# 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



Select the new icon to create a new plant





#### • 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



• 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



#### • 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





• 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



- 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



**Plant – Excel Template** 

## Plant – Excel Template



### **Plant Configuration Information**



- 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)





- 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.



### **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





#### **Exporting Plant Configuration**



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



- 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



### **Importing Plant Configuration**

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



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



### **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



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



# **Questions and Answers**



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