NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Connected Storage Performance

GADS Solar Training - Module 8

May 2024

RELIABILITY | RESILIENCE | SECURITY




Storage Performance

- Concepts
- Add Storage Performance
- Storage Performance Update
- Validations
- Export, correct, and reimport
- Storage Performance Import (Excel)
- Append, Update, Full Replace

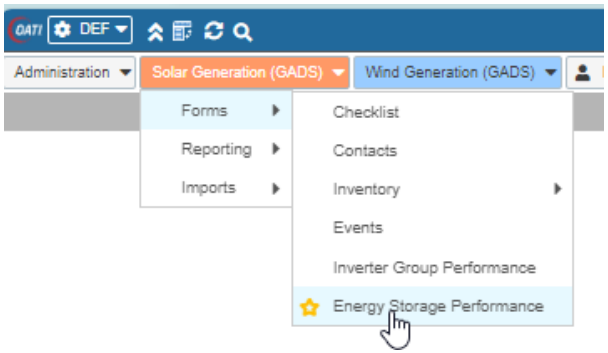
Acknowledgement

- All graphics (screen shots) in this presentation are courtesy of Open Access Technology International (OATI), Inc.

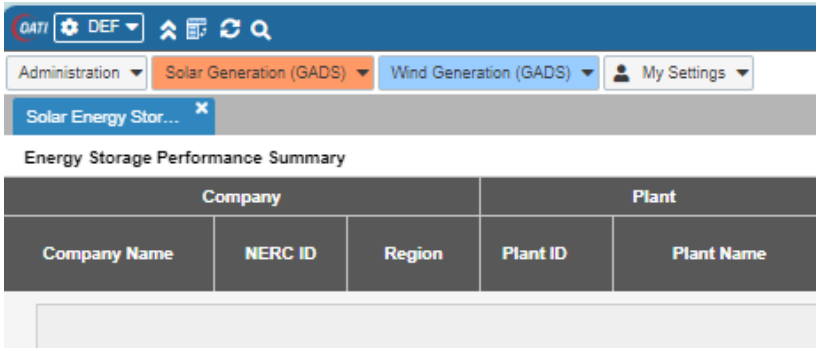
Storage Group Performance – User Interface

Adding Storage Group Performance

- Login to the NERC GADS OATI Wind and Solar Portal
- Click on Solar Generation (GADS)
- Hover over Forms and then click Energy Storage Group Performance

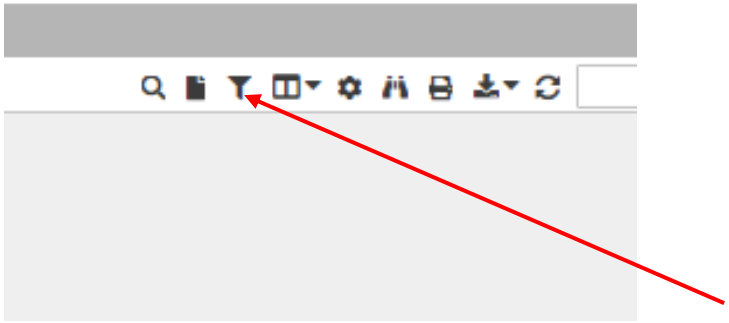


- A list of Storage Group performance records (if any) will appear



Adding Storage Group Performance

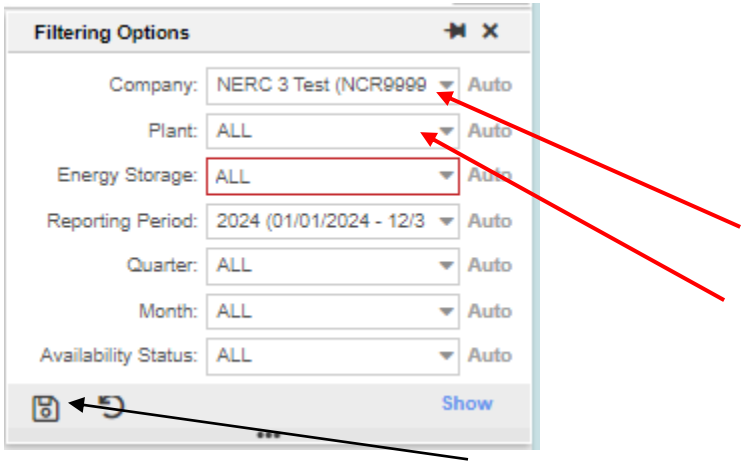
- You can edit the existing event information by clicking on a storage group performance record or you can create a new record
- You may need to filter (top right of screen) for a certain company and plant before adding a new event



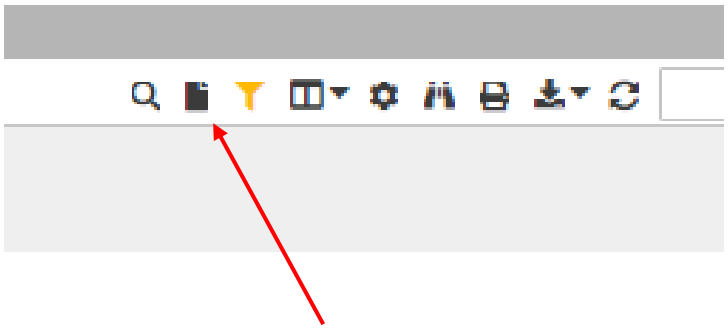
- Click the filter icon to select a company and plant

Adding Storage Group Performance

- Select a company from the filter and click the floppy disk icon to filter

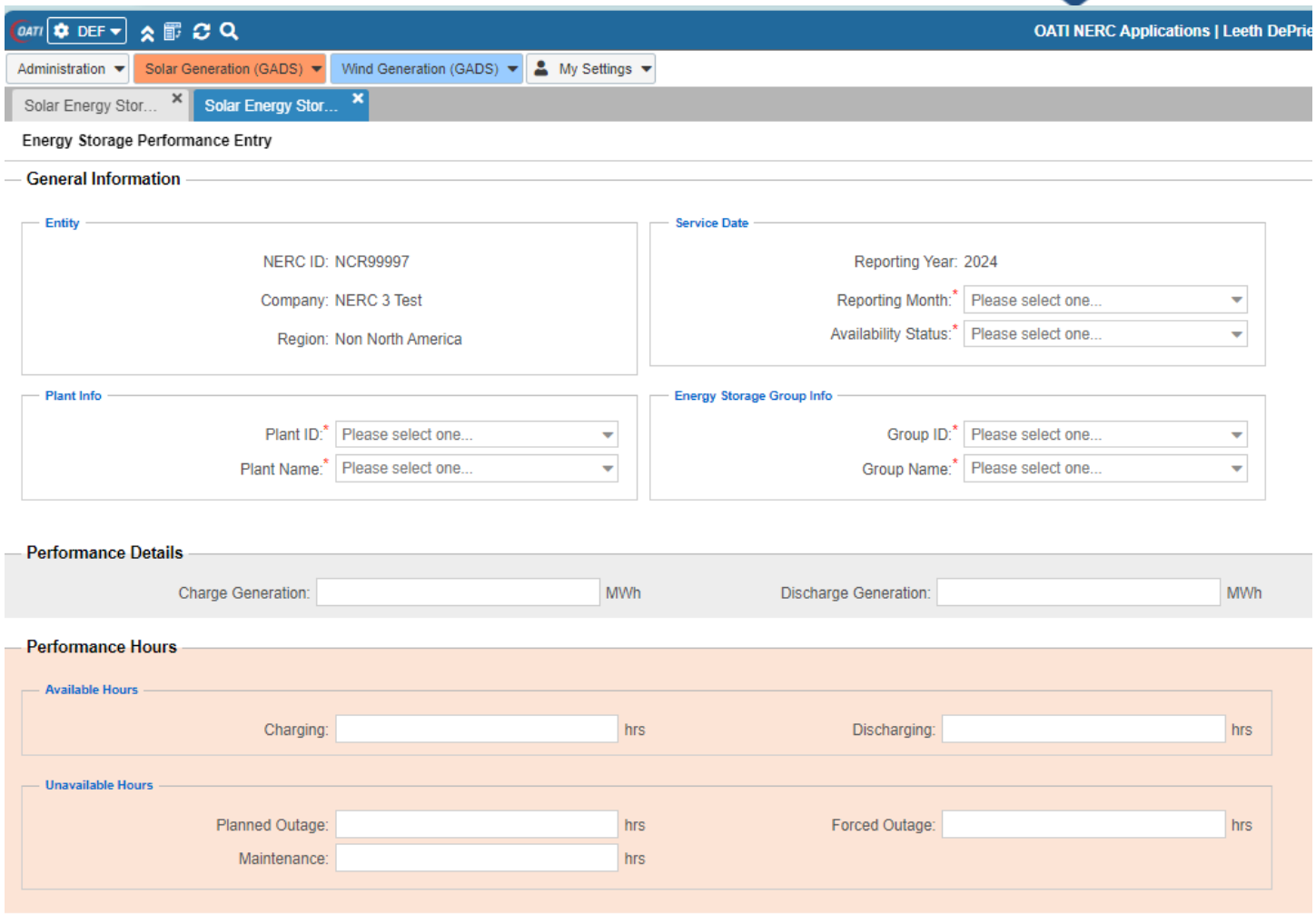


- Select the new icon to create a new plant



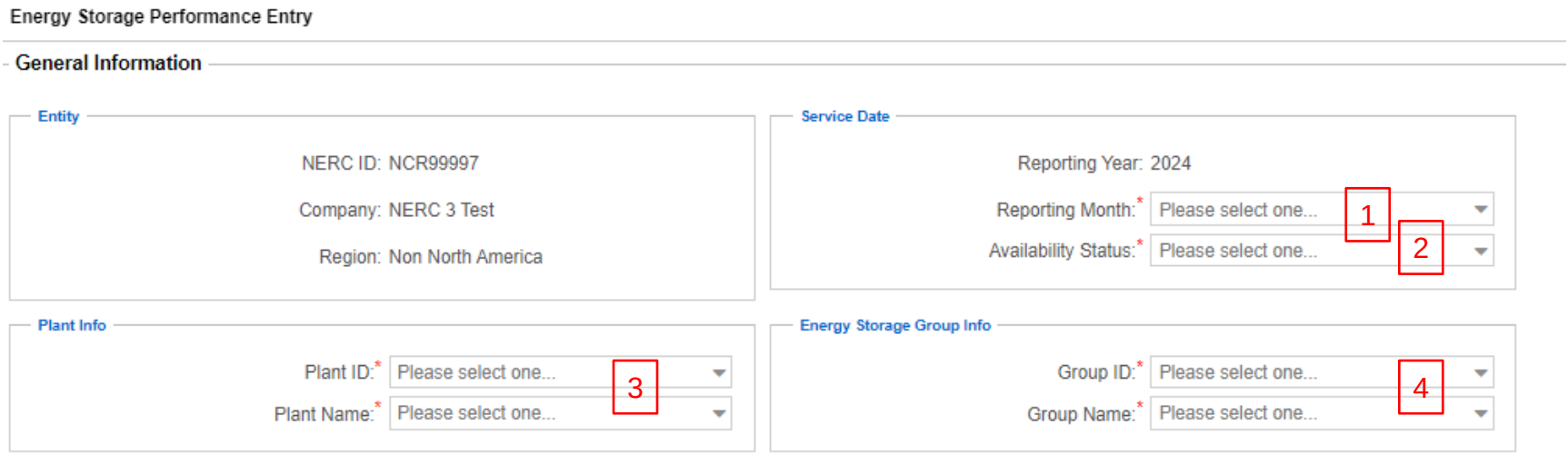
Adding Storage Group Performance

- The following screen will appear
- Let's look closer at each section



Adding Storage Group Performance

- The NERC ID, company, and region are populated because this company was chosen in the filter



1. Select the reporting month from the picklist
2. Select the availability status from the picklist
3. Select the plant ID from the picklist or select the plant name from the picklist
4. Select the storage group ID from the picklist or select the storage group name from the picklist

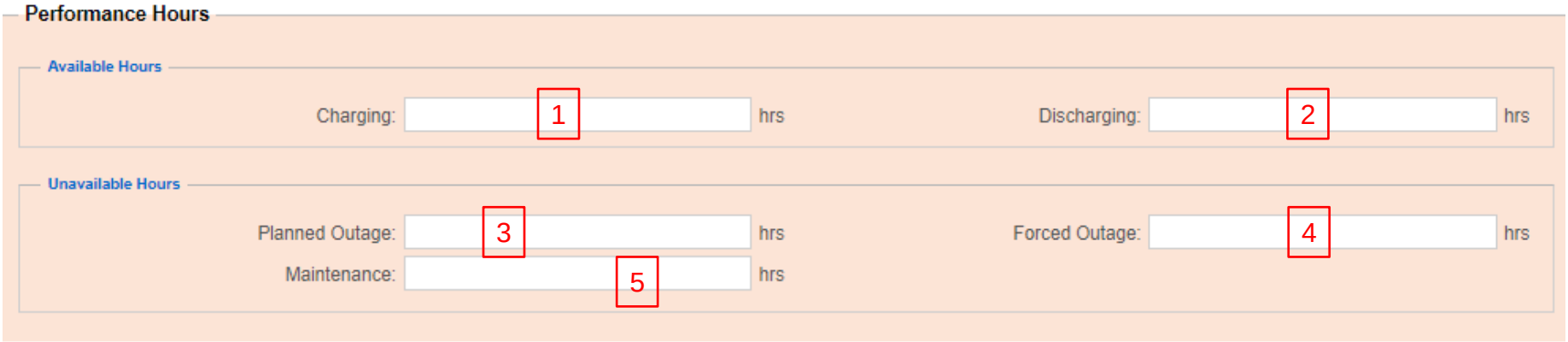
Adding Storage Group Performance

- This part of the screen is for performance details entry

1. Enter the number of MWh used to charge the energy storage device
2. Enter the number of MWh that were discharged (generated) from the energy storage device

Adding Storage Group Performance

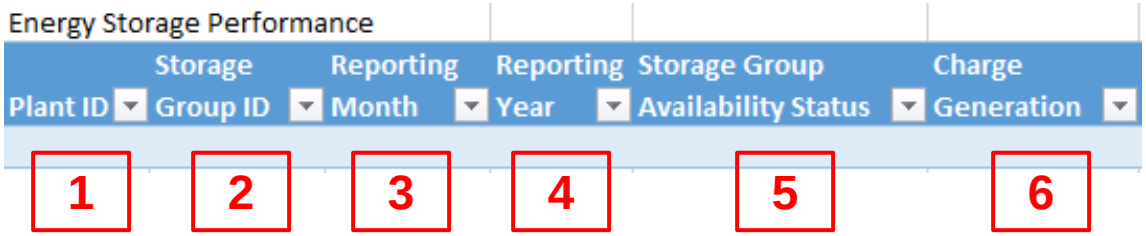
- This part of the screen is for performance hours entry



1. Enter the number of hours the energy storage group was charging
2. Enter the number of hours the storage group was discharging
3. Enter the number of planned outage hours
4. Enter the number of forced outage hours
5. Enter the number of maintenance outage hours

Storage Group Performance – Excel Template

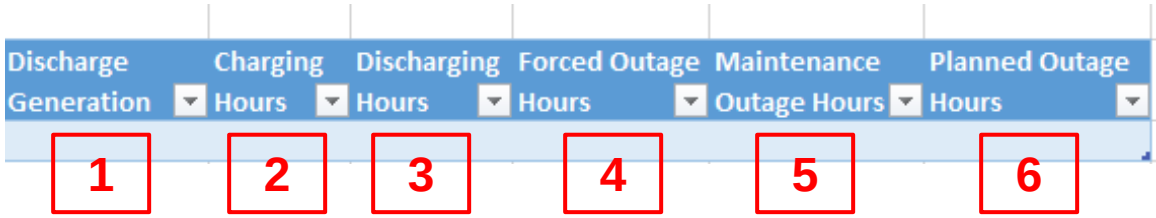
Energy Storage Performance Record



- *Remember the pop-up windows provide helpful information*

1. Enter the NERC plant ID
2. Enter the energy storage group ID
3. Enter the number of the reporting month
4. Enter the reporting year
5. Select the storage group availability status from the picklist
6. Enter the MWh of charge generation

Energy Storage Performance Record

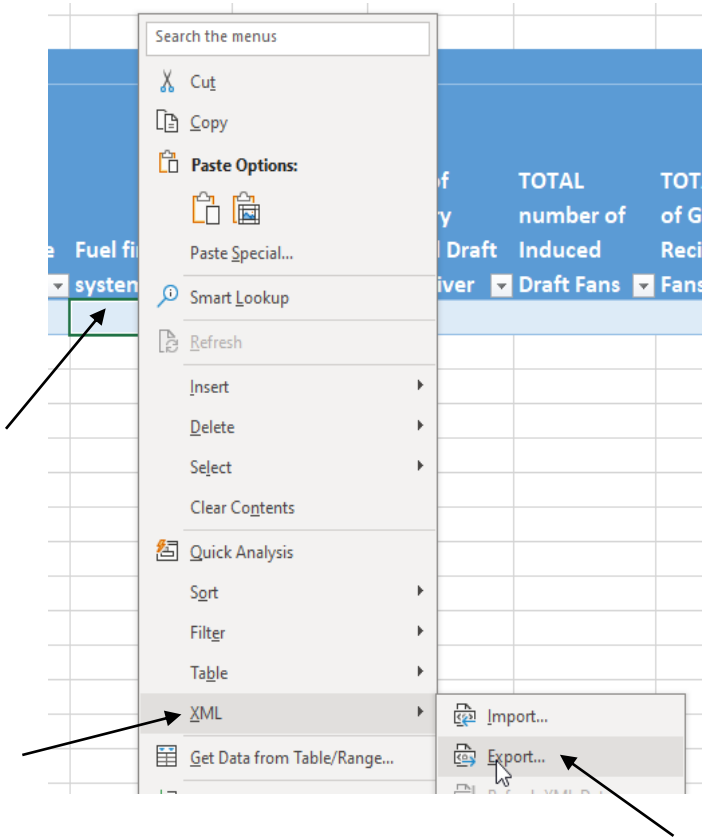


- *Remember the pop-up windows provide helpful information*

1. Enter the MWh of discharge generation
2. Enter the number of charging hours for the energy storage group
3. Enter the number of discharging hours for the energy storage group
4. Enter the number of hours that the energy storage group was in a forced outage state
5. Enter the number of hours that the energy storage group was in a maintenance outage state
6. Enter the number of hours that the energy storage group was in a planned outage state

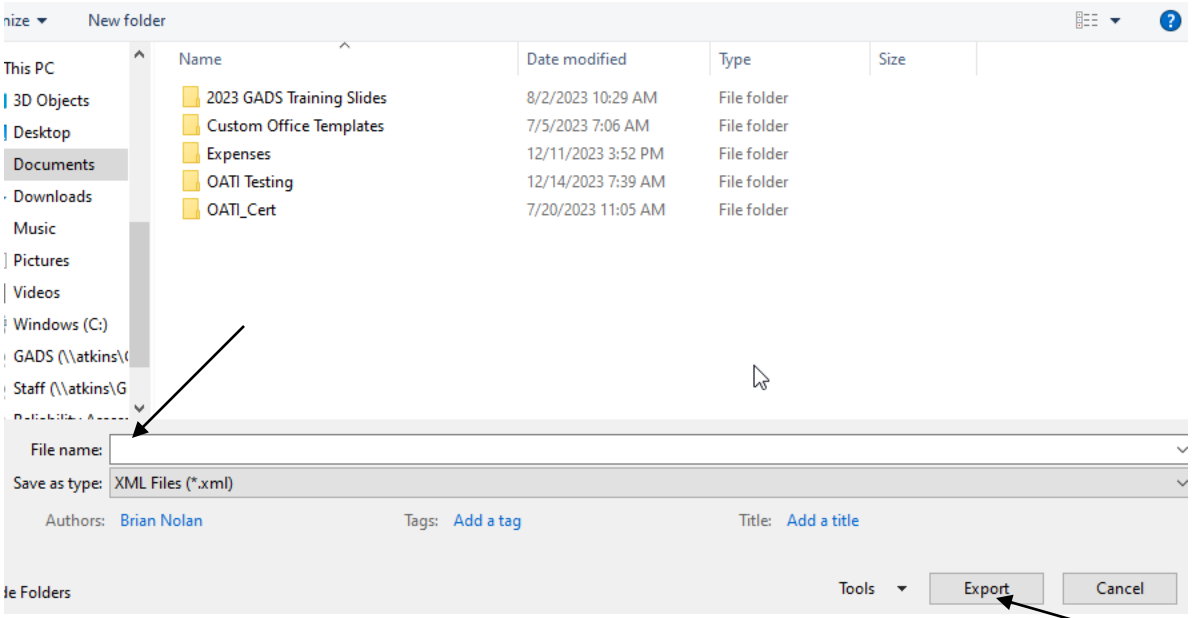
Energy Storage Performance Records

- You are now ready to export your Energy Storage performance data file to OATI
- Save your Excel template to a place of your choosing
- Next create the XML file for an Energy Storage Performance Record
  - Make sure that you are on the “Storage Performance” worksheet tab
  - Right click a cell somewhere on a row of data on the “Storage Performance” worksheet
  - Select XML from the popup menu
  - Select export from the popup menu



Energy Storage Performance Records

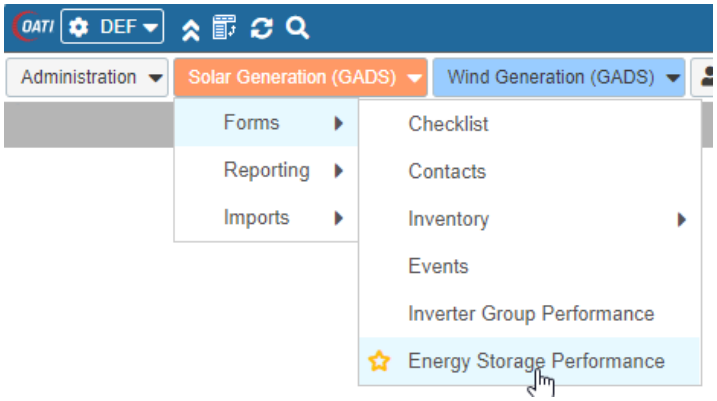
- Name the file, select where you want the file saved, and press the export button

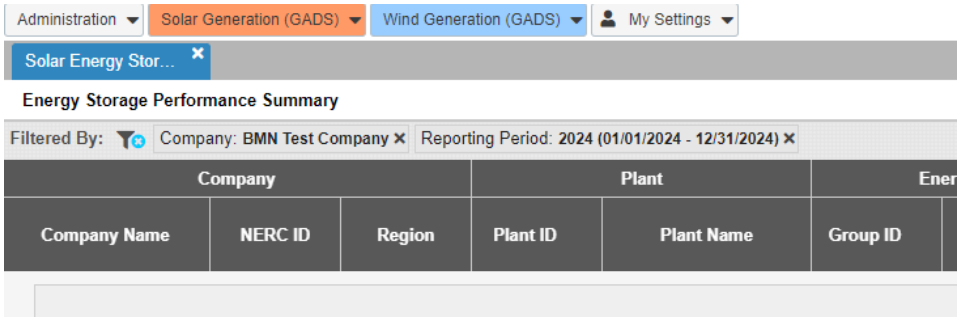


- Make note of your file name and where you saved it

Energy Storage Performance Records

- Next import the XML file into the OATI system
  - Log into the OATI Solar GADS system
  - Navigate to the appropriate menu item on the Solar interface
    - Click on SOLAR Generation (GADS) on the top menu ribbon
    - Click Forms and then Energy Storage Performance in the dropdown menu

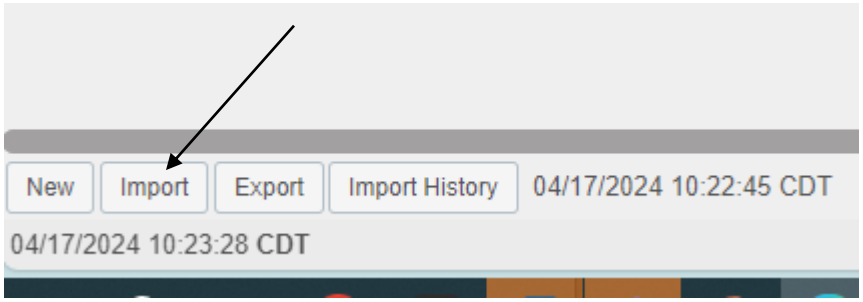




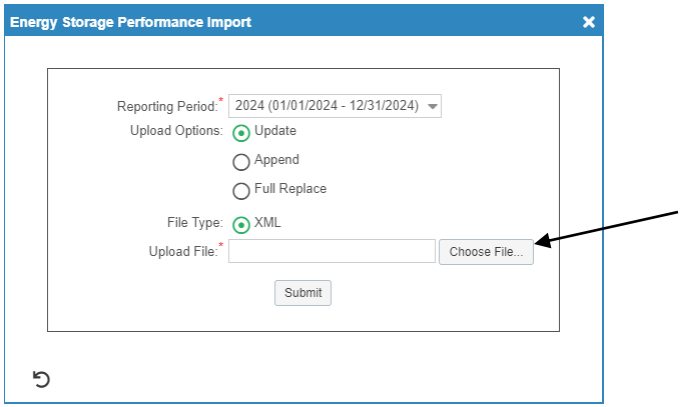
    - A list of previously created Storage Group Performance Records (if any) will appear

Exporting Energy Storage Performance Records

- An Import button will appear on the bottom left of the screen



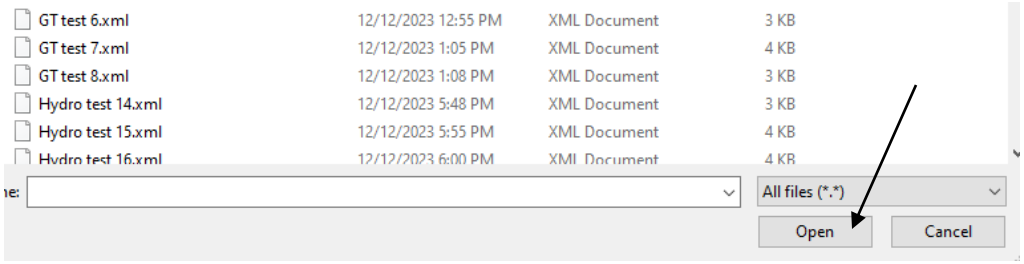
- Press the import button and the popup below will appear



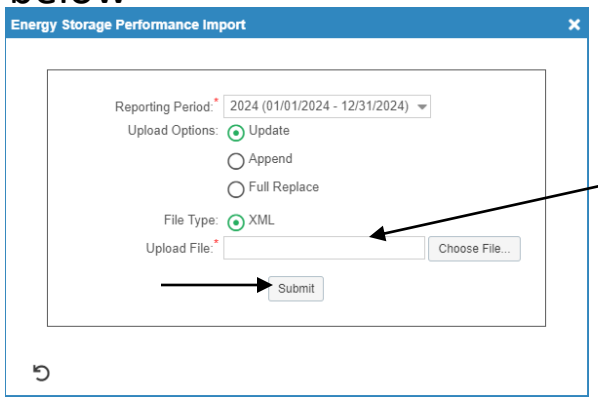
- Click the “Choose File” button on the Energy Storage Performance Import popup and navigate to where you saved your XML file

Energy Storage Performance Records

- Select the file you just created and press the “Open” button



- Click the submit button on the Energy Storage Performance Import popup shown below



File chosen in previous step will appear here

- If you correctly entered the data in your spreadsheet, your Energy Storage performance record should load without issue and is complete.

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Questions and Answers