



NARUC
National Association of Regulatory
Utility Commissioners



NARUC-NASEO Task Force on Comprehensive Electricity Planning

NASEO 2019 Energy Policy Outlook Conference

February 6, 2019

Danielle Sass Byrnett

National Association of Regulatory Utility Commissioners (NARUC)

Technology Investment Options Abound

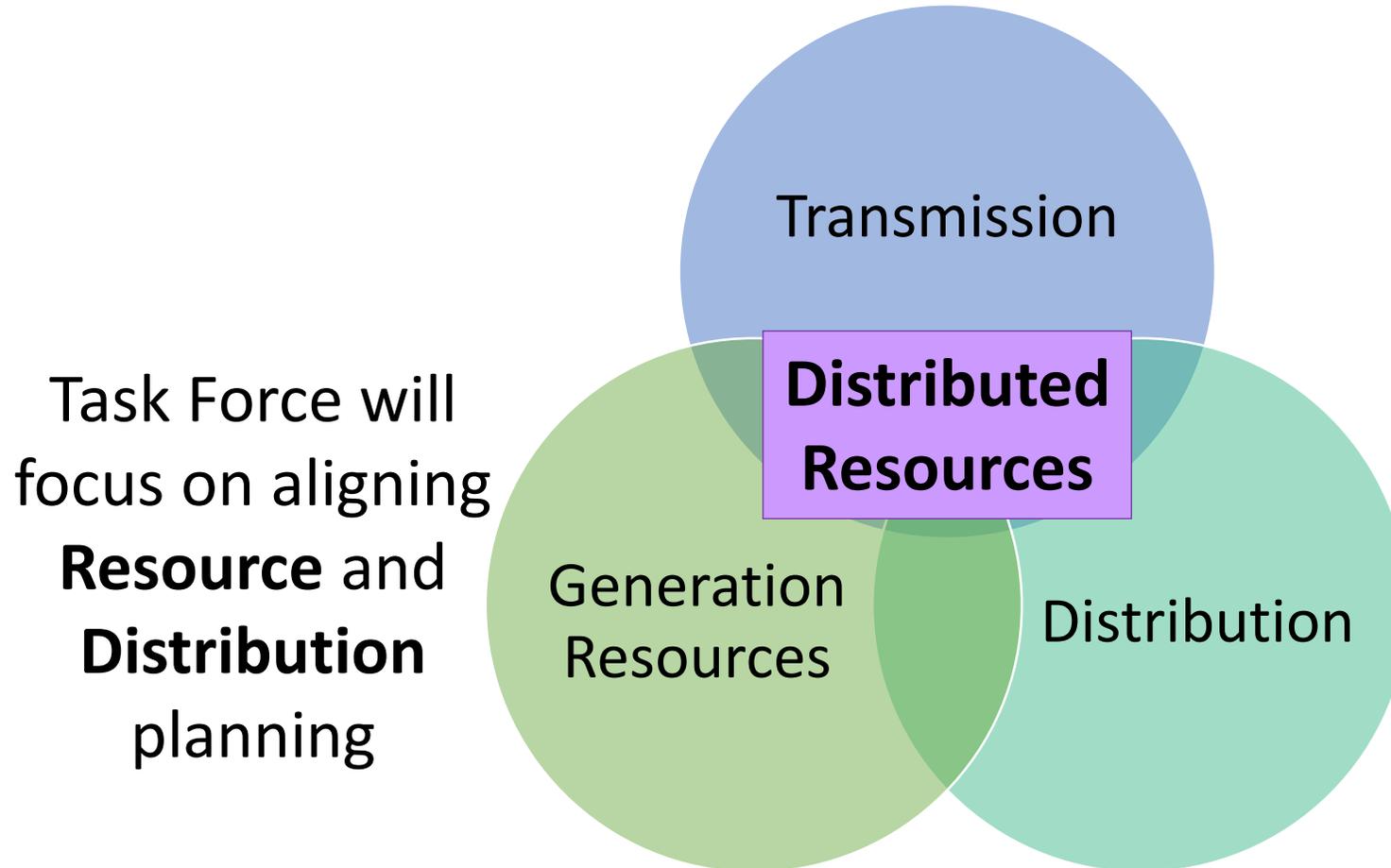


Distributed Energy Resources (DERs) Continue to Proliferate

Distribution-connected resources such as energy efficiency (e.g., controllable & efficient water heaters, HVAC), demand response, customer generation (e.g., rooftop solar, CHP), energy storage, electric vehicles, and water-energy conservation measures are being installed, ***but are these the right investments to meet long-term needs?***



Electricity Planning and Investment Decisions are Inter-Related



With greater alignment of electricity planning processes, states & utilities could:

- Improve reliability and resilience
- Optimize use of distributed and existing resources
- Avoid unnecessary costs
- Support state priorities
- Increase transparency of investment decisions

NARUC-NASEO Task Force

Purpose: Develop new pathways for aligned electricity planning

- **4 workshops over 2 years (start spring 2019)**
 - Two member-only workshops
 - Two member-stakeholder workshops
- **~15 states**
 - Commission and state energy office from each state working together
 - Participants TBA February 7, 2019

Targeted Outcomes

1. Innovation: Pioneer new tools and roadmaps for aligning planning to meet state needs

- Participants will convene in multi-state cohorts with others operating in similar market, regulatory, and policy environments

2. Action: Apply insights to directly benefit state action

- Each state will develop concrete steps / an action plan at the end of the initiative

3. Replication: NARUC and NASEO will publish templates to support all members

Participants will be supported by each other, technical experts, and facilitators



NARUC
National Association of Regulatory
Utility Commissioners



Task Force Co-Chairs



Hon. Jeff Ackermann
Chairman
Colorado Utilities
Commission



Dr. Laura Nelson
Executive Director
Utah Office of
Energy
Development

Task Force Co-Vice-Chairs



Hon. Beth Trombold
Commissioner
Public Utilities
Commission of Ohio

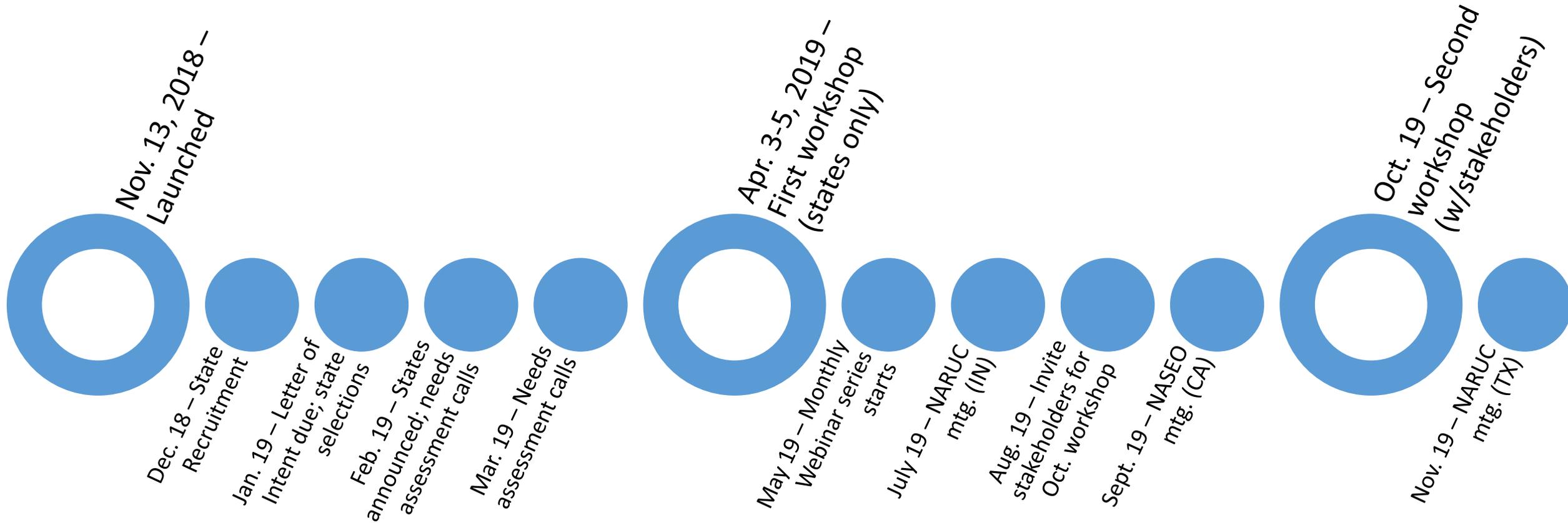


Dr. Andrew McAllister
Commissioner
California Energy
Commission

Task Force Participation

Core Participants (≤36)	State public utility commissioners and state energy office leaders <ul style="list-style-type: none">• 2 to 3 people representing each of ~15 states willing to commit to action steps• Each state will determine their individual representatives
Motivation to Participate	<ul style="list-style-type: none">• Support state priorities while learning from peers and experts• Find space to innovate on a vision and path for future electricity planning processes• Engage in a creative, collaborative process with stakeholder representatives outside of proceedings• Forge new partnerships within and across states in similar situations
Potential Participants	States with active or anticipated: <ul style="list-style-type: none">• Grid modernization proceedings• Distribution system planning proceedings or explorations• PUC / SEO coordination needs Seeking overall diversity in: <ul style="list-style-type: none">• Geography• Market/regulatory framework• Stage of proceedings / in state actions• Commission / state energy office roles

Draft Monthly Timeline for Year 1



Stakeholders & Others

Advisory Group:

- Provide input to Core Team re: process steps, workshop agendas, webinars
- Review product development plans and deliverables
- Ex.: Former commission staff, former utility / government executives, expert consultants, economists, engineers

Subject Matter Experts:

- Present at workshops (limited) and on webinars re: specific topics
- Share relevant resources and publications that answer participant questions
- Ex: DOE national labs (LBNL, NREL, PNNL, ORNL), NGOs (RMI, SEPA, NRRI, etc.), consultants (Synapse, Brattle)

Key Stakeholders:

- Will be invited to 2nd & 4th workshops to share representative perspectives
- Ex.: EEI members, PJM/MISO/etc, NASUCA members, technology providers, AEE/SEPA members, NAESCO members, governors' energy advisors, Legislative Energy Horizons Institute members

Other Interested Parties

- Added to distribution list for email updates

For States Who Do Not Join

NARUC and NASEO will share ongoing efforts with members through:

- Sessions at NARUC and NASEO meetings
- Materials developed for the Task Force and released
- Webinars for Task Force participants

Members may also consider participating in a complementary, less intensive initiative:

NASEO-NARUC Grid-Interactive Efficient Buildings (GEB) Working Group

Questions

Danielle Sass Byrnett, NARUC: dbyrnett@naruc.org, 202-898-2217

Rodney Sobin, NASEO: rsobin@naseo.org, 703-299-8800 x112

Research Planned to Support 2019 Workshops (DOE OE Team)

November 2018 – March 2019

- Summarize market models / key characteristics for participating states
 - Ensures diversity in selected states
 - Enables draft composition of multi-state cohort teams
 - Enables useful introductions and level setting
- Identify status quo planning approaches for participating states (roles, responsibilities, timing, deliverables)
 - Foundational info re: IRP details, grid mod, DSP, other state energy planning
- Document building blocks of planning from a utility perspective
 - Enable validation of participant efforts at workshop (won't share in advance)

November 2018 – September 2019

- Survey emerging utility approaches to advanced, integrated planning (model, tools, timeframes)

April 2019 – August 2019

- Design deep-dive webinar series on building blocks of planning to take place between in-person workshops

Task Force Support

Core Team:

- Danielle Sass Byrnett, NARUC
- Rodney Sobin, Stephen Goss, Shemika Spencer, NASEO
- Johanna Zetterberg, Virginia Castro, U.S. DOE/EERE
- Joe Paladino, U.S. DOE/OE
- Paul DiMartini, Newport Consulting
- Samir Succar, ICF
- Lorenzo Kristov
- Carl Linvill, John Shenot, Jessica Shipley, RAP

Funding and Technical Support provided by:

- U.S. Department of Energy (DOE) Office of Electricity (OE)
- DOE Office of Energy Efficiency and Renewable Energy (EERE)

Travel stipends available for up to 3 participants per state

Task Force Process



<p>Problem Limited state PUC or SEO experience aligning resource and distribution system planning in public domain</p>	<p>step</p>	<p>Pre</p>	<p>Wkshp 1</p>	<p>Wkshp 2</p>	<p>Wkshp 3</p>	<p>Wkshp 4</p>	<p>Post</p>	<p>Key</p> <ul style="list-style-type: none"> In-person meeting, only state members In-person meeting, states & stakeholders Interim virtual mtgs / webinars
<p>Stakeholders</p> <ul style="list-style-type: none"> • IOUs • Consumer advocates • NGOs • Large energy consumers • DER / technology providers • Energy service companies • ISOs/RTOs • State legislators • Governors offices 	<p>phase</p>	<p>Preparation</p> <p>Status quo, vision, problem scoping</p> <p>Consideration of alternatives</p> <p>Solution generation</p> <p>Solution refinement & action planning</p> <p>Solution implementation</p>						<p>End Products</p> <ul style="list-style-type: none"> • State- & stakeholder-developed tools, roadmaps, and approaches for aligned resource and distribution system planning processes for different types of regulatory / market / policy environments • State action plans
	<p>participants</p>	<p>We are here</p>						
	<p>activities</p>	<ul style="list-style-type: none"> • Catalog current resource and distribution system planning practices, requirements, and constraints • Conduct needs assessments with participating states 	<ul style="list-style-type: none"> • Sketch status quo planning practices • Articulate vision for optimized alignment • ID current practices that do / do not support optimized alignment 	<ul style="list-style-type: none"> • ID changes needed to current practices • Consider systemic impacts of changes • ID barriers and opportunities to change current practices 	<ul style="list-style-type: none"> • Draft improved planning alignment diagrams • Pressure test solutions • Articulate benefits of improvements 	<ul style="list-style-type: none"> • Pressure test & refine solutions • ID steps needed to achieve improved planning alignment • Develop action plans 	<ul style="list-style-type: none"> • Share action plan progress updates among participating states • Publish developed approaches for non-participating states to leverage 	
		<p>Vision Aligned resource and distribution planning can better optimize [utility, vendor, customer] investments to produce a safe, reliable, and affordable power system while supporting state policy goals</p>						