



NATIONAL  
**GOVERNORS**  
ASSOCIATION

# Governors' New Energy Policy Advisors Bootcamp

June 22, 2021

NGA Center for Best Practices

# **Pre-Meeting: New Advisors Bootcamp**

Tuesday, June 22

# Welcome & Opening Remarks

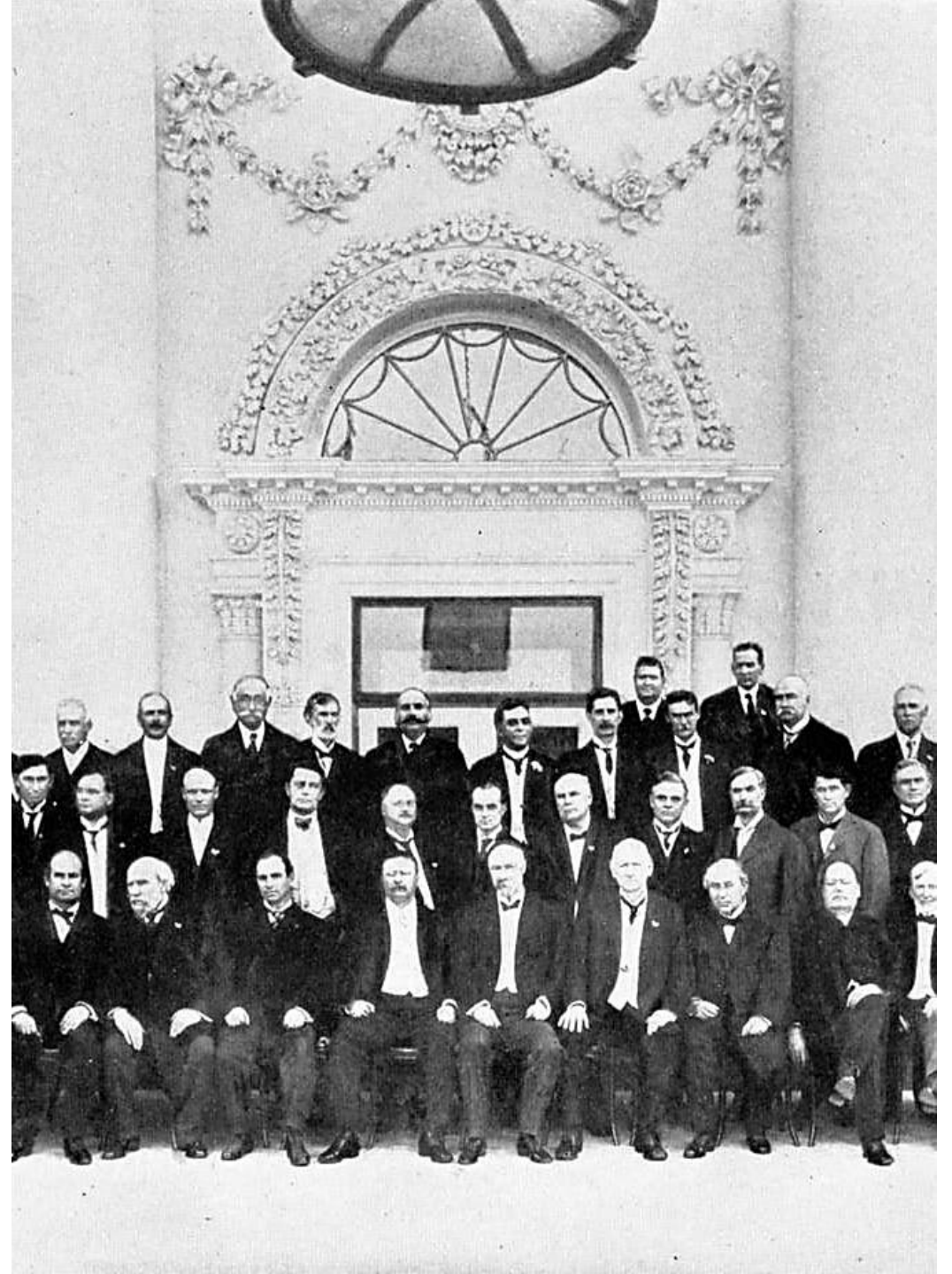
1:00-1:15 PM

*Speaker:*

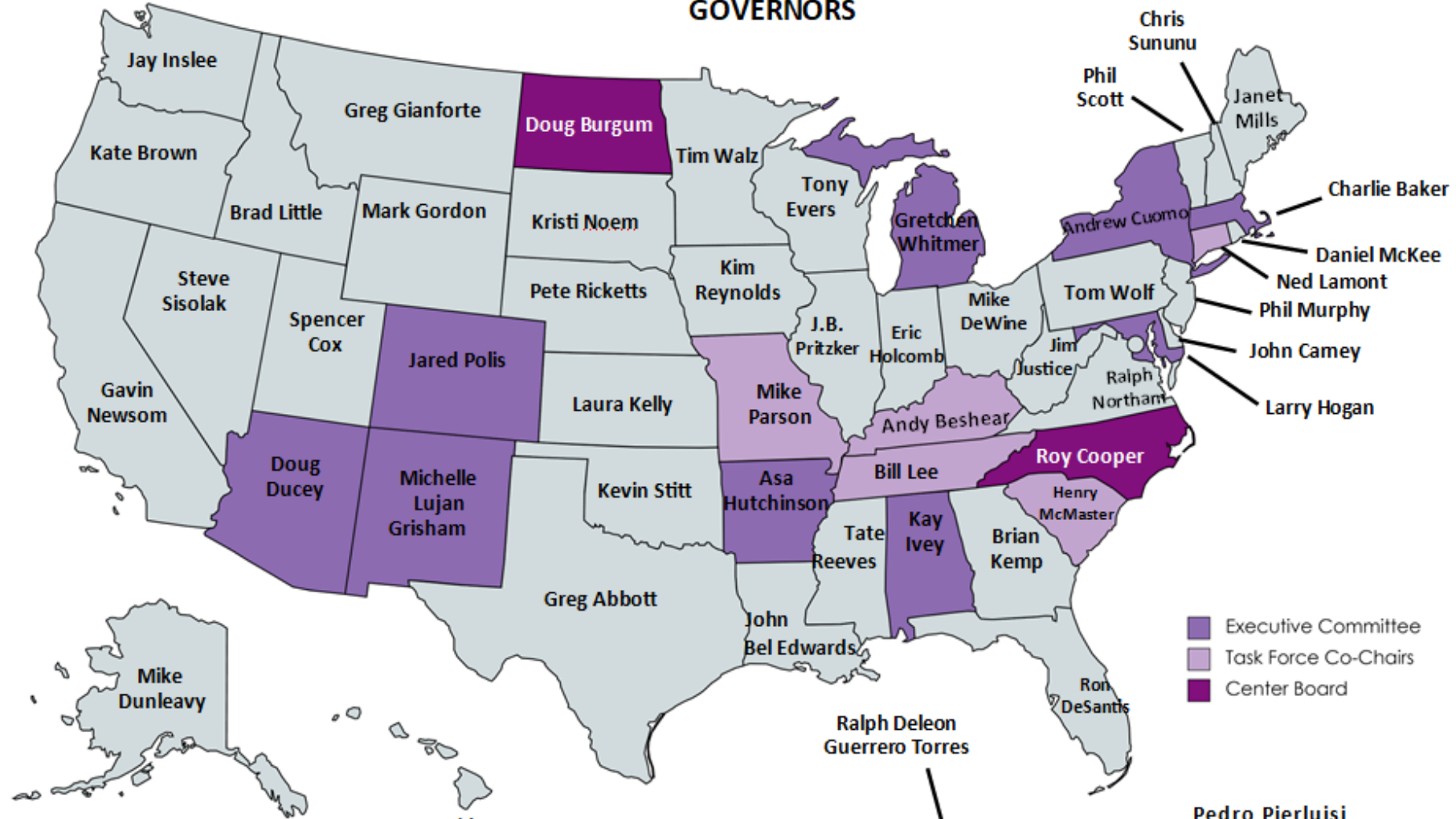
**Jessica Rackley**, Program Director, Environment & Energy, NGA  
Center for Best Practices

# **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.

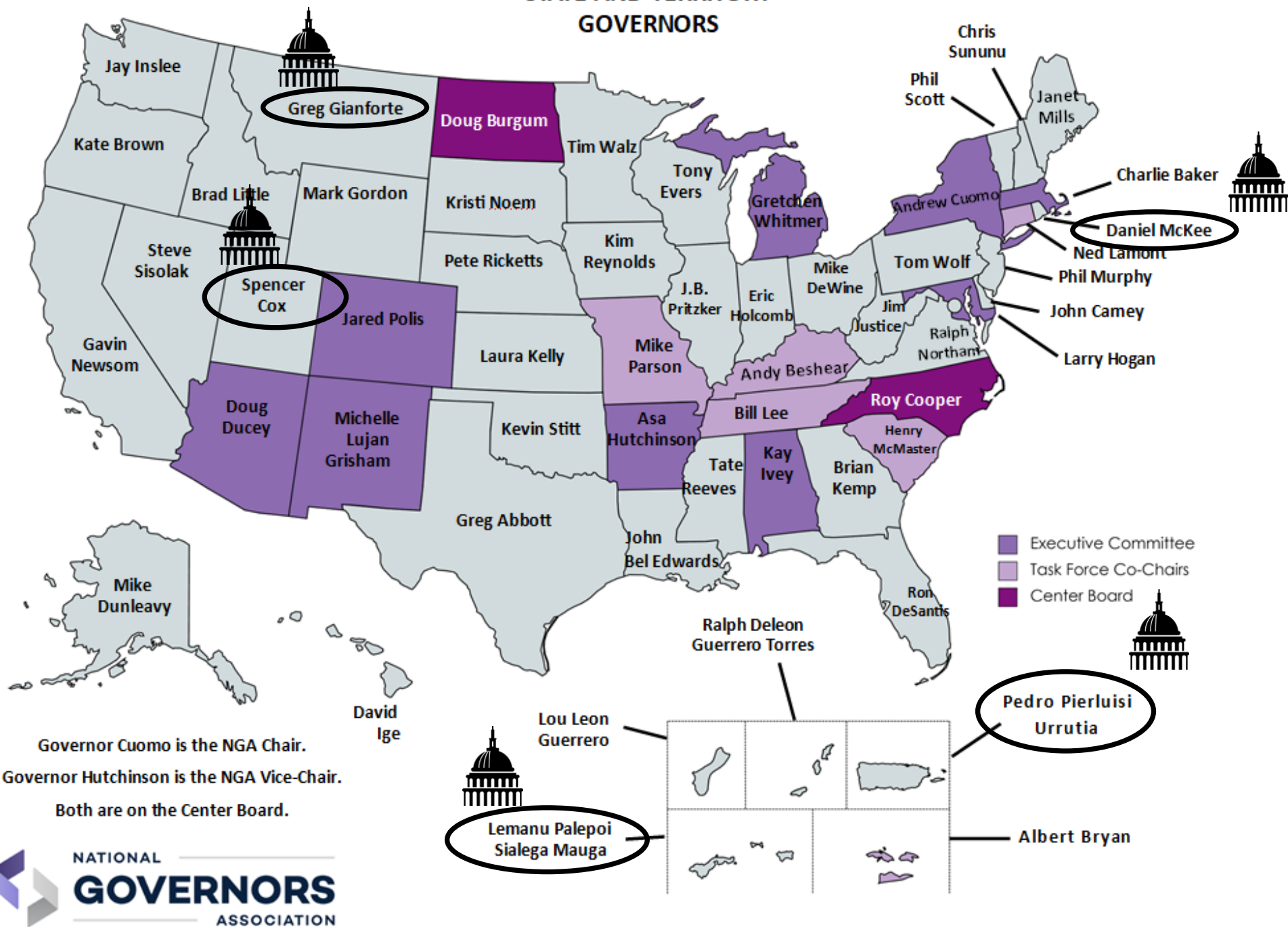


# STATE AND TERRITORY GOVERNORS



Governor Cuomo is the NGA Chair.  
Governor Hutchinson is the NGA Vice-Chair.  
Both are on the Center Board.

# STATE AND TERRITORY GOVERNORS





# NGA Center for Best Practices. Energy Policy Learning Network



Provide governors **state-based** energy **solutions** that **enhance outcomes** for: economic and workforce development, sustainability, equity, reliability, resilience, health, and safety.

## Program Directors

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Dan Lauf



Jessica Rackley

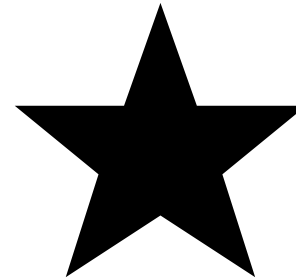
Additional support from  
NGA's Infrastructure,  
Environment, Workforce,  
Economic Development,  
Homeland Security, and  
Cybersecurity Teams

## Policy Analysts

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Matthew Rogotzke



VACANT



Timothy Schoonhoven

## Program Support



Cara Dougherty



# Select Upcoming Opportunities

- **Energy Policy Institute**, first day is this Thursday, June 24 and will be followed by sessions on:
  - July 13 – Climate & Clean Energy
  - July 14 – Energy Resilience & Security
  - July 15 – Energy Workforce & Economic Development
- **Energy Resilience** Planning and Funding Workshop (July 28-29; Aug 3-4)
- Learning collaborative on new **nuclear generation** (summer & fall 2021)
- **Electricity markets** training and resource guide – educational series (August/September 2021)
- **Energy Cybersecurity Information Sharing** whitepaper
- State support for participation in **GridEx VI** (November 16-17, 2021)

# Types of Assistance Available to States

- Bimonthly governors' energy policy advisors calls where you can hear from energy experts and share what you're working on with your peers; Next call (TBD, Sept. 2021)
- Quarterly webinars on timely energy sector topics
- Research memos on state energy policy topics (by request), recent topics include:
  - State climate-transportation plans
  - State agency structures and where energy sector staff reside within agencies
  - State hydrofluorocarbon (HFC) regulations and appliance standards
  - State and local energy siting and permitting challenges
- We also host periodic workshops and state cohort projects on key topics of interest, produce written policy briefs and tools, and do direct (sometimes in-state) consultations and stakeholder meetings

# Preview of Today's Bootcamp Agenda

- 1:15 to 1:45 PM – State Introductions
- 1:45 to 2:30 PM – Perspectives from Veteran Peers
- 2:30 to 2:45 PM – Break
- 2:45 to 3:30 PM – Federal Partner Introductions
- 3:30 to 3:45 PM – State Discussion & Wrap-Up

# State Introductions and Updates

(\*\*\*please keep your introduction to 2 minutes or less)

- What policy areas are you responsible for in your role?
- What have been your top energy areas of focus so far?
- What challenges and successes have you experienced in your role so far?
- What is an area where NGA and your peers can particularly assist you?

1:15-1:45 PM

# Perspectives from Veteran Peers

Speakers:

**Anne Vogel**, Deputy Policy Director and Energy Advisor, Office of Ohio Governor Mike DeWine

**Jeremy Tarr**, Senior Advisor for Climate Change Policy, Office of North Carolina Governor Roy Cooper

**Jane Cohen**, Director, Governor's Office of Climate Action and the Green Economy, Office of New Jersey Governor Phil Murphy



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# Break

2:30-2:45 PM



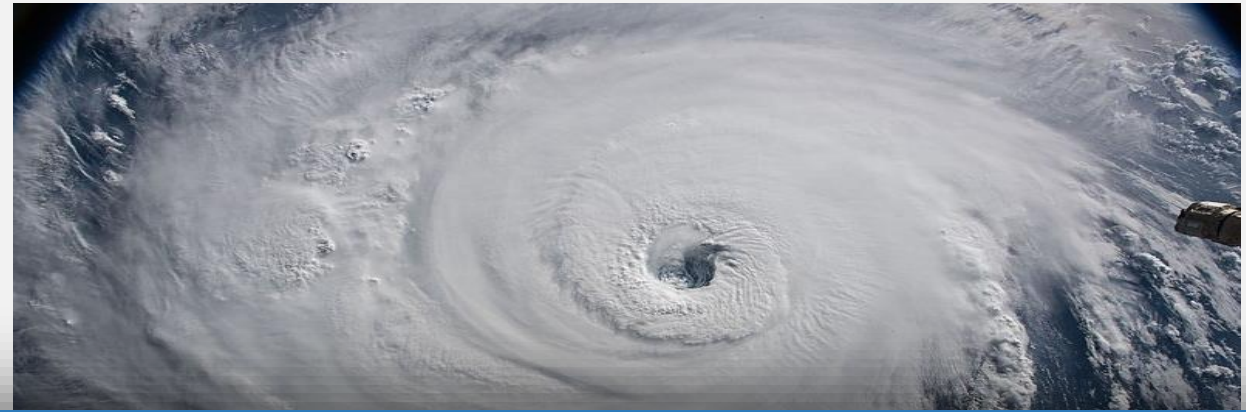
# Federal Partner Introductions

**Brandi Martin**, SLTT Program Manager, Office of Cybersecurity, Energy Security, & Emergency Response, U.S. DOE

**Joyce Kim**, Energy Resilience Division, Office of Electricity, U.S. DOE

**Amy Kidd**, Acting Manager, State Energy Program, Weatherization and Intergovernmental Programs Office, Office of Energy Efficiency and Renewable Energy, U.S. DOE

**Jon Carmack**, Senior Technical Advisor, Office of Nuclear Energy, U.S. DOE



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
Cybersecurity, Energy Security,  
and Emergency Response

# Governors' New Energy Policy Advisors Bootcamp

Brandi Martin

Cybersecurity, Energy Security and Emergency Response (CESER)

June 22, 2021



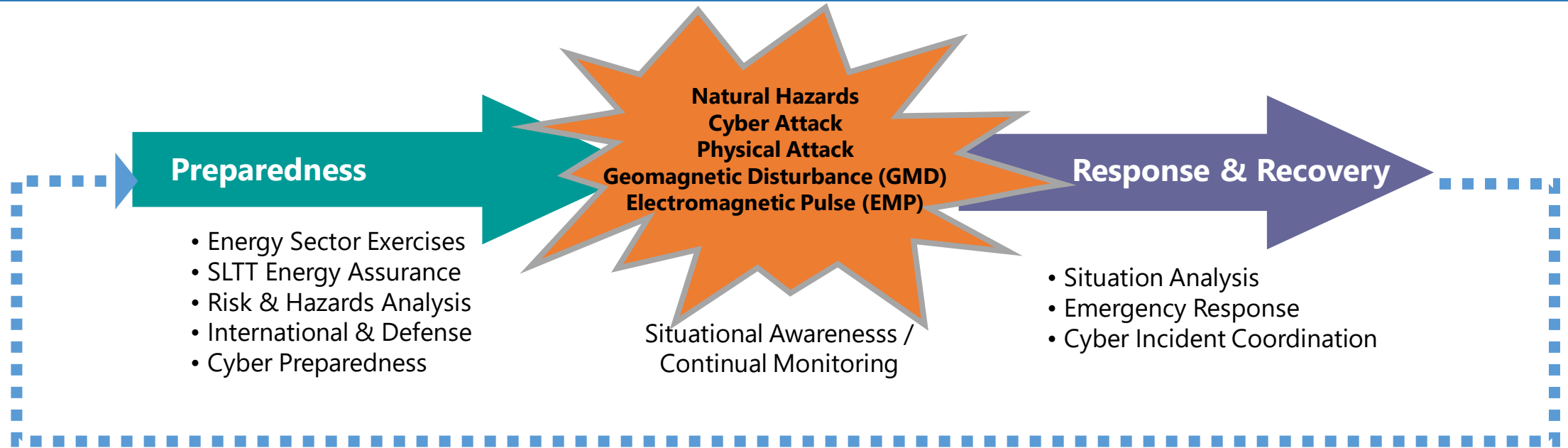
# CESER Overview

Mission: To enhance the security of U.S. critical energy infrastructure to all hazards, mitigate the impacts of disruptive events and risk to the sector overall through preparedness and innovation, and respond to and facilitate recovery from energy disruptions in collaboration with other Federal agencies, the private sector, and State, local, tribal, and territory governments.

## Evolving Threats to Critical Infrastructure



# CESER Preparedness and Emergency Response



## Sector Specific Agency / SRMA

- PPD-8 – Preparedness
- PPD-21 – Infrastructure
- PPD-41 – Cyber
- National Infrastructure Protection Plan (NIPP)

## ESF #12

- PPD-44 – Response
- National Response Framework
- Stafford Act
- National Cyber Incident Response Plan (NCIRP)

PPD – Presidential Policy Directive



# CESER Collaboration Across the Energy Sector

State, Local, Tribal, and  
Territorial (SLTT)  
Government Coordination



**NASEO**  
National Association of  
State Energy Officials

**NGA**  
NATIONAL GOVERNORS ASSOCIATION



AMERICAN  
**PUBLIC  
POWER**  
ASSOCIATION



Electricity Subsector  
Coordinating Council

Who

Utility and trade CEOs and  
CISOs/CIOs

Purpose

Coordinate efforts to prepare  
for and respond to national-  
level disasters or threats to  
critical infrastructure.

Working  
Groups

- Vision and Planning
- Threat Information Sharing
- Industry-Government  
Coordination
- Research & Development
- Cross-Sector Liaisons



**OIL AND  
NATURAL GAS**  
SECTOR  
COORDINATING  
COUNCIL

Who

Oil & natural gas trade  
associations and their  
members

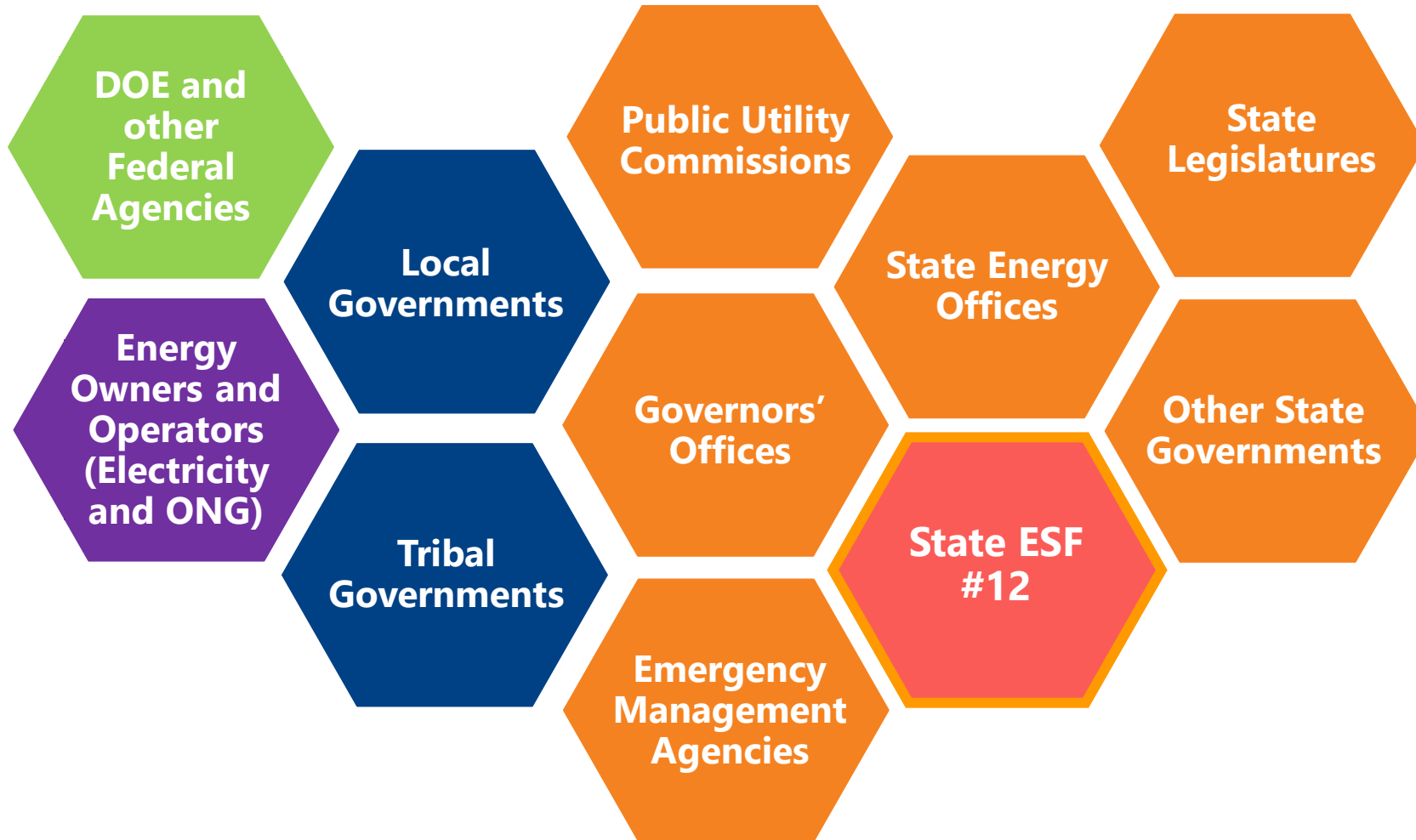
Purpose

Coordinate security strategies,  
policy, and communications  
across the sector to support  
the nation's security mission.

Working  
Groups

- Cyber
- Information Sharing
- Emergency Management
- Law Enforcement Engagement
- Pipelines

# Stakeholders in Energy Security, Preparedness and Response



State offices shown in Orange



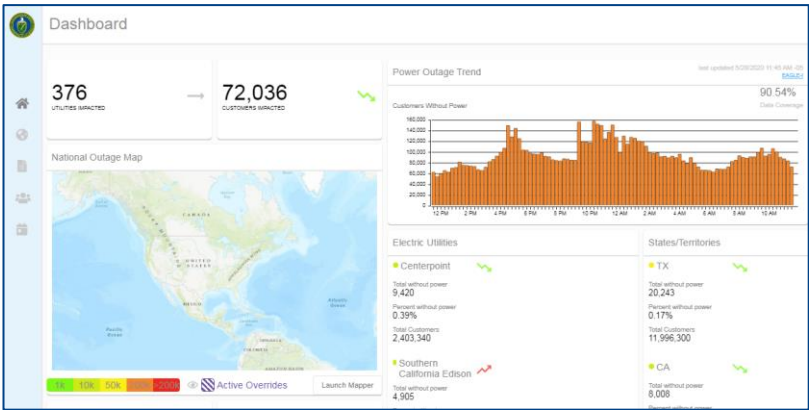
# Preparedness and Response Resources

## DOE Energy [Waiver Library](#)

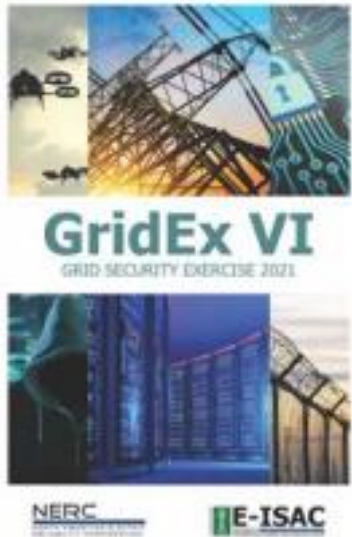


GRANTING AGENCY	WAIVER CATEGORIES			
	Generation	Fuel Use	Fuel Transportation and Distribution	Clean Up and Event Recovery
	Environmental Protection Agency	Generator-Related Emissions Regulations <ul style="list-style-type: none"><li>Reformulated Gasoline (RFG) Requirements</li><li>Gasoline Reid Vapor Pressure (RVP) Regulations</li><li>Red Dye Diesel Regulations</li></ul>	Emissions Regulations at Distribution Terminals	
	Department of Transportation		<ul style="list-style-type: none"><li>Driver, Load, and Inspection Standards</li><li>Pipeline Emergency Special Permits</li><li>Driver Hours of Service Requirements</li></ul>	Hazardous Materials Regulations for Oil and Hazardous Materials Incidents
	Department of Energy	Federal Power Act Section 202(c)		
	Internal Revenue Service	Red Dye Diesel Regulations		
	Department of Homeland Security		Jones Act for Maritime Commerce	
	Federal Energy Regulatory Commission		Emergency Prioritization of Pipeline Shipments	

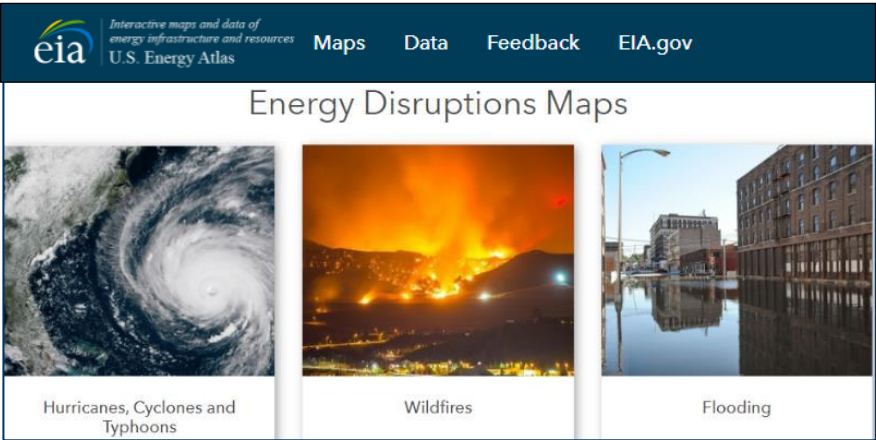
## DOE [EAGLE-I](#) Tool



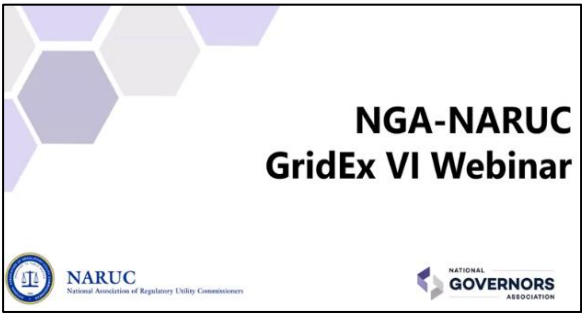
## [GridEx VI](#)



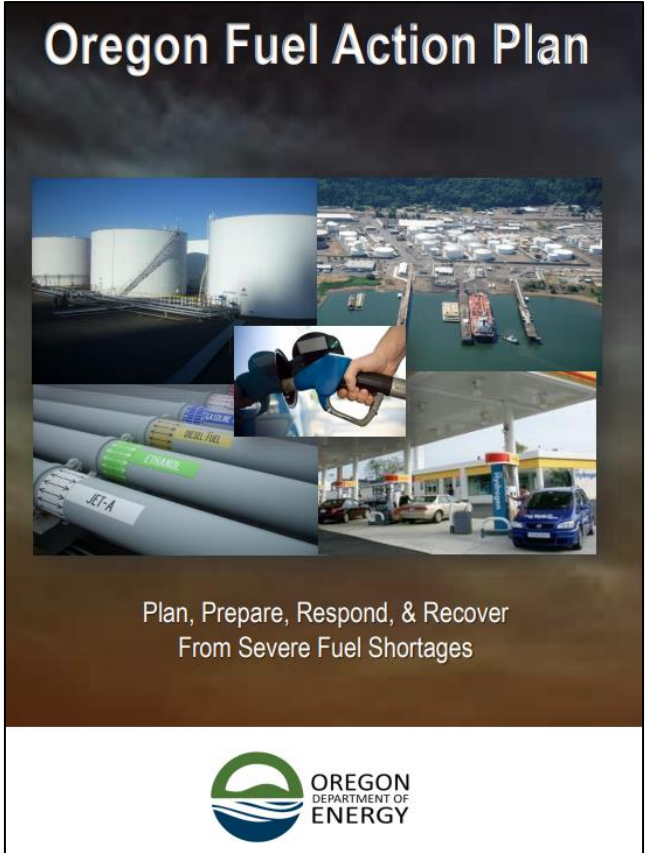
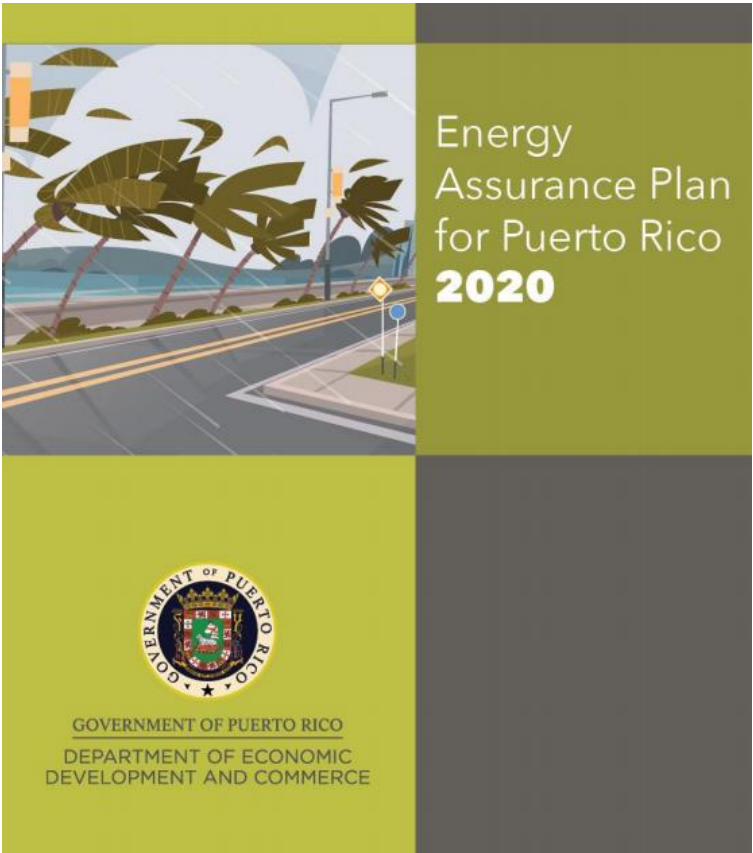
## Energy Information Administration (EIA) [Energy Atlas](#)




## NGA-NARUC GridEx VI [Webinar](#)



# Prioritizing Updates to Energy Plans





**Energy**  
**Emergency Support Function (ESF) 12**

**Coordinating:**  
Department of Commerce Energy Division, State Energy Office

**Primaries:**  
Department of Commerce Energy Division, State Energy Office

**Supporting:**  
Utilities & Transportation Commission (UTC) | Department of Enterprise Services (DES)

**Purpose**  
This document is a supporting annex of the Washington State Comprehensive Emergency Management Plan (CEMP) and operates in conjunction with all its annexes. ESF 12 provides for the effective use of available electric power, natural gas and petroleum products required to meet essential needs and to facilitate restoration of energy systems affected by an emergency or disaster by orchestrating the Energy stakeholders, activities, and services provided under the primary Core Capability of Infrastructure Systems. Additionally, ESF 12 supports the following Core Capabilities based on intersecting activities with other ESFs: Operational Coordination, Logistics & Supply Chain Management, and Situational Assessment.

Primary Response Core Capability	
Infrastructure Systems	Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community.

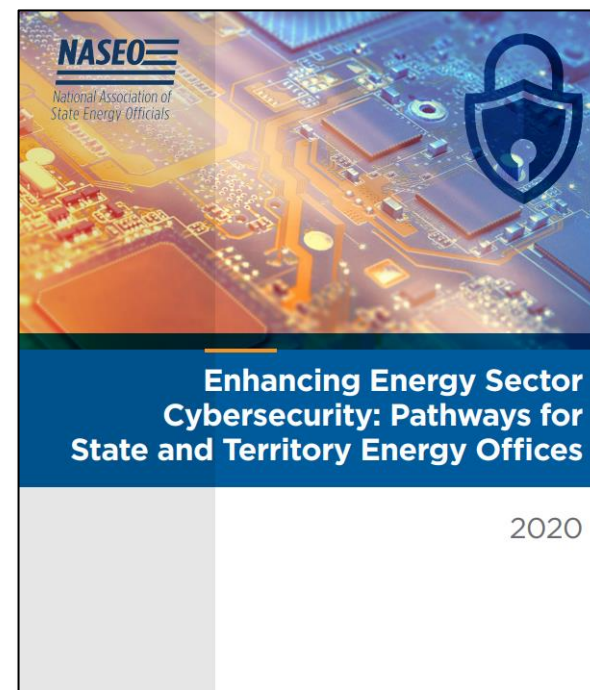
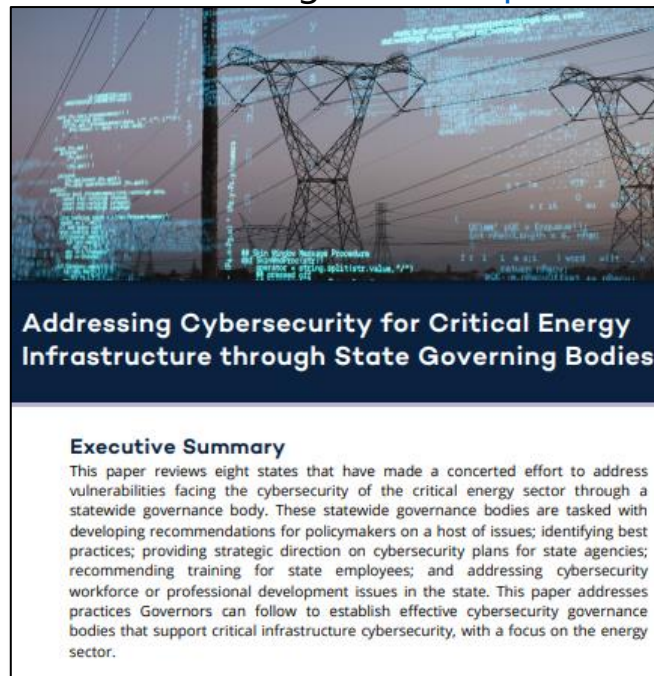
Support Response Core Capabilities	
Operational Coordination	Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of Core Capabilities.
Logistics & Supply Chain Management	Deliver essential commodities, equipment, and services in support of impacted communities and survivors, to include emergency power and fuel support, as well as the coordination of access to community staples. Synchronize logistics capabilities and enable the restoration of impacted supply chains.
Situational Assessment	Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response.



# Cybersecurity Preparedness Checklist

- ✓ Consider cybersecurity in all-hazard energy security planning
  - Clarify state agency roles and responsibilities for cybersecurity
  - Designate a cybersecurity lead
  - Train staff to be aware of cybersecurity best practices, specifically avoiding “social engineering” cyberattacks
  - Collaborate with your State: Information Security Officer, Homeland Security Advisor and Public Utility Commissioners
  - Expand state-level information sharing

## NGA Cybersecurity Governing Bodies [Report](#)



## NASEO Cybersecurity [Report](#)

# State Energy & Resilience Checklist

- ☐ Prioritize updates to energy plans and reach out to relevant agencies to ensure alignment with broader state emergency plans.
  - Understand your state's energy landscape
  - Evaluate risks and hazards to energy infrastructure
- ☐ Identify and maintain good working relationships with private & public energy sector contacts
- ☐ Convene stakeholders across state agencies to leverage FEMA [Building Resilient Infrastructure and Communities](#) (BRIC) grant program funds for energy-specific hazard mitigation projects
- ☐ Ensure your state has designated Energy Emergency Assurance Coordinators (EEAC)
- ☐ Review DOE's updated [Energy Waiver Library](#) and SLTT Program [Resource Library](#)
- ☐ Familiarize yourself with your Governor's energy emergency response [authorities](#) and crisis communications [strategy](#)
- ☐ Participate in [GridEx VI](#)
- ☐ Visit CESER [Website](#) and [Hurricane Hub](#) for DOE Situation Reports (*during an emergency*)

# CESER Contact Information



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202-586-7983



Jason Pazirandeh  
Energy Sector Specialist  
[Jason.Pazirandeh@hq.doe.gov](mailto:Jason.Pazirandeh@hq.doe.gov)

[www.energy.gov/ceser](http://www.energy.gov/ceser)

# Energy Emergency Assurance Coordinator Program

- EEAC Program is a cooperative effort between DOE CESER, NASEO, NGA, NARUC & NEMA
- State designates primary and secondary contact(s) for each sector (petroleum, electricity, natural gas) in the event of an energy emergency
- Provides credible, accurate, and timely source of information and updates on actions taken
- Goal is to improve information-sharing and communication and lower response times
- See: [Guidance on Reviewing and Updating EEAC Contacts](#)







# Bootcamp for New Energy Policy Advisors

## Federal Partner Introductions

Joyce Kim

June 22, 2021

# Department of Energy Priorities



» **Combating Climate Change**



» **Creating Clean Energy Union Jobs**



» **Promoting Energy Justice**



# The Office of Electricity

**The Office of Electricity (OE) leads the Department's efforts to strengthen, transform, and improve energy infrastructure so consumers have access to resilient, secure, and clean sources of electricity.** OE provides solutions to market, institutional, and operational failures that go beyond any one utility's ability to solve. To accomplish this critical mission, OE works with private industry and Federal, State, Tribal, territorial, and regional governments on a variety of initiatives to modernize the electric grid.



# OE Partnerships

OE works with Federal, State, and industry partners to address the climate crisis to achieve 100% carbon-free electricity by 2035.

OE has strong relationships with several regional and national organizations:

- **American Public Power Association (APPA)**
- **National Association of Regulatory Utility Commissioners (NARUC)**
- **National Association of State Energy Officials (NASEO)**
- **National Association of State Utility Consumer Advocates (NASUCA)**
- **National Conference of State Legislators (NCSL)**
- **National Governors Association (NGA)**
- **National Rural Electric Cooperative Association (NRECA)**
- **Midwestern Governors Association (MGA)**
- **Western Interstate Energy Board (WIEB)**

# OE Technical Assistance and Resources

## Technical Assistance

OE offers technical assistance to eligible stakeholders on an ad-hoc basis through the national groups or the national laboratories.

## Resources

[Regulatory and Permitting Information Desktop \(RAPID\) Toolkit](#) - Provides easy access to federal and state permitting information, best practices, and reference material for renewable energy and bulk transmission project development.

[Energy Zones Mapping Tool \(EZMT\)](#) - Free online mapping tool to identify potential energy resource areas and energy corridors in the United States.

[Interruption Cost Estimation \(ICE\) Calculator](#) - Provides information to decision makers on the economic costs of power interruptions to businesses and residences.

[Future Electric Utility Regulation Series \(FEUR\)](#) - Series of reports from Berkeley Lab, taps leading thinkers to grapple with complex regulatory issues for electricity.

[Modern Grid Distribution Project](#) - Four-volume set of reports that are intended to develop a consistent understanding of requirements to inform investments in grid modernization.

[Transmission Innovation Symposium White Papers](#) - White papers that assesses the current and future challenges facing the U.S critical infrastructure, each from the perspective of the technologies that will be required to address these challenges and to prepare the industry for the transmission system that will be required in the future.

**Joyce Kim**

Energy Resilience Division (ER)

Office of Electricity (OE)

U.S. Department of Energy

202-586-5272

[joyce.kim@hq.doe.gov](mailto:joyce.kim@hq.doe.gov)

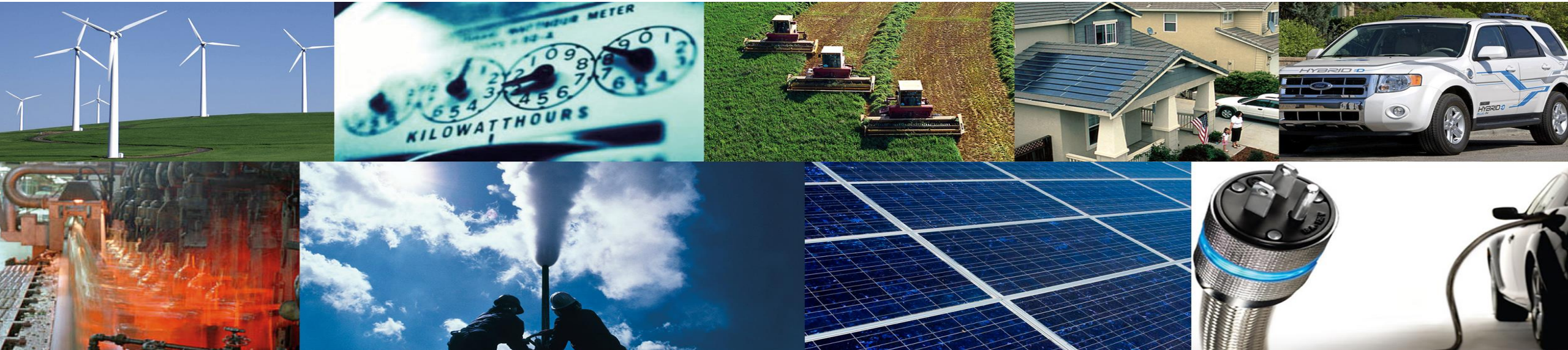


# EERE's State Energy Program and Intergovernmental Technical Assistance

Amy Kidd, Acting Program Manager

State Energy Program

June 22, 2021



# WIP Pillars

## **Weatherization Assistance Program (WAP)**

- Established under Title IV of the Energy Conservation and Production Act of 1976.
- Helps eligible low-income households reduce the comparatively large percentage of available income that they spend on energy.
- Funds distributed through formula allocation and delivered via community action networks with State and Federal oversight.

## **State Energy Program (SEP)**

- Established under the Energy Policy and Conservation Act of 1975.
- Provides support for core programs in state energy offices to advance their energy priorities and support innovative policies and programs.
- Funds allocated to State Energy Offices via formula and competitive mechanisms.

## **Intergovernmental Technical Assistance**

- WAP and SEP Teams provide technical assistance, implement programmatic initiatives, and develop and disseminate best practices with Grantees.
- The Partnership and Technical Assistance Team delivers targeted initiatives to broad networks of state-local partners and disseminates tools and resources.
- WIP conceives and leads interagency partnerships with other Federal agencies.

# EERE Program Priorities

100%  
decarbonized  
electric grid by  
2035

Decarbonize  
energy intensive  
industries

Enable a net-  
zero agricultural  
sector

Decarbonize  
transportation  
across all modes

Reduce the  
carbon footprint  
of buildings

# SEP - Distribution and Outcomes

SEP has provided approximately \$300M to 56 State Energy Offices (SEOs) since 2016 via Formula Grants and Competitive Awards.

Congressional Appropriations

DOE State Energy Program

Funding to States

Which results in:



ENERGY RESILIENCY LOW-COST FINANCING PROGRAMS  
DISTRIBUTED GENERATION COMBINED HEAT AND POWER  
COMMERCIAL IMPROVED HOME ENERGY EFFICIENCY  
AUDITS & RETROFITS STATE ENERGY PLANNING  
PERFORMANCE CONTRACTING BETTER MOTORS ENERGY  
WEATHERIZATION SMALL HYDRO ENERGY EMERGENCY  
WATER SAVINGS FINANCING PROGRAMS ENERGY RELIABILITY PLANNING  
HYDROGEN FUEL CELLS SMART GRIDS GEOTHERMAL BENCHMARKING  
INDUSTRIAL REVITALIZATION INNOVATIVE ENERGY  
LOCAL LED LIGHTING STATE TECHNOLOGY DEMONSTRATIONS  
GOVERNMENT RETROFITS FACILITY ENERGY EDUCATION  
PARTNERSHIPS SOLAR AND WIND POWER RETROFITS TELECOMMUTING



# Technology Action Groups (TAG)

## *TAG Basics*

New voluntary initiative  
piloted in PY21

Best practices and  
lessons learned model  
aimed at creating a  
collaboration to spur  
multi-state innovation in  
SEP

Model construct  
conceived by SEP and  
informed by NASEO  
Board

## *TAG Topics*

**Onsite energy  
systems at critical  
facilities**

**Main Street  
revitalization**

## *TAG Benefits*

Amplifies impact of SEP  
formula funding through  
partnerships and  
cooperation based on  
common goals

Makes progress towards:

- Individual state progress  
through collaboration and  
state investment
- New resources designed  
specifically for States that can  
help catalyze further action
- Toolkits, case studies, etc.  
that can be used by all states,  
not just states in TAG

# Workforce Development



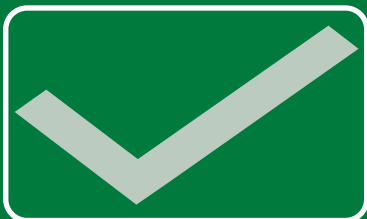
## Goals

- Determine what workforce development activities SEOs are undertaking;
- Create avenues for states to learn from each other; and
- Develop an initiative for states to work together to tackle specific workforce development barriers.



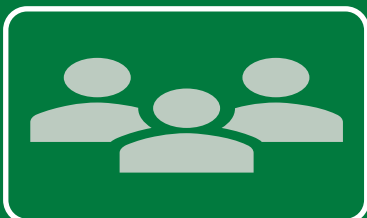
## Expected Outcomes

- Report(s) detailing state efforts in workforce development – best practices, gaps
- Report(s) on energy jobs baselines and forecasting by state.
- Initiative for states to tackle 1-2 specific workforce development barriers



## Work to date

- Research on state workforce development activities – best practices, gaps; transferrable programs; current energy job landscape
- Webinar for states on job projection research (November 2020)



## Next Steps

- Continue research, develop reports
- Webinars to share research results, facilitate peer exchange



# Partnerships and Technical Assistance (P&TA) Team



Working in partnership with states, local governments, K-12 school districts, and stakeholders to:



Convene **PEER EXCHANGES** to showcase replicable models



Create **TOOLS AND SOLUTIONS** that address pervasive barriers



Provide **TECHNICAL DATA AND INFORMATION** from leading experts



**Goal:**  
**Maximize energy and cost savings**

# Public-Sector Partnerships

**230+ Partnerships\***

**60+**



**State Governments**

Financing Investments

*ESPC Accelerator*  
**\$2.1 Billion**

*C-PACE Working Group*  
**\$70 Million**

**140+**



**Local Governments**

Buildings Savings

*Better Buildings Challenge*

**\$1 Billion**

**109 Trillion Btus**

**1.5 Billion**  
Gallons of Water

**25+**



**K-12 School Districts**

Infrastructure Savings

*Sustainable Wastewater  
Infrastructure of the Future  
(SWIFt) Accelerator*

**131 Million kWh**

*Outdoor Lighting Accelerator*  
**\$48 Million**  
per year

*Cumulative unless noted otherwise.*

*\* Public-sector partners since 2011 that signed a formal partnership agreement and worked or are working toward a voluntary goal.*

# Initiatives



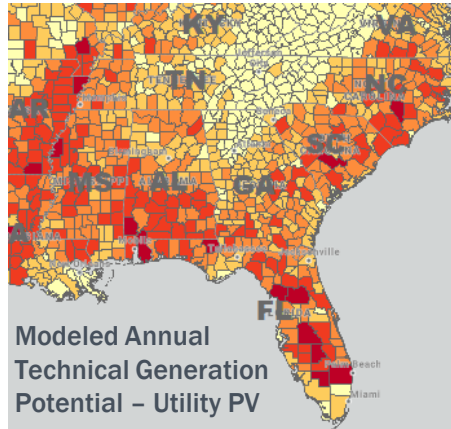
## Sustainable Wastewater of the Future (SWIFt) Initiative

- **SWIFt Phase 2 – voluntary partnership goals**
  - Engage 200 water resource recovery facilities to achieve 5% short-term and 25% long-term facility wide energy savings.
  - Work with 25 water resource recovery facilities to implement at least one next-generation technology (e.g., renewable energy, resource recovery, advanced data management).
- **Wastewater Energy Management Toolkit**
  - **SWIFt Phase 1 tools and resources** more than 70 WRRFs used 2016-2019 to cumulatively achieve almost 7% (131 million kWh) in energy savings and put in place plans for 30% long-term energy savings.

## Sustainable Corrections Infrastructure Partnership (SCIP) Accelerator

- Voluntary partnership of public departments of corrections working with DOE over three years to achieve portfolio-wide energy savings of 20% and create replicable solutions to catalyze energy resilience in the corrections sector.
- Partners represent more than 20% of state correctional facilities.

# Technical Assistance



## ESPC Market Opportunity<sup>1</sup>

### PROJECT INVESTMENT OPPORTUNITY<sup>12</sup>

MUSH MARKET  
**\$66–208 BILLION**

FEDERAL MARKET  
**\$3–15 BILLION**

### ENERGY SAVINGS POTENTIAL<sup>13</sup>

MUSH MARKET  
**200–262 TRILLION BTU**

FEDERAL MARKET  
**27–68 TRILLION BTU**

## How DERs Can Improve Resilience in Public Buildings

- “How to” guide that describes the benefits of integrating energy efficiency with other distributed energy resources to assess resilience benefits through the specific application of two DOE tools (REopt Lite and DER-CAM), including resilient energy system cost reductions of over \$400,000 at a single critical facility through energy efficiency.

## ESPC MUSH Market Working Group

- A collaboration to support improved and expanded ESPC best practices for the MUSH market and state ESPC programs.
  - **ESPC Toolkit:** tools/resources that 25 state and local government partners used 2016-2019 to invest \$2.1 billion in energy efficiency.
  - **NASEO-DOE Return to Work Initiative:** ESPC trainings for 500 state and local staff by June 2021.

## State and Local Planning for Energy (SLOPE) Platform

- A WIP-led collaboration across 9 EERE offices and NREL to integrate and deliver jurisdictionally resolved data and analyses in an easy-to-access online platform that enables data-driven state and local energy planning and decision-making with over 8,400 visits in FY20.

<sup>1</sup> DOE. *Energy Savings Performance Contracting: Improving Infrastructure & Turning Waste into Wins* (2017).

# Stay Connected

## State and Local Spotlight

- Monthly newsletter with more than 33,000 subscribers.

## State and Local Inbox

- 70 email inquiries answered in 2020.

## State and Local Solution Center

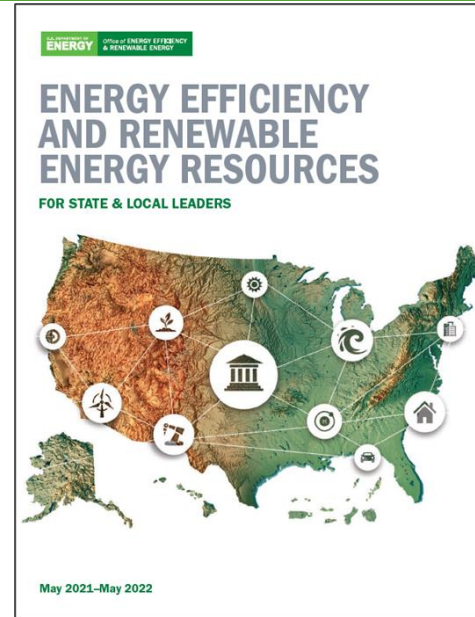
- Online, public-sector focused portal with over 110,000 visits and 15,000 downloads in FY20.

## Better Buildings Solution Center

- Online, building-specific portal with over 3,000 proven energy, water, and waste efficiency solutions.

**Subscribe:**  
<http://energy.gov/eere/slsc>

**Contact Us:**  
[stateandlocal@ee.doe.gov](mailto:stateandlocal@ee.doe.gov)



[https://www.energy.gov/sites/default/files/2021-05/WIP-state-local-resource-guide\\_2021.pdf](https://www.energy.gov/sites/default/files/2021-05/WIP-state-local-resource-guide_2021.pdf)



# State Discussion & Wrap-Up

- What information was the most helpful?
- What questions do you still have about the role?
- How best can NGA support your work?



# End of Bootcamp

3:45 PM



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**Thank You!**