



IBR Registration Initiative: Phase 3

Brian Robinson

*Manager – Registration,
Certification, and Risk*



Agenda



IBR Registration Initiative Review



NERC Registration

ERO Portal Account
CORES



What's Next?

Inherent Risk Assessment
Compliance Monitoring



Standards Update

Project 2024-01
Future Standards



Reference Material



The Reliability Gap

ERO Enterprise assessments identified a reliability gap arising due to the increasing penetration of inverter-based resources (IBR) on the grid and the need for updated registration rules under the NERC Rules of Procedure (ROP).

FERC ordered NERC to prepare a work plan to accomplish the above by May 2026.



IBR Registration Milestones

NERC is currently in **Phase 3** of the registration milestones identified in the FERC-approved work plan.



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



Rule of Procedure Modification

Generator Owner is the entity that:

- owns and maintains generating Facility(ies) (Category 1 GO); or
- owns and maintains 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).



Rule of Procedure Modification

Generator Operators is the entity that:

- operates generating Facility(ies) and performs the functions of supplying energy and Interconnected Operations Services (Category 1 GOP); 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 GOP).



NERC Registration





NERC Registration



Owners, Operators and Users of the Bulk Power System are required to Register (as defined in the RoP)



Registered Entities are obligated to adhere to NERC Reliability Standards



Regional Entities conduct monitoring activities to ensure Compliance under the CMEP Program



NERC System Overview

Electric Reliability Organization (ERO) Portal

- Centralized Organization Registration ERO System (CORES)
- RoP Section 1600 Data Requests
- Additional Resources

Align

- Risk
- Monitoring
- Enforcement

Secure Evidence Locker (SEL)

- Secure Data Transfer Platform



Where to Begin: ERO Portal

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Search...

Account Log-In/Register | Contact Us

About NERC

Career Opportunities

Governance

Committees

Program Areas & Departments

Standards

Initiatives

Reports

Filings & Orders

Newsroom



The vision for the Electric Reliability Organization Enterprise, which is comprised of NERC and the six Regional Entities, is a highly reliable and secure North American bulk power system. Our mission is to assure the effective and efficient reduction of risks to the reliability and security of the grid.

Application Link

[BESnet](#)

[Coordinated Functional Registration \(CFRs\)](#)

[ERO Portal](#)

[Misoperation Information and Data Analysis System \(MIDAS\)](#)

[NERC Data Stores and Extranet Sites](#)

[NERC Email Distribution Lists](#)

[NERC Membership List](#)

Support

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[NERC Support Ticket](#)

[support@nerc.net](#)

Technology

ERO Application

ERO Portal (XRM)

ERO Portal (XRM)

ERO Portal (XRM)

ERO Portal (XRM)

ERO Portal (XRM)

ERO Portal (XRM)

ERO Portal (XRM)

ERO Application

SOCED (Brightlink)

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

NERC Membership List

NERC Help Desk

Welcome to the ERO Portal

The ERO Portal allows new users to register for an account and perform the following functions upon completion:



SELF SERVICE ACCOUNT

Change Password, Update Security Questions



VIEW MAILING LISTS & RESOURCES

Access to Datastores and Applications



REQUEST ACCESS

Get Access to Resources & Applications

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

NERC Membership List

NERC Help Desk

Sign In

Register

Resend Registration Key

Register for a new account

* First Name

* Last Name

* Email

* Confirm Email

* Phone Number

* Captcha



Submit



ERO Portal Landing Page



Welcome to the ERO Portal

The ERO Portal allows new users to register for an account and perform the following functions upon completion:

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://vimeo.com/nerclearning/cores-video-library>

➕ CREATE

Registration Status ↑	Entity Name	Function List	Category List	Region List
Draft	sigma test 4	Generator Owner	Category 2	NPCC ▾
Draft	SIGMA Cat 2	Generator Operator,Generator Owner	Category 2	NPCC ▾
Draft	SIGMA Test 2	Distribution Provider,Generator Operator,Generator Ow...	Category 2	MRO ▾
Draft				▾
Draft				▾



Centralized Organization Registration ERO System (CORES): Basic Information

[Home](#) / [Entity Registration Requests](#) / [Basic Information](#)

- This form collects basic information about the entity that will register. This includes the name, acronym, and address. Entities are asked to review and upload information regarding NERC Led Review Panel and the BES Exception Process as part of the application.
- [Training Link](#)

Basic Information

Entity Name *	Street 1 *
TestExampleEntity	123 Power Ave
Acronym	Street 2
TEE	
Phone	City *
555-555-5555	Boston
Website	State/Province *
http://TEE.com	MA
Has a NERC-Led Panel Request been submitted? *	Zip Code *
☒ No ☐ Yes	02108
	Country *
	US x Q

Basic Information

Upstream Holding Companies

Contact Roles

Registration Scopes

Functional Mapping

Comments and Attachments

Submit Entity Registration Req



[Home](#) / [Entity Registration Requests](#) / [Affiliates](#)

- This form collects information regarding upstream holding companies and other affiliates. There are three types of affiliates that may be entered, including holding company, affiliate, and subsidiary. If your organization is under common control of, or is an organization that has common control over other organizations, please complete this form.
- [Training Link](#)

Upstream Holding Company record is missing.

UPSTREAM HOLDING COMPANIES AND AFFILIATES

Has Companies? *

☐ No ☒ Yes

Entity Companies (Entity Registration Request)

Add Company/Affiliates

Company Type
↑

Non Registered Entity ↑

Registered Entity

NERC
Number
(Registered
Entity)

Registration
Type
(Registered
Entity)

Description

Create

Type *

Registered Entity

Non Registered Entity

Notes

Submit

Create

Lookup Records

✓ Name ↑	Phone Number	City	State	Zip Code
174 Global	1-833-461-7474	Irvine	CA	92618
3M		St. Paul	Minnesota	55144-1000
580 CFRA Ottawa				
8minute Solar Energy				
911 Security				
99.7FM Providence				
A123 Systems				
ABB		North Brunswick	New Jersey	8902
ABB Energy Services, Inc.		North Brunswick	New Jersey	8902
ABB Equity Ventures, Inc.		Princeton	New Jersey	8540

Clear Selection

Add New Company

Select

Cancel

Company Type
↑

Non Registered Entity
↑

Registered Entity

NERC
Number
(Registered
Entity)

Registration
Type
(Registered
Entity)

Description

Holding Company TEE TIME



Create

New Entity Registration Requests – Please use the lookup to add contact roles to your entity's registration.

Updating Contact Roles for a Registered Entity – Please use the lookup to add contact roles to your entity's registration. Please note - when adding a new Primary Compliance Contact (PCC) or Primary Compliance Officer (PCO) for an existing registration, the old PCC or PCO will automatically be deactivated. To "reactivate" a deactivated PCC or PCO, simply create a new PCC or PCO role. The deactivated roles will be shown in the deactivated view (My Entity).

Role Type *

Primary Compliance Contact (PCC)

Contact *

Brian Robinson

Email Address Lookup *

brobinson@npcc.org

Find Contact

Contact Role Assignments

Region *

NPCC

Submit

Create

Role Type ↑	Contact	(Contact)	(Contact)	Job Title (Contact)	E-mail (Contact)	Address 1 (Contact)
Primary Compliance Contact (PCC)	Brian Robinson	8026367951	8026367951	Manager, ERA	brobinson@npcc.org	1040 Avenue of Americas New Y
Primary Compliance Officer (PCO)	Brian Robinson	8026367951	8026367951	Manager, ERA	brobinson@npcc.org	1040 Avenue of Americas New Y

✓	Basic Information
✓	Upstream Holding Companies
✓	Contact Roles
○	Registration Scopes
○	Functional Mapping



Create

Function *

Region *

Jurisdiction *

Proposed Effective Date *

Inactive Date

Submitted By

Note

Lookup Records

✓ Display Name ↑

Balancing Authority (BA)
Distribution Provider (DP)
Distribution Provider UFLS (DP-UFLS)
Frequency Response Sharing Group (FRSG)
Generator Operator (GO)
Interchange Authority (IA)
Load Serving Entity (LSE)
North American Electric Reliability Corporation (NERC)
Planning Coordinator and Planning Authority (PCPA)

< 1 2 3 >

Create

Function *

Region *

Jurisdiction *

Proposed Effective Date *

Category *

Inactive Date

Submitted By

Note

Power Sync

Test Power Sync Date *



Create

Function *

Generator Owner (GO)

Proposed Effective Date *

5/15/2026

Region *

NPCC

Category *

Category 2

Jurisdiction *

United States

Inactive Date

Submitted By

Brian Robinson

Note

Power Sync

Test Power Sync Date *

10/17/2022

Submit

REGISTRATION SCOPES

[Add Registration Scope](#)

Function ↑	Category	Region	Effective Date	Regulatory Jurisdiction	Description	Submitted By
Generator Operator	Category 2	NPCC	5/15/2026	United States		Brian Robinson
Generator Operator	Category 2	MRO	5/15/2026	United States		Brian Robinson
Generator Owner	Category 2	NPCC	5/15/2026	United States		Brian Robinson
Generator Owner	Category 2	MRO	5/15/2026	United States		Brian Robinson



Create

Function *

Balancing Authority (BA)

Region *

NPCC

NCR *

Hydro-Québec Reliability Coordinator for Québec (HQCF) (NCR07112)

ISO-NE (NCR07124)

New Brunswick Power Corporation (NCR07155)

New York Independent System Operator (NCR07160)

Nova Scotia Power Inc. (NCR07178)

Ontario IESO (NCR07184)

TEST HYDRO ONE NETWORKS INC (NCR07109)

Submit

FUNCTIONAL MAPPING

NERC Number (Parent Entity)	Parent Entity	Region	NERC Number (Entity)	Entity	Function	Notes	Created On ↑
		NPCC	NCR07124	ISO-NE	Balancing Authority		8/26/2025 2:54 PM

Add Mapping



COMMENTS & ATTACHMENTS

Add Comment

Create

Comment

There are

Created On ↑

Modified By (Portal User)

Attach a File. (NOTE: 100MB max; file names cannot contain commas.)

Choose File No file chosen

Submit



✓

Basic Information

✓

Upstream Holding Companies

✓

Contact Roles

✓

Registration Scopes

✓

Functional Mapping

✓

Comments and Attachments

Submit Entity Registration Req

Summary

Entity Name *

TestExampleEntity

Acronym

TEE

Phone

555-555-5555

Website

<http://TEE.com>

Has a NERC-Led

☒ No ☐ Yes

Street 1 *

123 Power Ave

Street 2

City *

Boston

State/Province *

MA

COMMENTS & ATTACHMENTS

Comment	Created On ↑	Modified By (Portal User)
Asset Verification Forms	8/26/2025	Brian Robinson

Click to Submit Entity Registration



What's Next: Compliance Monitoring and Enforcement Program





Entity Inherent Risk Assessment and Compliance Oversight Plan (COP)

Inherent Risk Assessment (IRA)

- Issued via Align Platform
- Entity Risk Profile Questionnaire
- Assessment against the ERO Established Risk Factors

Compliance Oversight Plan (COP)

- COP report delivered to Entity
- Wholistic Assessment of Entity
- Considers multiple factors including:
 - IRA Result,
 - Compliance History,
 - Culture of Compliance
 - Internal Controls



Compliance Monitoring and Enforcement

Monitoring Engagement Types

- Audit
- Spot Check
- Self-Certification

Enforcement

- Monitoring Engagement Findings
- Self-Reports



Standards





Glossary/ROP Alignment

Generator Owner (GO):

- The entity that: 1) owns and maintains generating Facility(ies) (Category 1 GO); or 2) owns and maintains non-BES Inverter-Based Resource(s) 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).

Generator Operator (GOP):

- The entity that: 1) operates generating Facility(ies) and performs the functions of supplying energy and Interconnected Operations Services (Category 1 GOP); or 2) operates non-BES Inverter-Based Resources(s) 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 GOP).

[2024-01 GO GOP Definitions_Clean_IB_032425.pdf](#)



GO/GOP Category 2 (IBR) Standards

Reliability Standard	Standards Project # For Inclusion of Cat 2	Status	Effective Date of Standard	Category 2 IBR Compliance Date
BAL-001-TRE	Project 2024-01	Approved	7/1/2020	Pending FERC Approval of GO/GOP Definitions
IRO-010-5	Project 2024-01	Approved	7/1/2025	Pending FERC Approval of GO/GOP Definitions
MOD-032-1	Project 2024-01	Approved	7/1/2015	Pending FERC Approval of GO/GOP Definitions
PRC-012-2	Project 2024-01	Approved	1/1/2021	Pending FERC Approval of GO/GOP Definitions
PRC-017-1	Project 2024-01	Approved	4/1/2017	Pending FERC Approval of GO/GOP Definitions
TOP-003-6.1	Project 2024-01	Approved	7/1/2025	Pending FERC Approval of GO/GOP Definitions
VAR-001-5	Project 2024-01	Approved	1/1/2019	Pending FERC Approval of GO/GOP Definitions
VAR-002-4.1	Project 2024-01	Approved	9/26/2017	Pending FERC Approval of GO/GOP Definitions

Applicable based on approval of 2024-01: Alignment of Definitions

Source: [Reliability Standards Compliance Dates for Generator Owners & Generator Operators](#)



GO/GOP Category 2 (IBR) Standard Modifications

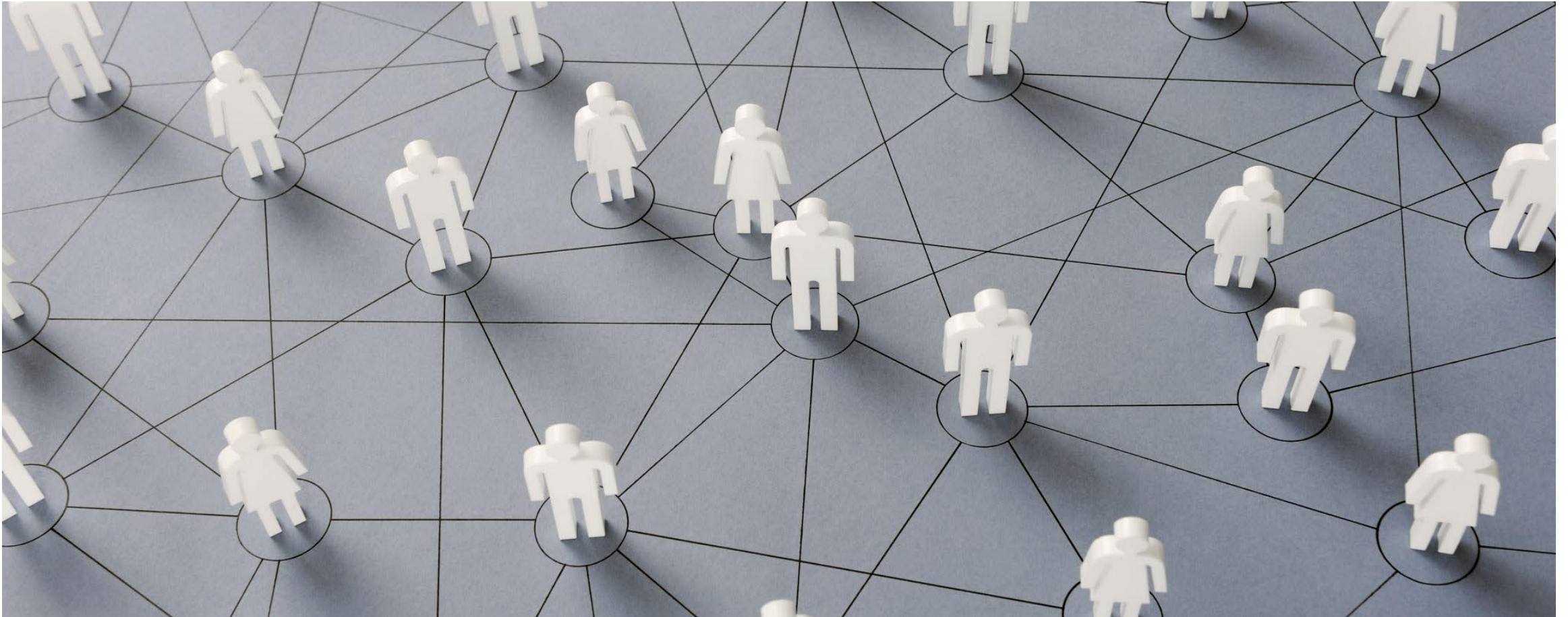
Modifications required for Additional Standards

Source: [Reliability Standards Compliance Dates for Generator Owners & Generator Operators](#)

Reliability Standard	Standards Project # For Inclusion of Cat 2	Status	Effective Date of Standard	Category 2 IBR Compliance Date
PRC-019	-	Requires Modification	-	-
PRC-023	-	Requires Modification	-	-
PRC-024	-	Requires Modification	-	-
PRC-025	-	Requires Modification	-	-
PRC-026	-	Requires Modification	-	-
PRC-027	-	Requires Modification	-	-
PRC-028-1	Project 2021-04	Approved	4/1/2025	7/1/2026
PRC-029-1	Project 2020-02	Pending FERC Approval	Pending FERC Approval	Pending FERC Approval
PRC-030-1	Project 2023-02	Approved	TBD	TBD
TOP-001	-	Requires Modification	-	-
TPL-007	-	Requires Modification	-	-



Communications





Resources



Quick Reference Guide: IBR Registration Initiative

August 2025

As part of its [Inverter-Based Resource Strategy](#), NERC is dedicated to identifying and addressing challenges associated with inverter-based resources (IBR) as the penetration of these resources continues to increase. ERO Enterprise assessments identified a reliability gap associated with the increasing integration of IBRs as part of the grid in which a significant level of bulk power system-connected IBR owners and operators are not yet required to register with NERC or adhere to its Reliability Standards. In response, FERC issued an [order](#) in 2022 directing NERC to identify and register owners and operators of currently unregistered bulk power system-connected IBRs. Working closely with industry and stakeholders, NERC is executing a FERC-approved work plan to achieve the identification and registration directive by 2026.

This visual dashboard allows stakeholders to easily locate key project updates and resource documents and is updated regularly. Resources are also posted on the [Registration page](#) of the NERC website.

Key Activities

- **NEW** NERC filed the [IBR Workplan August Update](#) to FERC on August 4, 2025.
- Visit the [ERO Enterprise event tracking graphic](#) to see upcoming events.

Available Resources

Learn More: [Open Letter to New Registrants](#) | [101 Resource Document](#) | [IBR Video](#)

Quarterly Updates: [Q1 2024](#) | [Q2 2024](#) | [Q3 2024](#) | [Q4 2024](#) | [Q1 2025](#) | [Q2 2025](#)

Registration: [Joining the ERO Enterprise](#) (infographic) | [Expanding Your Registration](#) (infographic) | [ERO Enterprise CMEP Practice Guide](#) | [Quick Reference Guide: Candidate for Registration](#) | [Registration page](#)

Standards: [Reliability Standards Compliance Dates for Generator Owners & Generator Operators](#) | [Milestone 3 Summary and Infographic](#) | [Standards Under Development page](#)

Webinars: [November 2024 Slide Presentation and Recording](#) | [March 2025 Slide Presentation and Recording](#) | [July 2025 Slide Presentation and Recording](#)

IBR Registration Milestones

Phase 1: May 2023–May 2024	Phase 2: May 2024–May 2025	Phase 3: May 2025–May 2026
• Complete Rules of Procedure revisions and approvals • Commence Category 2 GO and GOP candidate outreach and education (e.g., through trade organizations)	• Complete identification of Category 2 GO and GOP candidates • Continue Category 2 GO and GOP candidate outreach and education (e.g., quarterly updates, webinars, workshops, etc.)	• Complete registration of Category 2 GO and GOP candidates thereafter subject to applicable NERC Reliability Standards • Conduct specific Category 2 GO and GOP outreach and education (e.g., quarterly updates, webinars, workshops, etc.)

LEARN MORE ABOUT NERC AND THE E-ISAC



RELIABILITY | RESILIENCE | SECURITY

Currently Available

- Quick Reference Guides and FAQs:
 - [IBR Registration Initiative](#)
 - [IBR Activities](#)
 - [Candidate for Registration](#)
 - [IBR Webinar Series](#)
 - [ERO Enterprise CMEP Practice Guide](#)
 - [Inverter-Based Resources \(IBR\) Registration Initiative—101](#)

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



Questions

[Contact Us \(npcc.org\)](http://npcc.org)