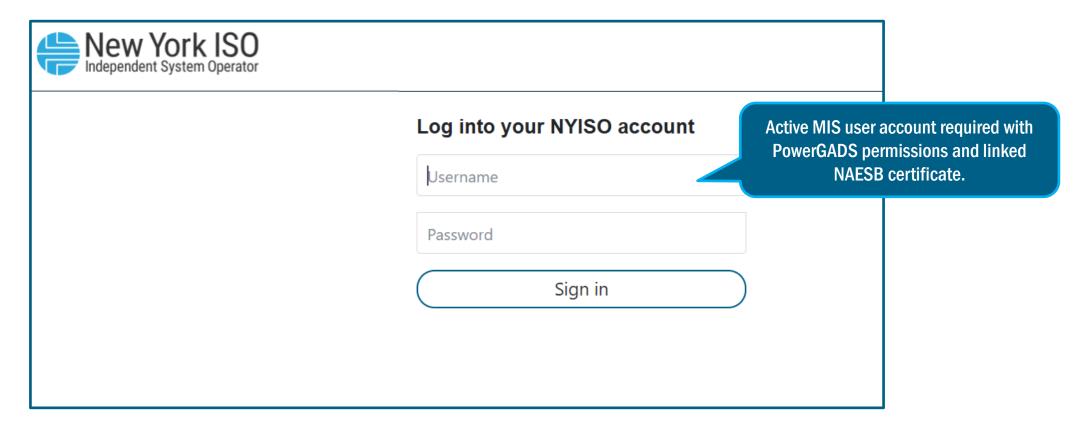


Access to NYISO PGADS Portal



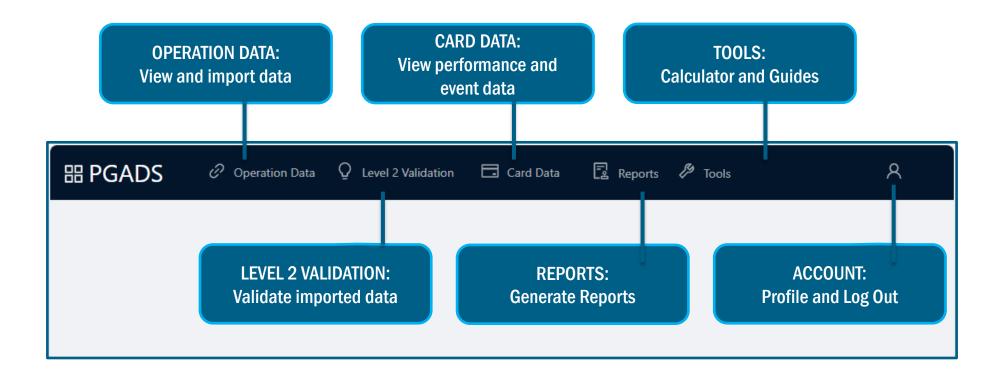


PGADS Portal Login Screen





PGADS Portal Homepage





Upload and Process Phases

Operation Data/
 Level 1 Validation

Proper GADS format

2. Level 2 Validation

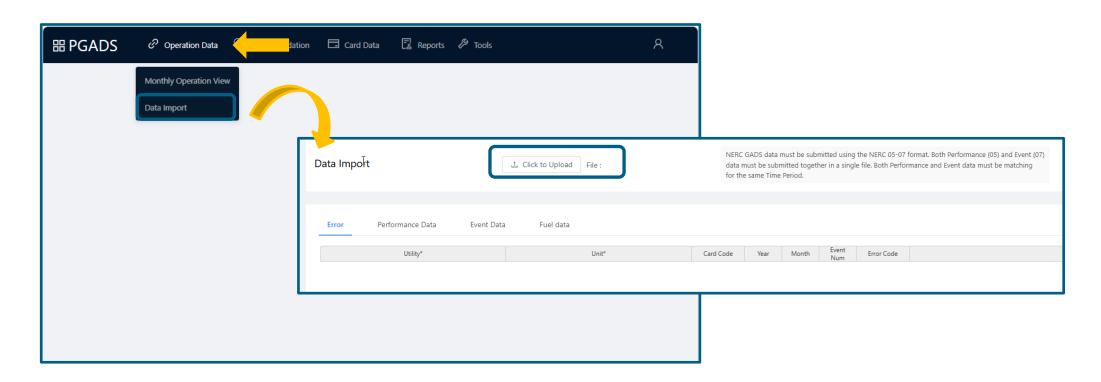
 Event Data and Performance Data are consistent with one another

3. Reports

 Detailed AEFORd calculations that will be used in the Capacity Markets

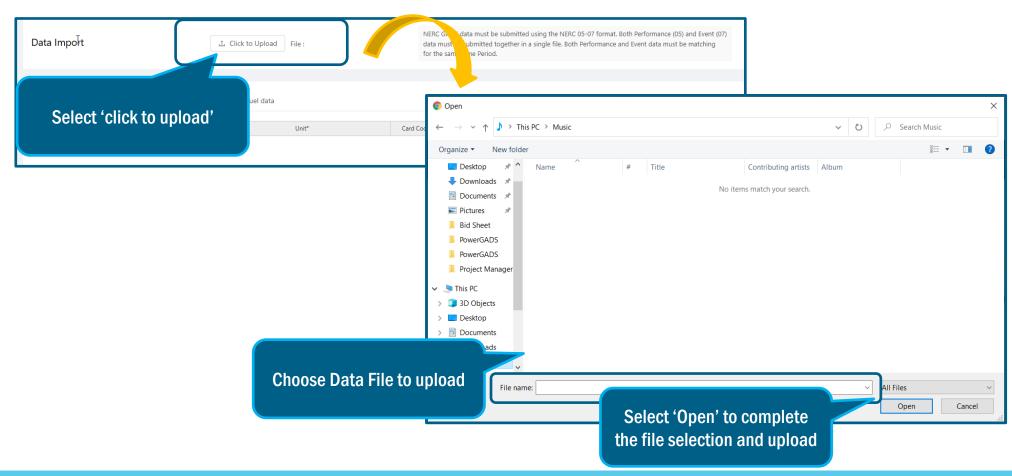


- Data Import
 - A valid GADS ASCII data file must be created prior to logging into the PGADS portal



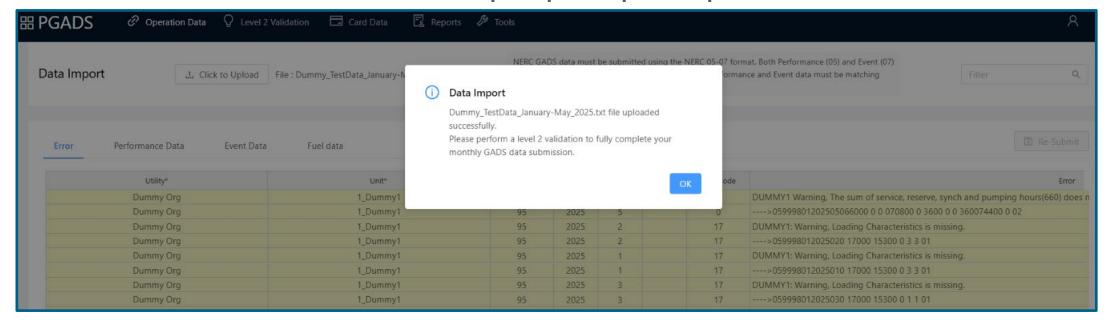


Data Import Process



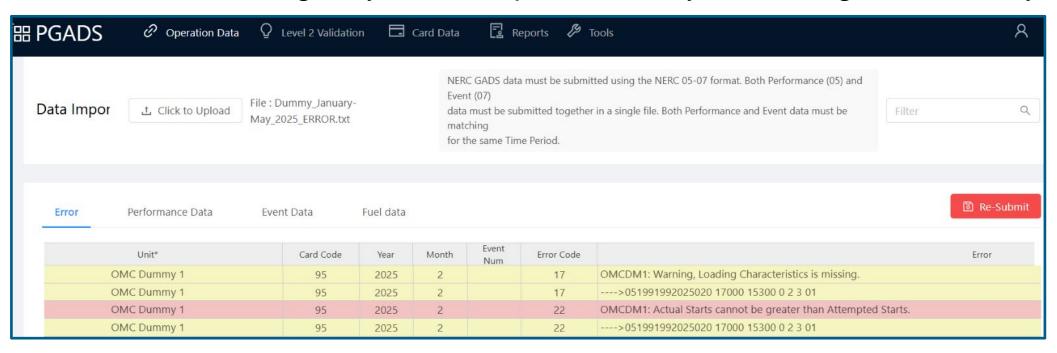


- Level 1 Validation
 - Performed automatically upon upload
 - Data Import will be followed by Level 1 Validation of the uploaded file
 - Confirms approved codes and values are used
 - Confirms necessary data fields are filled in
 - Successful Level 1 Validation will prompt a request to perform a Level 2 Validation





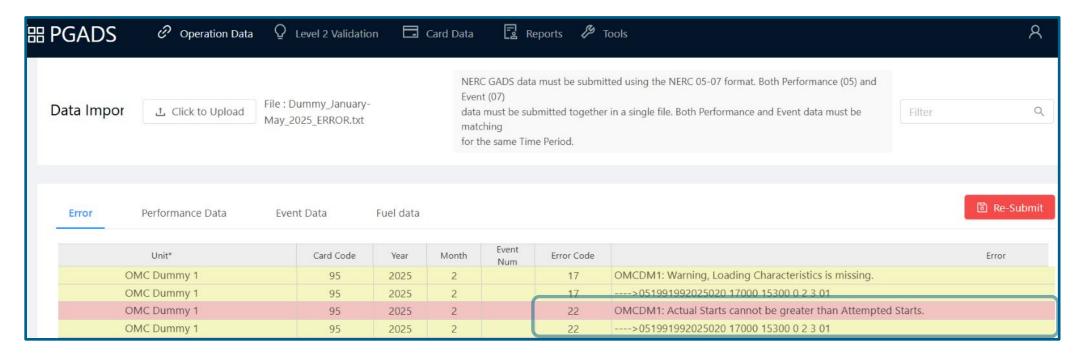
- Level 1 Validation Errors
 - An error log will display
 - Red = Fatal Error: the entire content of the file is rejected until individual errors are corrected
 - Yellow = Warning: the system will accept the data initially, but all warnings should eventually be cleared



Please refer to Appendix A of the PGADS Users Guide for a full list of Level 1 and Level 2 errors



- Level 1 Validation Errors
 - An error log will display
 - Line 1 of the error provides a description of the error
 - Line 2 of the error provides the line in the data causing the error



PGADS Portal Options: Operational Data New York ISO Data

- Level 1 Validation Errors
 - Correcting the error
 - Option 1 correct the GADS data offline and re-upload the corrected file
 - Option 2 navigate to the performance or event tab and edit the data online*

Select the 'Performance Data'

NOTE: Not all errors and warnings can be corrected within the PGADS portal

Any navigation away from the screen before selecting re-submit will result in a loss of data tab to correct errors

Re-submit the form with the corrected data

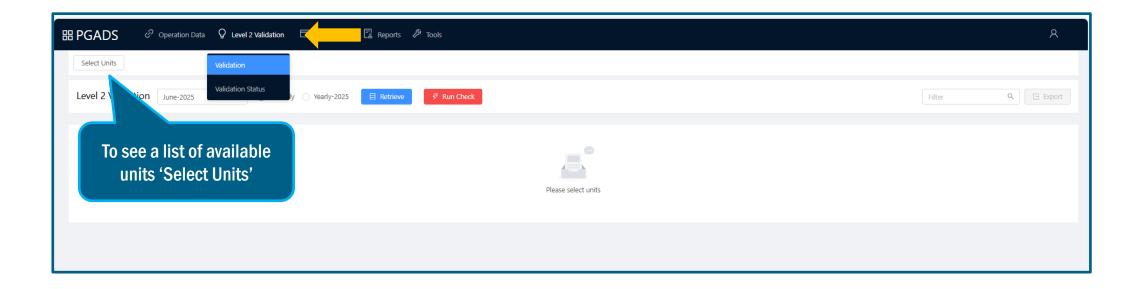
Error	Performance Data	_	Event Data	Fuel	data						[□ Re-	Submit
Unit*		Year*	Month*	Revision Code	Net Maximum Capacity	Net Dependable Capacity	Net Actual Generation	Load Characteristics	Attempted Starts	Actual Starts	Service Hours	Reserve Hou
1_Dummy1		2025	2	R (Replace)	170.00	153.00	0.00		3	3	456.00	72.00
1_Dummy1		2025	5	D (Delete)								

*If a user chooses the option to edit the data online, the user must reflect the exact changes made online in their personal records offline so that both the online and offline records are an exact match



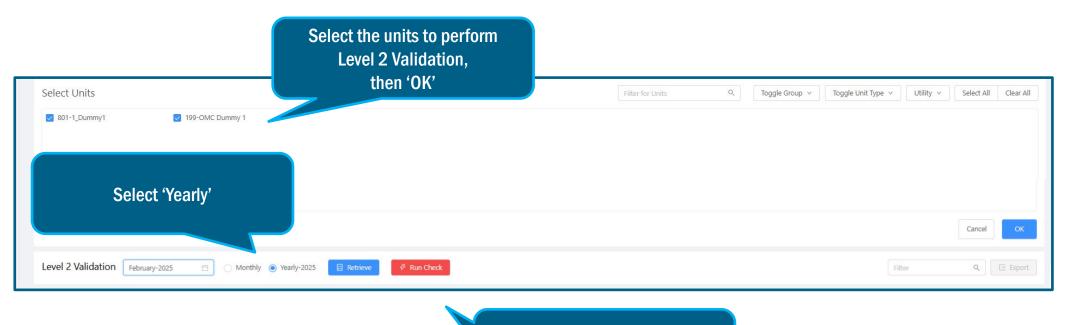
Level 2 Validation

- Uploaded data is cross-checked between the event and performance data for accuracy
- All data must be validated by the 20th day of the month for the previous month's data
- Can be performed by unit





- Level 2 Validation
 - Select the units to perform the Level 2 Validation
 - 'Run Check' to perform the Level 2 Validation

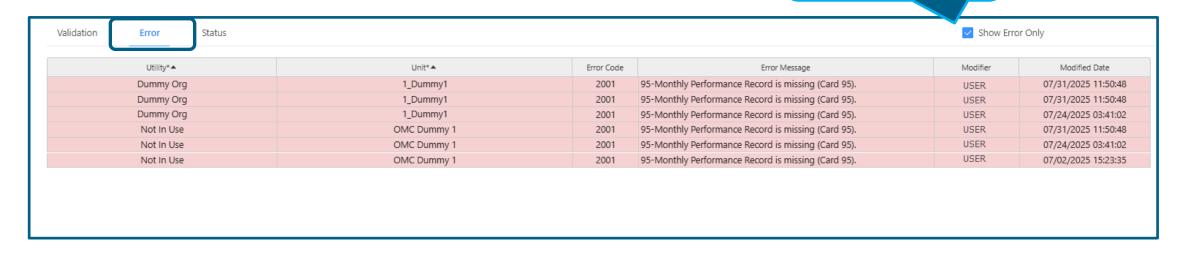


'Run Check' to perform the Level 2 Validation



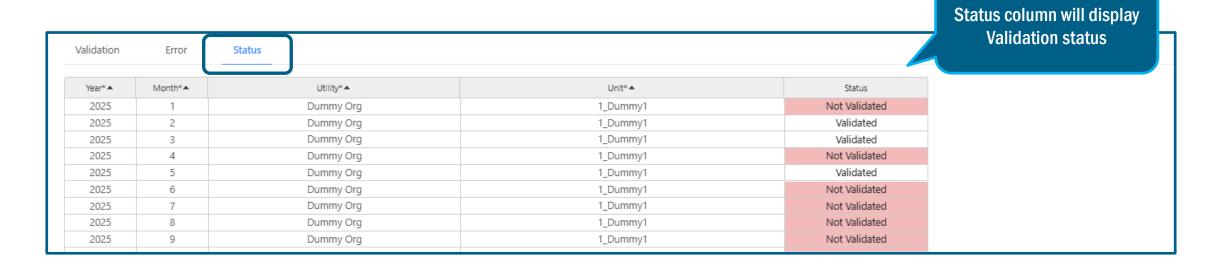
- Level 2 Validation
 - Fatal errors at this level will need correction in the original offline GADS ASCII file
 - Correct the file
 - Repeat the Data Import process

Select 'Show Error Only' to view a list of errors needing attention



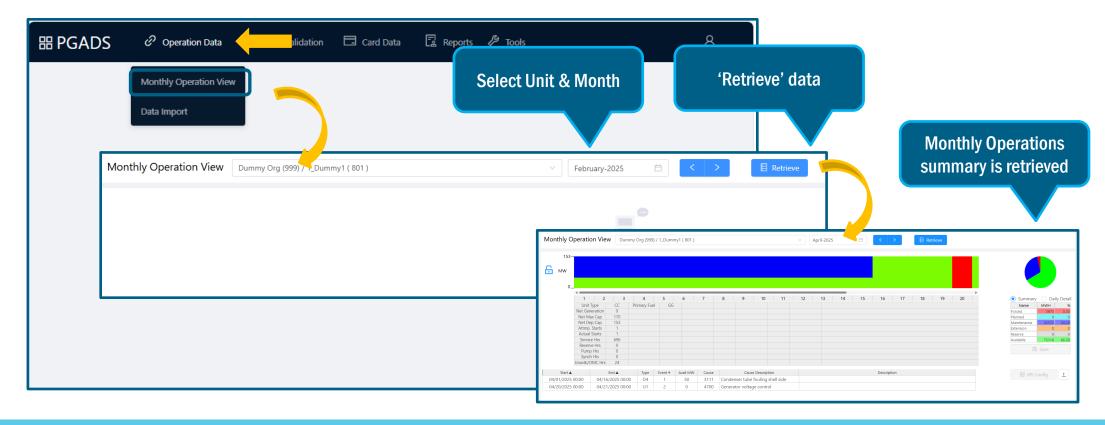


- Level 2 Validation
 - Successful Level 2 Validations can be viewed by 'Monthly Operation View'
 - 'Not Validated' requires correction in the original offline GADS ASCII file
 - Only units that do no pass Level 2 Validation have to be re-validated



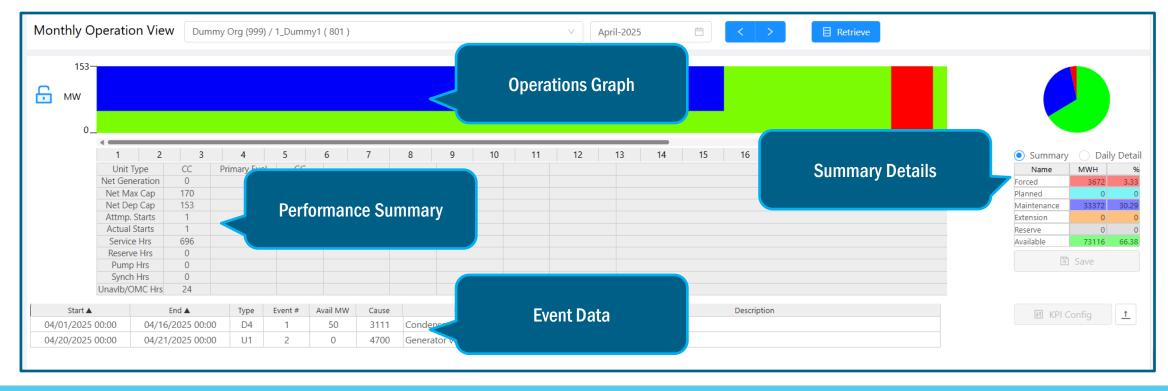


- Monthly Operation View
 - Presents a monthly view of the validated event and performance data for the selected unit(s)





- Monthly Operation Summary
 - There are four sections of data: Operations Graph, Performance Data, Event Data, and Summary/Daily Detail





- Monthly Operation Summary
 - Select the 'Daily Details' to view by day





PGADS Portal Options: Card Data

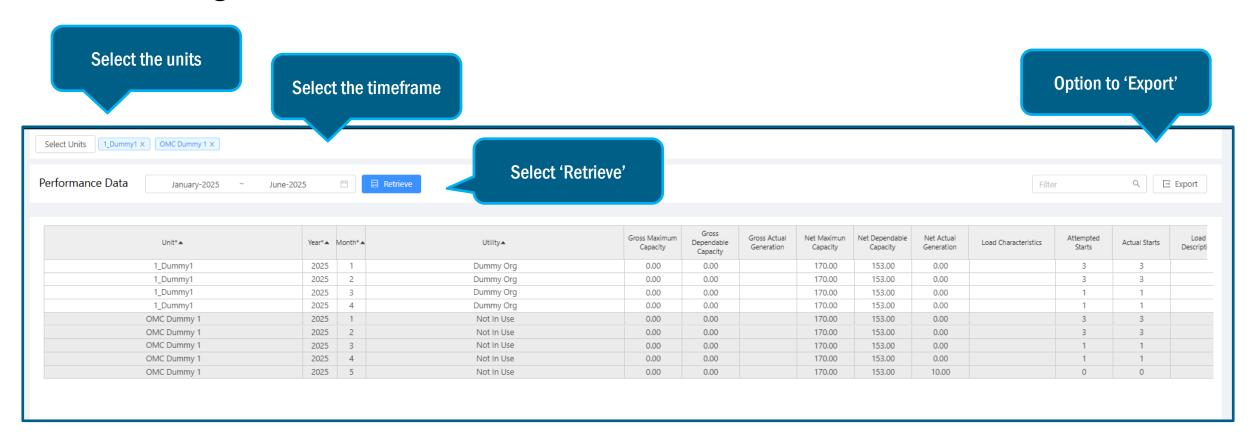
- Card Data Options
 - Card95 Generation Performance Data
 - A unit's actual generation data for the month
 - Card97 Event Data
 - Each time a unit experiences a change in operating status or capability, that event is recorded
 - Card History Data
 - Full modification history is recorded for card records





PGADS Portal Options: Card Data

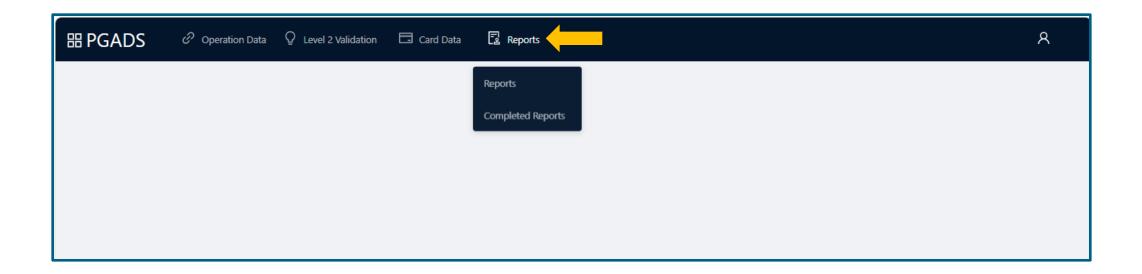
Retrieving Card Data





PGADS Portal Options: Reports

- Reports
 - Reports
 - Allows the user to run and download reports
 - Completed Reports
 - Allows the user to retrieve reports that have run in the background

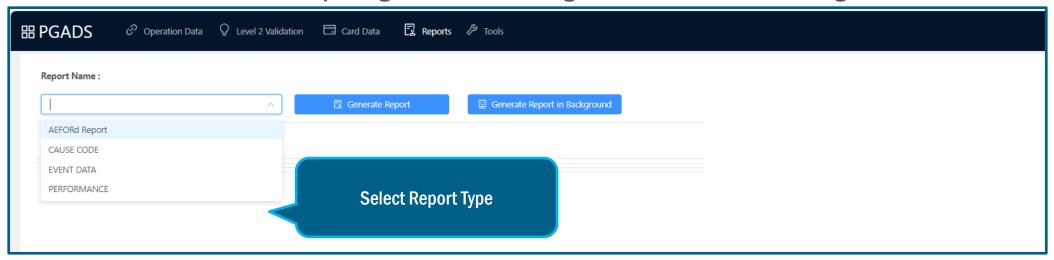




PGADS Portal Options: Reports

Report Types

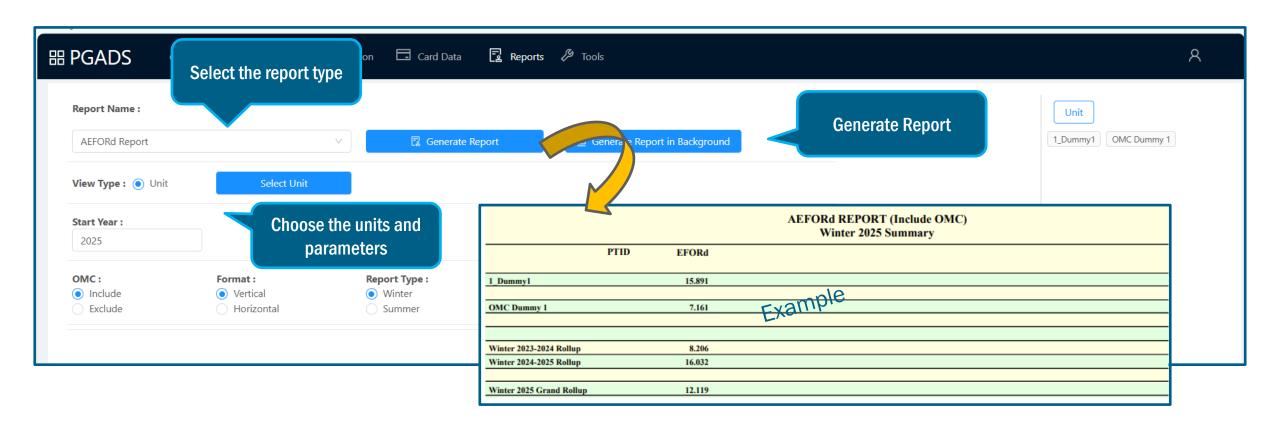
- AEFORd report generates AEFORd metrics that will be used in the Installed Capacity market
- Cause Code report generates a summary of events grouped by cause for unit(s) selected
- Event Data report generates a summary of events by type using Card97 data
- *Performance Data* report generates a listing of data submitted through Card95





PGADS Portal Options: Reports

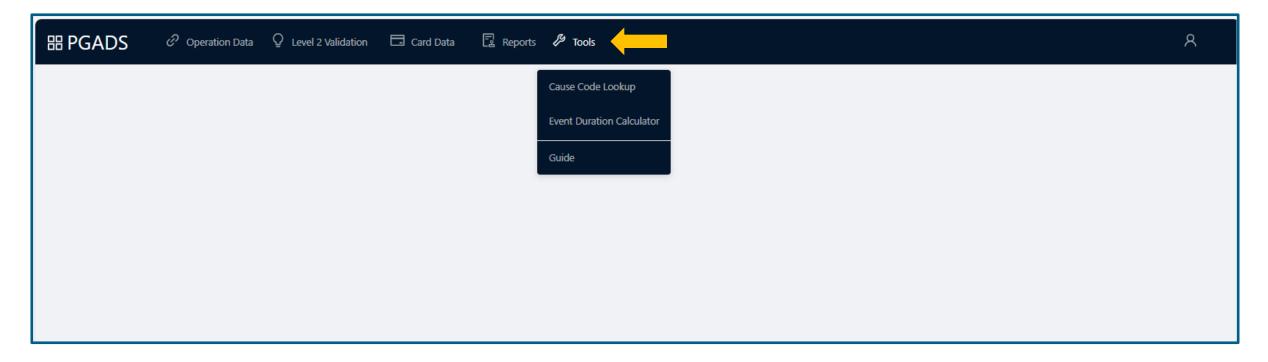
Example Report Generation





Available Tools

- Cause Code Lookup
- Event Duration Calculator
- Guide





Cause Code Lookup

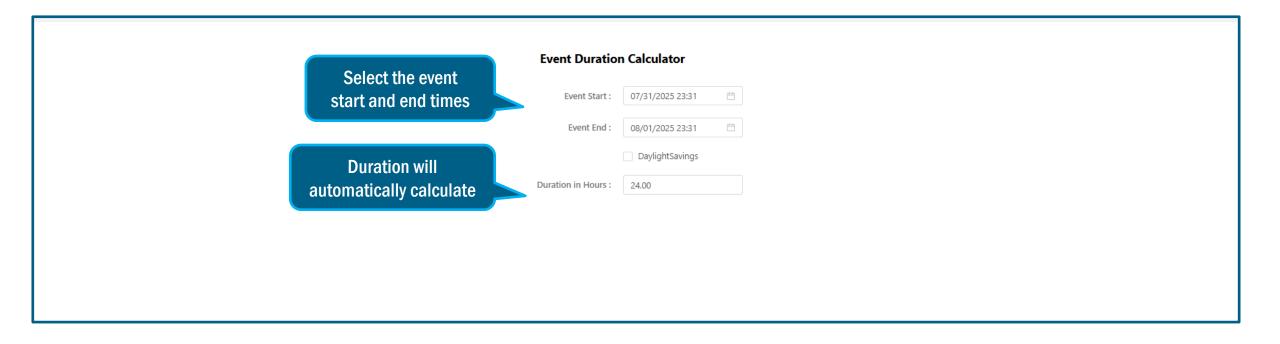
Select the unit type

Provides the ability to search for event cause codes and descriptions

Cause Code Look Up Select Unit Type Collapse All Balance of Plant Boiler Choose from the Expander Turbine External options + Gas Turbine Generator + HRSG Boiler Heat Recovery Steam Generator (HRSG) Inactive States Internal Combustion/Reciprocating Engines Jet Engine Miscellaneous

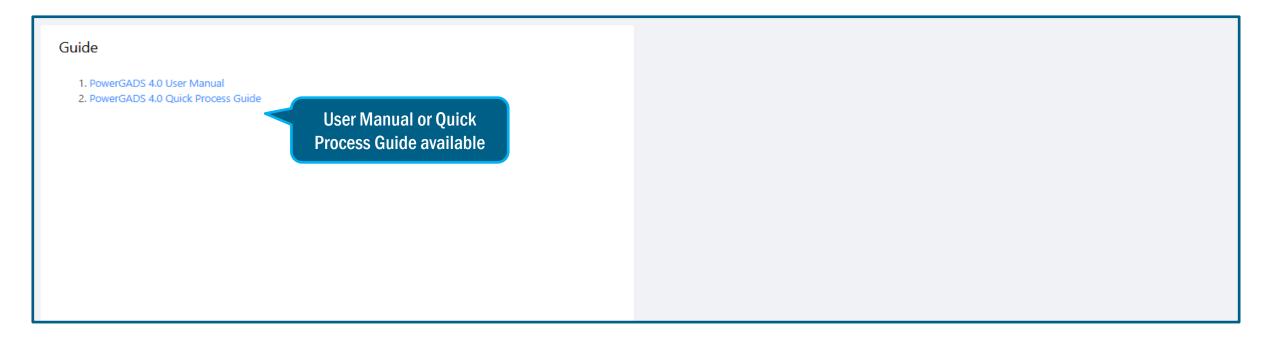


- Event Duration Calculator
 - Provides the ability to calculate the duration of an event in hours





- Guide
 - Provides access to the PowerGADS User's Guide

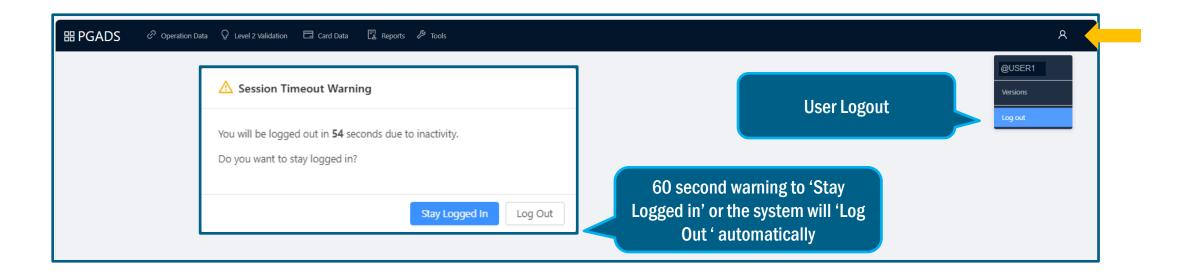




PGADS Portal Options: Account

Person Icon

- Displays the name of the user currently logged in
- Before closing the browser, the user should log out of the PGADS portal *NOTE:* If an idle session lasts longer than 15 minutes, the user will be logged out



Summary of Process



- 1. Uploaded file will prompt an automatic Level 1 Validation
- 2. User must select units and 'Run Check' for Level 2 Validation
- 3. User must correct errors in the user's offline GADS ASCII file and resubmit file or make changes in the PGADS portal directly
- 4. User must select 'Re-submit' each time a correction is made in the PGADS Portal to save the change
- User must validate the GADS Data pertaining to the previous month, no later than the 20th day of each month
- 6. User can confirm accurate reporting through the 'Monthly Operation View'

Note: All on-line corrections or edits to GADS Data should also be reflected in the User's GADS offline database, so the change is retained for the next upload



Important Items to Consider



Select 'Re-submit' frequently because, if the session times out prior to selecting the "re-submit" button, all data entered in that session will be lost

Submit only <u>Year-to-Date</u> data

All online PGADS corrections or edits should <u>also be reflected in the</u>
User's offline GADS ADCII database



Additional Resources

- Tariff:
 - Market Administration and Control Area Services Tariff
- Manuals:
 - Installed Capacity Manual
 - Installed Capacity Manual, Attachment J and K
- User's Guides:
 - PowerGADS User's Guide
 - Market Participants User's Guide
- Market Training materials:
 - GADS Training E-learning suite
 - GADS Frequently Asked Questions
 - NAESB Digital Certificate e-learning module

For any future assistance:
Please contact NYISO Stakeholder Services at stakeholder_services@nyiso.com or by phone at (518) 356-6060