

saves the Light Plant on-peak premium costs. These savings are passed on to the customer, which currently make ETS operating costs lower than oil and gas for home heating.

Concord Light continues to offer a residential off-peak domestic hot water (DHW) program. Participating customers have their DHW tank's charging time "shifted" to avoid expensive peak electricity charges. Currently, the water heaters of over 400 customers are controlled. In exchange, these customers receive a reduced rate for water heating, saving almost \$500 per year versus customers using electric water heaters not controlled by Concord Light.

### CONSTRUCTION ACTIVITY

Construction achievements for 2010 include:

- Designed and installed new underground electrical facilities on Sarah Way and Mildred Circle.
- Completed 95% of conduit installation for electric services on the Emerson Field underground project.
- Completed the conversion of electrical facilities on Stow Street and Everett Street. This included the removal of the overhead electrical wires that were attached the utility poles in this area.
- Designed and started the upgrade of the underground electrical distribution system in the West Concord Business District.



*Construction workers install conduits under a drain line for underground electric cables on Mildred Circle.*

- Completed extensive tree trimming for 75% of the overhead electrical facilities.
- Designed and upgraded an antiquated underground electrical distribution system at 280 Silver Hill Road.

- Designed and relocated the electrical distribution system at the Fowler Library as part of the renovation project.

### PERSONNEL AND TRAINING

Carole Hilton joined Concord Light as Customer Services Administrator and has a great deal of experience in operations, program management, key account maintenance, marketing and customer service. She has extensive experience in supervising employee teams responsible for servicing large customer accounts. She is an excellent addition to the organization.

Mary-Alice Mullin is the new Senior Department Clerk for CMLP. She comes to us with many years of experience in accounting and customer service. She has a real talent for talking with customers on the phone and in the person. She has proved to be an asset to the organization.

### COMPREHENSIVE SUSTAINABLE ENERGY COMMITTEE

Charlie Parker, Chair  
 Gordon Brockway  
 Anthony Butler  
 Gayle Chatlosh  
 Bill Carlezon  
 Brian Crouse  
 Dan Gainsboro  
 Peter Nobile  
 Cynthia Wood

The Comprehensive Sustainable Energy Committee continues to advance efforts to conserve energy in Town buildings, to understand the Town's overall energy use patterns both within the government and the community, and to coordinate with Town departments and environmental groups to initiate broad-reaching efforts to reduce energy consumption, promote energy conservation and support renewable energy technology.

#### *Energy Baseline & Energy Plan*

In early 2010, through the use of the Local Governments for Sustainability (ICLEI) Clean Air & Climate Protection Software (CACP 2009), the Town completed its baseline carbon footprint calculation for both the government and community sectors. The Committee has taken the baseline data and drafted an Energy Plan for the Town that includes target reduction goals, recommendations for the municipal, residential and commer-

cial segments, and strategies for municipal solid waste, community education, natural gas and electric power. In August, the Board of Selectmen adopted a goal to reduce municipal carbon emissions from 2008 levels by 20% by 2015. The Committee will continue to engage Town departments, non-profit groups, businesses and citizens to get support for the Plan and is hoping to adopt an official Version 1 in January 2011.

*Sawyer Trust Fund Projects*

Pursuant to its responsibility to advise the Town on energy efficiency projects afforded through the Sawyer Trust Fund, the Committee reviewed nine Sawyer Trust Fund applications; all of which were approved, for a total distribution of \$423,004 with an average payback period of 10.5 years and a savings to the Town of approximately \$40,000/year.

*Coordination with other Committees*

In an effort to increase outreach to other conservation-minded and energy related groups in Town, Committee members regularly attend meetings of the Concord Environmental Council, Concord Municipal Light Board, ConcordCAN and League of Women Voters, among others.

Sawyer Trust Fund Allocations - 2010

Building/ Proposed Work	Estimated payback	Approved Funds
Willard School Install solar PV panels on roof	5+/- years	\$44,000
Public Safety Building High-efficiency boiler & pumps, double-hung windows, roof & wall insulation, interior & exterior LED lighting, sensors & controls	20 years	\$219,865
Lighting Upgrade Pilot Town House (interior), Public Safety Building (exterior), WC Fire Station (interior) & Hunt Rec (exit lighting)	10.5+/- years	\$48,448
Lighting Upgrade Phase 2 Concord Public Works (exterior)	6+/- years	\$31,000
Weatherization Pilot - Design Town House & WC Fire Station – infrared study & bid specs	N/A	\$9,920
Weatherization Pilot - Construct Town House & WC Fire Station	14+/- years	\$36,000
Weatherization Phase 2 - Design Department of Planning & Land Management, Concord Public Works – infrared study & bid specs	N/A	\$9,985
Emerson Umbrella Energy-efficient lighting upgrades	8+/- years	\$14,000
Town House Insulated fiberglass door & insulated window	Not Provided	\$9,786
<b>TOTAL</b>		<b>\$423,004</b>



*The Concord Public Works Team*