



NATIONAL COUNCIL
ON ELECTRICITY POLICY

National Association Coordination

Mid-2020

Monday, June 29, 2020

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 www.electricitypolicy.org.
- 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 www.naruc.org/mynaruc/ or e-mail Kerry Worthington at Kworthington@naruc.org after your profile has been created.

Agenda

Time	Item	Speaker
3:00	Welcome	Kerry Worthington, NCEP/NARUC Staff
3:05	About NCEP and NCEP Updates	Kerry Worthington, NCEP/NARUC Staff
3:10	National Association of Regulatory Utility Commissioners (NARUC)	Danielle Sass Byrnett, NARUC Center for Partnerships & Innovation Director
3:17	National Governors Association (NGA)	Dan Lauf, NGA Energy Program Director
3:24	National Conference of State Legislatures (NCSL)	Kristy Hartman, NCSL Energy Director
3:31	National Association of State Energy Officials (NASEO)	Kirsten Verclas, NASEO Electricity Programs Director
3:38	National Association of State Utility Consumer Advocates (NASUCA)	David Springe, NASUCA Executive Director
3:45	National Association of Clean Air Agencies (NACAA)	Miles Keogh, NACAA Executive Director
3:52	Q&A	
4:00	Adjourn	



National Council on Electricity Policy

Kerry Worthington

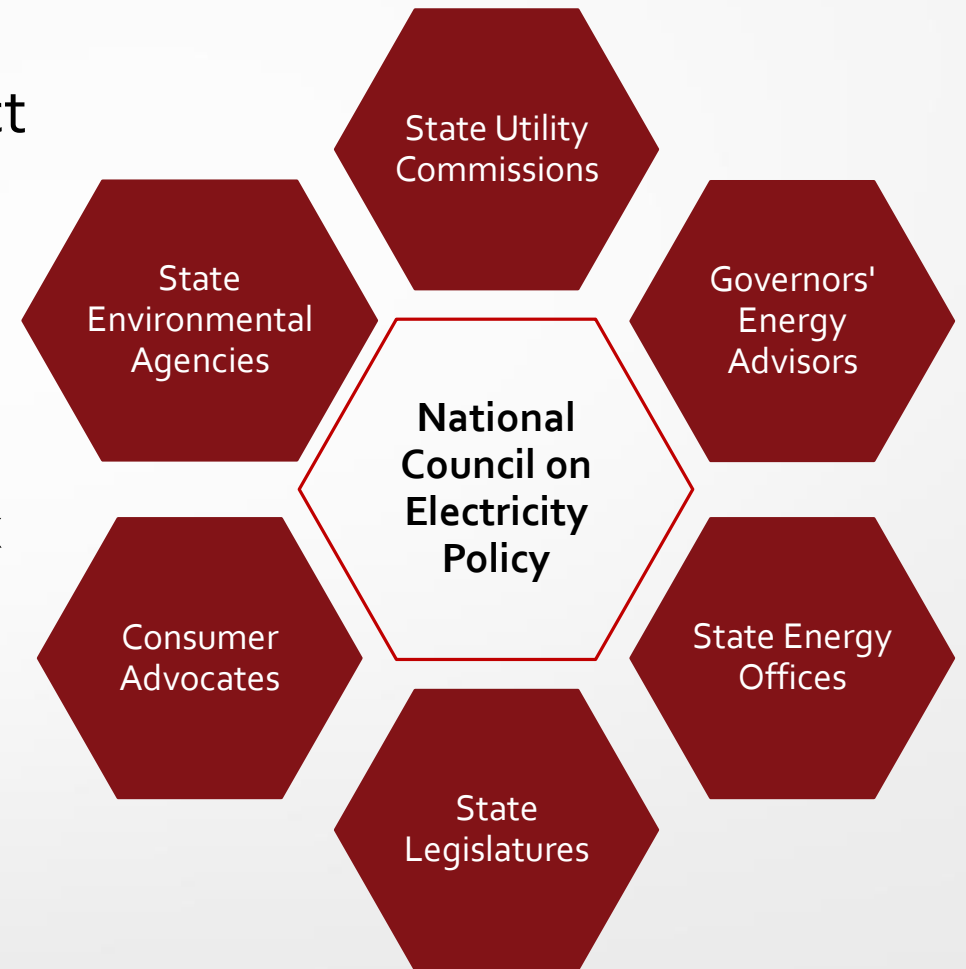
NCEP/NARUC Program Manager

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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 www.electricitypolicy.org.**
- NCEP thanks the U.S. Department of Energy for its ongoing support. NCEP is an affiliate project of NARUC.





Recent & Upcoming Resources

T&D Resource Catalog (updates ongoing)

Mini-Guide on PUC-SEO Engagement (upcoming)

Resources are located at <http://electricitypolicy.org/resources/>



NCEP Annual Meeting and Workshop 2020

Week of December 7, 2020

Evolving Compensation and Market Mechanisms

In 2020, NCEP will continue it's multi-year T&D coordination theme and explore the age-old utility question of "who pays?" with a new twist from grid modernization: "how?"

Session Concepts include (tentative):

- Operational Considerations for Distribution-Level Markets
- Introduction to Compensation and Market Mechanisms
- Exploring Optimization through Benefit-Cost Analysis
- Foundations of Dynamic Loads and Dynamic Pricing



National Association of Regulatory Utility Commissioners (NARUC)

Danielle Sass Byrnett, Director
NARUC 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 non-profit 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



Energy Infrastructure
Modernization



Electric System
Transition



Critical Infrastructure,
Cybersecurity, and Resilience



Emerging Issues

www.NARUC.org/CPI

WEBINAR RECORDINGS

CPI Innovation Webinar Series (monthly, Thursdays 3-4pm ET) www.naruc.org/cpi-1/emerging-issues/innovation-webinars/	<ul style="list-style-type: none">• Register Now: Lesser Known Renewable Technologies, August 20, 2020, 3:00 - 4:00 pm ET• Measuring Energy Efficiency Savings in Real-Time Enhances Program Performance, June 19, 2020• Carbon Pricing in Utility Regulation, May 21, 2020• A New Electric Paradigm in Puerto Rico: The Role of Distribution System Planning, April 30, 2020• The Electron Superhighway: Modernizing U.S. Transmission Infrastructure, March 19, 2020
NARUC-NASEO Task Force on Comprehensive Electricity Planning Webinar Series www.naruc.org/taskforce/webinars/	<ul style="list-style-type: none">• Integrated, Resilient Distribution Planning, May 26, 2020• Valuing Demand Flexibility for Electric Utility Systems, April 6, 2020• How Integrated Distribution Planning is Meeting the Goals of a Consumer-Owned Electric Coop, March 9, 2020
Electric Vehicles State Working Group: Webinar Series www.naruc.org/cpi-1/energy-infrastructure-modernization/electric-vehicles/	<ul style="list-style-type: none">• Ensuring Equity in EV Programs, May 26, 2020• Managed Charging and Vehicle-to-Grid, April 28, 2020• The Utility Role in Charging Infrastructure, March 31, 2020• Time-Varying Rates for EV Charging, January 14, 2020
NARUC-NASEO Microgrids State Working Group: Webinar	<ul style="list-style-type: none">• Register Now: Getting Microgrids to Market: Regulatory and Business Models for Resilience, July 1, 3:00 - 4:30 pm ET

RECENT RESOURCES WWW.NARUC.ORG/CPI-1/

Smart Grid	<ul style="list-style-type: none">• Smart Grid Interoperability: Prompts for State Regulators to Engage Utilities, April 2020• Smart Grid Interoperability Learning Module series, May 2020
Distribution Systems & Planning	New video-based recordings posted: <ul style="list-style-type: none">• Southeastern Distribution Systems & Planning Training, March 11-12, 2020
Resilience	<ul style="list-style-type: none">• Advancing Electric System Resilience with Distributed Energy Resources: A Review of State Policies, April 2020• Advancing Electric System Resilience with Distributed Energy Resources: Key Questions and Resources, April 2020
Critical Infrastructure & Cybersecurity	New web-based compilations of executive orders and federal guidance: <ul style="list-style-type: none">• Critical Infrastructure Policy and Practice• Energy Emergency Management• Exercises• Cybersecurity Policy and Practice

NEW PROJECTS / FORTHCOMING RESOURCES

Stakeholder Engagement publication	<ul style="list-style-type: none"> • Utility Commission Stakeholder Engagement Approaches: A Decision Making Framework
Battery Energy Storage report	<ul style="list-style-type: none"> • Analysis of Battery Energy Storage Technology Adoption by Electric Utility Structure
Cybersecurity publications	<ul style="list-style-type: none"> • Cybersecurity Partnerships and Information Sharing • Guide to State Cybersecurity Table Top Exercises
NASEO-NARUC Initiative on Cybersecurity in Solar Projects: Cybersecurity Advisory Team for State Solar (CATSS)	<p>Three-year partnership with DOE to mitigate cybersecurity risks and consequences in solar energy developments. Seeking state members for advisory council. Contact Lynn Costantini, lcostantini@naruc.org or Kirsten Verclas, kverclas@naseo.org</p>
NARUC Emergency Preparedness, Recovery and Resiliency Task Force	<p>New two-year Task Force will fully launch in mid-July to:</p> <ul style="list-style-type: none"> • Conduct research and provide ongoing education on federal funding to support recovery • Support NARUC member preparedness in the event of a Black Sky event • Seek to build consensus on construction standards for FEMA reference in recovery • Provide education on COVID-19 lessons learned and best practices

NARUC Summer Policy Summit: July 20-22 (afternoons) ONLINE



National Association of Regulatory Utility Commissioners (NARUC)

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National Governors Association (NGA)

Dan Lauf, Energy Program Director

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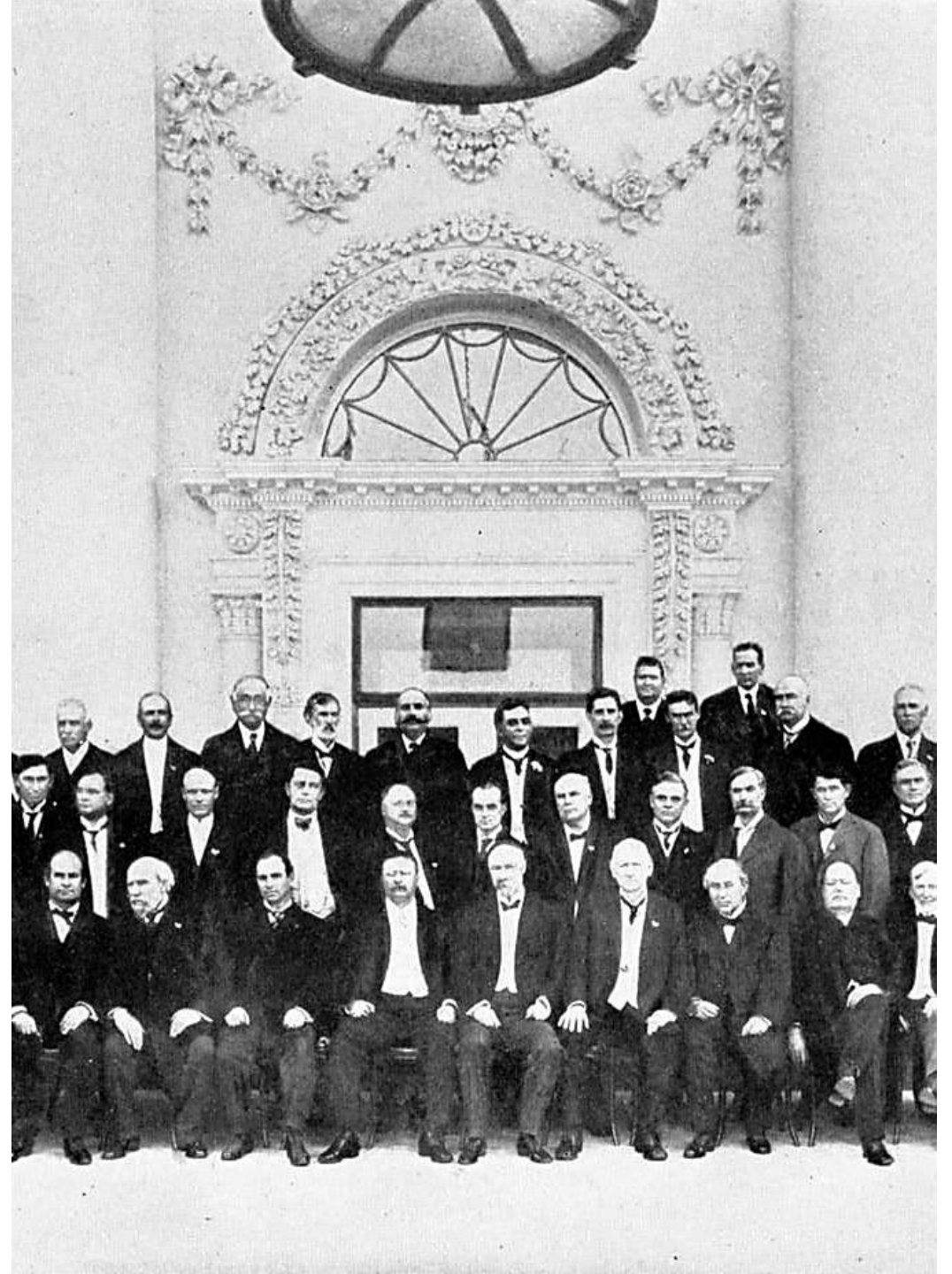
Governors' Energy Policy Actions

Dan Lauf
NGA Center for Best Practices

June 6, 2020
NCEP Webinar

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.



COVID-19 Energy Resources

Written Guidance:

- [NGA Guidance on Supporting the Energy Sector during COVID-19](#)
- [NGA Guidance on State Moratoriums on Utility Disconnections and Related Actions During the COVID-19 Pandemic](#)
- [Governors' COVID-19 Resource Library](#)
 - **Memos on: Testing, PPE, Concurrent Disasters, Reopening, Economic Recovery, Cybersecurity, and more**

Webinar:

- [COVID-19 Impacts to Energy Security](#)



Online Resources:

- www.nga.org/coronavirus
- [State Resource Center on Energy Security](#)

Other Recent Publications and Resources

Recent:

NGA's Coronavirus Website: www.nga.org/coronavirus

Online Portal: [State Resource Center on Energy Security](#)

White Paper: [Planning for State Transportation Revenue in a Coming Era of Electric Vehicles](#)

Online Publication Series: [State Energy Toolkit](#)

White Paper: [Housing Resilience: Best Practices for States on Resilient Planning & Recovery](#)

Coming Soon:

State Resilience Assessment & Planning Tool (SRAP Tool)

Strategies to meet governors' clean energy goals

Integrating high volumes of electric vehicles into the grid

Cybersecurity governance bodies

Cybersecurity coordination and information sharing (with NARUC and NASEO)

State strategies to expand broadband access



2020 Projects and Upcoming Workshops

Additional Recent and Ongoing Projects:

Cybersecurity Roles, Responsibilities, and Information Sharing
Energy Efficiency and Affordability – Roundtable and State Support
Grid Modernization In-State Retreats and Follow-up (MD, NJ, NM, RI)
GridEx State Support ([January '20 workshop](#) and GridEx VI planning)
State Solutions to Expand Broadband Access
 June Roundtables
 Forthcoming Whitepaper

Upcoming Events (all virtual):

Energy/Water Nexus Learning Lab (September 1-3, 2020)
Transportation Electrification National Workshop (Sept 16-18, 2020)
Offshore Wind (Sept 25, Sept 30, Oct 7, 2020)
Clean Energy National Workshop – (October 27-29, 2020)

Annual Governors' Advisors Energy Policy Institute (August 2020)

2019-20 NGA Chair's Initiative: [*Infrastructure: Foundation for Success*](#)



Thank you!

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National Governors Association (NGA)

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National Conference of State Legislatures (NCSL)

Kristy Hartman, Energy Program Director

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RECENT NCSL RECOURSES

- [*Cybersecurity and the Electric Grid: The state role in protecting critical infrastructure*](#) (January) - Helps answer the most pressing questions on the role of state legislatures when it comes to cybersecurity in the energy sector.
- [*Safe and Reliable Pipelines: A Primer for State Legislatures*](#) (February) – A report on pipeline infrastructure, focusing on state and federal regulation.
- [*2019 Legislative Energy Trends*](#) (March) – Report focuses on key legislative trends in energy policy.
- [*Energy Efficiency Update*](#) (March) – An overview of 2019 state legislation related to energy efficiency.
- [*State Renewable Portfolio Standards and Goals*](#) (April) – An update on state RPS policies.
- [*COVID-19 Essential Workers in the States*](#) (May) –A webpage dedicated to tracking how various states designate essential workers, including those in the energy sector.
- [*COVID-19 Energy Sector Impacts Blog Series*](#) (April/May) – The energy program published blogs on state action to [*prevent utility shutoffs*](#), [*mounting job losses in the clean energy sector*](#) and issues surrounding [*essential energy worker designations*](#)
- [*Plugged In*](#) (January – May) – Monthly energy newsletter featuring state legislative trends, federal updates, and a variety of resources.

ENERGY

Cybersecurity and the Electric Grid

The state role in protecting critical infrastructure

BY DANIEL SHEA

Introduction

The nation's energy infrastructure is under a growing cyberthreat. As business and operational capabilities are increasingly targeted by malicious actors, while the federal government is taking action to help utilities and operators of critical infrastructure defend against the persistent barrage of cyberattacks, state policymakers are pursuing additional measures to establish security requirements and bolster cyber-protection.

The vulnerabilities of the energy sector are of particular concern to national security due to its enabling function across all critical infrastructure systems—with electricity and fuels used to power transportation, A succumbed to effect

if security due to the critical nature of the information it handles. But state energy grid operators have three advantages: they control the physical infrastructure, they control the information, and they control the money. This report examines the state's role in protecting the nation's energy infrastructure.



Between \$243 billion and \$1 trillion

Estimated cost of a successful cyberattack on the Northeast U.S. power grid that would result in power loss, according to the insurance firm Lloyd's of London.

ENERGY, ENVIRONMENT AND TRANSPORTATION

2019 Legislative Energy Trends

BY DANIEL SHEA, LAURA SHELLEY AND KRISTY HARTMAN

State legislatures engaged in 2019 and have moved into 2020 enacting a wide range of energy policies. In 2019, lawmakers considered over 3,000 energy-related measures—a sizable increase compared to 2018—and enacted over 500 new laws.

This article provides an overview of the trending energy policies considered by state legislatures across the country. From electric vehicle fees and incentives to energy storage, workforce development and modernizing the grid, state lawmakers took action to encourage energy innovation and increase efficiency. The gas price continues to rise, and which topics are likely to take priority in 2020 and beyond.

Clean Energy

Perhaps the biggest trend in 2019 dealt with state initiatives to reduce emissions from the electric sector, with a handful of states taking sweeping, decisive action toward decarbonization. Legislators in 18 states, D.C., and Puerto Rico considered over 3,000 bills related to clean energy, renewable energy or emissions reductions in 2019 and over 500 of those measures were enacted or adopted. State legislation focused on a variety of clean energy technologies—including solar, offshore wind, geothermal, hydropower, energy storage and nuclear power. States also looked for a variety of policy mechanisms to support a clean energy economy in ensuring legislation that includes mandates, incentives and near-term strategies.

States are increasingly focused on policies aimed at reducing greenhouse gas emissions (GHG) and, in particular, on reducing emissions from the nation's largest-emitting sectors: transportation and power. During the 2019 legislative session, 33 states and Puerto Rico considered over 800 bills focused on reducing GHGs, with over 40 measures enacted or adopted. A number of bills enacted binding GHG reduction targets and legislatures showed continued interest in carbon pricing policies.



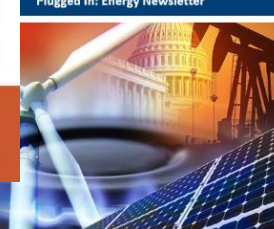
In 2019, Colorado (HB 1261), Maine (SP 555), Nevada (SB 204), New York (SB 6208) and Puerto Rico (SB 772) enacted ambitious targets aimed at reducing GHGs across economic sectors, with more states considering similar legislation.

In addition to establishing emissions targets, states focused on creating a framework for agencies to implement the regulations necessary to achieve required reductions. For example, Colorado (SB 1261) directs the state air commission (SAC) to develop regulations that achieve incremental reductions, culminating in 20% reductions in GHGs below 2005 levels by 2030. This new law also requires the SAC to regularly engage with the General Assembly, biennially report on the state's progress toward achieving the targets and make recommendations for future legislation to address climate change.

While most states focused on setting emissions targets for the first time, others, like Maine, focused on establishing binding long-term targets. Maine law previously required a return to 1990



Plugged In: Energy Newsletter



Access all NCSL [energy-related publications](#)

NATIONAL CONFERENCE OF STATE LEGISLATURES

OTHER ACTIVITIES & IMPORTANT DATES

Webinars

- [COVID-19: Critical Energy Infrastructure](#) (April)
- [Who Decides A State's Energy Mix](#) (April)
- [Solar on Agricultural Lands—Preserving Pollinator Habitat and Soil Health](#) (May)
- [What's Exceptional? State Efforts to Meet Clean Air Standards](#) (June)

Videos

- Public Utilities Fortnightly: [Response to COVID-19](#)
- Public Utilities Fortnightly: [Decarbonizing the Electric Sector](#)

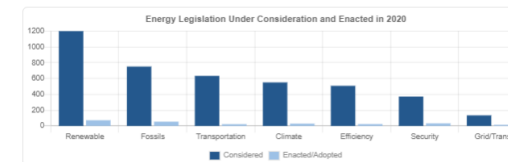
Legislative Tracking

- [Energy State Legislative Database](#)
- Tracking [COVID-19 legislation](#), including energy sector impacts

Energy State Bill Tracking Database

4/23/2020

The National Conference of State Legislatures tracks energy legislation to bring you up to date, real-time information.



Last Update: April 23, 2020

For faster performance, please use the fields below to filter your results. If you select nothing, the default search will pick up all topics and states in the most recent session year available. The full text of bills is available by clicking on the bill number. This feature is available for bills from 2015 and later.

TOPICS		STATES	
<input type="checkbox"/> All Topics	<input type="checkbox"/> All States		
<input type="checkbox"/> Climate Change	<input type="checkbox"/> Alabama		
<input type="checkbox"/> Climate Change - Adaptation and Environment	<input type="checkbox"/> Alaska		
<input type="checkbox"/> Climate Change - Carbon Capture and Sequestration	<input type="checkbox"/> Arizona		
<input type="checkbox"/> Climate Change - Emissions Reduction	<input type="checkbox"/> Arkansas		
<input type="checkbox"/> Electric Grid and Transmission	<input type="checkbox"/> California		
<input type="checkbox"/> Energy Efficiency	<input type="checkbox"/> Colorado		
<input type="checkbox"/> Energy Efficiency - Building Codes and Standards	<input type="checkbox"/> Connecticut		
<input type="checkbox"/> Energy Security and Critical Infrastructure	<input type="checkbox"/> Delaware		

KEYWORD	STATUS	BILL NUMBER	YEAR	AUTHOR
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NATIONAL CONFERENCE OF STATE LEGISLATURES

UPCOMING PUBLICATIONS & EVENTS

Publications

- 2020 Energy Security Report (sent for publication) - A biannual report covering state legislative trends related to energy security.
- NCSL Legisbrief (draft) – Two-page fact sheet on state business rapid response laws.
- Tribal Energy Primer (draft) – Report examining energy emergency planning for Indian Country.
- New Webpage (draft) – covers special fees on electric vehicles.
- New Webpage (draft) – Charging Infrastructure: Role of Utilities & Electricity Regulations

Webinars

- Energy Equity and Affordability: State Policy Action, July 23 at 3 pm ET
- Workforce Development in the Energy Sector (September)
- Distribution System Planning Series with LBNL (*tentative*)

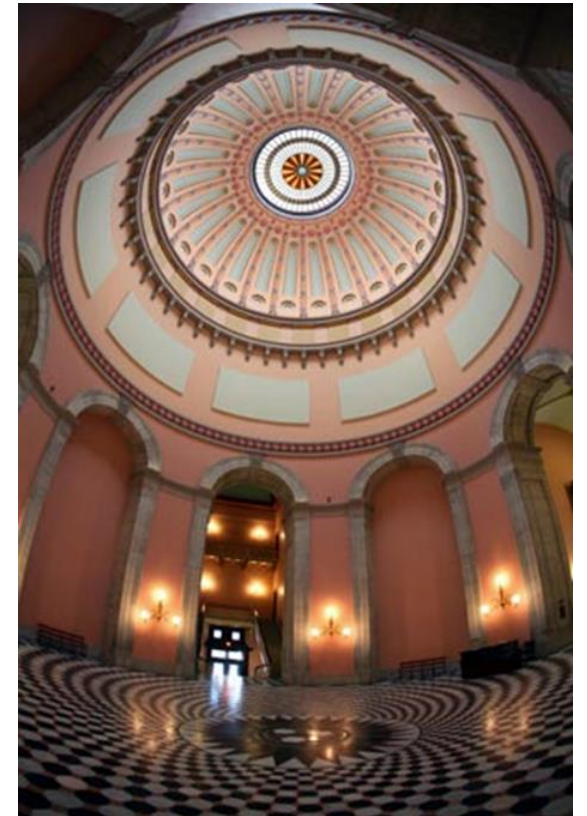
Meetings

- NCSL Base Camp, 3-day online event, September 15 – 17
 - The State-Federal Clash Over the Energy Mix (*tentative*)
- NCSL Capitol Forum, December 8 – 12 in Washington, DC
- Possible video training series

CONTACT AND RESOURCES

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www.ncsl.org/research/energy

- [NCSL Energy Legislative Database](#)
- [Plugged In: NCSL's State & Federal Newsletter](#)
- [NCSL Energy Publications List](#)



NATIONAL CONFERENCE OF STATE LEGISLATURES



National Conference of State Legislatures (NCSL)

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National Association of State Energy Officials (NASEO)

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About NASEO



- Only national non-profit organization whose membership includes the 56 governor-designated energy officials from each state and territory
- Six regions across the nation to aid in sharing lessons learned for successful policy and program replication
- Committee structure includes, Electricity, Energy Security, Buildings, Financing, Transportation, Government Affairs
- 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)
- Improves the effectiveness of state energy programs and policies
- Serves as the voice of State Energy Offices in Washington, D.C.

+ NASEO Project Areas

31

Buildings

- Building Energy Codes
- Grid-Interactive Efficient Buildings WG
- Home Energy Labeling

Electricity

- Microgrids State WG
- Comprehensive Electricity Planning Task Force
- Resilience

Energy Financing

- Energy Savings Performance Contracting
- Property Assessed Clean Energy
- On-bill Financing

Energy Jobs

- U.S. Energy and Employment Report
- Energy Employment Policies and Programs

Energy Security

- Energy Assurance Planning
- Active Responses
- Cybersecurity
- Hazard Mitigation

Solar

- Solar Soft Costs
- Solar Cyber
- Low-Income Solar

State Energy Planning

- State Energy Planning Guidelines
- Best Practices

Technology Innovation

- Technology Innovation Processes
- Federal Activities

Transportation

- Volkswagen Settlement
- REV West
- Electric Vehicles & Alternative Fuels

Crosscutting Issues: Resilience, Equity, COVID-19 and Economic Recovery, etc.



NASEO Project and Activities Spotlight



**Cybersecurity Advisory Team
for State Solar (CATSS)**



REV WEST



COVID-19 Response Hub



**Grid Interactive Efficient
Buildings Working Group**



**State Microgrid Working
Group**

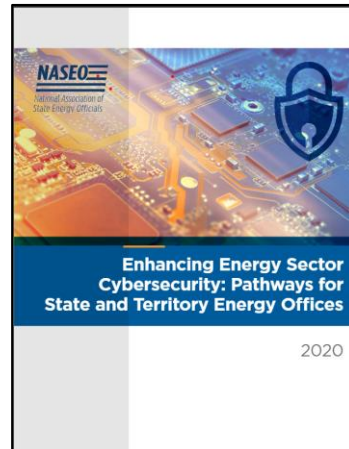


Federal Agency Engagement



NASEO Most Recent Publications

- NASEO, [Home Energy Labeling](#), December 2019
- NASEO, [State Funding of Technical Assistance for Guaranteed Energy Savings Performance Contracts](#), March 2020
- NASEO & EFI, [The 2020 U.S. Energy & Employment Report](#), March 2020
- NASEO, [Rural Data Resources for State Energy Planning and Programs](#), May 2020
- NASEO, [The Value of Adding Home Energy Score to Low-Income Energy Efficiency Programs](#), May 2020
- NASEO, [Enhancing Energy Sector Cybersecurity: Pathways for State and Territory Energy Offices](#), June 2020
- NASEO, [States and Cleantech Innovation: An Examination of State Energy Offices' Roles in Clean Energy Technology-Based Economic Development](#), June 2020





NASEO Upcoming Projects and Events

■ Upcoming Publications

- NARUC NASEO Mini-Guide on Coordination between Public Utilities Commissions and State Energy Offices
- NARUC NASEO Microgrid Papers
 - Funding and financing options for microgrid deployment
 - Use cases and design configurations for microgrids
- Cyberinformation Sharing White Paper (with NARUC)

■ Upcoming Events and Webinars

- 2020 NASEO Regional Meeting Series, June 3 – July 21 ([virtual events](#))
- NARUC-NASEO Microgrids State Working Group Webinar: Getting Microgrids to Market - Regulatory and Business Models for Resilience, July 1 ([webinar](#))
- NARUC-NASEO Webinar on Transmission Planning Coordination in Comprehensive Electricity Planning, July 7 ([webinar](#))
- NASEO Electricity Committee Webinar on Advanced Nuclear Technologies, July 8 ([webinar](#))

[\(see NASEO website for additional upcoming events\)](#)



Questions and Contact



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NASEO Staff List: <https://www.naseo.org/naseo-staff>



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National Association of Clean Air Agencies (NACAA)

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Virtual Meeting

www.electricitypolicy.org
all resources

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