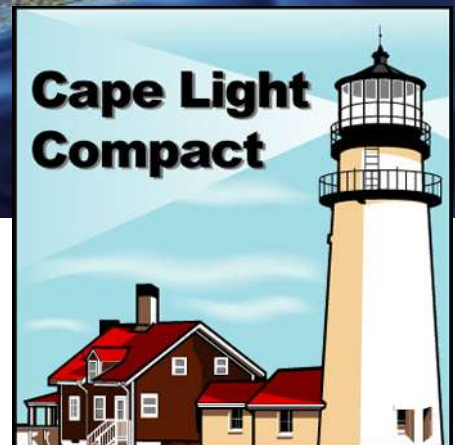


WBNERR Safe and Warm: Before, After, and During the Storm

Margaret Song, Cape Light Compact



Goals for Today



The Basics about Cape
Light Compact



Test Your Energy Efficiency
Knowledge



Opportunities for
Improvement

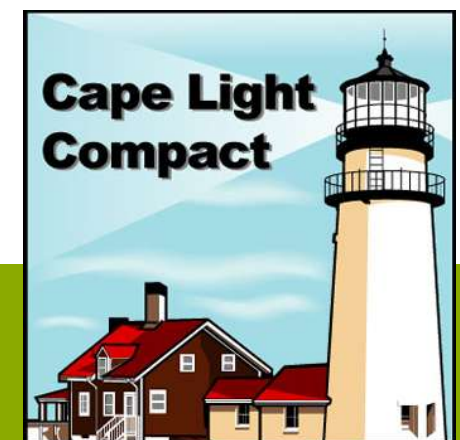
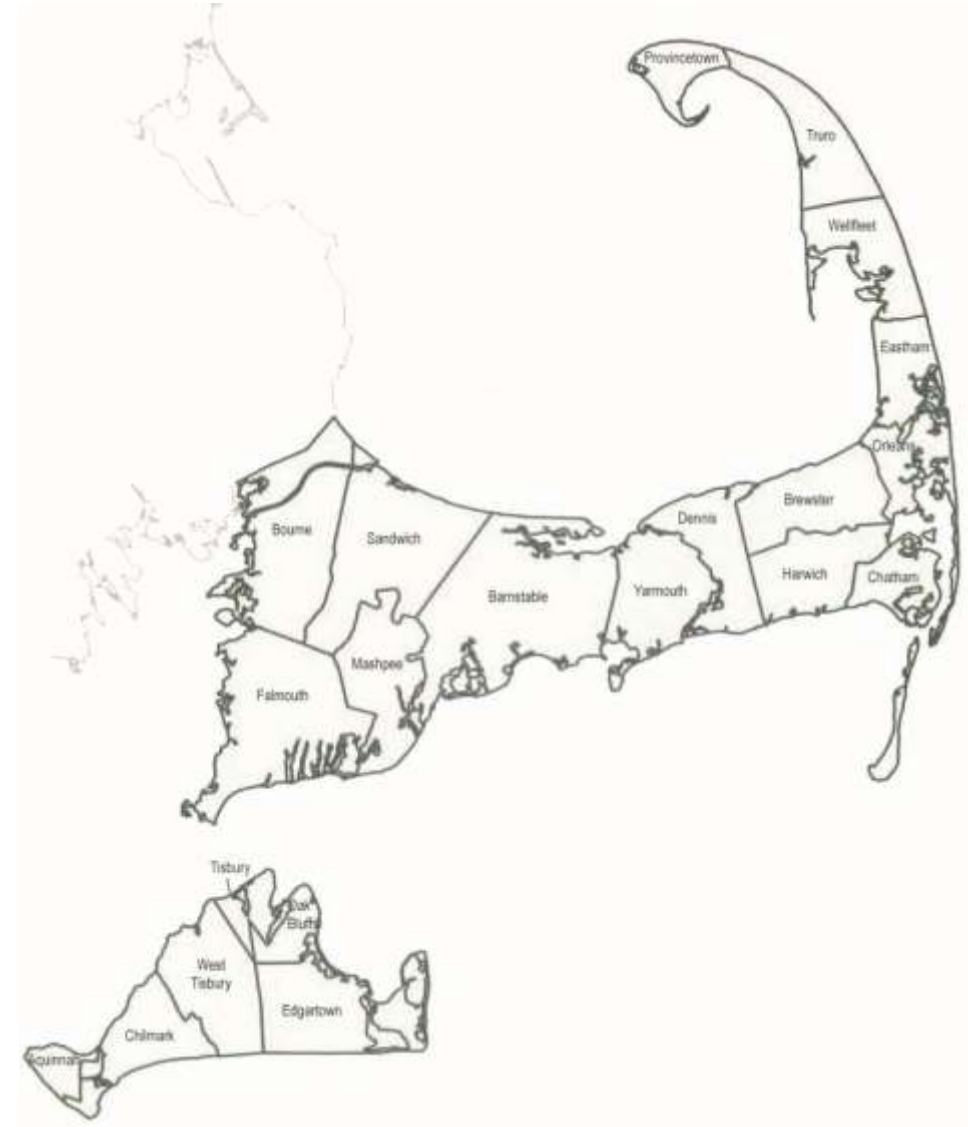


The Basics of Cape Light Compact

Who are we?

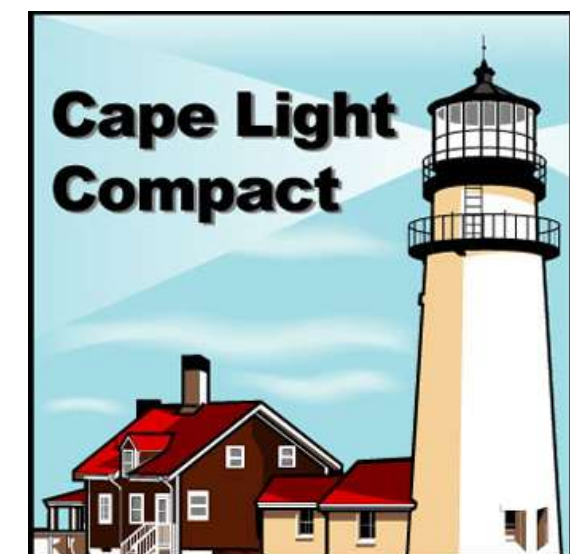
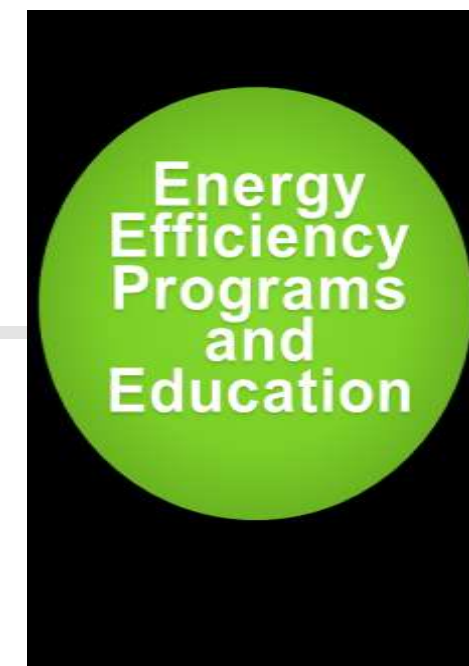


- Public Entity formed in 1997 to advance the interests in consumers in the newly restructured electric industry
- Serves the 21 towns and 2 counties encompassing Cape Cod and Martha's Vineyard
- Governing Board comprised of appointed individuals who represent each member town's interests
- Serves 200,000+ consumers on Cape Cod and Martha's Vineyard
- Office Located in the Superior Courthouse in Barnstable Village
- Administers \$100+ million annual power supply contract (Since 2003)
- Operations funded through a 'mil adder' incorporated into our customers electric bill (formerly by Barnstable County)
- Deliver a Comprehensive Approach to Energy Services



Who is Cape Light Compact?

Comprehensive Approach to Energy Services



Key Acts for the Compact

- The MA Electricity Restructuring Act of 1997 enables towns and cities to establish municipal aggregators like Cape Light Compact, that could:
 1. Purchase power on behalf of all customers in the municipality
 2. Implement the rate payer funded energy efficiency programs instead of the local electric utility
- The MA Green Communities Act of 2008 established a new statewide energy efficiency planning process, impacts municipal aggregators
 1. Three-year MA Department of Public Utilities (DPU) approved Energy Efficiency Plan
 2. Significant funding increases for “all cost-effective measures”
 3. Energy Efficiency Advisory Council, Statewide Working Groups

Account Number
1234-567-8910

Billing Date
Jun 18, 2007

Next Read Date
Jul 17, 2007

Service Provided to

Your Name Here

Account Summary

Previous Bill	115.30
Payment - Thank You	-115.30
Total Delivery Charges	50.30
Delivery Svcs Balance	\$50.30

Electricity Used

Rate 32-Residential Nonheat - Annual
Meter 2300459
Jun 15, 2007 Actual Read 4846
May 16, 2007 Actual Read 4187
30 Day Billed Use 659

2300459	KWH
06/15	659
05/16	412
04/17	509
03/16	538
02/14	539
01/15	783
12/14	714
11/14	479
10/17	435
09/18	552
08/17	1030
07/18	930
06/17	673

Cost of Electricity

Delivery Services

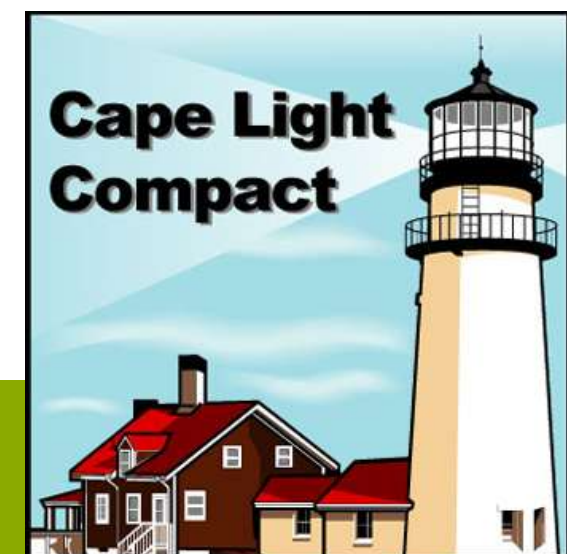
Customer Charge			
Distribution	.04825 X	659 KWH	31.80
Transition	.01450 X	659 KWH	9.61
Transmission	.00482 X	659 KWH	3.18
Renewable Energy	.00050 X	659 KWH	0.33
Energy Conservation	.00250 X	659 KWH	1.65

Delivery Services Total


50.30

Ratepayer funding of
Cape Light Compact
Energy Efficiency Programs

IN THE TRANSITION
FUNDING LLC



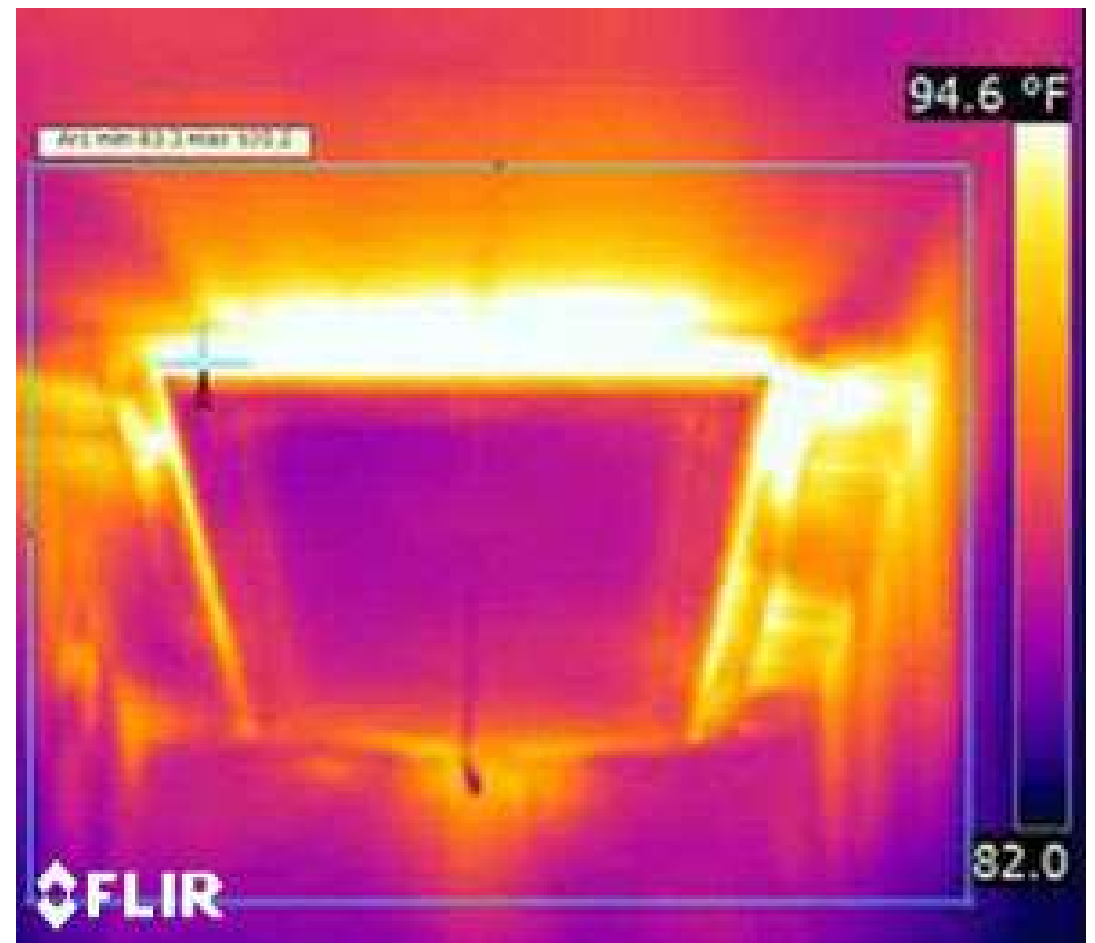
Who's Paying for All of This?



Test Your Energy Efficiency Knowledge

What's wrong with your picture?





Un-Insulated, Un-Covered Attic
Access

What's Wrong Here...



Air Gap in Bulkhead Door

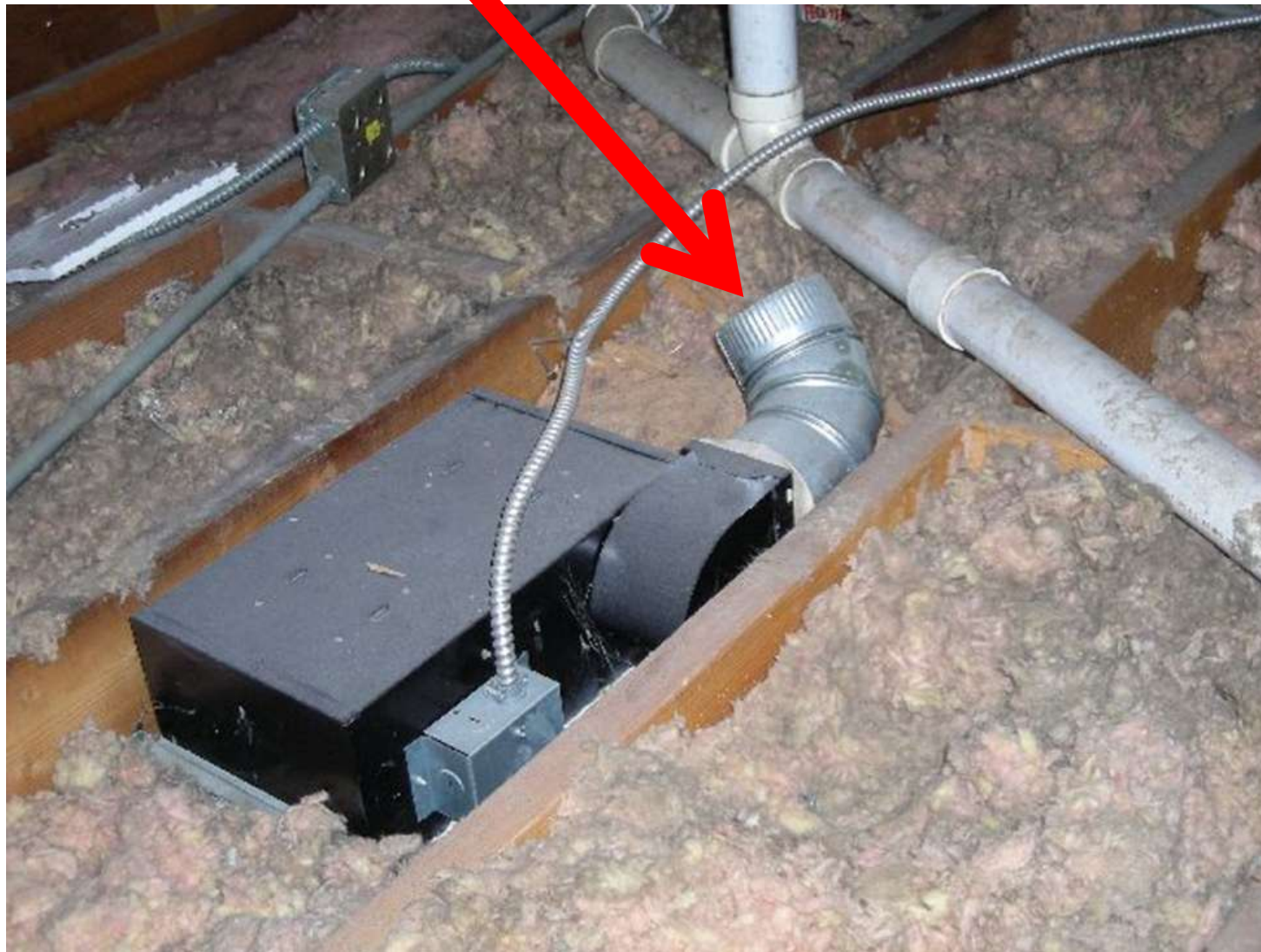
What's Wrong Here...

Air Gap Around
Ceiling Penetrations



What's Wrong Here...

Bath Fan Vented Directly Into Attic



What's Wrong Here...



Before...
Chimney
chase
open to
basement

After...

What's Wrong Here...

Non-continuous
Insulation

No Contact between
Insulation and Floor



Evidence of bulk
moisture and mold

What's Wrong Here...



Un-
insulated
rim and
band joist
located
above
insulated
foundation
walls

What's Wrong Here...



Insulation
removed
from Kraft
facing

What's Wrong Here...



Except for this
incandescent light
bulb

Nothing!

What's Wrong Here...



Kinked
supply ducts

What's Wrong Here...

Duct connecting Supply and Return



What's Wrong Here...



Water
Heater
starting to
deteriorate

What's Wrong Here...



Skylight Framing

Recessed Ceiling Lights?

Poorly Insulated Roof Structure

What's Wrong Here...



Cold Ceiling (poorly insulated attic) collects moisture and any particles in the air, staining ceilings.

What's Wrong Here...



Poorly insulated and
air sealed home
creating Ice dams

What's Wrong Here...

Ice dams



http://www.thisoldhouse.com/toh/photos/0,,20557572_21099321,00.html

Permanent Fixes for Ice Dams



Permanent Fixes for Ice Dams

Getting rid of ice dams for good is simple, in principle: Just keep the entire roof the same temperature as the eaves. You do that by increasing [ventilation](#), adding [insulation](#), and sealing off every possible air leak that might warm the underside of the roof.

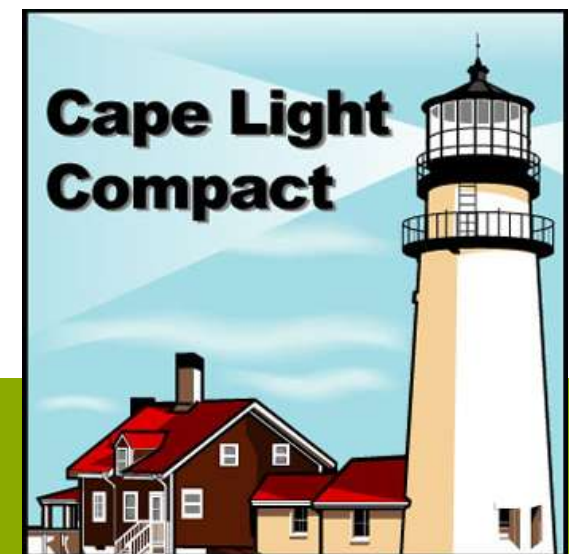
- 1. Ventilate Eaves And Ridge.** A ridge vent paired with continuous soffit vents circulates cold air under the entire roof. Both ridge and soffit vents should have the same size openings and provide at least 1 square foot of opening for every 300 square feet of attic floor. Place baffles at the eaves to maintain a clear path for the airflow from the soffit vents.
- 2. Cap the Hatch.** An unsealed attic hatch or whole-house fan is a massive opening for heat to escape. Cover them with weatherstripped caps made from foil-faced foam board held together with aluminum tape.
- 3. Exhaust to the Outside.** Make sure that the ducts connected to the kitchen, bathroom, and dryer vents all lead outdoors through either the roof or walls, but never through the soffit.
- 4. Add Insulation.** More insulation on the attic floor keeps the heat where it belongs. To find how much insulation your attic needs, check with your local building department.
- 5. Install Sealed Can Lights.** Old-style recessed lights give off great plumes of heat and can't be insulated without creating a fire hazard. Replace them with sealed "IC" fixtures, which can be covered with insulation.
- 6. Flash Around Chimneys.** Bridge the gap between chimney and house framing with L-shaped steel flashing held in place with unbroken beads of a fire-stop sealant. Using canned spray foam or insulation isn't fire safe.
- 7. Seal and Insulate Ducts.** Spread fiber-reinforced mastic on the joints of HVAC ducts and exhaust ducts. Cover them entirely with R-5 or R-6 foil-faced fiberglass.
- 8. Caulk Penetrations.** Seal around electrical cables and vent pipes with a fire-stop sealant. Also, look for any spots where light shines up from below or the insulation is stained black by the dirt from passing air.

Cape Light Compact Free Energy Assessment

Call 1-800-797-6699 www.capelightcompact.org

A qualified Energy Analyst performs an energy audit on your home using a “Whole-House” approach which includes:

- Analysis of historical energy consumption using utility bills
- Comprehensive Assessment Identifying Energy Efficiency Opportunities
- Combustion Appliance Testing (checking for safety and efficiency)
- Replacing Incandescent light bulbs with Installation of Energy Efficient Lighting
- Identification of Cost-Effective Energy Efficiency Opportunities
- Home Energy Action Plan- Providing Recommendations and energy savings projections
- Generous Incentives for recommended measures



Home Energy Assessment

0% Interest HEAT Loan Program

Up to \$25,000 with Repayment Terms up to 7 Years for Eligible Measures Including:

*Loan eligibility is determined by the lender. Must receive Energy Assessment

- Air Sealing, Insulation and Duct Improvements
- Domestic Hot Water Systems
- Heating Systems and Thermostat Controls
- Central Air Conditioning Systems
- Pre-Weatherization Barrier Remediation



Now Available for Condo Owners!



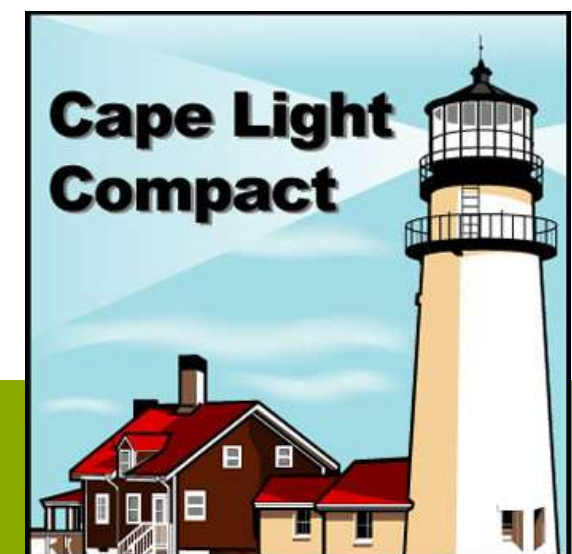
Finance your 25% co-payment
for weatherization measures



Get rid of that old inefficient
heating system without
breaking the bank!



Replace your old AC system
or
Install one for the first time



HEAT Loan

1. Chimney Balloon

\$35 rebate A removable, reusable, and durable device that helps to stop airflow, odor, and debris from flowing through your chimney.

2. Heating Systems, Controls, & Water Heaters

\$100-1200 rebate* for oil & propane heating systems.

3. Central Air Conditioning

\$250-500 rebate for central cooling and minisplit heat pump systems.

4. Efficient Thermostats*

limit 2 per customer (oil & propane)

\$25 rebate for 7-day programmable thermostat.

Up to \$100 rebate for Wi-Fi thermostat with Wi-Fi Connection enabled.

5. Heat Pump Water

Heaters \$750 rebate for qualified electric hot water replacements.

Cape Light Compact's Home Energy Assessment

Includes **Free** energy efficient light bulbs, **Free** air sealing, and will cover 75% of the cost up to \$4,000 to install recommended insulation for eligible homes. Please call (800) 797-6699 to schedule your free home energy assessment today!
Additional benefits for income qualified customers.

Mass Save® HEAT Loan Program

The HEAT Loan Program provides loans up to \$25,000 with 0% interest and terms up to 7 years for approved measures.** To apply for the loan you must own a one to four-family home and have a home energy assessment. To view eligibility requirements, please visit www.capelightcompact.org/heat.

6. Solar Domestic Hot Water

\$500-1500 rebate

for solar domestic hot water heating systems. Rebate amount depends on number of household members. Pre-approval required and must replace electric hot water heater.

7. Appliances

\$50 rebate for recycling your second refrigerator or freezer.

\$50 rebate for a new ENERGY STAR® Most Efficient qualified refrigerator.

\$20 rebate for a new ENERGY STAR® qualified freezer.

\$40 rebate for an ENERGY STAR® Room Air Cleaner.

8. Dehumidifier \$30 rebate

on ENERGY STAR® certified dehumidifiers.

9. Clothes Dryer

\$50 rebate for ENERGY STAR® certified electric clothes dryers.



*Natural gas equipment related rebates are available through GasNetworks at www.gasnetworks.com.

**Subject to lender approval.

www.capelightcompact.org/ResRebates



Thank you!

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508-375-6843

