



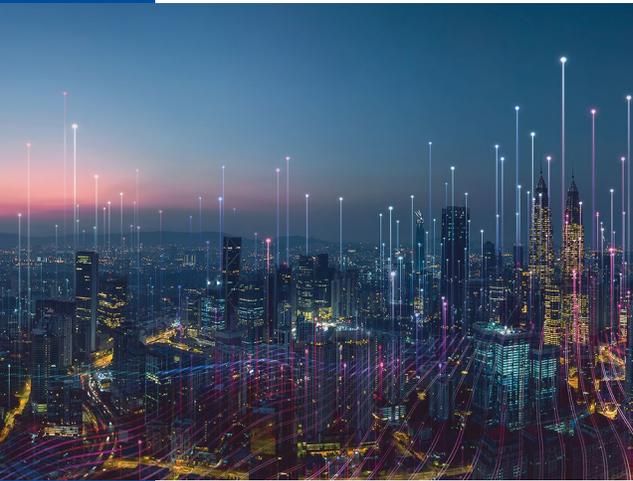
NARUC

National Association of Regulatory Utility Commissioners

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Essential Guide to NARUC Integrated System Resilience Resources



Overview

National Association of Regulatory Utility Commissioners (NARUC) members are increasingly seeking more information about grid resilience in terms of infrastructure needs, impacts, and the role of public utility commissions (PUCs). The NARUC Center for Partnerships & Innovation (CPI) is supporting state regulators in planning, defining, and measuring the benefits of resilience investments that reduce the likelihood, duration, and impacts of electric power service interruptions.

This guide connects commissioners and commission staff to essential resilience resources that NARUC has developed.

All of these resources can be found on the [NARUC Integrated System Resilience webpage](#). For more information, contact

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Foundational NARUC Resources on Integrated System Resilience and the Role of PUCs

The resources below provide a starting point for further exploration of integrated system resilience.

- [NARUC Resilience Framework](#), February 2025
This framework provides PUCs and other key stakeholders with a structured approach to considering policies and programs that will enhance grid resilience amid evolving technological, environmental, and economic challenges.
- [Webinar: NARUC's Grid Resilience Framework Workshop: A Practical Application](#), May 2025
- [Energy Resilience Reference Guide](#), June 2022-September 2023
This guide was developed as a one-stop primer for PUCs to assist in the development of a shared language, valuation framework, and educational tool on the topic of energy resilience. It summarizes many of the critical topic areas within energy resilience and facilitates adoption of resilience valuation frameworks by which PUCs can weigh investment decisions regarding energy system resilience.

About the NARUC Center for Partnerships & Innovation

NARUC CPI identifies emerging challenges and connects state commissions with expertise and strategies to navigate complex decision-making. CPI accomplishes this goal by building relationships, developing resources, and delivering training that provides answers to state commissions' questions.

NARUC CPI conducts work in five key energy topics: generation; transmission; distribution; customers; and critical infrastructure, cybersecurity, and resilience. Find all resources and upcoming events at: www.naruc.org/cpi.

Publications and Activities on Key Integrated System Resilience Topics

The following resources can be found on the [NARUC Integrated System Resilience webpage](#). Hyperlinks lead to PDFs of the publications or webinar presentations. To view recordings of past webinars, visit the Integrated System Resilience webpage or [NARUC's YouTube channel](#).

Resilience by Region

[NARUC Resilience Framework in Action Mini-Guide: Regional Coordination during Extreme Heat](#), August 2025

This mini-guide was designed to demonstrate the flexibility of the NARUC Resilience Framework by applying it to an emerging issue: developing a regional coordination strategy to improve grid resilience to extreme heat events.

[State Spotlight on Resilience: The Washington Utilities and Transportation Commission's Wildfire Mitigation Plans](#), February 2025

This resource discusses the impact of wildfires on the State of Washington and identifies strategies the Washington Utilities and Transportation Commission takes to address these impacts.

[State Spotlight on Resilience: The Michigan Public Service Commission and Data Informed Accountability](#), February 2025

This profile explores how the Michigan Public Service Commission is addressing resilience by improving reliability using data. This includes strengthening accountability in maintaining the electric grid and reducing vulnerabilities that could escalate during extreme events.

[State Spotlight on Resilience: The Florida Public Service Commission and Storm Protection Plans](#), February 2025

This resource provides a comprehensive profile on the State of Florida's resilience strategies that can be applied to help prevent impacts to the grid that occur with frequent storms that affect the state.

- [Resilience for Regulators Webinar: Climate Mitigation Strategies for Coastal and Urban Flooding](#), April 2023

This webinar featured speakers from the Federal Emergency Management Agency, the Florida Public Service Commission, and the New Jersey Board of Public Utilities on available federal funding and state public utility commission strategies to mitigate impacts from flooding.

Grid Resilience Planning Approaches

- [Webinar: Steady and Strong: The Case for Reliability and Resilience](#), May 2025

This webinar addressed the differences between electric grid reliability and resilience, including definitions, traditional and emerging metrics, visualizations of interruption data, and methods for classifying major events.

- [Resilience Planning Training Playlist](#), March 2024

NARUC, the National Association of State Energy Officials, and Lawrence Berkeley National Laboratory collaborated to provide commissions, state energy offices, and utility consumer advocates with training on resilience planning. You can also review copies of the [agenda](#) and [presentations](#).

- [Resilience for Regulators Webinar: Future Climate Modeling for Utility System Planning: Key Lessons for State Utility Regulators](#), December 2022
This webinar featured speakers from ComEd and Argonne National Laboratory on incorporating climate data into utility system modeling to plan future investments.
- [Resilience for Regulators Webinar: Climate Resilience Frameworks to Improve Risk Management: Exploring Lessons Learned from NC](#), January 2022
This webinar featured speakers from North Carolina who talked about the North Carolina Climate Risk Assessment and Resilience Plan and highlighted their implementation experiences.
- [Resilience for Regulators Webinar: Building Transmission Infrastructure for a Resilient Energy Future](#), May 2022
This webinar featured speakers from the American Council on Renewable Energy, the U.S. Department of Energy (DOE), and WIRES on the opportunity for transmission to enhance grid resilience.
- [DOE-NARUC Regulating for Resilience Workshop](#), San Antonio, TX, November 2019
States, utilities, municipalities, and customers are increasingly taking steps to improve our communities' resilience yet are doing so without the benefit of an established, clear and comprehensive set of planning considerations for grid resilience. Objectives of this workshop included: (1) to present and discuss work to date on overcoming critical barriers to development of a structured resilience framework; and (2) to explore commission experiences and needs related to important resilience topics.

Innovative Technologies for Grid Resilience

[Technology Brief: Microgrids as Resilience Investments](#), August 2025

This technology brief explores the role of microgrids as targeted resilience investments, clarifies how they differ from traditional backup power systems, and illustrates their real-world impact through both a rural and urban case study.

[Advancing Electric System Resilience with Distributed Energy Resources: A Review of State Policies](#), April 2020

This report addresses the role of state regulators in electricity system resilience, the relationship of distributed energy resources (DERs) to resilience, and how states can implement policies to expand DER deployment to improve resilience.

[Advancing Electric System Resilience with Distributed Energy Resources: Key Questions and Resources](#), April 2020

As a companion piece to [Advancing Electric System Resilience with Distributed Energy Resources: A Review of State Policies](#), this publication provides a foundation for PUCs to frame how they review proposed utility investments that could offer resilience benefits and includes a list of relevant resources to improve regulators' ability to oversee resilience investments and obtain better outcomes for customers.

- [Resilience for Regulators Webinar: How Important is Energy Storage to Withstand Extreme Weather Events?](#), September 2022
This webinar featured speakers from the American Clean Power Association, Electric Power Research Institute, and DNV Energy on how energy storage assets can be used to withstand extreme weather events.

Valuation and Resilience Investment Tools

[Guidebook for Federal Funding Opportunities: BIL, IRA, Disaster Preparedness](#), November 2023

This guidebook is intended as a resource for utility regulators to understand federal funding opportunities as they consider energy resilience and disaster planning investments.

[The Value of Resilience for Distributed Energy Resources: An Overview of Current Analytical Practices](#), April 2019

This report examines both regulatory decision-making and non-regulatory cost-benefit analyses to determine if, and how, a value of energy resilience was calculated and applied to proposed investments.

- [Resilience for Regulators Webinar: Exploring Cost-Benefit Methodologies on Enhancing Grid Resilience](#), September 2023

This webinar explored approaches for regulators to incorporate cost-benefit analysis into their decision-making adjudication processes for grid resilience investments.

Stakeholder Engagement in Resilience Planning

[Mini-Guide: Community Engagement Approaches for Distribution System Resilience](#), March 2025

This mini-guide explores approaches and lessons to advance equitable grid resilience through the stakeholder engagement process. It evaluates engagement through PUC distribution investment planning, the roles of various stakeholders, and the drivers that precipitate engagement in grid resilience planning.

- [Webinar: Electric System Resilience from the Consumer Perspective](#), August 2025

This webinar started with a panel of consumer advocates who shared specific resilience needs in their jurisdictions and how these are addressed, including lessons learned from previous efforts. Utility regulators then asked questions of the advocates and offered responses, thoughts, and suggestions based on their experiences.

- [Resilience for Regulators Webinar: Advancing Equitable Community Resilience Through Stakeholder Engagement Strategies](#), June 2023

This webinar explored how PUCs are developing those equity-driven stakeholder engagement strategies to enhance distribution system resilience. Panelists discussed how state requirements around energy justice have evolved and how impacted communities can make a difference in building a grid that meets the needs of all customers regardless of their circumstances.

Defense, Infrastructure Security, and Federal Partnerships

- [Webinar: Regulatory Considerations for Utility Investments in Defense Energy Resilience](#), February 2022

Building on NARUC's white paper *Regulatory Considerations for Utility Investments in Energy Resilience*, this webinar details the concept of defense energy resilience, DOE's defense critical electric infrastructure program and opportunities to enhance productive partnerships among state utility regulators, utilities, and critical facilities.

- [Webinar: Defense Community Priorities on Energy Resilience and Opportunities for State Regulatory Partnership](#), March 2022

This webinar featured several defense community leaders describing the strategic priorities of the armed forces and U.S. Department of Defense regarding energy security.