

Smart Planning for Electrification

2023 Northern New England Planning Conference

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NEW INCENTIVES



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- Inflation Reduction Act
- Net Energy Billing
- State & Local Policies

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NEW LAND USES



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- Solar
- Geothermal
- Geothermal heat pumps
- Energy storage technology
- Wind
- Hydropower
- Waste energy recovery
- Biogas
- Battery storage
- Transmission infrastructure
- Carbon capture
- EV charging stations



Source: [ReVision Energy, Maine City Install 4.7 MW Solar Array - Solar Industry \(solarindustrymag.com\)](https://solarindustrymag.com)



Shipping units containing 950 lithium-ion batteries in Madison, Maine. This project has a capacity of just under 5 MW that can help supply power and balance electricity demand daily. *Image Source: New England Battery Storage*



Batteries stacked inside of a shipping container in Boothbay, Maine. *Image Source: Convergent Energy*

Source: Maine Gov Energy Office – Storage Policy Presentation (2023-05-15)



Source: Electrical substation - Energy Education

NEW CHALLENGES

- New, modified uses + processes
- Right location / zoning
- Unique siting and performance standards
- Unique end-of-life issues / decommissioning
- NIMBYism
- Regulations, ongoing change
- Regulations as barriers to decarbonization

NEW OPPORTUNITIES



NEW OPPORTUNITIES TO DECARBONIZE MUNICIPAL BUILDINGS AND FLEET

- Incentives apply to local governments:
 - Direct Pay
 - Net Energy Billing + Leases
 - State Policies
- Current and new tools:
 - CIP process
 - Grants
 - Financing

BOTTOM LINE

*With proper planning and deployment of the right tools,
local government can play a unique and important role
-- as regulator **and** proprietor --
in our efforts to “electrify everything.”*

THANK YOU



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