

RESOURCE CONSERVATION PLANNING & SAVING ENERGY WITH METERING TOOLS

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Massachusetts Office of Technical Assistance (OTA)
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Speakers

- Lauren Mattison, Research Fellow
 - UMass Amherst Center for Energy Efficiency and Renewable Energy (UMass CEERE) and Industrial Assessment Center (IAC)
- Ronald Westgate, Facilities Specialist and TURP
 - Philips Lightolier




Session Overview

- TURA Resource Conservation Planning Requirements
- Resources – OTA & IAC
- Why Conduct an Energy Assessment?
- Energy Assessment & Metering Tools
- Philips Lightolier Case Study
- Small Group Exercise




TURA Resource Conservation Planning Requirements

- Employee Notification
- Facility-wide Information
 - Management Policy
 - Scope of Plan
 - Characterize Asset Use
 - Identify and Rank Energy Savings Opportunities
 - Operations for Detailed Evaluation




TURA Resource Conservation Planning Requirements

- Detailed Evaluation for selected Operations
 - Procedures for Identifying Energy Savings Techniques
 - Technical and Economic Evaluation of Energy Savings Techniques
- Certification Statements
- Plan Summary and Progress Report



OTA Environmental Assistance Services

- OTA provides free and confidential on-site, phone, and email assistance to manufacturers, businesses, and institutions.
- Environmental Assistance Services:
 - Environmental Health and Safety Compliance
 - Toxics Use Reduction
 - Energy Efficiency
 - Water and Resource Conservation
- OTA also:
 - Provides Informational Case Studies and Fact Sheets
 - Connects You with Additional State, Local and Federal Resources

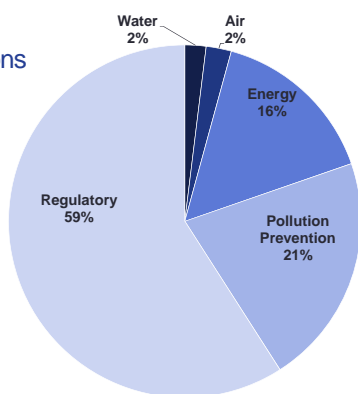


Energy Savings Opportunities

- Lighting
- Boilers, Furnaces, & Process Heaters
- Steam Systems and Condense Recovery
- Hydronic and Pumping Systems
- Chillers and Chilled Water Systems
- Cooling Towers
- Air Distribution, Fans & HVAC Systems
- Electrical
- Variable Speed Drives (VFD)
- Compressed Air Systems
- Energy Management Control Systems
- Refrigeration Systems
- Heat Recovery and Waste Heat Management
- CHP
- Thermal Energy Storage System

All OTA Recommendations Given in FY17

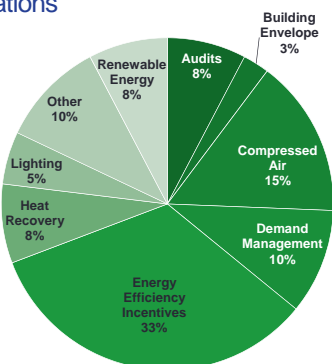
16% of all OTA recommendations given during FY17 were related to energy efficiency or renewable energy.



Energy Recommendations by Category

During FY17, the 4 most popular areas of assistance related to energy use were:

1. Energy Efficiency Incentives
2. Compressed Air
3. Demand Management
4. Energy Audits



THANK YOU

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