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State Energy Offices: Opportunities to Advance Systems Efficiency





National Association of State Energy Officials



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Formed by the states 1986



- Membership includes the 56 Governor-designated State Energy Directors and Offices from each state and territory, as well as private sector affiliates
- Advocates on behalf of the State Energy Offices with Congress, the Administration, federal agencies, and private-sector organizations
- Serves as a resource for and about innovative state energy policies in order to support State Energy Offices in advising and informing their governors and legislatures
- Facilitates peer-to-peer policy learning and adoption across states, with a particular focus on clean energy and economic development
- Works through NASEO's committee and regional structures to facilitate peer learning across states and to enable engagement of the states with private sector advocates, experts, and investors
- Committees and Programs: Government Affairs; Buildings; Transportation; Fuels and Grid; Energy Security and Resilience; Financing; State Energy Policy Planning; Energy-Environment

+ About the 56 State and Territory Energy Offices

- Advise governors and legislatures and lead statewide energy policy planning on behalf of the governors in most states
- Inform state electricity and environmental regulators and intervene in regulatory electricity proceedings on behalf of governors
- Advance practical energy efficiency and renewable energy policies and support energy technology research, demonstration, and deployment to transform markets
- Oversee billions of dollars in state-based clean energy funding and catalyze billions more in private sector clean energy investment
- Partner with the private sector to accelerate clean energy-related economic development and enhance environmental quality

NASEO's Affiliates

A robust and engaged network of +70 private-sector partners, including representatives from business, trade associations, nonprofit organizations, educational institutions, laboratories, and government.



Systems Approach Benefits to States

- Cost savings and improved performance in state/public buildings
 - Energy and water savings
 - O&M benefits
 - Occupant satisfaction
- Energy reliability, resilience, and security
 - Facility/building resilience



Richardsville ES (Warren Co., KY) -- net-zero

- Electric and natural gas system reliability—reduce grid and supplyside stresses; distributed resources as asset
- Environmental benefits—avoided emissions; water, resource efficiency
- Economic development and productivity
 - Improve building stock, more productive facilities
 - Business and workforce development

+ Opportunities to Support Systems Approach

Needs and opportunities for:

- Raising awareness of and educating about System Efficiency approaches
 - What it is and its benefits
 - Outreach, convenings
 - Training and technical assistance
 - Technical aspects and administrative/business/procurement aspects
- System Efficiency in policy and planning
 - State properties
 - Other public sector
 - Broader economy
 - Utility commission



District Energy St. Paul (MN)

Opportunities to Support Systems Approach

- Raising awareness of Systems Efficiency approaches
 - Inform State Energy Offices
 - NASEO Buildings Committee
 - NASEO meetings/events
 - Other multi/cross-state outreach
 - Work with SEOs to inform state and public agencies
 - Governors and legislators
 - Financial agencies
 - General services, housing authorities, colleges/universities, education departments, corrections, etc.
 - Localities, K-12 schools, etc.
 - Utility commissions
 - State Energy Plans
 - Opportunity to highlight



NREL Research Support Facility

Opportunities to Support Systems Approach

- Educating about Systems Efficiency approaches
 - Training, tools, and technical assistance
 - State agencies and authorities
 - Localities and K-12 school divisions
 - Developers of state bonded or licensed facilities
 - Energy service companies (ESCOs), contractors, trades
 - Technical (design, engineering, construction, installation, O&M) aspects and administrative, business, procurement aspects
 - What training and tools are available?
 - What training and tools will be developed? Who will develop?
 - Who will provide training and tools? Who will pay?



Greywater recycling system, Kiowa Co. Memorial Hospital, Greensburg, KS [NREL image]

Opportunities to Support Systems Approach

- System Efficiency in policy and planning
 - State properties lead-by-example and procurement (and perhaps other public sector, state bonded, and state licensed buildings)
 - Building performance standards and targets
 - E.g., Minnesota Sustainable Buildings 2030
 - Benchmarking and disclosure can that impel systems approach?
 - Procurement vehicles:
 - Integrated project delivery, integrated design approaches
 - Can energy savings performance contracting (ESPC) advance systems approach?
 Bosch DC Microgrid Project: EPC 14-053
 - State/public buildings as test beds?
 - Federal examples--
 - GSA Green Proving Ground
 - DoD ESTCP
 - DoD net-zero pilots



DC Microgrid Project, Ft. Bragg, NC

+ Opportunities to Support Systems Approach

System Efficiency in policy and planning

- Broader economy
 - Ways to enhance systems approach in building codes?
 - Work with utility commissions (and customer-owned power public power and co-ops)
 - Customer benefits, utility system benefits (reliability, resilience)
 - Efficiency, distributed generation, demand response, storage as grid resources
 - Tools, training, resources for designers, architects, engineers, trades
 - State and/or local legislation required for:
 - Benchmarking and disclosure policies
 - Tax and other fiscal incentives
 - Local zoning incentives
- State energy plan
 - Findings, recommendations affect policy



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Thank You

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