

Submitting a GO GOP Registration Request in CORES

WECC Registration Staff



Submitting a GO GOP Registration Request in **CORES** CENTRALIZED ORGANIZATION REGISTRATION ERO SYSTEM

Items Covered

- Overview of the Registration Process for a New Generator Owner (GO) and Generator Operator (GOP)
- General Information about the NERC Rules of Procedure and the Registration Criteria
- How to Submit a New GO GOP Registration Request in CORES
- How to Add a Generation Add to an Existing Registration (Footprint Change)
- Available Resources

New Entity Registration Requests

Complete Self-Evaluation

- Evaluate applicability of the BES Definition, Appendix 2, and Appendix B registration criteria

Contact WECC with Registration Questions

- WECC may advise on applicability of registration criteria and answer process questions
- Email questions to registration@wecc.org

Submit a Registration Request Through CORES

- [CORES End User Guide](#)
- Add project details and relevant documents in the Comments and Attachments section in CORES

Respond to WECC Requests for Information

- WECC reviews the request and will ask for additional information as needed

Organization Registration Requirements

- Identifies and registers BPS users, owners, and operators who are responsible for performing specified reliability functions to which requirements of mandatory NERC Reliability Standards are applicable.
 - Registered entities can face penalties or sanctions for noncompliance
- Requirements and activities for the Organization Registration Program are embodied in the FERC approved [NERC Rules of Procedure](#) (ROP):
 - ROP, Section 500 | Organization Registration and Certification
 - Appendix 2 | Definitions Used in the ROP
 - Appendix 5A | Organization Registration and Certification Manual
 - Appendix 5B | Statement of Compliance Criteria
 - Appendix 5C | Procedure for Requesting and Receiving an Exception from the Application of the NERC Definition of BES

Inclusions and Exclusions Listed in Appendix 2

Inclusions and Exclusions

Example diagrams of BES inclusions and exclusions are available in:

[BES Definition Reference Document](#)

[Application of the BES Definition to Battery Energy Storage Systems and Hybrid Resources](#)

[Application of the Registration Criteria for Category 2 GO/GOP IBRs](#)

Processes exist for submittal and consideration of Exceptions and Materiality:

- Review [Appendix 5A](#), [Appendix 5B](#), and [Appendix 5C](#)

Majority of Registrations: Category 1 and Category 2 GO and GOP

Category 1 GO/GOP

- >75 MVA connected at 100 kV or above
- BES IBRs

Category 2 GO/GOP

- ≥ 20 MVA connected at ≥ 60 kV
- Non-BES IBRs

[Defined in Appendix 2](#)

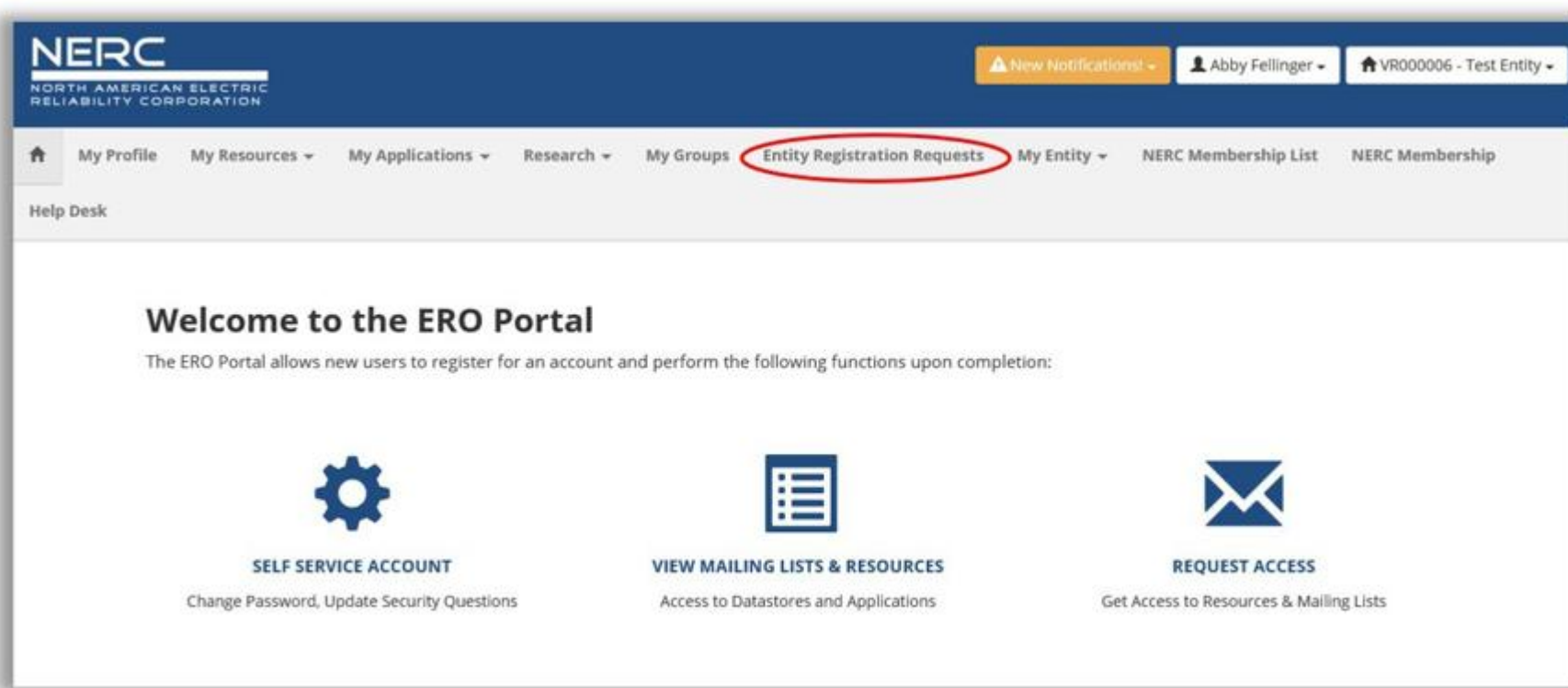
CORES Overview

What to Know about CORES

- The Centralized Organization Registration ERO System (CORES) launched on July 15, 2019, to provide consistency and alignment across the ERO for registration activities.
- The CORES platform enables entities to manage their registration information, contact information, and functional relationships from one application.
- All entities seeking to submit a new registration application must register for an ERO Portal account (<https://eroportal.nerc.net/>) and will need to complete the steps for multi-factor authentication that automatically appear when attempting to log into the ERO Portal for the first time.

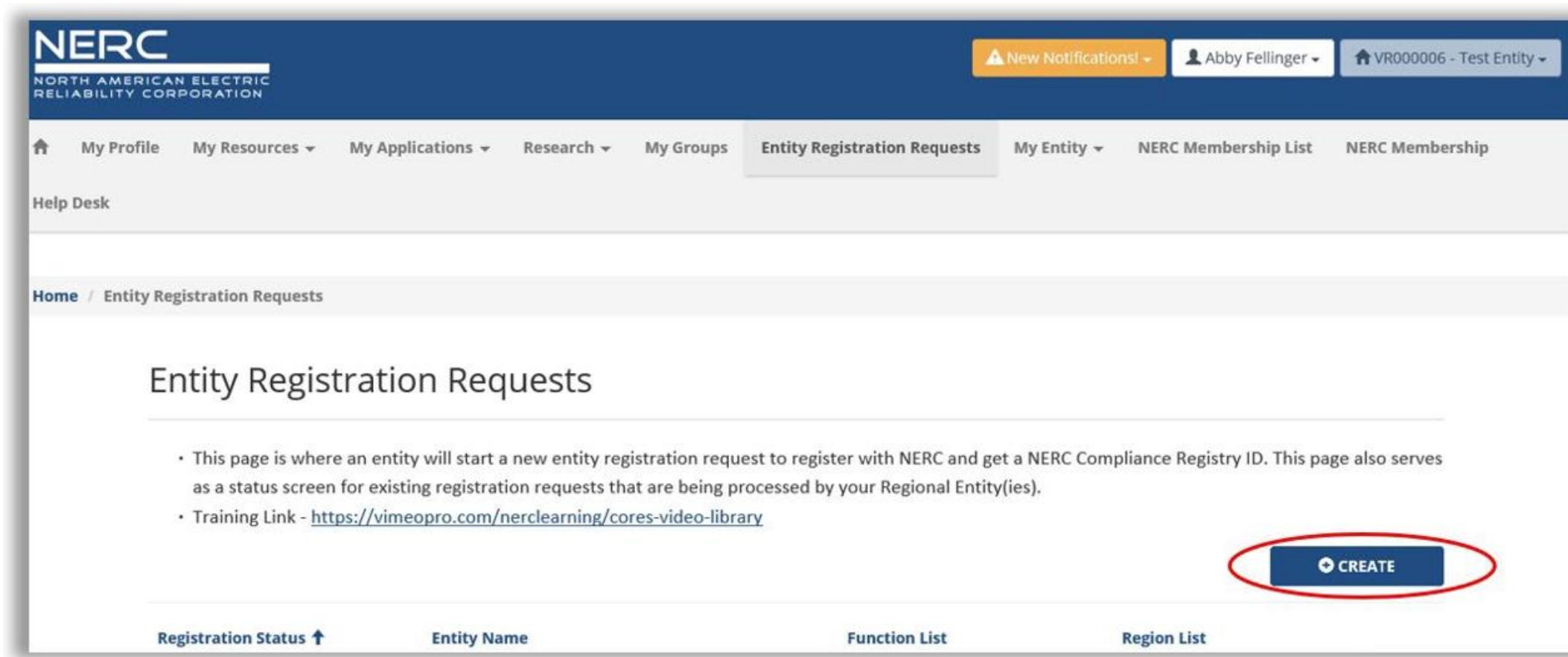
Creating a New Registration Application in CORES

- Log into the ERO Portal (<https://eroportal.nerc.net/>)
- Select the **Entity Registration Requests** tab



Creating a New Registration Application in CORES

- Select the **Create** button to begin a new application



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New Notifications! ▾ Abby Fellingner ▾ VR000006 - Test Entity ▾

My Profile My Resources ▾ My Applications ▾ Research ▾ My Groups Entity Registration Requests My Entity ▾ NERC Membership List NERC Membership

Help Desk

Home / Entity Registration Requests

Entity Registration Requests

- This page is where an entity will start a new entity registration request to register with NERC and get a NERC Compliance Registry ID. This page also serves as a status screen for existing registration requests that are being processed by your Regional Entity(ies).
- Training Link - <https://vimeopro.com/nerclearning/cores-video-library>

Registration Status ↑ Entity Name Function List Region List

CREATE

New Entity Registration – Basic Information

■ Enter applicable information

Enter the corporate address

Basic Information

Entity Name •
Running Solar

Acronym
RS

Phone
555-555-5555

Website

Has a NERC-Led Panel Request been submitted? •
☒ No ☐ Yes

Has a BES Exception Request been submitted? •
☒ No ☐ Yes

Street 1 •
123 Test Ave

Street 2

City •
Hollywood

State/Province •
California

Zip Code •
90027

Country •
US

Basic Information

Upstream Holding Companies

Contact Roles

Registration Scopes

Functional Mapping

Comments and Attachments

Submit Entity Registration Req

UPDATE BASIC INFORMATION REQUEST

The record will be auto saved after selecting the Update Basic Information Request Button.

New Entity Registration – Draft Application


- The record can be continued or accessed later as a draft

Home / Entity Registration Requests

Entity Registration Requests

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- Training Link - <https://vimeo.com/nerclearning/cores-video-library>

[CREATE](#)

Registration Status ↑	Entity Name	Function List	Region List
Draft	Running Solar		

New Entity Registration – Upstream Holding Company

- If applicable, enter the top tier Holding Company and NERC registered affiliates

UPSTREAM HOLDING COMPANIES AND AFFILIATES

Has Companies? *

☐ No ☒ Yes

[Add Company/Affiliates](#)

Company Type ↑	Non Registered Entity ↑	Registered Entity	NERC Number (Registered Entity)	Description
Affiliate		Test Company 2	NCR55555	NERC Affiliate
Holding Company	AAA			Holding Company

✓

Basic Information

✓

Upstream Holding Companies

○

Contacts

○

Registration Scopes

○

Functional Mapping

○

Comments and Attachments

Submit Entity Registration Req

Note: A list of NERC registered entities can be reviewed here: [NCR Active Entities List](#)

New Entity Registration – Contacts

- **Add the following:** Primary Compliance Contact, Primary Compliance Officer, and Alternate Compliance Contact(s). **Note:** If the entity record is managed by another party, an owner representative must be listed within one of the contact roles.

Home / Entity Registration Requests / Contacts

- This form is where you will enter the contacts for your registering entity.
The two required contacts for registration are Primary Compliance Contact and Primary Compliance Officer.
Primary Compliance Officer and Authorizing Officer are synonymous.
Registered entities may upload a document to describe the mapping between older terms and the new terms on the comment and attachment form.
This form has other voluntary contact types available.
- Training Link

CONTACTS

[Add Contact](#)

Role Type	Business Phone (Contact)	Mobile Phone (Contact)	Job Title (Contact)	E-mail (Contact)	Address 1 (Contact)	Name (Region)
↑ Contact						

There are no records to display.

Note: Each contact must have an active ERO Portal account.

- Basic Information
- Upstream Holding Companies
- Contacts
- Registration Scopes
- Functional Mapping
- Comments and Attachments
- Submit Entity Registration Req

New Entity Registration – Registration Scopes

■ Add applicable functions and expected registration date

- This form is used for specifying the functional registrations for your organization as functions are defined in the Registry Criteria under the NERC Rules of Procedure. The function, region, jurisdiction and proposed effective date for the registration are required fields.
- [Training Link](#)

REGISTRATION SCOPES

Add Registration Scope

Function ↑	Category	Region	Effective Date	Regulatory Jurisdiction	Description	Submitted By
Generator Owner	Category 1	WECC	8/14/2025	United States	The test power sync date was entered as 8/3/2009, which...	Abby Fellinger

Create

Function *

Generator Owner (GO) x Q

Region *

WECC x Q

Jurisdiction *

United States x Q

Proposed Effective Date *

Category *

Category 1
Category 2

Submitted By

Abby Fellinger x Q

Note

Power Sync

Test Power Sync Date *

Submit

- This example reflects selecting either a Category 1 or Category 2 GO.
- For Category 1, the Commercial Operation Date (COD) should be entered as the **Proposed Effective Date**.
- For Category 2, enter May 15, 2026, as the **Proposed Effective Date**.
- **Note:** A **Test Power Sync Date** must be entered.

New Entity Registration – Functional Mapping

- Enter Functional Mapping
- For example, a GO would map to its BA, GOP, PA/PA, TO, TOP, TP, and RC

Balancing Authority (BA)	>	RC						
Distribution Provider (DP)	>	BA	PC/PA	TOP	RC			
Distribution Provider - UFLS Only (DP-UFLS)	>	PC/PA						
Generator Owner (GO)	>	BA	GOP	PC/PA	RC	TO	TOP	TP
Generator Operator (GOP)	>	BA	RC	TOP				
Planning Coordinator and Planning Authority (PC/PA)	>	RC						
Transmission Owner (TO)	>	PC/PA	RC	TOP	TP			
Transmission Operator (TOP)	>	BA	RC					
Transmission Planner (TP)	>	PC/PA	RC					



New Entity Registration – Comments and Attachments

- Upload all applicable documents

• This form is used for specifying comments and attachments related to the registration.
• [Attachments Link](#)
• [Training Link](#)

COMMENTS & ATTACHMENTS

[Add Comment or Attachment](#)

Comment	Created On ↑	Modified On	Modified By (Portal User)
< 1 2 >			

Documents to Upload

- WECC Generator Registration Request Form
- Map/geographic location of facility
- One-line diagrams
- Commercial Operation Date (COD)
- Operations & Maintenance Agreements (if any)
- Generation Interconnection Agreement
- ERO Enterprise GO GOP Asset Verification Form

See slides 20 – 24 for examples of documents needed with the GO/GOP application.

New Entity Registration – Submit Entity Registration

- Review the application and **Click to Submit Entity Registration** button

APPROVAL STATUS

Approval Type	Created On ↑	Entity	Entity Registration Request	Regional Administration	Return Date	Submitted By
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There are no records to display.

Click to Submit Entity Registration



Basic Information



Upstream Holding Companies



Contacts



Registration Scopes



Functional Mapping



Comments and Attachments

Submit Entity Registration Req

New Entity Registration – Submit Entity Registration

Process for New Registration Requests

Entity submits application and receives email confirmation

Regional Entity approves request or sends back for more information

If applicable, NERC approves application

Record moves to My Entity tab

NERC sends registration letter to PCC

Timeline | Contact Information

- Please submit requests 45-60 days ahead of the COD.
- If the planned COD changes, please send updates to registration@wecc.org.
- Please notify us when the facility reaches final COD.

Information Collected: GO/GOP Registration

CORES Required Fields

- Registered Entity Name
- Address
- Affiliates and Holding Companies
- Contact Roles
- Entity Scopes (Registered Functions)
- Functional Mapping
- Comments and Attachments:
 - **Comment:** Describe facility project and phase(s)
 - **Attachment:** Zip folder of documentation referenced on this slide

Registration Documentation Required

- WECC Generation Registration Request Form
- GO GOP Asset Verification Form
- Interconnection Agreements
- Third-Party or Operating Agreements
- Operating One-Line Diagrams
 - Depicting the Generation Resource(s) through to the Point of Interconnection w/Transmission Owner (TO)
- Nameplate Data for the individual PV Inverters/Wind Turbines

Note: Provided documentation should include accurate facility profile information (such as gross nameplate rating, capacity in-service agreement limitations, and inverter information). Explain if there are any discrepancies between documentation provided (such as Interconnection Agreement and One-line Diagram information).

GO GOP Asset Verification Form

■ ERO Enterprise GO GOP Asset Verification Form

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MSERC TEXAS WECC

Generator Owner (GO)/Generator Operator (GOP) Asset Verification Form for Category 2 Entities (Version Date: 11/22/2024)

Limited Disclosure (Once data has been entered and submitted)

Entity Name: _____

Registered Entity NCR ID: _____

Revision Date: MM/DD/YYYY

Type: **Category 2**

Region	State, Province, or Territory where Generator is Located	Initial Registration Date of Power	Generator Owner (GO) NERC ID	Generator Operator (GOP) NERC ID	Generator Operator (GOP) NERC ID	Primary GOP Control Center Location (State, Province, or Territory)	Plant Name/Designation	Unit Name/Designation	Unit Type (Select from drop-down list)	Hybrid Resource (Select from drop-down list)	Reliability Coordinator (RC) (Name and NCR)	Reliability Authority (RA) (Name and NCR)	Transmission Operator (TO) (Name and NCR)	Transmission Owner (TO) (Name and NCR)	Planning Coordinator (PC) (Name and NCR)	Distribution Planning (DP) (Name and NCR)	Electricity Storage (ES) (Name and NCR)	Interconnected System (IS) (Name and NCR)	If this is a dispersed power generating resource, identify the central responsibility for compliance in the Nameplate. If this is a dispersed resource, enter the Dispersed Resource Nameplate.	If this is a dispersed power generating resource, identify the central responsibility for compliance in the Nameplate. If this is a dispersed resource, enter the Dispersed Resource Nameplate.	If this is a dispersed power generating resource, identify the central responsibility for compliance in the Nameplate. If this is a dispersed resource, enter the Dispersed Resource Nameplate.	Notes

Entity Information

- Registered Entity Name
- Registered Entity NCR ID
- Revision Date

Effective Date (Commercial Operations Date)

Relationships

- Functional Relationships
- Responsibilities
- JRO / CFR / Third-Party Agreements
- Ownership

Basic Registration Data

- Region
- GO / GOP / NCRs
- Plant / Location (Region / State) / Unit / Type / Size / Hybrid
- GOP Control Center Location
- Connection Voltage / Location
- Generator Lead Line

Operating One-Line Diagrams

One-Line Diagrams should depict the Generation Resource(s) through to the Point of Interconnection w/TO.
Specifically, Diagrams should include the Interconnection Point and Collector System with feeders and individual ratings.

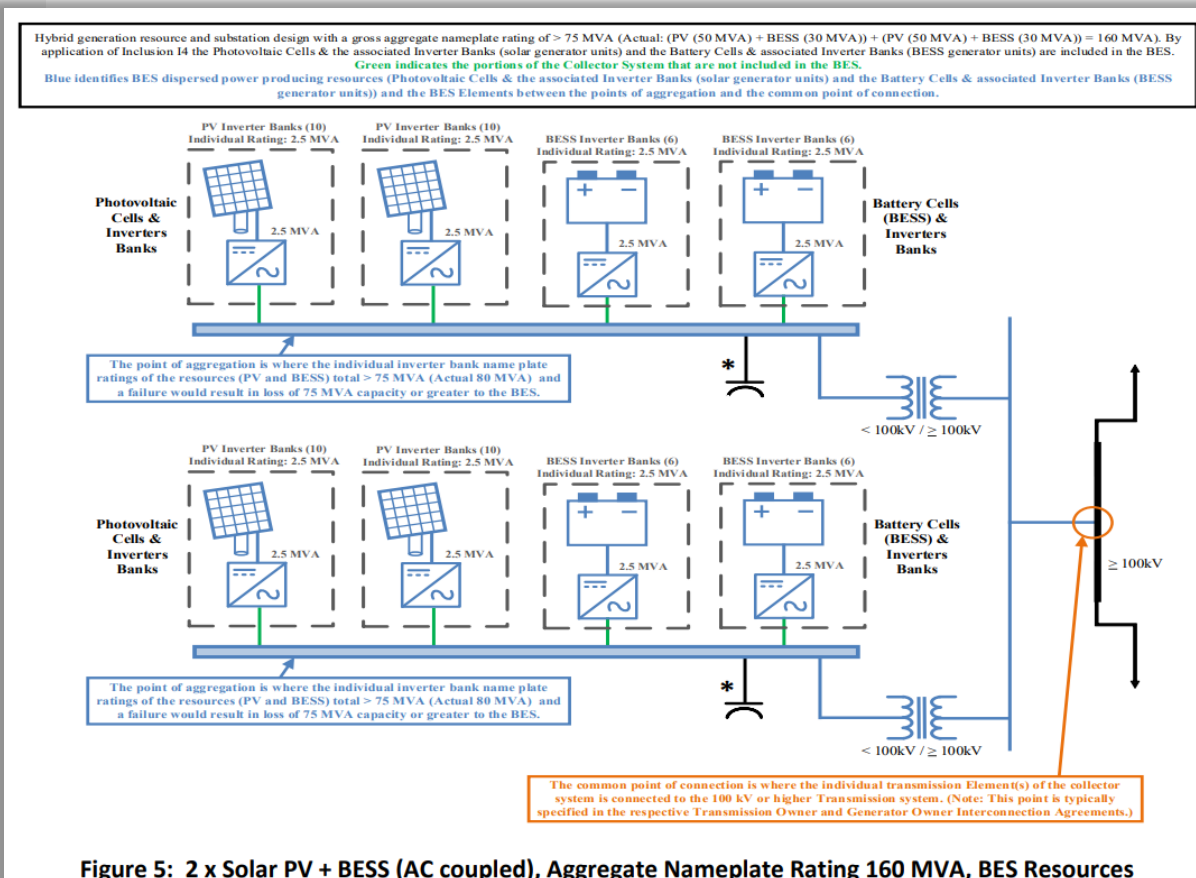


Figure 5: 2 x Solar PV + BESS (AC coupled), Aggregate Nameplate Rating 160 MVA, BES Resources

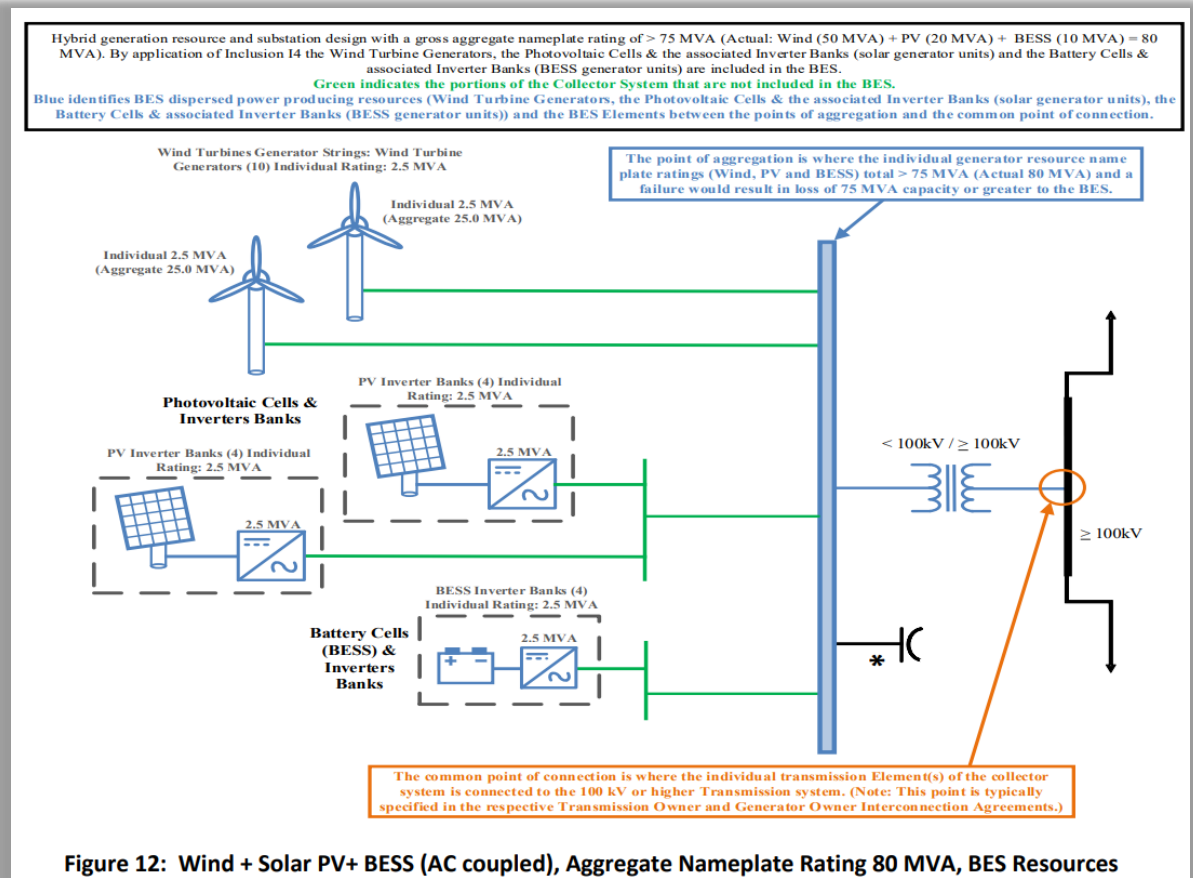


Figure 12: Wind + Solar PV + BESS (AC coupled), Aggregate Nameplate Rating 80 MVA, BES Resources

Application of the BES Definition to BESS and Hybrid Resources

Operating One-Line Diagrams – Inverter Nameplate

	MODULE #1	MODULE #2	MODULE #3
MODULE MFR			
MODULE MODEL			
MODULE STC RATING			
MODULE QUANTITY			
DC CAPACITY			
STRING SIZE			
STRING QUANTITY			
3-STR TABLE QTY			
2-STR TABLE QTY			
MAX DC SYSTEM VOLTAGE			
TOTAL DC SYSTEM SIZE			
INVERTER MFR			
INVERTER MODEL			
INVERTER OUTPUT VOLTAGE			
INVERTER AC OUTPUT			
INVERTER QUANTITY			
AC SYSTEM SIZE (@ POI)			
DC/AC RATIO (@ POI)			
RACKING MFR			
RACKING MODEL			
RACK TYPE			
MODULE ORIENTATION			
ARRAY TILT ANGLE			
ARRAY AZIMUTH			
ARRAY PITCH, (GCR)			
ASHRAE WEATHER STATION			
ASHRAE HIGH TEMP (0.4%)			
OWNER SPECIFIED HIGH TEMP			
ASHRAE MIN EXTREME TEMP			
OWNER SPECIFIED MIN TEMP			
SITE ELEVATION			

Redacted Site Map
with Individual
Inverters

Manufacturer's Data Specifications – Solar/BESS Inverters

Example of Datasheet Information



Type designation	SG3425UD-MV	SG3600UD-MV
Input (DC)		
Max. PV input voltage	1500 V	
Min. PV input voltage / Start-up input voltage	875 V / 915 V	915 V / 955 V
Available DC fuse sizes	250 A - 630 A	
MPP Voltage Range	875 V - 1500 V	915 V - 1500 V
Full power MPP voltage range @ 45 °C	875 V - 1300 V *	915 V - 1300 V *
No. of DC inputs	24 (optional: 28)	
Max. DC short-circuit current	10000 A	
PV array configuration	Negative grounding or floating	
Output (AC)		
AC output power	3425 kVA @ 45 °C (113 °F), 3083 kVA @ 50 °C(122 °F) **	3600 kVA @ 45°C(113 °F), 3240 kVA @ 50°C(122 °F) **
Max. AC output current	165 A	173 A
AC voltage	12 kV - 34.5 kV	
Nominal grid frequency / Grid frequency range	60 Hz / 57 Hz – 63 Hz	
THD	< 3 % (at nominal power)	
Power factor at nominal power / Ajustable power factor	> 0.99 / 0.8 leading - 0.8 lagging	
Efficiency		
Inverter max. efficiency	98.9 %	
Inverter CEC efficiency	98.5 %	
Transformer		
Transformer rated power	3425 kVA	3600 kVA
Transformer max. power	3425 kVA	3600 kVA
LV / MV voltage	0.6 kV / (12 – 35) kV	0.63 kV / (12 – 35) kV
Transformer vector	Dy11 (Optional: Dy11, Yny0)	
Transformer cooling type	KNAN (Optional: ONAN)	

Protection		
DC input protection	Load switch + fuse	
Inverter output protection	Circuit breaker	
AC MV output protection	Load switch + fuse	
Overvoltage protection	DC Type II / AC Type II	
Grid monitoring / Ground fault monitoring	Yes / Yes	
Insulation monitoring	Yes	
Overheat protection	Yes	
General data		
Dimensions (W*H*D)	6058 mm * 2896 mm * 2438 mm 238.5" * 114.0" * 96.0"	
Weight	18000 kg 39683.2 lbs	
Degree of protection	NEMA 4X (Electronic for Inverter) /NEMA 3R (Others)	
Auxiliary power supply	5 kVA, 120 Vac; Optional: 30 KVA 480 Vac + 5 KVA 120 Vac	
Operating ambient temperature range(it refers to the ambient temperature of 1m around the inverter.)	-35 ℃ to 60 ℃ (> 45 ℃ derating) / optional: -40 ℃ to 60 ℃ (> 45 ℃ derating) -31 ℉ to 140 ℉ (> 113 ℉ derating) / optional: -40 ℉ to 140 ℉ (> 113 ℉ derating)	
Allowable relative humidity range	0 % - 100 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	1000 m (Standard) / > 1000 m (Customized) (3280.8 ft (standard) / > 3280.8 ft (Customized))	
DC-Coupled storage interface	Optional	
Night reactive power function	Optional	
Charging power from the grid	Optional	
Communication	Standard: RS485, Ethernet	
Compliance	UL 1741, IEEE 1547, UL 1741 SA, NEC 2017, CSA C22.2 No.107.1-01	
Grid support	Q at night function (optional), L/HVRT, L/HFRT, Active & reactive power control and power ramp rate control, Volt-var, Frequency-watt	

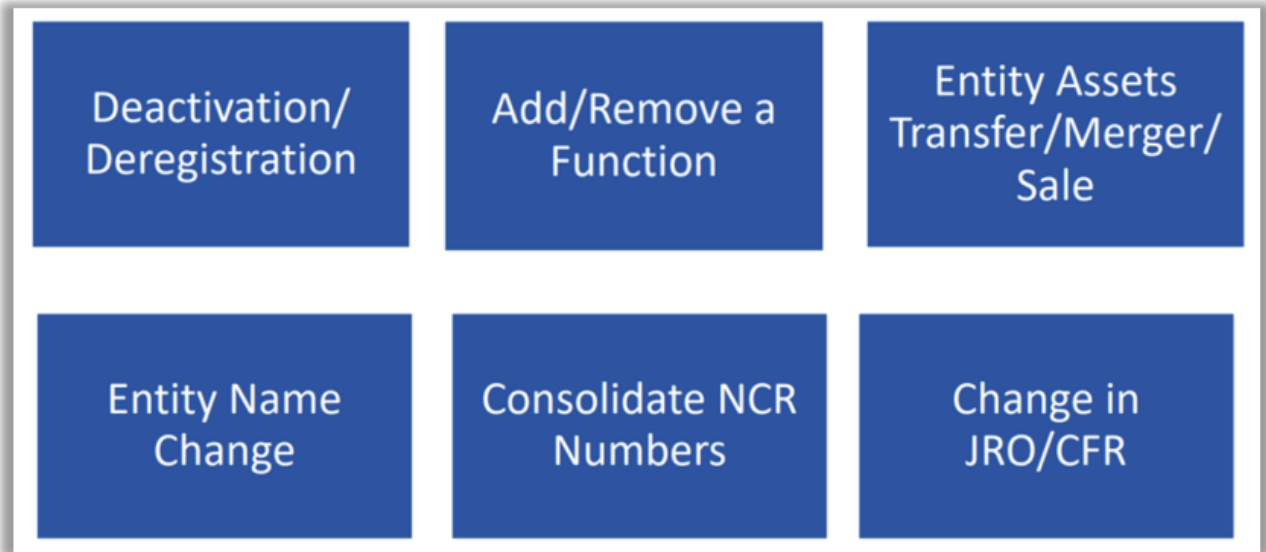
* Full power MPP range is temperature dependent, check the characteristic curve of the inverter for more information

** For sustained operation above 40°C, an optional 60 °C temperature rise transformer is recommended

[SG3425UD-MV SG3600UD-MV_Datasheet_V17_SUNGROW](#)

Timeline of Reporting Registrations/Changes

- Please submit registration activity requests 45-60 days ahead of the expected effective date.
- The request should be sent to registration@wecc.org.
- Please notify WECC when the registration activity is complete (when the effective date is reached).



Adding Assets to Existing Registration

■ Footprint Change Process

- Sign in to ERO Portal
- Access CORES for your entity
- Click on “Comments and Attachments” to add a description of change
- Send an email to registration@wecc.org
- Respond to information requests

Example of Footprint Change in CORES

Please accept this as a notification of **Perfect Power**’s request to add the **Cactus Storage** Facility to its registration under NCR**00000** as a GO/GOP with a tentative effective registration date of **04/01/2025**. The Battery Facility is comprised of **24 Power Electronics PCSM Gen 3 FP4200M2** Inverters at **4.2** MVA each, which is a gross nameplate rating of **100.8** MVA and is connected to the grid at **230** kV in the WECC Region.

Cactus Storage, LLC is submitting the following documents pertaining to **Cactus Storage** for WECC’s review:

- WECC Generation Registration Request Form
- GO GOP Asset Verification Form
- As-built Operating One-Line Diagrams
- Interconnection Agreements
- O&M Agreement
- Nameplate Data for the individual Inverters

International Registrations/Changes

- All new international registrations should be submitted via WECC's [International Registration Form](#)
- All requests to change a functional registration must use the [International Registration Form](#)





















Example: an entity that believes it no longer meets the criteria of a Distribution Provider (DP) must first complete the registration form and send it to registration@wecc.org to start the evaluation process by WECC

- WECC registration will then notify the WECC International Relations Manager of the request

Registration Resources

NERC Registration

Registration Documentation

<input type="checkbox"/> Type	Title
	2024 Q4 IBR Update
	2025 Q1 IBR Update
	2025 Q2 IBR Update
	Centralized Organization Registration ERO System (CORES) End User Guide
	CFR Portal Enhancement Session
	CFR Portal User Guide
	CMEP Practice Guide Application of the BES Definition to BESS and Hybrid Resources
	CMEP Practice Guide - Application of the Registration Criteria for Category 2 Generator Owner and Generator Operator Inverter-Based Resources
	ERO Enterprise Application of the Registration Criteria for Category 2 Generator Owner and Generator Operator Inverter-Based Resources Slide Presentation
	ERO Enterprise 101 Informational Package
	ERO Enterprise Entity Onboarding Checklist
	ERO Enterprise IBR Registration Initiative Webinar - Slide Presentation
	ERO Enterprise Registration Practice Guide Distribution Provider "directly connected" Determinations
	ERO Enterprise Registration Procedure
	ERO Enterprise Registration Process for Category 2 Generator Owner and Generator Operator Inverter-Based Resources
	ERO Portal Overview and CFR Portal Training
	ERO Portal User Guide
	IBR_2024 Q3 Update
	Q1 2024 IBR Registration Initiative Update
	Q2 2024 IBR Registration Initiative Update

WECC Entity Registration

Registration Reference Documents and Forms

Application of the BES Definition to BESS and Hybrid Resources

Application of the Registration Criteria for Category 2 GO/GOP IBRs

Information to Consider Regarding IBRs

Reliability Standards Compliance Dates for GOs and GOPs

File Type	Title
PDF	ERO Enterprise 101 Informational Package
PDF	ERO Enterprise Entity Onboarding Checklist
Excel	ERO Enterprise GO GOP Asset Verification Form
PDF	ERO Enterprise Registration Procedure
PDF	ERO Portal Access and Application Information
PDF	Generator Welcome Package
PDF	IBR Registration Infographic Expanding Your Registration
PDF	IBR Registration Infographic Joining the ERO Enterprise
PDF	IBR Registration Initiative 2025
PDF	IBR_Quick Reference Guide
PDF	Submitting a GO GOP Registration Request to WECC
Word	WECC Generation Registration Request Form

Contacts

Registration | Registration@wecc.org

- Mark Rogers | Manager, Registration & Certification | mrogers@wecc.org
- Abby Fellingner | Senior Registration & Certification Engineer | afellinger@wecc.org
- Andrew Williamson | Senior Registration & Certification Engineer | awilliamson@wecc.org
- Sarah Mitchell | Staff Engineer, Registration | smitchell@wecc.org



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