



Efficiency Vermont



Energy Audits in Town Buildings

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NWRPC
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Today's Agenda

- Efficiency Vermont Projects
- Energy Audit Basics
- Low Hanging Fruit
- GT and URF



Efficiency Vermont Projects

- Enosburg Falls- WWTF-Clerks Office-Walkthrough
- Richford-WWTF-HS Gym lighting-Elem School
- Isle La Motte-Thermal Issues-BEP mailed
- Bakersfield-Elementary School-LP \$14K
- South Hero-Define Scope-BEP mailed
- Fairfax-Fire Dept-LP-WWTF-motors
- Georgia-Walkthroughs
- Swanton-BEP mailed-WWTF-VFD's-Central School Lighting
- Alburgh-Town Garage-Lighting Project



Energy Audit Basics

- Inspection, survey and analysis of energy flows in a building
- Seek opportunities to reduce energy usage
- Reduce energy use while maintaining comfort , health and safety
- Prioritize improvements, from the greatest to the least cost effective opportunities

Types of Energy Audits

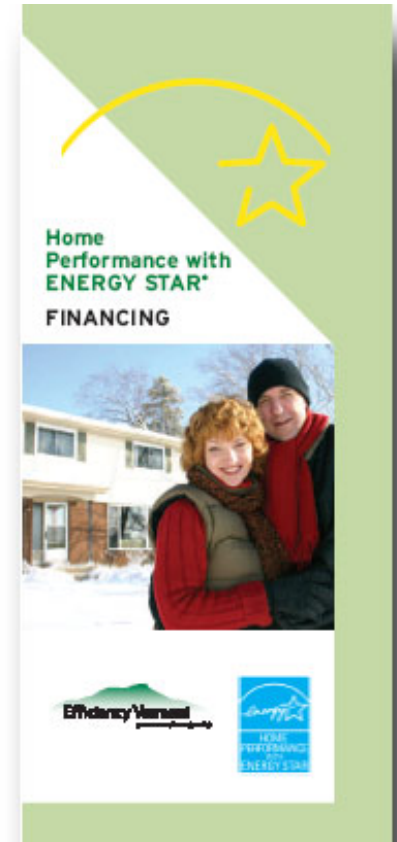
- Quick walkthrough of a building/facility, sometimes called simple audit. Only major problems will be uncovered
- General Audit, collects more detailed information. Energy bills are collected and analyzed, both electrical and fuel use.
- Investment grade/comprehensive audit, used mainly for corporate settings. Energy and non-energy investments are rated by the return on investment (ROI)

Efficiency Vermont and Energy Audits

- We do not typically perform energy audits
- We will do a walkthrough when electrical energy savings appears to be significant and budget has been identified
- Will review electrical energy aspects of audits performed by accredited contractors
- Residential and small commercial audits are performed by Home Performance with Energy Star contractors

Home Performance with Energy Star

All Contractors BPI Certified
Trained by Efficiency Vermont
Efficiency Vermont reviews all projects
Comprehensive Approach
Electrical
Thermal
Mechanical/HVAC



Key Points To Ask For In An Audit

- Detailed inspection of the building envelope
- Blower door test?
- Combustion efficiency and safety?
- Infra-red camera?
- Other tests as needed
- Written assessment
- Priority list of improvements?
- What work can they perform?
- Do they use sub-contractors?

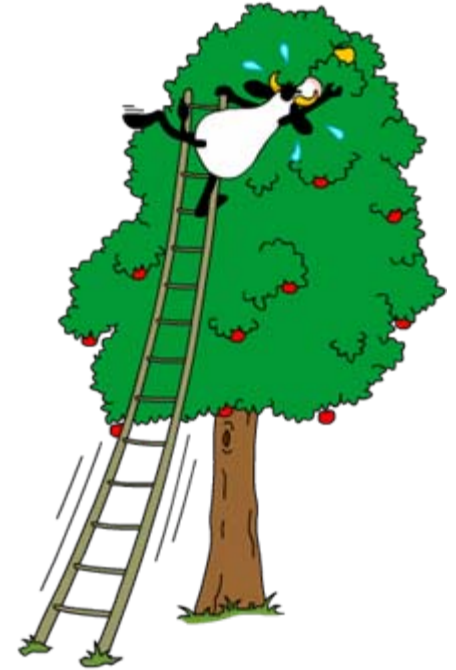
Pluck the Low-Hanging Fruit

- Lighting
 - Compact fluorescent lights
 - High-performance T8s (HPT8)
 - Occupancy sensors



A Bit Higher Up the Tree

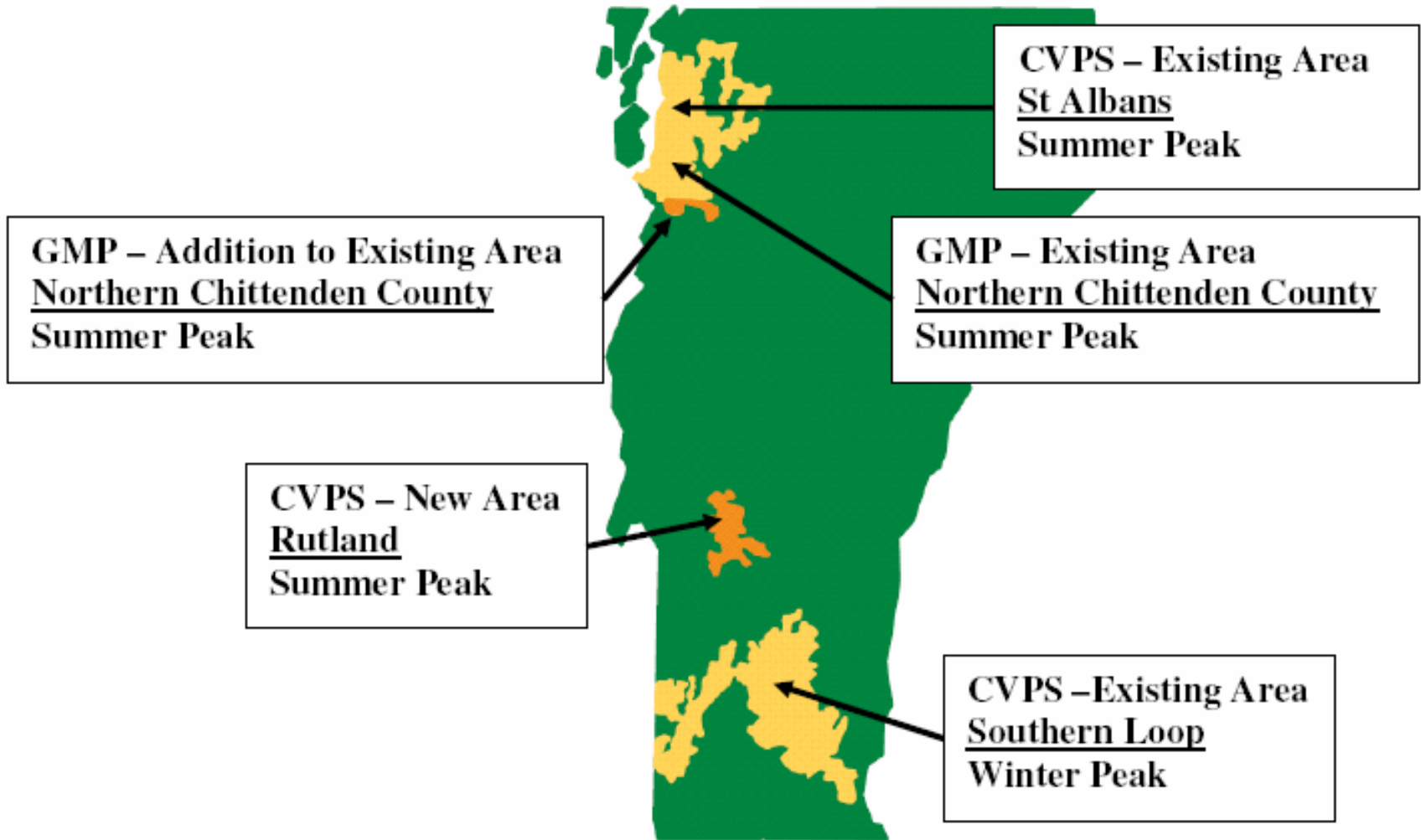
- Evaluate water-heating options
- Consider new HVAC system
- New windows and doors



Unregulated Fuels-URF

- Coming soon-2010
- We will cover oil and propane
- VGS will handle natural gas
- Funding generated by Regional Greenhouse Gas Initiative carbon auction.

Geographic Targeting 2009-11



Other Resources

Renewable Energy Incentives

877-888-7372

www.rerc-vt.org

State Incentives

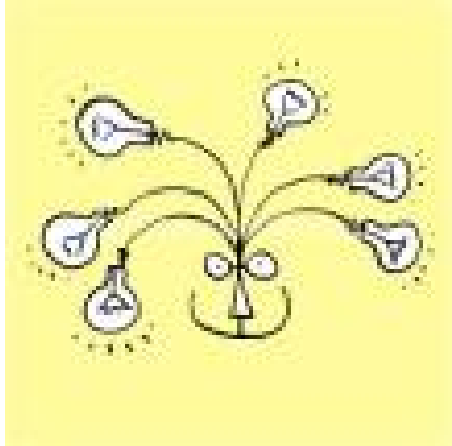
www.dsireusa.org/incentives

Federal Tax Credits

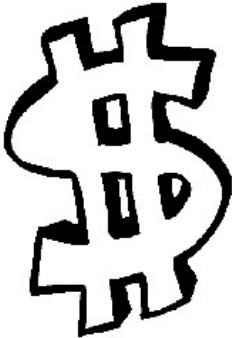
www.energystar.gov



Questions???



REFRIGERATORS



Thank You!

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