

Connected Storage Performance GADS Solar Training - Module 8

May 2024





Storage Performance

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



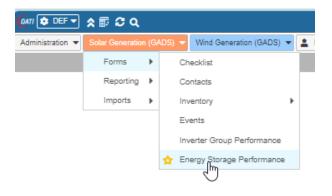
- All graphics (screen shots) in this presentation are courtesy of Open Access Technology International (OATI), Inc.



Storage Group Performance – User Interface



- 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

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Administration 💌	Solar Generation (GADS)	Wind Generation	ation (GADS) 🔻	💄 My Settings 👻				
Solar Energy Stor	r ×							
Energy Storage Performance Summary								
Company Plant								
Company Nam	ne NERC ID	Region	Plant ID	Plant Name				



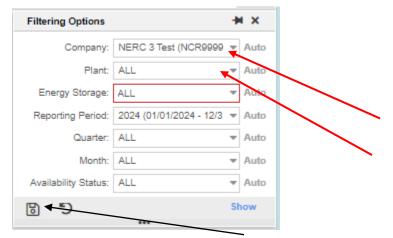
- You can edit the existing event information by clicking on a storage group performance record or you can create a new record
- You may need to filter (top right of screen) for a certain company and plant before adding a new event



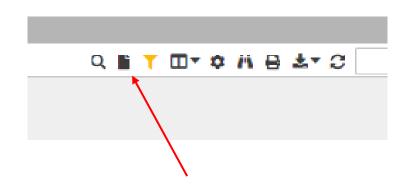
• Click the filter icon to select a company and plant



• 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

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Administration Solar Generation (GADS) Wind Generation (GADS)	💄 My Settings 👻			
Solar Energy Stor × Solar Energy Stor ×				
Energy Storage Performance Entry				
General Information				
Entity	Servic	e Date		
NERC ID: NCR99997		Reporting Year: 2	2024	
Company: NERC 3 Test		Reporting Month:*	Please select one	~
Region: Non North America		Availability Status:*	Please select one	•
Plant Info	Energ	y Storage Group Info		
Plant ID.* Please select one	~	Group ID:*	Please select one	•
Plant Name:* Please select one	▼	Group Name:*	Please select one	•
Performance Details				
Charge Generation:	MWh	Discharge Generation:		MWh
Performance Hours				
Available Hours				
Charging:	hrs	Discharging:		hrs
Unavailable Hours				
Planned Outage:	hrs	Forced Outage:		hrs
Maintenance:	hrs			

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

Energy Storage Performance Entry

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General Information	
- Entity	Service Date
NERC ID: NCR99997	Reporting Year: 2024
Company: NERC 3 Test	Reporting Month:* Please select one 1
Region: Non North America	Availability Status:* Please select one 2
Plant Info	Energy Storage Group Info
Plant ID.* Please select one	Group ID:* Please select one
Plant Name.* Please select one	Group Name:* Please select one

- 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

Performance Details		
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Charge Generation:	1	MWh
Discharge Generation:	2	MWh

- 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



• This part of the screen is for performance hours entry

Performance Hours					
Available Hours					
Charging:	1	hrs	Discharging:	2	hrs
Unavailable Hours					
Planned Outage:	3	hrs	Forced Outage:	4	hrs
Maintenance:	5	hrs			

- 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

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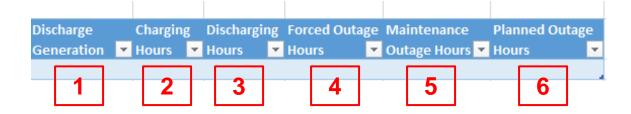
Energy Storage Performance Record



- *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



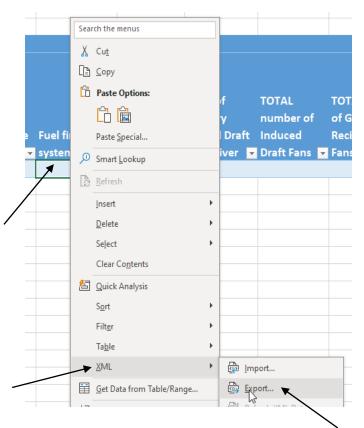
Energy Storage Performance Record



- *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



- 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



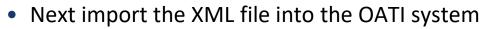


Name the file, select where you want the file saved, and press the export button

'his PC	^	Name		D	ate modified	Туре		Size		
3D Objects		2023 GADS Training Sli	des	8,	/2/2023 10:29 AM	File folde	er			
Desktop		Custom Office Templa		7,	/5/2023 7:06 AM	File folde	er			
Documents		Expenses		13	2/11/2023 3:52 PM	File folde	er			
		OATI Testing		12	2/14/2023 7:39 AM	File folde	er			
Downloads		OATI_Cert		7,	/20/2023 11:05 AM	File folde	er			
Music										
Pictures										
Videos										
Windows (C:)		/								
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File name:	<u> </u>									
Save as type: >	(ML Fil	es (*.xml)								
Authors:	Brian N	lolan	Tags:	Add a tag		Title:	Add a title			

Make note of your file name and where you saved it





- 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

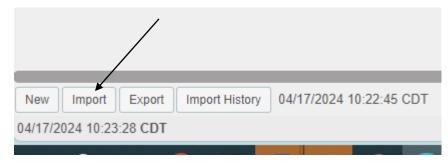
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Administration 👻	Solar Generation	n (GAE	S) 🚽 Wind Generation (GAD)S) 🔻								
	Forms	•	Checklist									
	Reporting	•	Contacts		-							
	Imports	•	Inventory	•	[Administration 👻	Solar Ge	neration (GADS)	Wind Gener	ration (GADS) 💌	💄 My Settings 👻	
			Events			Solar Energy St	or ×					
			Inverter Group Performan	ice		Energy Storage		-	11-			
			🟠 Energy Storage Performa	nce		Filtered By: Yo			npany × Repor	ting Period: 2024	l (01/01/2024 - 12/31/2024) ×	_
							Сог	mpany			Plant	E
						Company Na	me	NERC ID	Region	Plant ID	Plant Name	Group ID

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

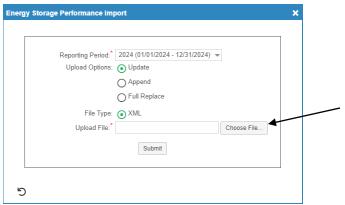


Exporting Energy Storage Performance Records

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

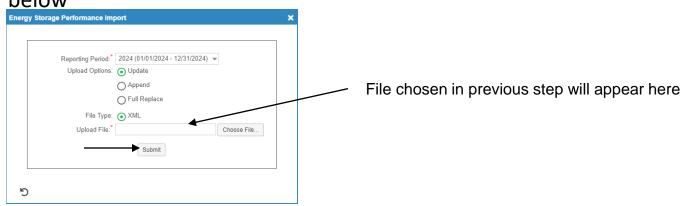


Energy Storage Performance Records

Select the file you just created and press the "Open" button

GT test 6.xml	12/12/2023 12:55 PM	XML Document	3 KB	
GT test 7.xml	12/12/2023 1:05 PM	XML Document	4 KB	
GT test 8.xml	12/12/2023 1:08 PM	XML Document	3 KB	
Hydro test 14.xml	12/12/2023 5:48 PM	XML Document	3 КВ	
Hydro test 15.xml	12/12/2023 5:55 PM	XML Document	4 KB	
Hvdro test 16.xml	12/12/2023 6:00 PM	XMI Document	4 KB	~
1e:			✓ All files (*.*)	\sim
			Open Car	ncel

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



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



Questions and Answers



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