

NATIONAL COUNCIL ON ELECTRICITY POLICY National Association Coordination

2021

Tuesday, January 26, 2021 Virtual Meeting

Welcome

During the webinar:

- This webinar is being recorded.
- Type in Questions to Kerry anytime in the GoToWebinar application.
 - Relevant clarifying questions will be asked immediately.

After the webinar:

- Presentation and recording posted on <u>www.electricitypolicy.org</u>.
- Unanswered questions will be sent to panelists for follow up.
- Join our listserv by checking off NCEP as an interest area in your MYNARUC account at <u>www.naruc.org/mynaruc/</u> or email Kerry Worthington at <u>Kworthington@naruc.org</u> after your profile has been created.

Agenda

Time	ltem	Speaker
12:00 ET	Welcome and NCEP	Kerry Worthington, NCEP/NARUC Staff
12:10 ET	National Association of Regulatory Utility Commissioners (NARUC)	Danielle Sass Byrnett, NARUC Center for Partnerships & Innovation Director
12:20 ET	National Governors Association (NGA)	Dan Lauf, NGA Energy Program Director
12:30 ET	National Conference of State Legislatures (NCSL)	Glen Anderson, NCSL Energy Director
12:40 ET	National Association of State Energy Officials (NASEO)	Sam Cramer, Program Director, and Campbell Delahoyde, Senior Program Manager
12:50 ET	National Association of State Utility Consumer Advocates (NASUCA)	David Springe, NASUCA Executive Director
1:00 ET	National Association of Clean Air Agencies (NACAA)	Miles Keogh, NACAA Executive Director
1:10 ET	Q&A	
1:15 ET	Adjourn	

National Council on Electricity Policy

Kerry Worthington, Senior Manager

kworthington@naruc.org

www.electricitypolicy.org

The National Council on Electricity Policy (NCEP)

- NCEP is a peer-learning platform to examine the ways new technologies, policies, regulations, and markets impact state resources and the bulk power system.
- NCEP is currently exploring the evolving interface between the transmission and distribution systems as the resource mix on the grid changes (planning, operations, and markets).
- All NCEP resources are available at <u>www.electricitypolicy.org.</u>
- NCEP thanks the U.S. Department of Energy for its ongoing support. NCEP is an affiliate project of NARUC.



The NCEP Executive Committee Welcomes

Hon. Sarah Freeman Indiana Regulatory Utility Commission Jeremy Tarr Office of North Carolina Governor Roy Cooper

Events Update

Recent Events

2020 Annual Meeting on Evolving Compensation and Market Mechanisms

- Presentations available
- Recording coming soon

Introduction to Markets (webinar)

Recording available

Upcoming Events

Thurs. February 25 at 3:00 PM ET Optimization through Benefit Cost Analysis

• <u>Register in advance</u>

September 2021 Annual Meeting on Coordinated Planning

Look for topical webinars on T&D planning, operations, and markets

NCEP Annual Meeting and Workshop September 2021 Coordinated Planning

In 2021, NCEP will continue it's multi-year **T&D coordination** theme and explore developments in **modern planning and tools.**

Call for Abstracts

NCEP is looking for expert discussion throughout the program, coupled with state-led examples and case studies. Submissions will be accepted through Friday, March 5, 2021 via the <u>NCEP Annual Meeting 2021</u> <u>Abstract Proposal Submission Form</u>.

Available Resources

<u>T&D Resource Catalog</u> (updates ongoing)

Mini-Guide Series

Local Government Engagement with Public Utility Commissions State Agency Coordination During Energy-Related Emergencies Engagement between Public Utility Commissions and State Legislatures Engagement between Public Utility Commissions and State Energy Officials

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National Association of Regulatory Utility Commissioners (NARUC)

Danielle Sass Byrnett, Director,

Center for Partnership and Innovation

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www.naruc.org/cpi

WHAT IS NARUC

- The National Association of Regulatory Utility Commissioners (NARUC) is a nonprofit organization founded in 1889.
- Our members are the state regulatory commissions in all 50 states, DC, and the territories. FERC & FCC Commissioners are also members. NARUC has Associate Members in over 20 other countries.
- NARUC member agencies regulate electricity, natural gas, telecommunications, and water utilities.



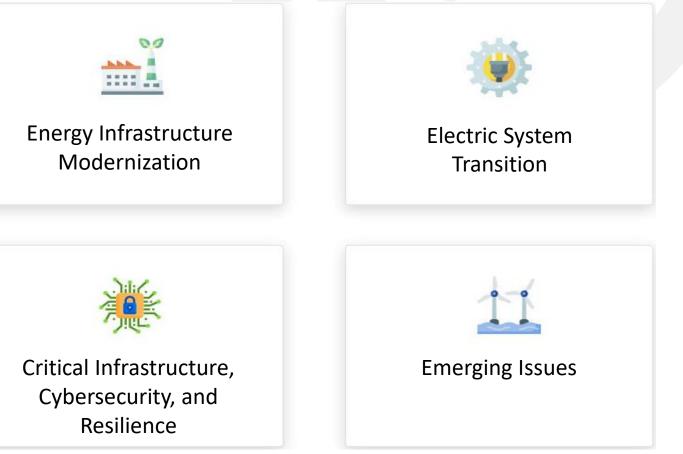


WHAT IS NARUC'S CENTER FOR PARTNERSHIPS & INNOVATION?

- Grant-funded team dedicated to providing technical assistance to state members.
- CPI builds relationships, develops resources, and delivers trainings.
- CPI thanks the U.S. Department of Energy, the National Institute for Standards and Technology, and other partners for their ongoing support.
- Re-launched website contains LOTS of new content.



NARUC CPI Topical Areas



www.NARUC.org/CPI

WEBINAR RECORDINGS

CPI Innovation Webinar Series (monthly, Thursdays 3-4pm ET) <u>www.naruc.org/cpi-1/emerging-issues/innovation-</u> webinars/	 How Corporate Renewable Energy Procurement Can Fuel Decarbonization, If Only We Let It, Dec. 3, 2020 Where the Wind Blow: Offshore Wind Outlook for State Regulators, Nov. 19, 2020 Emerging Possibilities for Bulk Energy Storage, Oct.22, 2020
Electric Vehicles State Working Group: Webinar Series www.naruc.org/cpi-1/energy-infrastructure- modernization/electric-vehicles/	 Performance-Based Regulation Related to Transportation Electrification, Dec. 15, 2020 PUC-State Legislative Relationships Related to Transportation Electrification, Oct. 27, 2020
NARUC-NASEO Microgrids State Working Group https://www.naruc.org/cpi-1/critical-infrastructure- cybersecurity-and-resilience/microgrids/	Achieving Community Resilience through Microgrids, Jan. 13, 2021
WIEB + NARUC Carbon Capture, Utilization & Storage Six-Part Webinar Series https://www.naruc.org/cpi-1/energy-infrastructure- modernization/carbon-capture-utilization-and-storage/	 Regulatory Considerations and Policy Recommendations, Oct. 15, 2020 International CCUS Development Efforts, Oct. 9, 2020 Domestic CCUS Development Efforts, Oct.7, 2020

RECENT RESOURCES www.naruc.org/cpi-1/

Smart Grid	 <u>Understanding Cybersecurity for the Smart Grid: Questions for Utilities</u>, Dec. 2020 <u>Smart Grid Learning Modules</u>
Cloud Computing	Financial Toolbox Series: Cloud Computing Brief, Dec. 2021
Critical Infrastructure & Cybersecurity	 <u>Cybersecurity for the Smart Grid: Questions for Utilities</u>, Dec. 2020 <u>Cybersecurity Tabletop Exercise Guide</u>, Sep. 2020
Distribution Systems & Planning	• Midwest (Virtual) Regional Training on Integrated Distribution System Planning, Oct. 2020
Microgrids	 <u>User Objectives and Design Approaches for Microgrids: Options for Delivering Reliability</u> and Resilience, Clean Energy, Energy Savings, and Other Priorities, Jan. 2021 <u>Private, State, and Federal Funding and Financing Options to Enable Resilient, Affordable,</u> and Clean Microgrids, Jan. 2021
Stakeholder Engagement	• Public Utility Commission Stakeholder Engagement: A Decision-Making Framework, Jan. 2021

NEW PROJECTS / FORTHCOMING RESOURCES

Cybersecurity publications	 Cybersecurity Partnerships and Information Sharing A Guide for Public Utility Commissions: Recruiting and Retaining a Cybersecurity Workforce
Cybersecurity training Feb. 23-25, 2021	This NARUC training will focus on cybersecurity topics through the lens of a public utility regulator. Subject-matter experts recruited from around the country will make presentations, lead discussions, and offer topical and timely "boots on the ground" perspectives. Learn More and Register(https://bit.ly/39Xjuzg)
NARUC-NASEO Task Force on Comprehensive Electricity Planning, Workshop for State Action Feb. 11, 2021 (2-5pm ET)	The NARUC-NASEO Task Force will be sharing all resources developed over the past two years during a three-hour workshop on Feb. 11. Learn More and Register(<u>https://bit.ly/3qKj6Lq</u>)
NCEP Special Session – Exploring Optimization through Cost-Benefit Analysis Feb 25, 2021 (3-4:30pm ET)	The National Council on Electricity Policy (NCEP) is offering a stand-alone webinar version of one of the most popular sessions from our December 2020 Annual Meeting on Evolving Compensation and Market Mechanisms. This webinar will explore the latest trends in comparing and optimizing between the bulk power system and distributed system solutions. Learn More and Register(https://bit.ly/3c615my)

NRRI major activities

- NRRI Insights reports on Rethinking FERC by Dr. Carl Pechman, NRRI Director, and Solar Energy that Pays for Low-Income Customers and Communities by Tom Stanton.
- NRRI Research paper, Whither the FERC?: Overcoming the Existential Threat to Its Magic Pricing Formula through Prudent Regulation by Dr. Carl Pechman, NRRI Director.
- Regulatory Training Initiative courses: An Introduction to Utility Accounting, January 26, 27, and 28 from 2:00 to 3:30 PM EST each day; and, An Introduction to Utility Finance, February 16, 17, 18.
- NRRI Webinar: *The Intersection of Decarbonization Policy Goals and Resource Adequacy Needs: A California Case Study*, February 3, 2021 | 2:00 – 3:30 pm (ET).
 NRRI Webinars Archive: <u>https://www.naruc.org/nrri/nrri-activities/webinar-archive/</u>.
- NRRI Policy Trackers on Net Neutrality, on PURPA, on COVID-19 State Response.



National Association of Regulatory Utility Commissioners (NARUC)

Danielle Sass Byrnett, Director,

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National Governors Association (NGA)

Dan Lauf, Energy Program Director,

Center for Best Practices

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www.NGA.org

NGA Energy Program: 2021 Update

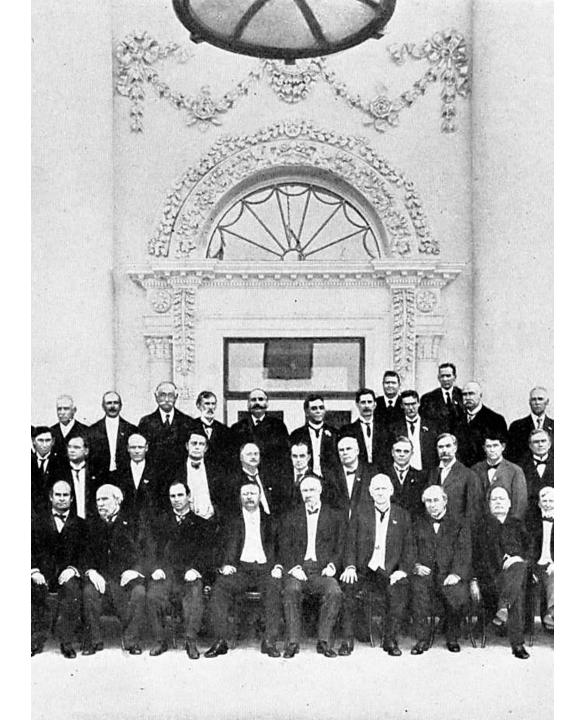
January 26, 2021

Dan Lauf, Program Director NGA Center for Best Practices

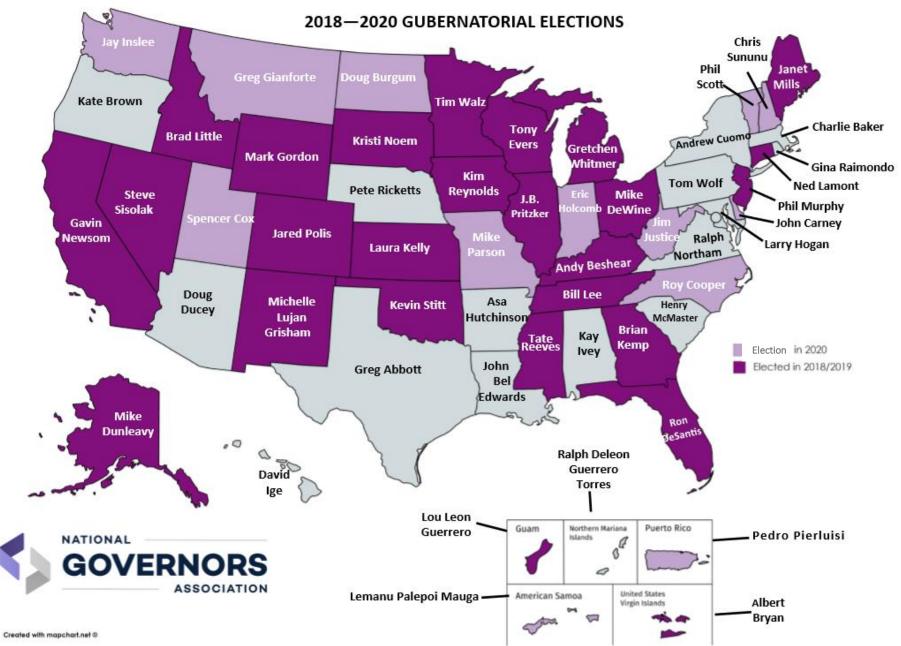


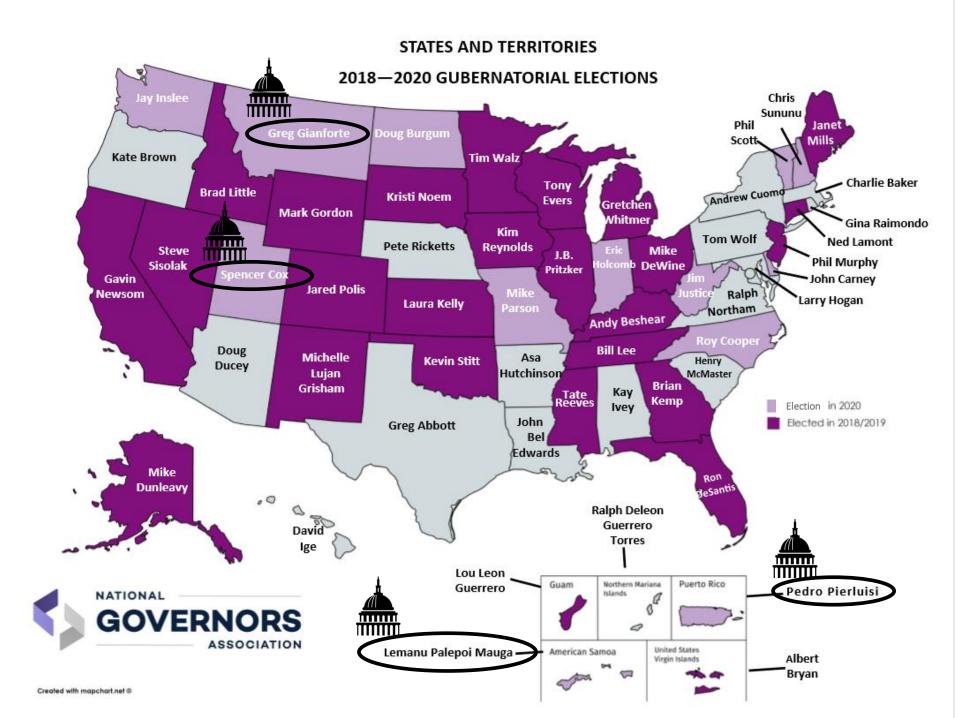
What is NGA?

Founded in 1908, the National Governors Association is the nonpartisan organization of the nation's 55 governors. Through NGA, governors share best practices, address issues of national and state interest and share innovative solutions that improve state government and support the principles of federalism.



STATES AND TERRITORIES





Recent Resources



COVID-19 Response & Resources

- Written Guidance:
 - <u>NGA Guidance on Supporting the Energy</u> <u>Sector during COVID-19 (revised 12/15)</u>
 - <u>Utility Disconnection Moratoriums</u>
 - Planning for Concurrent Emergencies
 - <u>Transportation Funding and Financing</u>
 <u>During COVID-19</u>
 - <u>State and Local Approaches to COVID-</u>
 <u>19 Vaccine Allocation</u>
 - <u>State COVID-19 Vaccine Resources</u>

Webinar:

<u>COVID-19 Impacts to Energy Security</u>

Online Resources:

- <u>www.nga.org/coronavirus</u>
- Governors' COVID-19 Resource Library
- State Resource Center on Energy Security





Emma Cimino & Jessica Rackley - NGA Center for Best Practices - September 1, 2020

Governors are leading on incentivizing and investing in clean energy. As of this writing, 30 states, Washington, D.C., and three territories have adopted a mandatory Renewable Portfolio Standard (RPS), while 7 states and one territory have set renewable energy goals.¹ Of these, 14 Governors and D.C. have ordered or signed into law 100 percent clean energy or zero-carbon electricity generation goals. This paper provides an overview of current Governor leadership on advancing clean energy. It provides a background on recent Governors' actions ahead of a workshop that NGA will be hosting this fall that will help Governors' energy advisors and other state energy policymakers explore, develop, and refine strategies to achieve their energy goals.

2016 and 2019 were the warmest years on record,² and 2020 is on track to be even warmer.³ As a result, states are seeing extreme weather events such as hurricanes, heat waves, wild fires, and winter storms increase in severity and frequency. Scientists attribute increases in extreme weather events to rising global temperatures, largely resulting from emissions from increased nergy use. At the same time, the price of clean energy technologies⁴ is dropping and consumer demand for renewable and on-site generation is increasing. These factors, coupled with a desire for more diverse power generation and a greater focus on resilience, are driving many Governors to focus on clean energy resources.

U.S. Clean Energy Goals by State: July 2020



Governors Leading on Energy Transitions: An Overview of State Energy Goals

- Enhancing clean energy and storage targets
- Modernizing energy infrastructure
- Rethinking traditional regulatory structures

Report available at:

https://www.nga.org/center/publications/governors-leadingenergy-transitions/ The Road Ahead: Planning for Electric Vehicles by Managing Grid Interactions



The Road Ahead: Planning for Electric Vehicles by Managing Grid Interactions

- Deploying Charging Infrastructure
- Managed Charging
- Vehicle-to-Grid Technologies

Report available at: <u>https://www.nga.org/wp-</u> content/uploads/2020/12/EV-Grid-Interaction.pdf Governor Strategies to Expand Affordable Broadband Access





New Report: Governor Strategies to Expand Affordable Broadband Access

In partnership with Western Governors University

Report available at: www.nga.org/broadband

State Resilience Assessment & Planning Tool (SRAP Tool)

Self-assessment led by Governor's Offices, completed with input from other agencies and state officials.

Energy and infrastructure focus, with five sections:

- 1. Establishing Effective Governance
- 2. Evaluating and Mitigating Risk
- 3. Assessing Vulnerabilities to Critical Infrastructure
- 4. Mitigating Economic Consequences and Financing Resilience
- 5. Strengthening Community Ties

Download the tool at: <u>https://www.nga.org/center/publications/state-resilience-assessment-planning-tool/</u>





2021 Areas of Focus



2021 Areas of Focus

Utility Affordability During the COVID-19 Pandemic

• Forthcoming whitepaper on disconnection moratoriums and affordability solutions

Energy Cybersecurity Preparedness

- Whitepapers on cybersecurity governance and information sharing
- State participation in GridEx VI

Infrastructure Resilience

- Workshop and whitepaper on state resilience planning and funding
- SRAP Tool implementation



2021 Areas of Focus

Clean Energy Deployment

• Training Series and Roundtables on Energy Markets

Nuclear Energy

Energy Efficiency

- Energy efficiency in a modernized energy system (primer for governors)
- Energy/water nexus white paper

Annual Governors' Advisors Energy Policy Institute and New Advisors Bootcamp (Summer 2021)



Thank You!

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National Conference of State Legislatures (NCSL)

Glen Anderson, Energy Program Director

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RECENT NCSL RESOURCES

- Two new resources on state hybrid and electric vehicle incentives and fees
 - Special Fees on Plug-In Hybrid and Electric Vehicles (12/20)
 - <u>State Policies Promoting Hybrid and Electric Vehicles</u> (11/20)
- <u>The Growing Role of Energy Storage in Clean Energy Policy</u> (11/20)
- <u>Creating Smart Communities | A Guide for State Policymakers (11/20)</u>
- <u>Bolstering Federal Energy Assistance and Weatherization With State Clean</u> <u>Energy Programs</u> (12/20)
- <u>NCSL's Take on the Elections</u>: Interview and article for Public Utilities Fortnightly
- The News Reactor: <u>October 2020</u> & <u>December 2020</u> This newsletter focuses on nuclear power and nuclear waste newsletter
- <u>Plugged In</u> (Oct. and Nov.) Monthly energy newsletter featuring state legislative trends, federal updates, and a variety of resources.

Creating Smart Communities A Guide for State Policymakers

MNCSL

NCSL SMART COMMUNITIES FOUNDATION PARTNERSHI

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Energy Programs



Bolstering Federal Energy Assistance

and Weatherization With State Clean

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OTHER ACTIVITIES & IMPORTANT DATES

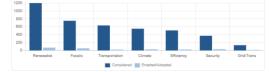
Webinars and Meetings

- <u>Building the 21st Century Energy Workforce</u> Webinar (10/20):
- Energy Supply Task Force Virtual Meeting October
 7, Agenda
 - Planning for Resilience on the Distribution Grid
 - Paul De Martini, managing partner, Newport Consulting | <u>Presentation</u>
- LEHI Virtual Launch for 2020-2021 Cohort (Nov. 19)
- LEHI Webinar Series for Alumni (Dec. 3, 10, 11)
- Energy Supply Task Force Virtual Meeting December
 - 2, <u>Agenda</u>

Managing the Costs and Risks of Electric Grid Infrastructure Investments

- o Fritz Kahrl, 3rdRail Inc. | Presentation
- Jeff Morris, Senior Director State Government Relations for North America Operations, Schneider Electric | <u>Presentation</u>

Energy	v State Bill Trackin	g Database
0,		4/23/202
The National Confer information.	ence of State Legislatures tracks energy legislation to bri	ng you up to date, real-time
information.		
	Energy Legislation Under Consideration and Enacte	ed in 2020



Last Update: April 23, 2020

for faster performance, please use the fields balow to filter your results. Hyou select nothing, the default searc vill pick up all topics and states in the most recent session year available. The full text of bills is available by licking on the bill number. This feature is available for bills from 2015 and later.

All Topics			<u>^</u>		States	
Climate Change				🗆 Ala	bama	
Climate Change - Adaptation and Environment				🗆 Ala	ska	
Climate Change - Carbon Capture and Sequestration				🗌 Aria	zona	
Climate Change - Emissions Reduction				Ark	ansas	
Electric Grid and Transmission				Cali	ifornia	
Energy Efficiency				Col	orado	
Energy Efficiency - Building Codes and Standards				Cor	necticut	
Energy Security	and Critical Infrastruct	ure	*	🗆 Del	aware	
KEYWORD	STATUS	BILL NUMBER	YEAR		AUTHOR	
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Legislative Tracking

- <u>Energy State Legislative</u>
 <u>Database</u>
- Tracking <u>COVID-19 legislation</u>, including energy sector impacts



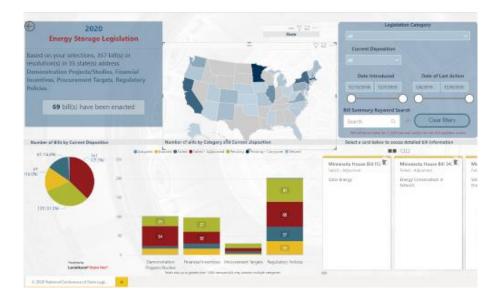
UPCOMING PUBLICATIONS & EVENTS

Publications and Resources

- Energy Storage Primer on storage and state policy options
- Energy Storage Database
- Energy Markets Web Brief
- 2020 Legislative Trends
- COVID Response Video and Web Page
- Advance Nuclear Reactors Report

Meetings

- Legislative Energy Horizon Institute (July)
- Energy Supply Task Force May/June





CONTACT AND RESOURCES

Glen Andersen and Kristy Hartman NCSL Energy Program 303-856-1509 <u>Kristy.Hartman@ncsl.org</u> <u>www.ncsl.org/research/energy</u>

- NCSL Energy Legislative Database
- Plugged In: NCSL's State & Federal Newsletter
- <u>NCSL Energy Publications List</u>





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- Only national non-profit organization whose membership includes the 56 governor-designated energy officials from each state and territory
- Improves the effectiveness of state energy programs and policies
- Six regions across the nation to aid in sharing lessons learned for successful policy and program replication
- Acts as a repository of information on issues of particular concern to the states and their citizens (e.g., grid modernization, energy resilience, energy security, cybersecurity, energy equity, energy-air integration)
- Committee structure includes, Electricity, Energy Security, Buildings, Financing, Transportation, Government Affairs
- Serves as the voice of SEOs in Washington, D.C.

NASEO Projects Discussed Today

NASEO-NARUC Microgrids Working Group

NASEO Other Projects

Volkswagen Settlement and REV West https://www.naseo.org/issues/trans portation

U .S. Energy & Employment Report <u>https://www.naseo.org/issues/energy-jobs</u>

NASEO-NARUC Grid-Interactive Efficient Bldgs Working Group

https://naseo.org/issues/buildings/nas eo-naruc-geb-working-group Energy Security https://www.naseo.org/energyassu rance

Building Energy Codes https://www.naseo.org/issues/buildin gs

State Energy Planning https://www.naseo.org/energyassu rance $\sum_{i=1}^{n}$

NARUC-NASEO Comprehensive Electricity Planning Task Force



+ NASEO-NARUC Microgrid Working Group

- Released two white papers
 - User Objectives and Design Approaches for Microgrids
 - Discusses various ways in which microgrids can satisfy customer needs and what State Energy Offices and Public Utility Commissioners can do to eliminate barriers to microgrid adoption
 - Private, State, and Federal Funding and Financing Options to Enable Resilient, Affordable, and Clean Microgrids
 - Discusses the cost components of a microgrid and the various funding and financing options customers have to procure capital for microgrid development

Webinar – Achieving Community Resilience Through Microgrids

- CA's EPIC Program, Blue Lake Rancheria Case Study, Value-of-Resilience from Solar Microgrids Methodology
- Upcoming webinar to discuss key insights from both white papers (February 2021)

NASEO Cybersecurity, Emergency Management, and Resilience Activities

Cybersecurity

- Cybersecurity Advisory Team for State Solar (CATSS)
- Cyber Threat Briefings
- Cyber information-sharing paper (NARUC & NGA)

Western Petroleum Shortage Response Collaborative (WPSRC)

Multi-state coordinated implementation of programs and measures

Energy Emergency Response Playbooks for States and Territories

- U.S. Territories Energy Assurance Accelerator Program
- Energy Assurance Planning

Resilience Financing

- FEMA BRIC, HUD CDBG
- Defense Critical Infrastructure

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National Association Coordination

Tuesday, January 26, 2021

Virtual Meeting

www.electricitypolicy.org all resources

www.naruc.org/mynaruc to be placed on the listserv