# NERC

## **Plant** GADS Solar Training - Module 3

May 2024









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



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



**Plant – User Interface** 

## Plant – User Interface



- Login to the NERC GADS OATI Wind and Solar Portal
- Click on Solar Generation (GADS)
- Hover over Forms and Inventory, then click on Plants



• A list of plants (if any) will appear

Solar Plants ×							
Plants Summary							
Filtered By: To Company: NERC 3 Test (NCR99997   NERC 3 Test) ×							
Сотрапу							
				General Infor	mation		
Company Name	NERC ID	Region	Plant ID	Plant Name	EIA Code		
NEDC 3 Test	NCD00007	OTHER	1000002	Test 5	555		
NERG 5 Test	NCR33337	OTHER		10010			



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

	* Q 🗎 🕇	□-	¢ # 8 3	- C -
			Servic	e Date
)	Solar Regime Environment		Ownership Status	Effective Date

• Click the filter icon to select a company



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

![](_page_6_Picture_3.jpeg)

Select the new icon to create a new plant

![](_page_6_Picture_5.jpeg)

![](_page_7_Picture_0.jpeg)

#### • The following screen will appear

Administration 🔻 Solar Generation (GADS) 🔻 Wind Generation (GADS) 🔻 🛓 My Settings 👻		
Solar Plants X Solar Plants Entry X		
Plants Entry		
- Entity	Data Reporter	
NERC ID: NCR99997	Name: Leeth DePriest	
Company: NERC 3 Test	Email: leeth.depriest@nerc.net	đ
Region: Other	Phone Number:	
	Submission Date: 03/18/2024	
Plant		
Plant ID:		
Plant Name:*	Ownership Status: ID Request	· · · · · · · · · · · · · · · · · · ·
Plant EIA Code:*	Effective Date:	
ISO Resource ID:		
Connected Energy Storage:*		
Plant Location		
Country:	Time Zone:	Solar Regime Environment:
State/Province:	Plant Location Latitude (*N):	Global Horizontal Irradiance (kWh/m²):
Nearest City:	Plant Location Longitude (°W):	Inter-Annual Variance of Irradiance (%):"
	Elevation (m):	
Inverter Groups		
Intverter Group ID Inverter Group Name Commissioning Date Installed Capacity	Total Number of Inverters Inverter Manufacturer	
Reporting Periods		
2024 — Default		
Default		
Everything Reporting Status: Please select one	<b>v</b>	
Capacity At POI (MW):		

Let's look closer at each section

![](_page_8_Picture_0.jpeg)

• The entity (company) data is filled in because the company has already been created

Entity		Data Reporter
	NERC ID: NCR99997	Name: Leeth DePriest
	Company: NERC 3 Test	Email: leeth.depriest@nerc.net
	Region: Other	Phone Number:
		Submission Date: 03/18/2024

![](_page_9_Picture_0.jpeg)

#### • This part of the screen is for plant information entry

- Plant	
Plant ID:	
Plant Name:*	1
Plant EIA Code:*	
ISO Resource ID:	3
Connected Energy Storage:*	▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲
Ownership Status:* ID Request	5
Effective Date:	6

- 1. Enter the plant name. Use the same plant name as reported to EIA.
- 2. Enter the EIA plant Code (US only)
- 3. If applicable, enter the identifier assigned by an ISO or RTO
- 4. Select the whether the plant has on-site energy storage from the picklist
- 5. Select the plant ownership status from the picklist Select ID Request for a new plant
- 6. Enter the effective date of the plant ownership status as the commissioning date of the plant site.
  - For updates to an existing plant, enter the date the change became effective
     RELIABILITY | RESILIENCE | SECURITY
- 10

![](_page_10_Picture_0.jpeg)

![](_page_10_Picture_2.jpeg)

• This part of the screen is for plant location entry

Plant Location		Adding	a New Plant	
Country:*	Ψ	Time Zone:	4	v
State/Province:* 2		Plant Location Latitude (°N):*	5	
Nearest City:* 3		Plant Location Longitude (°W):*	6	
		Elevation (m):*	7	
Solar Regime Environment:* 8		-		
Global Horizontal Irradiance (kWh/m²):* 9				
Inter-Annual Variance of Irradiance (%):*	10			
Solar Regime Environment:* Global Horizontal Irradiance (kWh/m²):* Inter-Annual Variance of Irradiance (%):*	10			

- 1. Select the country from the picklist
- 2. Select the state or province from the picklist
- 3. Enter the nearest city
- 4. Select the time zone used for GADS reporting (not necessarily where the unit is located) from the picklist
- 5. Enter the plant latitude (a value from 20 through 65)
- 6. Enter the plant longitude (a value from 50 thru 135)
- 7. Enter the elevation of the physical location of the plant in meters (m)
- 8. Select the solar regime environment from the picklist
- 9. Enter the annual Global Horizontal Irradiance (a value from 800 thru 2200)
- 10. Enter the inter-annual variance of global horizontal irradiance (GHI) for the specific site

![](_page_11_Picture_0.jpeg)

- This part of the screen is for reporting period entry
  - Reporting Periods are defined on Company Reporting obligations (by Year)
  - Default Reporting Period is a placeholder to populate Reporting Periods

Peporting Periode					
Reporting Ferrous					
2024	_ 2024		1		
Default				2	
Everything		Reporting Status:	Please select one		•
		Capacity At POI (MW):			
	- Default		3	4	
		Reporting Status:	Please select one		▼
		Capacity At POI (MW):			

- 1. Select the current year (2024) reporting status from the picklist
- 2. Enter the current year (2024) capacity at the point of interconnection
- 3. Select the Default reporting status from the picklist
- 4. Enter the Default capacity at the point of interconnection
- Press the save button (floppy disk icon) on the bottom left of screen when all information has been entered

![](_page_12_Picture_0.jpeg)

**Plant – Excel Template** 

## Plant – Excel Template

![](_page_13_Picture_0.jpeg)

### **Plant Configuration Information**

![](_page_13_Figure_2.jpeg)

- Remember the pop-up windows provide helpful information
- 1. Enter the company NCR (NERC Compliance Registry) number or voluntary reporting ID
- 2. Enter the plant ID assigned by the GADS Solar application. Leave blank for new plants.
- 3. Enter the plant name. Use the same plant name as reported to EIA.
- 4. Enter the EIA plant Code (US only)
- 5. If applicable, enter the identifier assigned by an ISO or RTO
- 6. Select the country from the picklist
- 7. Enter the nearest city
- 8. Select the state or province from the picklist
- 9. Select the time zone used for GADS reporting (not necessarily where the unit is located) from the picklist.
- **10**.Enter the plant latitude (a value from 20 through 65)

![](_page_14_Picture_0.jpeg)

![](_page_14_Figure_2.jpeg)

- Remember the pop-up windows provide helpful information
- 1. Enter the plant longitude (a value from 50 thru 135)
- 2. Enter the elevation of the physical location of the plant in meters (m)
- 3. Select the solar regime environment from the picklist
- 4. Enter the Global Horizontal Irradiance (kwh/square meter)
- 5. Enter the inter-annual variance of global horizontal irradiance (GHI) for the specific site
- 6. Enter the capacity at the point of interconnection (capacity of interconnection agreement)
- 7. Select the whether the plant has on-site energy storage from the picklist
- 8. Select the plant ownership status from the picklist
- 9. Enter the effective date of the plant ownership status. Leave blank for new plants.

![](_page_15_Picture_0.jpeg)

### **Exporting Plant Configuration**

- You are now ready to export your Plant configuration file to OATI
- Save your Excel template to a place of your choosing
- Next create the XML file for the Plant configuration data
  - Make sure that you are on the "Plant" worksheet tab
  - Right click a cell somewhere on a row of data on the "Plant" worksheet
  - Select XML from the popup menu
  - Select export from the popup menu

![](_page_15_Picture_9.jpeg)

![](_page_16_Picture_0.jpeg)

#### **Exporting Plant Configuration**

![](_page_16_Picture_2.jpeg)

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

![](_page_16_Figure_4.jpeg)

Make note of your file name and where you saved it

![](_page_17_Picture_0.jpeg)

- 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 Inventory in the dropdown menu
    - Click Plants in the dropdown menu

🔅 DEF 🔻	* 🗊 🖸 Q												
Iministration 👻	Solar Generation	n (GA	NDS) 🚽 Wind Generation	on (GADS) 🔻	💄 My Settings 👻								
	Forms	•	Checklist										
	Reporting	•	Contacts			- 							
	Imports	•	Inventory	•	😭 Plants	Administration - Solar	Generation (GADS	3) 🔻 Wind Gene	ration (GADS) 🔻	▲ My Settings ▼			_
			Events		Inverter Groups	Plants Summary							
			Inverter Group Per	rformance	Energy Storage		Company						
			<b>FD</b>	(						General Info	ormation		
			Energy Storage Pe	ertormance		Company Name	NERC ID	Region	Plant ID	Plant Name	EIA Code	Connected Energy Storage	
						NERC 3 Test	NCR99997	OTHER	1000002	Test 5	555	Yes	Ot
									1000001	test2Plant	1822	Yes	Ot
						NERC test	NCR999999	OTHER	1000000	12345678901234567	877	Yes	Ot

A list of previously created plants (if any) will appear

![](_page_18_Picture_0.jpeg)

### **Importing Plant Configuration**

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

![](_page_18_Figure_3.jpeg)

Press the import button and the popup below will appear

Solar Plants Import	×	
Upload Options:   Upload Options:  Append  File Type:  XML  Upload File:  Submit		
5		

 Click the "Choose File" button on the Solar Plants Import popup and navigate to where you saved your XML file

![](_page_19_Picture_0.jpeg)

### **Importing Plant Configuration**

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

1e:			Open Cancel
Hvdro test 16.xml	12/12/2023 6:00 PM	XMI Document	
Hydro test 15.xml	12/12/2023 5:55 PM	XML Document	4 KB
Hydro test 14.xml	12/12/2023 5:48 PM	XML Document	3 KB
GT test 8.xml	12/12/2023 1:08 PM	XML Document	3 KB
GT test 7.xml	12/12/2023 1:05 PM	XML Document	4 KB
GT test 6.xml	12/12/2023 12:55 PM	XML Document	3 KB

Click the submit button on the Solar Plants Import popup shown below

![](_page_19_Figure_5.jpeg)

 If you correctly entered the data in your spreadsheet, your Plant configuration data should load without issue and is complete.

![](_page_20_Picture_0.jpeg)

# **Questions and Answers**

![](_page_20_Picture_2.jpeg)

#### gadssolar@nerc.net