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.
Governor Cuomo is the NGA Chair.
Governor Hutchinson is the NGA Vice-Chair.
Both are on the Center Board.
Governor Cuomo is the NGA Chair. Governor Hutchinson is the NGA Vice-Chair. Both are on the Center Board.
Provide governors state-based energy solutions that enhance outcomes for: economic and workforce development, sustainability, equity, reliability, resilience, health, and safety.
Program Directors

Dan Lauf

Jessica Rackley

Policy Analysts

Matthew Rogotzke

VACANT

Timothy Schoonhoven

Program Support

Cara Dougherty

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

2:30-2:45 PM
Federal Partner Introductions


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


**Jon Carmack**, Senior Technical Advisor, Office of Nuclear Energy, U.S. DOE
Governors’ New Energy Policy Advisors Bootcamp

Brandi Martin

Cybersecurity, Energy Security and Emergency Response (CESER)

June 22, 2021
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.
CESER Preparedness and Emergency Response

**Preparedness**
- Energy Sector Exercises
- SLTT Energy Assurance
- Risk & Hazards Analysis
- International & Defense
- Cyber Preparedness

**Response & Recovery**
- Situation Analysis
- Emergency Response
- Cyber Incident Coordination

**Natural Hazards**
- Cyber Attack
- Physical Attack
- Geomagnetic Disturbance (GMD)
- Electromagnetic Pulse (EMP)

**Situational Awareness** / Continual Monitoring

**Coordination with Federal Interagency, Regional, State and Industry Partners**

**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
<table>
<thead>
<tr>
<th><strong>State, Local, Tribal, and Territorial (SLTT) Government Coordination</strong></th>
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<tr>
<td><strong>Who</strong></td>
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<tr>
<td><strong>Purpose</strong></td>
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| **Working Groups** | - Vision and Planning  
- Threat Information Sharing  
- Industry-Government Coordination  
- Research & Development  
- Cross-Sector Liaisons |

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<th><strong>CESER Collaboration Across the Energy Sector</strong></th>
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</table>
| **Working Groups** | - Cyber  
- Information Sharing  
- Emergency Management  
- Law Enforcement Engagement  
- Pipelines |
Stakeholders in Energy Security, Preparedness and Response

- DOE and other Federal Agencies
- Energy Owners and Operators (Electricity and ONG)
- Local Governments
- Tribal Governments
- Public Utility Commissions
- Governors’ Offices
- Emergency Management Agencies
- State Energy Offices
- State Legislatures
- Other State Governments
- State ESF #12

State offices shown in Orange
Preparedness and Response Resources

DOE Energy Waiver Library

<table>
<thead>
<tr>
<th>WAIVER CATEGORIES</th>
<th>DOE Energy Waiver Library</th>
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<tr>
<td><strong>Environmental Protection Agency</strong></td>
<td><strong>Department of Transportation</strong></td>
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<td>Generator-Related Emissions Regulations</td>
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<tr>
<td>Reformulated Gasoline (RFG) Requirements</td>
<td>Gasoline Reid Vapor Pressure (RVP) Regulations</td>
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<tr>
<td>Driver, Load, and Inspection Standards</td>
<td>Driver Hours of Service Requirements</td>
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<tr>
<td>Hazardous Materials Regulations for Oil and Hazardous Materials Incidents</td>
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<tr>
<td>Red Dye Diesel Regulations</td>
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DOE EAGLE-I Tool

Energy Information Administration (EIA) Energy Atlas

NGA-NARUC GridEx VI Webinar

GridEx VI

Energy Disruptions Maps

- Hurricanes, Cyclones and Typhoons
- Wildfires
- Flooding
Prioritizing Updates to Energy Plans
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
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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Jason.Pazirandeh@hq.doe.gov

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

140+
Local Governments

25+
K-12 School Districts

Financing Investments

- ESPC Accelerator
  - $2.1 Billion

- C-PACE Working Group
  - $70 Million

Buildings Savings

- Better Buildings Challenge
  - $1 Billion

- 109 Trillion Btus

- 1.5 Billion Gallons of Water

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

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.

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

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
Thank You!