

# Efficiency Maine Trust Board

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Presented by:

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Efficiency Maine Low Income, and Education  
and Training Programs

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*Leading the Way to a Brighter Future*

Program of the Maine Public Utilities Commission





## Low Income Appliance Replacement Program

- By statute, 20% of the system benefit charge monies fund low-income programs.
- Designed to replace old and inefficient refrigerators and freezers in the homes of low-income consumers.
- Implemented through a memorandum of understanding (MOU) with MaineHousing and the community action program (CAP) agencies.
- In fiscal year 2009, the Program delivered 1,652 refrigerators, 525 freezers and 18,432 compact fluorescent lamps (CFLs) to 2,417 low-income households.
- The benefit-to-cost ratio is 1 to 1. The decline from 2008 can be attributed to a lower avoided energy cost and discontinuation of the highly effective mailing of CFLs to low-income consumers owing to budgetary limitations.

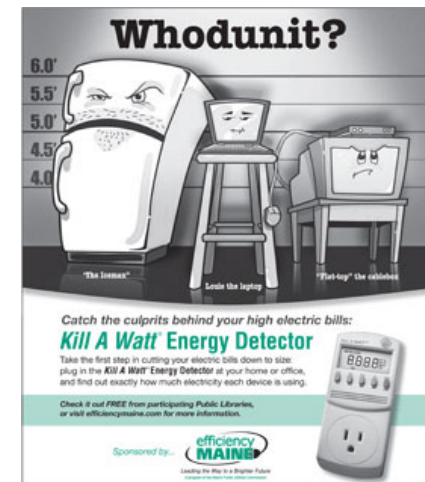


## Operation Keep ME Warm Initiative

- Partner with the Office of Energy Independence and Security (OEIS) and MaineHousing to implement the special initiative by the Governor.
- The initiative involves volunteer weatherization teams to go to low-income homes and install weatherization and energy efficiency items.
  - In fiscal year 2009, 5,879 compact fluorescent lamps were donated to the volunteer weatherization program.
  - This year, \$50,000 will go towards to purchase of electricity efficiency items, such as CFLs and LED nightlights.

## Library-Lending Program for Kill-A-Watt Electricity Usage Monitors

- The monitors simply plug into electrical outlets and let the consumer plug in any appliance to get a readout on how much energy the appliance uses. The monitors can be checked out at most public libraries like a book by Maine residents.
  - Mailed 50,000 letters to low-income households to notify them of the Program and provide energy-efficiency information.



## LED Nightlight Mailing Project

- Developing a plan to mail 2 LED nightlights to 80,000 low-income households in February/March 2010 to help raise awareness of LED technology.
- The packet would also include educational pieces on why it is important to throw away their old incandescent nightlights and replace them with the new LED nightlights.
  - The LED nightlight use 1 watt of energy compared to an incandescent nightlight utilizing 7 watts.



## School Energy Education Programs

- **Maine Energy Education Program (MEEP)**
  - Serves schools in central and southern Maine.
  - Offers presentations and workshops to children and teachers from grades 4-12.
  - Topics include electricity generation, energy sources, climate change, energy conservation, etc.
- **Maine Public Service's (MPS) BE Energy-Wise Program (BEEP)**
  - Serves schools in northern Maine.
  - Educates students about energy issues not only in schools but also in a broader society.
  - Creates "Eagle Patrols", who patrol the corridors of their schools for lights left on, and educate and remind fellow students and teachers about saving energy.



## School Energy Education Programs (continued)

- PowerSleuth: Maine Energy Education Curriculum Project
  - This 3-year project, launched in 2007, has developed standards-based, hands-on energy education materials for students in 4-8<sup>th</sup> grades.
  - 3 PowerSleuth units will be available at no cost to the teachers.
    - “Energy Lights Maine” for students in grades 4-5 and contains lessons on circuits and electric light, conductors and insulators, generation of electricity, energy efficiency and conservation.
    - “Energy Heats Maine” for students in grades 6-7 develops students’ understanding of heat and thermal energy, including how heat moves, and explores the mechanisms of transfer and conservation.
    - “Energy For Maine” designed for students in grades 7-8 focuses on energy transfers and transformations.
  - Teachers and students can access materials and additional supporting resources by visiting [powersleuth.org](http://powersleuth.org).



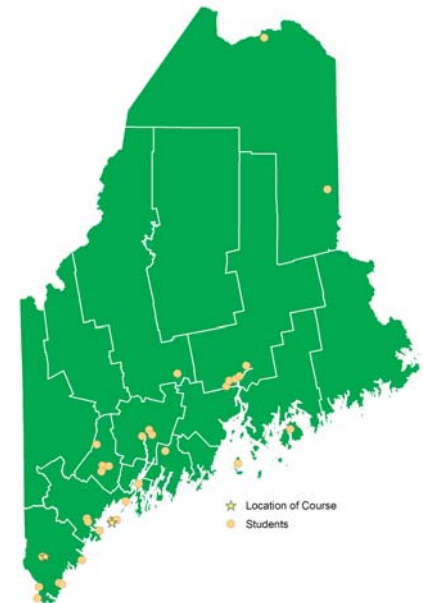
## Professional Training Workshops

- Efficiency Maine’s professional training programs provide key stakeholders (including architects, engineers, facility managers, tradespeople, water and wastewater operators and other professionals) with technical training in a variety of topics, such as:
  - Commercial Energy Auditing
  - Introduction to Solar Thermal
  - Facility Managers – How to Get Started Saving Energy
  - Energy Efficiency for Financial Managers
  - Energy Smart Real Estate Specialist
  - IES Illuminating Training Session
  - BOC Recertification and “What’s New?” Seminar
  - AEE Certified Energy Manager



## Building Operator Certification (BOC) Program

- Offers 8-day courses over a 2 to 4 month period that trains facility managers on how to improve energy efficiency, reduce maintenance costs, and enhance building occupant comfort and safety.
- Certified building operators demonstrate competence in evaluating building energy consumption, HVAC energy inspection, lighting surveys, indoor air pollutant sources and pathway locations, and facility electrical distribution.
- Electricity use in commercial and government buildings can be cut by **20% or more** when building operators manage and maintain their structures more effectively.
- In fiscal year 2009, the Program trained 53 students via 2 BOC Level I courses and 1 BOC Level II.
- The benefit-to-cost ratio was 1.30 to 1.



## Other educational initiatives and sponsorships

- Residential Energy Efficiency Workshops
  - Coordinating with University of Maine Cooperative Extension Service to conduct a 2-year program to provide information to residents statewide regarding renewable energy technology and systems for residential use and the incentives available through federal, state and local agencies.
  - The program must include at least one informational presentation in each of the 16 counties of the State.
- Maine Partners for Cool Communities (MPCC)
  - Efficiency Maine is a sponsor of the Maine Partners for Cool Communities for the on-the-ground organizing in more than 50 communities and linking them to resources and tools to save energy in their municipalities and households.
  - The MPCC reaches the grassroots, finding those who are interested, and equipping them to lead their municipalities, churches, organizations, and neighborhoods towards sustainability practices - particularly in energy use.





## **Other educational initiatives and sponsorships (continued)**

- Maine Indoor Air Quality Council (MIAQC)
  - The MIAQC is an interdisciplinary cooperative of professionals that promote the improvement of all indoor air environments and energy efficiency in the state.
  - Efficiency Maine sponsors the MIAQC, their conference, residential construction trainings, and seminar on energy efficiency and air quality.



**Any questions?**

**Thank you for your time.  
And, happy holidays**



(By the way, these are LED holiday lights.)

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