

*Construction Activity for 2009*

- Completed conduit for nearly 100 services for Emerson Field neighborhood underground project and converted overhead wires to underground as part of the Sudbury/Thoreau St. intersection work. Removed all overhead electrical facilities on Belknap St.
- Designed and installed new underground switches in Concord center. Replaced undersized switches along Williams Rd. and Old Marlboro Rd.
- Designed an upgrade of the Keyes Rd. distribution system. Designed and installed new underground facilities on Hunter’s Ridge Rd. Completed Nashawtuc Country Club overhead to underground primary design.
- Completed installation of tree-resistant primary wire along Central St., Highland St., Fitchburg Tpk. and Powder Mill Rd. Did extensive tree trimming in overhead areas.
- Designed and installed a new primary feed for Verrill Farm and Sydney Lane with provisions for future fiber communications. Designed and installed a new primary wire extension for Attawan Rd. and Barretts Mill Rd. Upgraded overhead facilities along parts of Williams Rd. Designed and installed underground service for the new Willard School.
- Implemented a new overhead to underground service conversion policy.

- Updated our Spill Prevention Control and Countermeasures Plan for CMLP facilities.
- Coordinated with Mass Highway on utility relocations for the Route 62 paving project.

*Personnel and Training*

Concord Light had two new hires this year. Christopher Roy joined us as Electrical Engineer and has an MSEE in Power Systems Management. Jan Aceti is Energy Conservation Coordinator. She comes to us from her own marketing firm and the City of Cambridge Dept. of Public Works.

**COMPREHENSIVE SUSTAINABLE ENERGY COMMITTEE**

- Charles Parker, Chair
- Eric Gamage, Vice Chair
- Brian Crouse
- Anthony Butler
- Cynthia Wood
- Gayle Chatlosh
- Sally Hughes
- Art Fulman
- Julie Vaughan, Staff Liaison

The Comprehensive Sustainable Energy Committee continues to advance efforts to conserve energy in Town buildings, to understand the Town’s overall energy use patterns and to coordinate with other environmental groups to initiate efforts throughout the community.

*Town Building Energy Audit & Sawyer Trust Fund Projects*

Pursuant to its responsibilities to administer the Sawyer Trust Fund in the most effective manner possible, the Committee, with guidance from the Town Building Energy Audit, worked with Town Building Managers to initiate two pilot projects to improve energy efficiency in Town-administered buildings—a Weatherization Pilot that is currently out to bid, and a Lighting Upgrade Pilot that is in the estimate phase. The Committee reviewed and approved eight Sawyer Trust Fund applications, for a total of \$212,316 with an average payback period of 6 years and a savings to the Town of approximately \$35,000/year

*Solar*

Solar is the most viable source of renewable energy in Concord; the Committee is focused on expanding the opportunities for solar in Town on all scales. While

Sawyer Trust Fund Allocations - 2009		
Building/ Proposed Work	Estimated payback	Approved Funds
<b>135 Keyes Road</b> Replace failing HVAC system	5+/- years	\$24,605
<b>Hunt Recreation</b> Upgrade Gym lighting	3 - 5 years	\$7,500
<b>Hunt Recreation</b> Replace outdoor pool pumps	8+/- years	\$5,950
<b>Beede Swim &amp; Fitness Center</b> Improve Lighting controls & perform heating retrofit	3 - 4 years	\$19,800
<b>Friends of the Performing Arts</b> Phase 1 – Insulate, air seal, replace/repair windows; replace very old oil-fired boiler	7+/- years	\$45,000
<b>Friends of the Performing Arts</b> Phase 2 – Install, replace, repair fiberglass insulation; rehabilitate 8 windows; install exhaust fans in the fly tower	7+/- years	\$35,000
<b>24 Court Lane Building</b> Renovate building with open cell insulation, hybrid HVAC system, energy efficient windows, LED lighting	Unknown repurposed building	\$39,021
<b>West Concord Fire Station</b> Install hot water boilers & new HVAC system	7+/- years	\$35,440
<b>SUBTOTAL</b>		\$212,316
<b>Willard School</b> Install solar PV panels on Roof	Depends upon grant	\$100,000
<b>TOTAL</b>		\$312,316

the parameters for Solar Renewable Energy Credits in Massachusetts are yet unclear, Committee members are working out the details of solar leasing in hopes of decreasing the barriers to solar for residents. Committee members have also been meeting with large solar companies to gain an understanding of what the requirements from and benefits to the Town would be for hosting a 1.5 to 2 megawatt system on Town land. The Town, with help from the Committee and financial support from the Sawyer Trust Fund (see table) submitted an application for an Energy Efficiency and Conservation Block Grant (EECBG) from the State to fund a solar installation on the roof of the new Willard School.

*Local Governments for Sustainability & Climate Action Plan*

The Town officially became a member of Local Governments for Sustainability, an international membership association of local governments dedicated to climate protection that facilitates municipal baseline carbon footprint calculations from which tangible reductions in greenhouse gas emissions can be achieved. The Committee is currently working on the baseline calculation around which target reduction goals will be established and community support for a Town-wide Climate Action Plan will be gathered.

*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.



*Styrofoam recycling volunteers at Drop Off Day*

**CONCORD PUBLIC WORKS**



*James A. Smith, Philip Swain, Cynthia W. Wood, Chair; Nick Pappas, Vice-Chair; Paul A. Mahoney*

**PUBLIC WORKS COMMISSION**

The Public Works Commission acts as the Town’s road, water and sewer commissioners, and advises the Public Works Director in the Department’s efforts to maintain and protect the Town’s public works, utility and solid waste/recycling services. The Commission also advises the Town Manager, Planning Board and other Town officials and boards on matters that concern Town water and sewer service, drainage and roads. The Commission is responsible for setting policy and rate schedules for water, sewer and solid waste services; for acting as an appeals board for water and sewer bills and for approving minimum standards for the final layout of Town roads.

The Public Works Commission provides a forum for review of water, sewer and solid waste rates, the annual roads program, public street layout, and water and sewer extensions.

The ongoing activities of the Commission can be found throughout the year on the web at [www.concordma.gov](http://www.concordma.gov)

Highlights for 2009 included (in chronological order):

- Review of a traffic signalization study that included a comprehensive analysis of all Town-owned and operated traffic signals and the development of final design plans and specifications to upgrade the signalization and intersection of Sudbury Road and Thoreau Street. A public