



The Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs

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NINE CLEAN ENERGY PROJECTS RECEIVE \$3 MILLION IN GRANTS FROM RENEWABLE ENERGY TRUST

Next \$17 million of funding for Commonwealth Solar rebates also approved

BOSTON – Secretary of Energy and Environmental Affairs Ian Bowles today announced grants supporting nine new renewable energy projects awarded by the Massachusetts Renewable Energy Trust. The next round of funding for the highly successful Commonwealth Solar rebate program was also authorized, the Secretary said.

“There are many ways to put clean energy to work in homes, offices, businesses, and communities, and Governor Patrick wants the Commonwealth to capitalize on all of them, for economic as well as environmental benefits,” said Secretary Bowles. “These nine grants will help build wind turbines, increase hydro power, and install fuel cells, while the next round of funding for Commonwealth Solar will put solar panels on homes and businesses.”

The Governing Board of the Massachusetts Renewable Energy Trust approved the grants totaling more than \$3.2 million for the design and construction of nine new wind, hydroelectric, biogas, and fuel cell projects, which will result in nearly 5 megawatts of clean energy generating capacity. With the help of these grants, supermarkets, communities, businesses, and a ski resort are harnessing the power of clean, renewable energy to improve the environment and reduce our dependence on fossil fuels. Funds for the Trust come from renewable energy charges on electric bills, which generate roughly \$25 million a year to support renewable energy installations and companies.

“We need lots of clean energy solutions, not just one, and these nine projects represent several,” said Phil Giudice, Commissioner of the Department of Energy Resources (DOER) and chair of

the Trust's Governing Board. "The Commonwealth is committed to supporting these projects and many more like them."

The nine clean energy projects receiving design and construction grants include wind turbines for Aquacultural Research Corp. of Dennis, Berkshire East Ski Resort, the Massachusetts Bay Transportation Authority (MBTA) in Kingston, and Upper Cape Regional High School in Bourne; additional hydro capacity at L.P. Athol Corp. in Athol and Southworth Co. in Turners Falls; fuel cells for Shaw's/Star Market in Chestnut Hill and Whole Foods in Dedham; and a combined heat and power system fueled by biogas from anaerobic digestion for the City of Pittsfield's wastewater treatment plant. (More details below.) Awards for feasibility studies are expected to be announced in the next several weeks.

The Governing Board also authorized the second \$17 million block of funding for the Commonwealth Solar program, which has already led to 4.6 megawatts of renewable energy capacity through rebates awarded to 421 homeowners, businesses, and institutions across Massachusetts.

Governor Deval Patrick launched the Commonwealth Solar program in January 2008 with an initial allocation of \$17 million, the first of four \$17 million blocks totaling \$68 million through 2011. Due to tremendous consumer demand, the Commonwealth Solar program is well ahead of schedule in awarding rebates for solar installations, with \$14.9 million committed to date. Funding for Commonwealth Solar comes from Trust and DOER's Alternative Compliance Payment fund, consisting of payments from electricity suppliers that are unable to meet their obligations under the Commonwealth's Renewable Portfolio Standard, which requires them to obtain a minimum percentage of electricity supplies from renewable sources.

"Commonwealth Solar has been a big success, and shows no sign of slowing down," said Trust Executive Director Carter Wall.

Recent changes in federal law provide significant additional tax credits for homeowners and businesses to install solar electric systems. By removing the \$2,000 cap on the Federal Investment Tax Credit for solar, the federal government has increased its support for residential solar installations. To ensure that the state's rebate program strikes the appropriate balance between federal and state incentives, the Governing Board approved adjustments in the Commonwealth Solar rebate structure that will take effect January 1, 2009. Specifically, rebates for residential projects will be reduced from \$2 per watt to \$1 per watt for base rebate, while adders for moderate home value and moderate income were adjusted to maintain rebates at levels similar to 2008 for the average homeowner. Combined with the changes in the federal tax code, most consumers should experience a net increase in funding support for solar projects in 2009, while the new rebate levels will allow Commonwealth Solar to assist more solar projects with available dollars.

Green Buildings & Infrastructure Award Recipients
Large Onsite Renewables Initiative Design & Construction Grants

Aquacultural Research Corporation	The Aquacultural Research Corporation (ARC) is a 39.7 acre shellfish cultivator and wholesaler situated adjacent to Cape Cod Bay in Dennis, Massachusetts. With a large electric demand, ARC intends to install a utility scale wind turbine, approximately 600 kW, to help offset electricity demand and rising energy costs, and for environmental benefit. Energy intensive shellfish production has been impinged in recent years because of high electricity costs. A utility scale wind turbine, using the abundant free wind resources that can provide for future energy needs, will ensure cost competitive shellfish production.
Building Type: <i>Shellfish culture and processing</i>	
Technology: <i>600 kW Wind Turbine</i>	
D&C Grant: <i>\$400000</i>	

Berkshire East Ski Resort	Berkshire East Ski Resort (BESR) is working with Sustainable Energy Developments, Inc. (SED) to design and construct a 600kW wind turbine on their property located in Charlemont, Massachusetts. Berkshire East Ski Resort is one of the leading destinations for skiers in Massachusetts and has been in operation since 1950. Because of the energy intensive nature of snow production, BESR uses a substantial amount of electricity. Berkshire East Ski Resort is strongly committed to this project and intends to complete construction before the resort opens for business in late 2009.
Building Type: <i>Ski Resort</i>	
Technology: <i>600 kW Wind Turbine</i>	
D&C Grant: <i>\$400000</i>	

L.P. Athol Corporation	The L.P. Athol Corporation, established in 1986 in Athol, Massachusetts, provides warehousing and facility rentals to non-profit organizations, light manufacturers, and industry service providers. L.P. Athol will work to increase the efficiency of the hydroelectric power onsite by installing new polyethylene trash racks, new trash-raking machines, and new automated electrical controls. These system additions will result in 107kW of incremental hydroelectric power generation at the facility.
Building Type: <i>Industrial and Commercial Facility</i>	
Technology: <i>Incremental hydroelectric – 107 kW</i>	
D&C Grant: <i>\$250000</i>	

Massachusetts Bay Transportation Authority – Kingston Station	The Massachusetts Bay Transportation Authority (MBTA) is working to install a 100kW wind turbine at the Kingston Commuter Rail Layover Facility in Kingston, MA. Because of recent fare increases, and a tightening of tax revenues, increasingly the MBTA is relying on non-operating revenue as a steady source of income. In the past two fiscal years, utility costs for operations have been highlighted as an increasing expense burden to the MBTA. A program of revenue enhancement and operating expense reduction through reliance on Wind Turbine generating facilities on MBTA property will serve as an important component in future stabilized operating budgets for the MBTA.
Building Type: <i>Commuter Rail Layover Facility</i>	
Technology: <i>100 kW Wind Turbine</i>	
D&C Grant: <i>\$225000</i>	

City of Pittsfield		<p>The City of Pittsfield intends to install a biogas CHP system at its wastewater treatment plant. The project will use skid-mounted microturbines for a total rating of 195 kW.</p> <p>Pittsfield's wastewater treatment plant already has an anaerobic digester and the biogas is currently being flared. The biogas will be used to generate electricity and heat to meet baseload demands at the site and reduce the environmental impact associated with flaring of the biogas. All the electricity produced will be used onsite and the waste heat will be recovered to heat the sludge being treated in the digester.</p>
Building Type:	<i>Wastewater Treatment Plant</i>	
Technology:	<i>Anaerobic Digestion/ Microturbine (195 kW)</i>	
D&C Grant:	<i>\$400,000</i>	

Shaw's – Star Market		<p>The new Shaw's Star Market, located in Chestnut Hill, Massachusetts, will be a full service supermarket primarily powered by the PureCell® Model 400 fuel cell. The fuel cell will convert reformed natural gas into hydrogen for a clean, efficient, and reliable power supply. The system will provide electricity for in-store use to displace purchases from the local utility and thermal energy in the form of chilled water and hot water. The chilled water will be used to supply refrigeration system sub-coolers, predominately for space conditioning and cold storage areas. The hot water produced will be used for space conditioning, desiccant regeneration, and for making domestic hot water.</p>
Building Type:	<i>Supermarket</i>	
Technology:	<i>400 kW Fuel Cell</i>	
D&C Grant:	<i>\$400000</i>	

Southworth Company		<p>The Southworth Company plans to redevelop a 576 kW hydroelectric system at its Turners Falls Mill located along the Connecticut River, in the Village of Turner Falls, Massachusetts. The hydroelectric power generation will assist the company in manufacturing its custom specialty papers and custom converted envelopes, which can be found in office products superstores, mass merchant chain stores, and commercial catalog distributors.</p>
Building Type:	<i>Industrial Facility</i>	
Technology:	<i>Hydroelectric - 576 kW</i>	
D&C Grant:	<i>\$400000</i>	

Upper Cape Regional Technical High School		<p>Upper Cape Tech is developing a 2 MW wind turbine at its 70-acre campus located in Bourne, Massachusetts. For more than thirty years, high school students and adults seeking continuing education from the towns of Bourne, Falmouth, Marion, Sandwich, and Wareham have turned to Upper Cape Tech for quality educational opportunities. The installation of a large scale wind turbine will be used to off set the school's electricity use of approximately 1,000 MWh. The project includes collaboration with several public entities, including the Bourne Recreation Department, the Massachusetts Maritime Academy and the U. S. Army Corp of Engineers, which seek to reduce their electrical costs.</p>
Building Type:	<i>Public School</i>	
Technology:	<i>2,000 kW Wind Turbine</i>	
D&C Grant:	<i>\$400000</i>	

<p align="center">Whole Foods Markets</p>	<p>A new Whole Foods Market, under development in Dedham, Massachusetts, plans to have the store powered by a PureCell® Model 400 kW fuel cell. The fuel cell will convert reformed natural gas into hydrogen for a clean, efficient, and reliable power supply. The fuel cell system is designed to provide electricity for in-store use to displace purchases from the local utility and thermal energy in the form of chilled water and hot water. The chilled water will be used for refrigeration system sub-cooling and for space conditioning. The hot water will be used for space conditioning, desiccant regeneration, and for producing domestic hot water.</p>
<p>Building Type: <i>Supermarket</i></p>	
<p>Technology: <i>400 kW Fuel Cell</i></p>	
<p>D&C Grant: <i>\$400000</i></p>	

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