



NARUC

National Association of Regulatory Utility Commissioners

Midwest Energy Efficiency Alliance Midwest Energy Solutions Conference

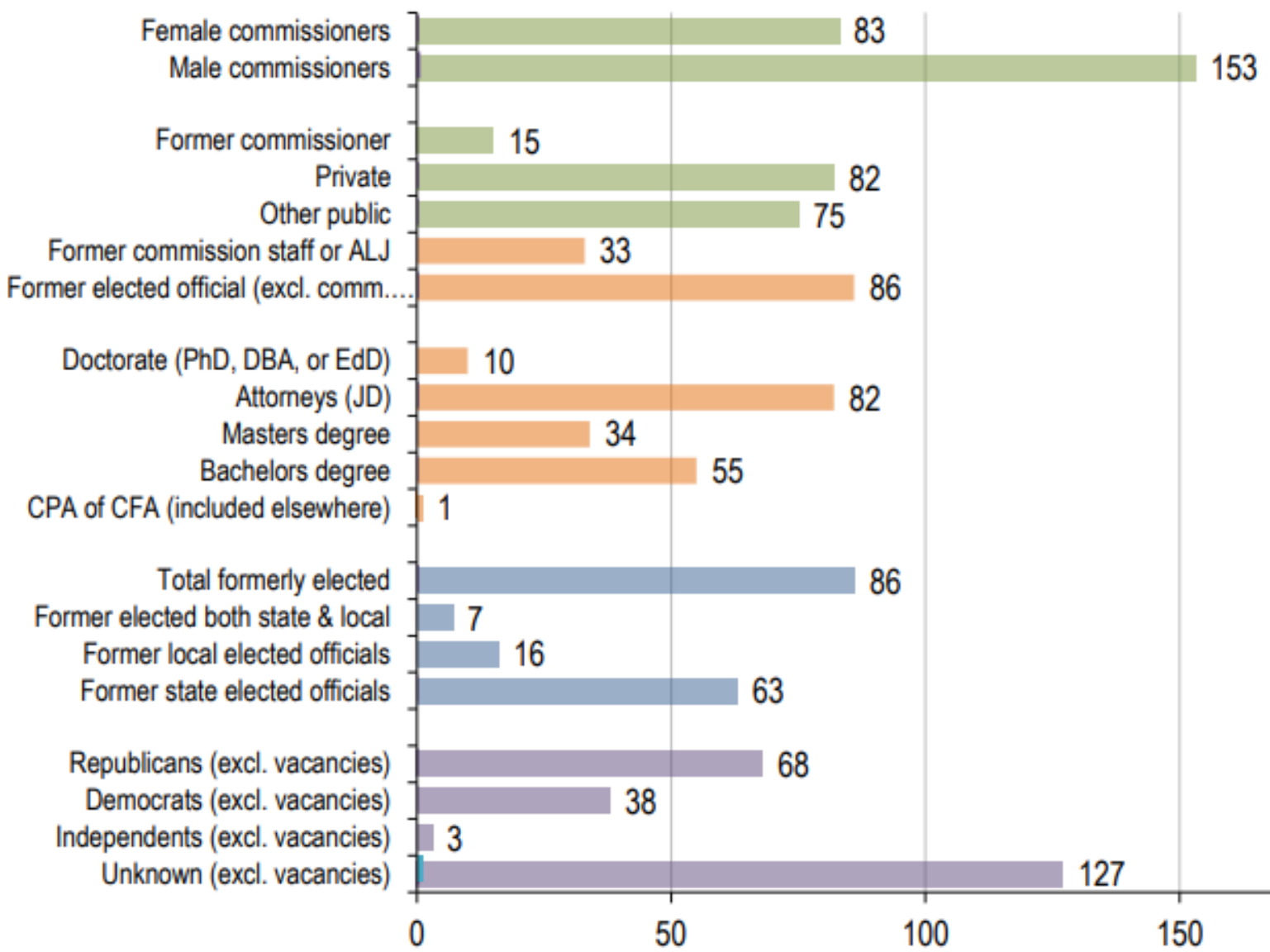
February 2, 2022

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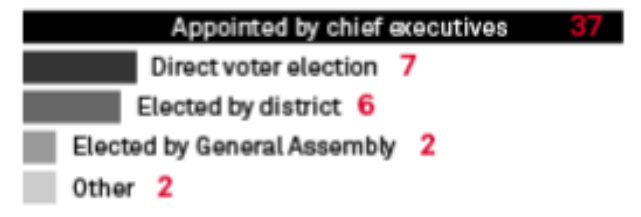
What is NARUC?

- Non-profit membership association for state public utility commissions (PUCs) in 50 states, DC, VI, PR
- Started in 1889
- Mission: “to serve in the public interest by improving the quality and effectiveness of public utility regulation”
- Representing membership of approximately 250 elected & appointed state commissioners; hundreds of commission staff; and federal regulators & staff in energy / electricity, telecommunications, water, and transportation regulation

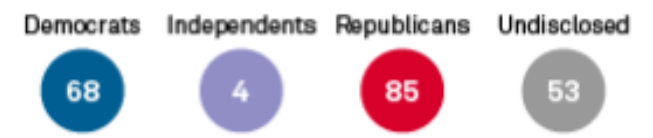
About the Commisisoners (as of February 2020)
 Data for 236 commissioners serving 60 commissions (6 vacancies);
 FERC, FCC, and 50 states with MA-2, NE-2, TX-2, DC, GU, PR-2, VI



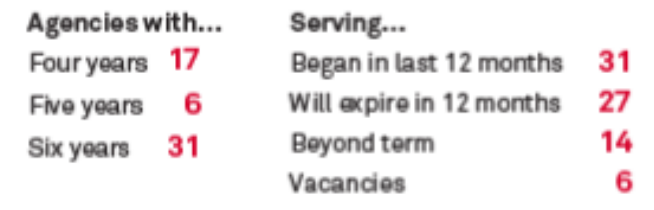
Commissioner selection



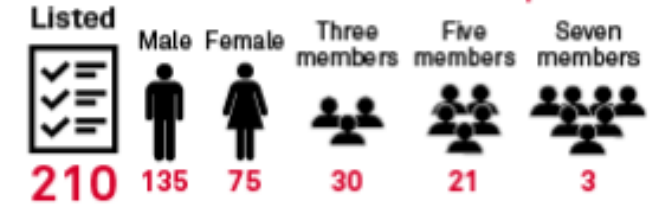
Political party affiliation



Commissioner terms



Commissioner membership



Examples of State Regulator Roles in Order 2222 Implementation

- Application process/technical review
- Interconnection standards and metering requirements
- Investment considerations and rate impact
 - General upgrades v. individual DER/DERA
 - Scaling/timing consideration
 - Crawl/walk/run
- Transparency and fairness of interconnection costs and service denials/curtailments
- Data sharing and privacy
- Dispute resolution

Grid-Interactive Efficient Buildings

Advances in highly efficient building system technologies, energy storage, onsite power generation, and internet-connected and artificial intelligence-enabled building and grid control technologies are leading to great opportunities for Grid-Interactive Efficient Buildings (GEB). Sophisticated energy system controls and smart consumer technologies allow for two-way power flows and flexible management of both electricity demand and supply to improve the performance and service offerings of buildings and the electric power system. NARUC has partnered with the U.S. Department of Energy and National Association of State Energy Officials (NASEO) to educate state regulators and energy officials about GEB opportunities and support grid access to GEB benefits.

[U.S. DOE Request for Information on Potential Funding for Grid-Interactive Efficient Buildings in Connected Communities](#), April 2020

[Determining Utility System Value of Demand Flexibility From Grid-interactive Efficient Buildings](#), April 2020

[Considerations for Grid-interactive Efficient Buildings \(GEB\) Pilot Projects](#), Dec 2019

[Roadmapping: A Tool for States to Advance Load Flexibility and Grid-interactive Efficient Buildings](#), Nov 2019

[Grid-Interactive Efficient Buildings: State Briefing Paper](#), Oct 2019

[Learn More](#)

Recent CPI Publications

NARUC CPI work spans four key topical areas	
<p style="text-align: center;">Energy Infrastructure & Technology Modernization</p> <p style="text-align: center;"><i>Advancing understanding of innovative technology possibilities</i></p> <ul style="list-style-type: none"> • <u>The Role of State Utility Regulators in a Just and Reasonable Energy Transition: Examining Regulatory Approaches to the Economic Impacts of Coal Retirements</u> (Oct. 2021) • <u>Regulators’ Energy Transition Primer: Economic Impacts on Coal-Producing Communities, Environmental Justice Considerations</u> (Oct. 2021) • <u>Coal and Carbon Management Guidebook: Coal-to-Hydrogen Opportunities and Challenges</u> (Oct. 2021) 	<p style="text-align: center;">Electricity System Transition</p> <p style="text-align: center;"><i>Addressing evolving grid planning challenges and opportunities</i></p> <ul style="list-style-type: none"> • <u>A Decision-Making Framework for Public Utility Commission Stakeholder Engagement Approaches</u> (Jan. 2021) • <u>NCEP Mini Guide – Public Utilities Commissions and Consumer Advocates: Protecting the Public Interest</u>, December 2021 • <u>State Approaches to Intervenor Compensation</u> (Jan. 2022)
<p style="text-align: center;">Critical Infrastructure, Cybersecurity, Resilience</p> <p style="text-align: center;"><i>Ensuring the energy system is safe, secure, and resilient</i></p> <ul style="list-style-type: none"> • <u>Regulatory Considerations for Utility Investments in Defense Energy Resilience</u> (Oct. 2021) • <u>Federal Funding Opportunities for Pre- and Post-Disaster Resilience Guidebook</u> (Oct. 2021) 	<p style="text-align: center;">Emerging Issues</p> <p style="text-align: center;"><i>Enabling commissions to explore new topics as they arise</i></p> <ul style="list-style-type: none"> • <u>Lessons Learned from the Ongoing Response to the COVID-19 Crisis</u> (Oct. 2021)

Recent Webinar recordings

<p>CPI Innovation Webinar Series (monthly, Thursdays 3-4pm ET) www.naruc.org/cpi-1/emerging-issues/innovation-webinars/</p>	<ul style="list-style-type: none">• Smart Vegetation Management: New Approaches to an Age-Old Problem, December 16, 2021• A New Approach to Understanding the Economic Impacts of Electric Outages, October 14, 2021• Enabling Robust Stakeholder Engagement at Public Utility Commissions, September 24, 2021
<p>Electric Vehicles State Working Group www.naruc.org/cpi-1/energy-infrastructure-modernization/electric-vehicles/</p>	<ul style="list-style-type: none">• Interoperability of EV Charging Infrastructure, November 30, 2021• PUC-Local Government Coordination for Transportation Electrification, August 31, 2021
<p>NARUC-NASEO Microgrids State Working Group www.naruc.org/cpi-1/critical-infrastructure-cybersecurity-and-resilience/microgrids/</p>	<ul style="list-style-type: none">• Microgrid Tariff Development in Hawaii and California, September 8, 2021• Microgrids for Low- to Moderate-Income Communities, June 24, 2021
<p>NARUC-DOE Nuclear Energy Partnership www.naruc.org/cpi-1/energy-infrastructure-modernization/nuclear-energy/</p>	<ul style="list-style-type: none">• Understanding and Solving HALEU Fuel Supply Chain Challenges, January 7, 2022• Compensating Nuclear Power, October 8, 2021

New Projects / Forthcoming Resources

CPI Innovation Webinar Series www.naruc.org/cpi-1/emerging-issues/innovation-webinars/	<ul style="list-style-type: none">• Considering Non-Energy Benefits in PUC Decision Making: What Counts?, January 20, 2022• Black Start Considerations in a Highly Renewable Supply Future, February 24, 2022
Cybersecurity publications www.naruc.org/cpi-1/critical-infrastructure-cybersecurity-and-resilience/cybersecurity/	<ul style="list-style-type: none">• Energy Sector Cybersecurity Partnerships and Information Sharing (NARUC, NASEO, NGA)• Cybersecurity Risk Management: Understanding the Role of Cyber Insurance
Microgrids	<ul style="list-style-type: none">• Valuing Resilience for Microgrids: Challenges, Innovative Approaches, and State Needs• Renewable Energy Microgrids
NARUC-DOE Natural Gas Partnership https://www.naruc.org/cpi-1/energy-infrastructure-modernization/natural-gas-infrastructure-modernization/	<ul style="list-style-type: none">• Regulatory Pathways for Low-Carbon Fuels
NARUC-DOE Nuclear Energy Partnership www.naruc.org/cpi-1/energy-infrastructure-modernization/nuclear-energy/	<ul style="list-style-type: none">• Nuclear as a Keystone Clean Energy Resource
Resilience	<ul style="list-style-type: none">• Systems-level Electricity Infrastructure: Codes and Standards for Accessing Pre- and Post-Disaster Federal Funding Programs
Transmission	<ul style="list-style-type: none">• NCEP Mini Guide: Engagement between States and Regional Transmission Organizations• NCEP Mini Guide: Transmission Siting Coordination within States