

Leveraging State, Federal, and Program Resources to Capture Energy Saving Opportunities in Water Treatment in Massachusetts

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Working Together, Advancing Efficiency

Water/Wastewater Initiative

- **Objective**: Increase awareness of and demand for energy efficiency within the municipal water and wastewater sector
- **Strategy**: To build a template of consistent tools and messages for members to incorporate into their programs

Municipal Water & Wastewater Facilities: A Huge Savings Opportunity

- Drinking Water and Wastewater accounts for approximately 3 percent of total U.S. electric load, at a cost of \$4B a year.
- Financial Pressure
 - US EPA: O&M budget gap of \$10.5-15B/year
 - CWWA: \$6B/year investment
- 20-40% Energy Savings
 - Pump optimization, VFD, sludge handling
- Ubiquitous in CEE member service territories

Challenges

- Large Projects, Complicated Funding
 - Municipal finance
 - Funding priorities
- Unique business case
 - Publicly owned treatment works
- Stricter regulation
 - Increasing energy requirements
- Shortage of Technical Expertise
 - Efficiency & Renewables