

Announcement

Learn the Basics about Inverter-Based Resources with New, Easy-to-Follow Introductory Guide

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ATLANTA – Inverter-based resources (IBRs) are playing an ever-more critical role during this period of unprecedented grid transformation. IBRs present unique opportunities moving forward and will shape a resilient and sustainable energy landscape of the future. To understand this complex landscape, NERC has developed a multitude of resources, including a new guide focusing on IBRs in a high-level, easy-to-understand manner.

[An Introductory Guide to Inverter-Based Resources on the Bulk Power System](#) aims to inform industry, policymakers, and other stakeholders with a foundational understanding of IBRs and inverter technology.

“Ensuring reliable integration of IBRs moving forward is a top priority,” said Ryan Quint, NERC’s director of Engineering and Security Integration. “It is imperative to understand and plan for the different operating characteristics of IBRs and to ensure they contribute to a reliable, resilient, and secure bulk power system of the future.”

Other IBR Efforts

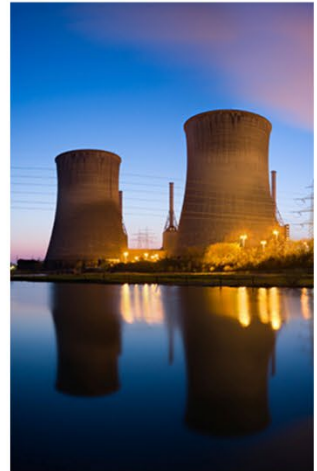
NERC also developed an 11-part webinar series providing a complete overview of bulk power system-connected IBRs—from a fundamental understanding of the technology to tackling the more complex and emerging risk issues. Each webinar includes panelist presentations followed by questions and answers. The series began in June and will run through mid-July with all recordings posted to NERC’s website at the conclusion of the series. More information on webinar dates, topics, and event registration can be found on the [webinar flyer](#).

Further, NERC developed a brochure—[Recommendations for Solar Energy Cybersecurity](#)—in collaboration with Sandia National Laboratories and the Solar Energy Industries Association (SEIA) to provide a brief overview of security recommendations for the inverter-based and distributed energy resource ecosystem. NERC and SEIA plan to host a joint webinar to review the findings, so watch for a notification in the coming months.

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Other activities underway include a series of [Electromagnetic Transient \(EMT\) Boot Camps](#) aimed at supporting industry in developing the skills needed to study IBR interconnections with advanced EMT studies, as well as a primer document on IBRs that will delve into the technology in more depth, expected to be published later this year.

NERC recognizes the need to harness all the unique capabilities of IBRs to maintain grid stability and reliability, ensure a strong security posture from this growing sector, and reliably integrate distributed energy resources to achieve a resilient power system capable of meeting 21st century energy demands. NERC's efforts in this area are a component of its [2023 work plan priorities](#), which strive to keep NERC at the forefront of the transformation by focusing on four key areas: Energy, Security, Agility, and Sustainability. To learn more about NERC's work on IBRs, visit the [Inverter-Based Resource Activities Quick Reference Guide](#).

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Electricity is a key component of the fabric of modern society and NERC, as the Electric Reliability Organization, serves to strengthen that fabric. The vision for the ERO 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.