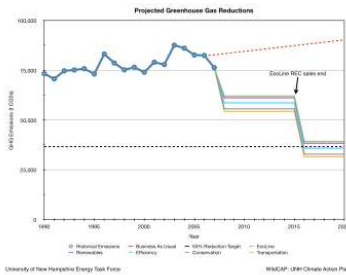


## UNH's Climate Education Initiative

The University Office of Sustainability coordinates UNH's Climate Education Initiative (CEI), which is actively engaging the university community in integrating the ethics, science, technology, and policies of greenhouse gas reductions into the university's identity and practices. The following snapshots highlight the successes of CEI ([http://www.sustainableunh.unh.edu/climate\\_ed/index.html](http://www.sustainableunh.unh.edu/climate_ed/index.html)).

### **Wildcat Climate Action Plan (WildCAP)**



The formation of WildCAP was the result of extensive collaboration amongst students, staff, faculty, numerous departments such as the University Office of Sustainability, and coordinated by the campus-wide Energy Task Force. The strategies, policies, and programs that embody WildCAP describe how UNH will meet and ultimately exceed its requirements under the American College & University Presidents Climate Commitment (ACUPCC) by:

- Reducing GHG emissions 50% by 2020
- Reducing GHG emissions 80% by 2050 on the road to carbon neutrality by 2100

**URL:** <http://www.unh.edu/etf/wildcap.html>

**Contact:** Brett Pasinella, Program Coordinator for Climate Education Initiative. Phone: (603) 862-5039. Email: [brett.pasinella@unh.edu](mailto:brett.pasinella@unh.edu)

### **Energy Task Force (ETF)**

The ETF serves in an advisory capacity to the UNH President and provides recommendations on the full range of issues that relate to climate change and energy. The overarching goal of the ETF is to guide the University toward a systemic and integrated energy policy that emphasizes health and integrity, climate protection, efficiency, cost-effectiveness and stability, fairness for all University constituents, and consistency with priorities set by the UNH Academic Plan and UNH Campus Master Plan.

**URL:** <http://www.unh.edu/etf/>

**Contact:** Paul Chamberlin, Energy & Campus Development and ETF Chair. Phone: (603) 862-1903. Email: [paul.chamberlin@unh.edu](mailto:paul.chamberlin@unh.edu)

### **EcoLine (Landfill Gas Pipeline) & Cogeneration**



EcoLine is a 12.7-mile pipeline that delivers purified methane gas from the Turnkey Recycling and Environmental Enterprise (TREE) landfill in Rochester to the Durham campus. In Fall 2009, UNH became the first university in the

nation to use landfill gas as its primary fuel source (providing up to 85% of the campus energy needs). Moreover, EcoLine provides the majority of fuel to the Cogeneration Plant on campus, which is the primary source of heat and electricity for the five million square foot campus. COGEN retains waste heat normally lost during the production of electricity and instead uses this energy to heat buildings, in turn reducing sulfur dioxide and nitrous oxide emissions. UNH's COGEN cost an estimated \$28 million -- all self-financed -- with an anticipated payback within 20 years and resulted in an estimated reduction in greenhouse gas emissions of 21% in AY2006 compared to AY 2005. The EcoLine project cost an estimated \$49 million – all internally-funded – with an anticipated payback within 10 years of the project. UNH is selling the renewable energy certificates (RECs) associated with EcoLine to help finance the capital costs of the projects, as well as to invest in additional energy efficiency projects on campus.

**URL:** [http://www.sustainableunh.unh.edu/climate\\_ed/cogen\\_landfillgas.html](http://www.sustainableunh.unh.edu/climate_ed/cogen_landfillgas.html)

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### Student Energy Waste Watch Challenge



Run by the UNH student group the Ecological Advocates, "The Challenge" is an energy use reduction competition held on the UNH Durham campus every fall semester! The major goal is to engage students living on campus in activities that reduce their ecological footprints - in particular, energy use. Students compete as teams of residence halls or apartment complexes to reduce their per capita energy consumption. Each apartment complex and residence hall has one or more volunteer "Energy Captains" - students who take a leadership role to educate and motivate their fellow students.

In 2009, the winning team reduced their energy consumption by 30 kilowatt hours less energy per person during the month of October than the second place team. This equates to 60,000 kilowatt hours of savings, which is equivalent to 43 metric tons of CO<sub>2</sub> or 100 barrels of oil.

**URL:** <http://www.unh.edu/etf/challenge.html>

**Contact:** Brett Pasinella, Program Coordinator for Climate Education Initiative. Phone: (603) 862-5039. Email: [brett.pasinella@unh.edu](mailto:brett.pasinella@unh.edu)

### UNH Energy Office

The UNH Energy Office is instrumental in advocating for better energy policies and implementing campus energy efficiency projects. As a testament to the success of the Energy Office, if UNH consumed energy at the mean rate of our peer group, we would have spent over \$20 million for energy during FY-06. Because of our ongoing energy efficiency programs, we actually spent only \$13 million during FY-06. That results in a yearly savings of \$7 million!

**URL:** <http://www.energy.unh.edu/>

**Contact:** Matt O'Keefe, UNH Energy & Utilities, Campus Energy Manager. Phone: (603) 862-1276. Email: [matt.okeefe@unh.edu](mailto:matt.okeefe@unh.edu)

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Other successes of the University of New Hampshire's action on climate change include a wide range of partnerships and collaborative efforts. Here but a few of them.

### **New England Carbon Challenge**



The New England Carbon Challenge is a joint initiative of the University of New Hampshire and [Clean Air - Cool Planet](#), both recognized leaders in climate mitigation and solutions. The NE Carbon Challenge works to educate, inspire and support sustained reductions in residential energy consumption. The Carbon Challenge offers lots of ideas to reduce your home's energy consumption and our New England [Carbon Estimator](#)<sup>TM</sup> will walk you through the process of identifying which actions are best suited to your household. It only takes about 15 minutes and you'll get a customized report on the savings your family can achieve.

**URL:** <http://necarbonchallenge.org>

**Contact:** Garry Dow, Community Outreach Coordinator. Phone: (603) 422-6464. Email: [info@necarbonchallenge.org](mailto:info@necarbonchallenge.org)

### **Green Launching Pad**

The concept of the Green Launching Pad is to connect entrepreneurs and private industry with technical, scientific and business faculty and students at UNH and statewide to successfully launch new green businesses. The goal is to launch a competitive "green" energy technology commercialization program, which is accessible to NH entrepreneurs, businesses, and innovators. Projects funded under this program will specifically address commercialization of energy efficiency, energy conservation, renewable energy, and/or sustainable energy projects, programs, services, or techniques that will quickly lead to energy savings and emissions reductions and business and employment growth. The Green Launching Pad will bring together and support interdisciplinary teams of scientists, engineers, economists, faculty, entrepreneurs, and others. They will work to accelerate the development of new "green" businesses and growth of existing businesses that will directly

reduce energy use and carbon emissions while creating new jobs and economic opportunities. The teams will broaden the use and applicability of commercially available energy efficiency and carbon reducing products and services.

Green Launching Pad is a strategic partnership of University of New Hampshire and New Hampshire Office of Energy and Planning, with funding from U.S. Department of Energy (ARRA). The project duration is two years.

**URL:** <http://www.greenlaunchingpad.org/>

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