

# RELIABILITY & SECURITY

Workshop - Tempe, Arizona



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**WECC**

# **Tactical Approach to Registration**

March 26, 2025

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# Agenda

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## Today's discussion

- Inverter-based Resource (IBR) Initiative and Registration Milestones
- NERC IBR Work Plan Progress Update
- RFIs from WECC to possible Category 2 Generator Owners
- Future WECC Category 2 IBR registration and outreach activities
- Available Resources, including the new CMEP Practice Guide: [Application of the Registration Criteria for Category 2 GO and GOP IBRs](#)
- ERO Enterprise Next Steps

# Grid Transformation and Risk

## Why do you need to register?

- Grid transformation and the associated risk

## Who?

- New and existing non-BES IBRs

## How?

- Expanded registration process for new Category 2 GO GOPs

# Expanded Registration

## FERC Order on Registration of non-BES Inverter-based Resources, Docket RD22-4-000 (Issued November 17, 2022)

- Modify registration process within 12 months of Commission approval of the work plan (by May 2024)
- Identify owners and operators of IBRs that are connected to the Bulk Power System and that, in the aggregate, materially impact the reliable operation of the Bulk-Power System within 24 months of Commission approval of the work plan (by May 2025)
- Complete registration of unregistered IBR owners and operators so they are required to comply with applicable Reliability Standards within 36 months of Commission approval of the work plan (by May 2026)
- Submit Work Plan updates every 90 days

# IBR Registration Timeline



# Ph 1: ROP Revisions | IBRs Required Register

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Revision to the NERC Registry Criteria for “Generator Owner” and “Generator Operator” to add a new category of owners and operators of unregistered BPS-connected, non-BES IBRs.

- Appendix 5B, Statement of Compliance Registry Criteria
- Appendix 2, Definitions used in the Rules of Procedure

**FERC approved these revisions on June 27, 2024**

# Ph 1: ROP Revisions | IBRs Required Register

## Generator Owners & Operators

Owns and maintains (GO) or operates (GOP) generating Facility(ies) and performs the functions of supplying energy and Interconnected Operations Services (Category 1 GO/GOP)

Or

Owns and maintains or operates non-BES inverter-based generating resources that either have or contribute to an aggregate nameplate capacity of greater than or equal to 20 MVA, connected through a system designed primarily for delivering such capacity to a common point of connection at a voltage greater than or equal to 60 kV (Category 2 GO/GOP)



# Who is Affected? Category 1 vs. Category 2

## Category 1 GO/GOP

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

## Category 2 GO/GOP

- $\geq 20$  MVA connected at  $\geq 60$  kV
- Non-BES IBRs

# Ph 2: Identification of Category 2 GOs

- February 5, 2025—NERC filed [work plan progress](#) update with FERC, included approximate numbers of resources that may possibly meet Category 2 criteria as GOs and the MVA of those resources by Regional Entity footprint.
  - Overall, ERO Enterprise estimates 863 potential resources, totaling 38,785 MVA.

REGIONAL ENTITY	NUMBER OF IBRS	MVA
MRO	149	6,614
NPCC	75	2,422
ReliabilityFirst	100	4,194
SERC	175	10,473
Texas RE	41	2,167
WECC	323	12,915
<b>TOTAL</b>	<b>863</b>	<b>38,785</b>

\*The numbers in this table are subject to change based on further validation.

# IBR Registration Initiative RFI

## WECC Weekly Update - March 2025

### **IBR Registration Initiative Request for Information**

The Regional Entities, as part of a broader ERO Enterprise initiative, are identifying assets that meet the new Category 2 Generator Owner (GO) or Generator Operator (GOP) registration criteria. They are sending Requests for Information (RFI) to entities who likely own or operate these Category 2 assets for assessment. The selection of entities for RFIs is based on WECC's review of data from Transmission Owners, Balancing Authorities, or the U.S. Energy Information Administration (EIA) to facilitate registration.

WECC began dispatching its RFIs in batches starting on January 24. Recipients must submit the requested information within 45 days via WECC's Secure Workspace. The submission includes:

- Completing the "4b Category 2 GO GOP Assets" section of the ERO Enterprise GO GOP Asset Verification Form;
- Providing operational one-line diagrams that show the IBRs (including the Collector System – Feeders + Resources) and the Point of Interconnection to the Bulk Power System;
- Submitting Generator Operator Service Agreements or Third-Party Agreements; and
- Providing Generator Interconnection Agreements.

For any questions about this RFI or the IBR Registration Initiative, please contact registration@wecc.org.

To access WECC's Secure Workspace:

- Ensure you have created a valid www.wecc.org login.
- Next, send your name, phone number, and email address to support@wecc.org requesting permission to access the Secure Workspace.
- Once you receive confirmation from Administrative Services that your account has been granted Secure Workspace access, go to https://secureworkspace.wecc.org and set up two-factor authentication via Okta.
- Please watch the Secure Workspace Training Video posted on WECC's YouTube channel - https://www.youtube.com/watch?v=iaSAQKDGB5M.

For detailed instructions, see the Secure Workspace User Guide. The process for gaining access may take up to a week, and we appreciate your patience.

Please contact wecc-cpcs@wecc.org if you have any questions about setting up a Secure Workspace account.

# Request for Information

## Region Work Process

- Consistent process of collecting data
  - Operational one-line diagram(s)
  - Generator operating agreements or third-party agreements
  - Generator interconnection agreements
  - Nameplate details for IBRs
  - GO/GOP asset verification spreadsheet
- Ongoing since December 2024
- Requested information must be returned to the sending region within 45 days
- WECC will schedule outreach for newly registered entities

# GO/GOP Asset Verification Spreadsheet

## Tab 4b Category 2 GO GOP Assets

NERC  
NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

SERC TEXAS RE 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)

Name: \_\_\_\_\_  
Registered Entity NCR ID: \_\_\_\_\_  
Revision Date: MM/DD/YYYY

Type: **Category 2**

Region (ERC, SERC, WECC, etc.) [Select from drop-down box]	State, Province, or Territory where Generator Resides [Select from drop-down box]	Initial Registration Date of Asset	Generator Owner (GO) NERC ID	Generator Owner (GO)	Generator Operator (GOP) NERC ID	Generator Operator (GOP)	Primary GOP Control Center Location (State, Province, or Territory) [Select from drop-down box]	Plant Name/Designation	Unit Name/Designation	Unit Type [Select from drop-down box]	Hybrid Resource Facility Details [Select from drop-down box]	Green Renewable Rating (MW)	Reliability Coordinator (RC) (Name and NCR)	Balancing Authority (BA) (Name and NCR)	Transmission Operator (TO) (Name and NCR)	Transmission Owner (TO) (Name and NCR)	Transmission Planner (TP) (Name and NCR)	Planning Coordinator/Planning Authority (PC/PA) (Name and NCR)	Distribution Provider (DP) or Interconnection Entity (Name and NCR)	Identify Voltage at Interconnection to BCS (kV)	Interconnection Substation No.	If this is a dispersed power producing resource, identify the entity responsible for compliance at collector bus.	Have any GO/GOP tasks been delegated by a CBA, MOU, or Third Party Agreement? If Yes, enter delegated GO/GOP task type - CBA, MOU or Third Party Agreement and then explain in the Notes field. If no delegated task, enter No Delegated Task.	Is this Plant or Unit owned (Yes/No)?	Identify this entity's ownership and who has completed the responsible unit's Name Field. [Select from drop-down box]	Notes
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### Entity Information

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

### Effective Date (Commercial Operations Date)

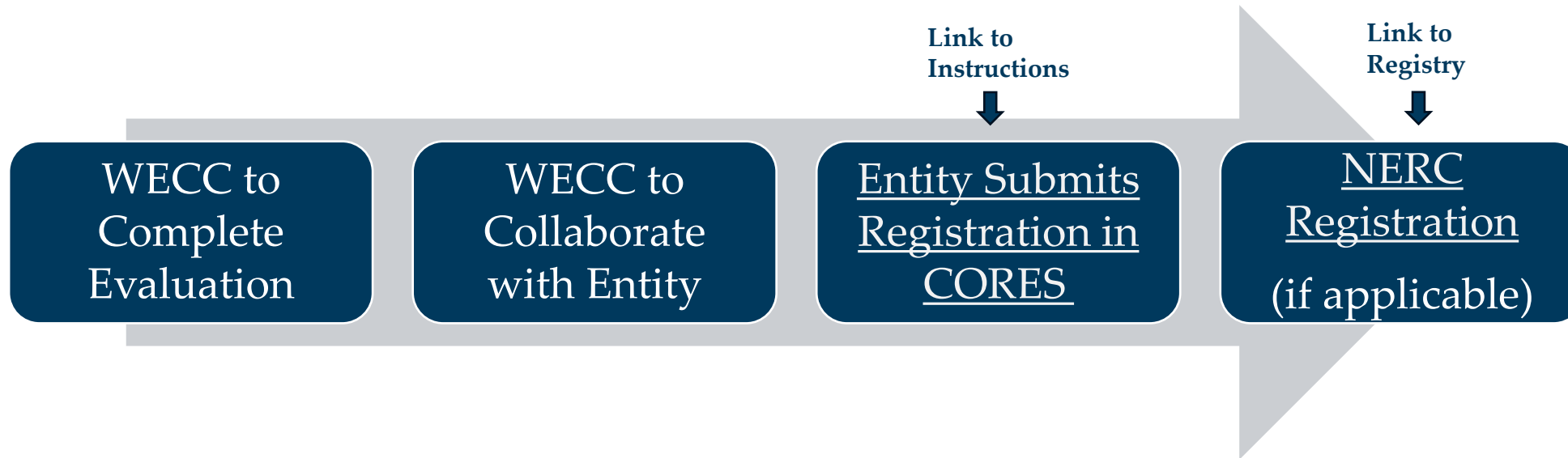
### Relationships

- 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

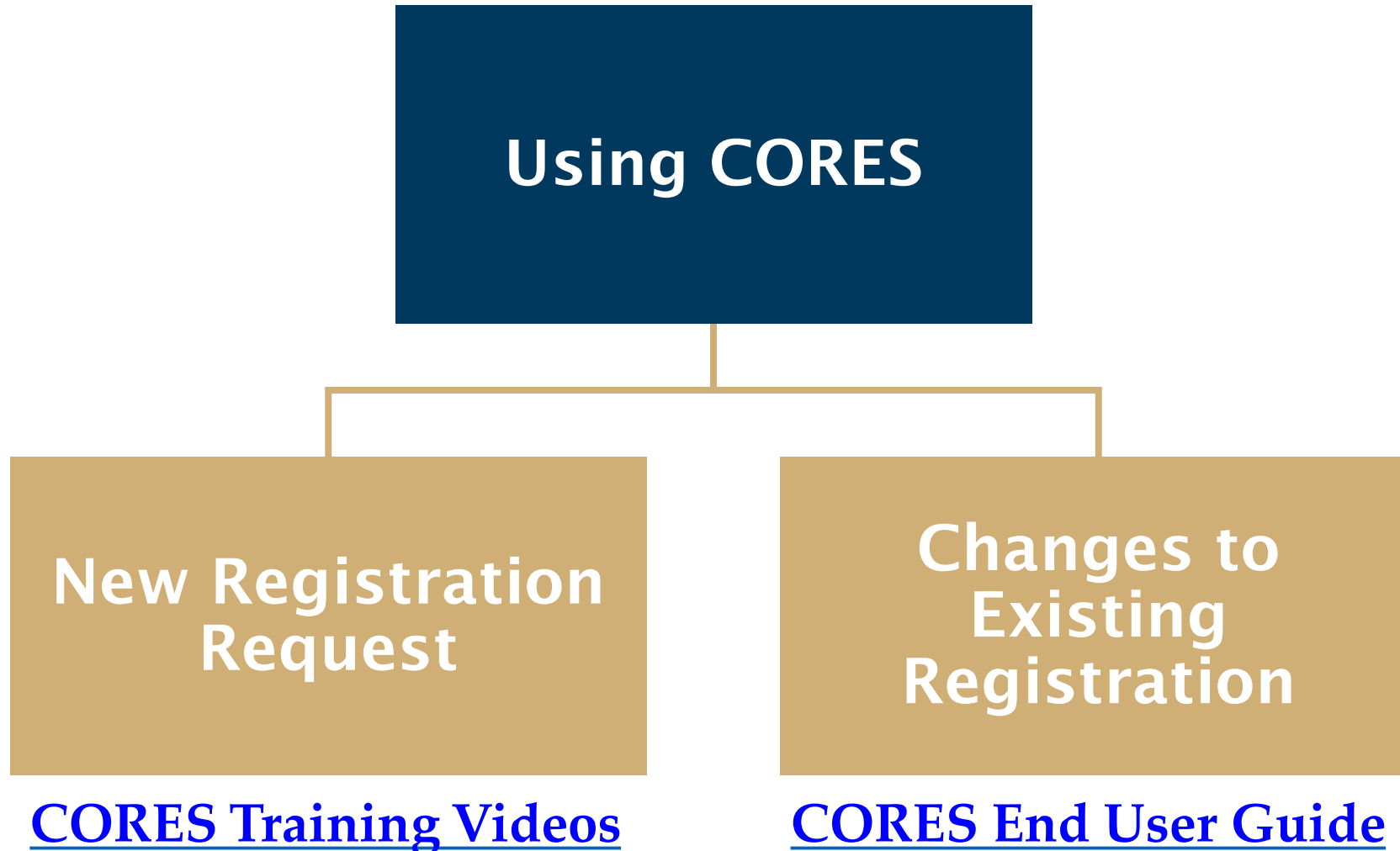
# Registrations for Category 1 & 2 Entities



## Documents Reviewed to Assist with Registration Evaluation

- [Appendix 2](#) | [Appendix 5B](#)
- [Applicability of the BES Definition](#)
- [Application of the Registration Criteria for Category 2 GO and GOP IBRs](#)
- [Application of the BES to Battery Energy Storage Systems and Hybrid Resources](#)

# Centralized Organization Registration ERO System



# Adding Assets to Existing Registration

## Footprint Change Process

- Sign in to ERO Portal
- Access CORES for your entity
- Click **Comments and Attachments** to add a description of change
- Send an email to [registration@wecc.org](mailto:registration@wecc.org)
- Respond to information requests

### Example of Footprint Change in CORES

Please accept this as notification of **Registered Entity Name's** request add the **Name** facility to its registration under NCR##### as a GO/GOP with a tentative effective registration date of **MM/DD/YYYY**. The facility has a gross nameplate rating of **XXX.X** MVA and is connected to the grid at **###** kV in the WECC Region.

**Entity Name** is submitting the following documents pertaining to **facility name** for WECC's review:

- Generator Registration Questionnaire
- ERO Enterprise GO GOP Asset Verification Form
- As-built one-line diagram(s)
- Interconnection Agreement(s)
- O&M Agreement



# Resources

## WECC IBR Registration Initiative Page

- [WECC IBR Registration Initiative Bulletin](#)

## NERC Registration Page

- [NERC Organization Registration](#)
- [Quick Reference Guide: IBR Registration Initiative](#)

## Onboarding Information

- [ERO Enterprise 101 Informational Package](#)
- [ERO Enterprise Entity Onboarding Checklist](#)
- [WECC Generator Welcome Package](#)

## 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](#)

File Type	Title
PDF	<a href="#">ERO Enterprise 101 Informational Package</a>
PDF	<a href="#">ERO Enterprise Entity Onboarding Checklist</a>
PDF	<a href="#">ERO Enterprise Registration Procedure</a>
PDF	<a href="#">ERO Portal Access and Application Information</a>
Word	<a href="#">Generator Registration Questionnaire</a>
PDF	<a href="#">Generator Welcome Package</a>
PDF	<a href="#">IBR Registration Initiative February 2025</a>
PDF	<a href="#">Submitting a GO GOP Registration Request to WECC</a>

# ERO Next Steps: Key Messages

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**No Reliability Standards will be applicable to IBRs meeting the new registration criteria before May 2026.**

- Following this date, NERC will work with each drafting team to encourage a reasonable rollout strategy of new or modified standards to spread out the applicability from May 2026 and beyond.
- WECC registration will contact owners and operators of newly registered generation facilities identified throughout this process.
  - Timing and obligations for existing and future enforceable Reliability Standards.

# Dear Abby & Andrew Session



# Regional Entity Map



# Contacts

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## Registration and Certification

- [Registration@wecc.org](mailto:Registration@wecc.org)
- Abby Fellingner | [afellinger@wecc.org](mailto:afellinger@wecc.org)
- Andrew Williamson | [awilliamson@wecc.org](mailto:awilliamson@wecc.org)
- Mark Rogers | [mrogers@wecc.org](mailto:mrogers@wecc.org)

## Entity Outreach and Monitoring

- Stacia Carron | [scarron@wecc.org](mailto:scarron@wecc.org)



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**[www.wecc.org](http://www.wecc.org)**