

Appendix A: Press Releases and Speeches

GOVERNOR PATRICK SIGNS REGIONAL PACT TO REDUCE GREENHOUSE GAS EMISSIONS

Auction of emissions allowances will fund energy-saving programs to lower electricity bills and further reduce emissions

Boston- Thursday, January 18 - Governor Deval Patrick today signed the Regional Greenhouse Gas Initiative (RGGI), committing the Commonwealth of Massachusetts to a multi-state effort to reduce emissions of carbon dioxide and tackle global climate change.

At the signing, Governor Patrick also pledged to use the proceeds of the sale of emissions allowances to fund an aggressive program of energy savings for households and industry. In addition, he will prioritize the purchase of renewable energies for state agencies.

"Today, my Administration takes its first step to set Massachusetts on a new course toward a clean energy future," said Governor Patrick. "Joining this pact and using the auction proceeds to fund an aggressive new energy-efficiency and peak-management initiative will pay dividends in three ways: We curb our greenhouse gas emissions, we create new economic development opportunities and we cut our energy costs."

"Changes in the electricity market are creating new economic incentives for large scale energy efficiency initiatives and programs that cut electricity demand on peak days - the hottest days in the summer when lots of us are using air conditioners," said Secretary of Environmental Affairs Ian Bowles. "The Governor wants to use these incentives - along with those created by RGGI - to drive down greenhouse gas emissions, drive down electricity costs, drive up energy efficiency, and strengthen reliability of the power system."

The Regional Greenhouse Gas Initiative is an effort undertaken by Northeast states to develop a market-based system for reducing carbon dioxide (CO₂) emissions from power plants. On terms reached in December 2005, seven states - Connecticut, Delaware, Maine, New Hampshire, New Jersey, New York, and Vermont - signed a Memorandum of Understanding (MOU) to participate in the RGGI system. Massachusetts - which had been involved in the development of RGGI - declined to sign the agreement at that time, as did Rhode Island.

At a briefing with climate scientists and the CEOs of Bay State energy-technology companies held today at the University of Massachusetts-Boston, Governor Patrick heard about the rising threat of climate change and how technologies developed by Massachusetts entrepreneurs can combat global climate change, provide savings to electricity consumers, and create jobs at the same time.

Following the briefing, Governor Patrick signed the RGGI MOU on behalf of the Commonwealth, as well as letters to the governors of the other RGGI states announcing that Massachusetts had rejoined the regional effort.

"Climate change is one of the most pressing challenges of our time," said Governor Patrick. "On this day, we want everyone to know that Massachusetts will not stand on the sidelines."

"The challenge of climate change illustrates vividly the need to integrate energy and environmental policy," added Governor Patrick, who has begun a sweeping Cabinet reorganization that combines energy and environmental affairs agencies into a single secretariat.

Under RGGI, annual emissions of CO₂ in Massachusetts from power plants of 25MW and larger will be capped at approximately 26 million tons statewide from 2009 through 2014, then reduced incrementally by 2.5 percent per year for the next four years. Under this cap, each state is given "allowances" for its emissions. Electricity generators will need an allowance for each ton of CO₂ they emit. Each state has discretion as to the manner by which it distributes these allowances. It can allocate them to generators for free, based on their past role in the energy marketplace, sell them by auction, or do a combination of the two - except that RGGI stipulates that at least 25 percent of allowances be allocated "for a consumer benefit or strategic energy purpose."

Governor Patrick announced that Massachusetts will auction 100 percent of its allowances, and use the funds generated by those sales - an estimated \$25 million to \$125 million per year, depending on the market price of the allowances - to fund energy efficiency, demand reduction, renewable energy programs, and combined heat and power (CHP) projects, which use what is normally wasted heat from power generation for efficient heating or industrial applications. To maximize rate reduction, funds will be utilized for an aggressive program to manage peak demand for electricity, lowering electric bills for consumers across the board. Customers will have incentives to use technologies like automatic lighting and air conditioning controls that can help minimize peak-time usage. With programs like these, the ratepayer saves individually and the entire electricity system is less strained, so prices can be reduced system-wide. The result is a cheaper, more reliable electricity market.

In addition to signing the RGGI agreement, Governor Patrick announced another clean-energy initiative:

- **Purchasing renewable electricity for state agencies.** The state Division of Energy Resources (DOER) will issue a request for proposals to arrange for the procurement of renewable electricity, using \$17 million to cover the price differential between renewable and traditional energy. This program will leverage over \$50 million in power purchases and will meet a substantial portion of the electricity needs of five state agencies, representing approximately 15 percent of the electricity used by the Executive Branch (or five percent of all public agencies), over the next 12 years. The five state agencies are the Departments of Environmental Protection, Conservation and Recreation, and Fish and Game, along with MassHighway and the Registry of Motor Vehicles. The procurement plan will spur the development of renewable power plants in Massachusetts that utilize biomass, wind, and other renewable fuels.

"Massachusetts should become a global center for clean energy," said Governor Patrick. "Making Massachusetts a customer for clean energy products is just the beginning."

Finally, Governor Patrick also announced that Massachusetts would reengage with the Conference of New England Governors and Eastern Canadian Premiers, a cross-border regional organization of state

and provincial leaders. As a first step, Governor Patrick directed Secretary Bowles to attend the Conference's Ministerial Forum on Energy and Environment in Quebec City in February.

GOVERNOR PATRICK ANNOUNCES NEW MANUFACTURING PLANT FOR EVERGREEN SOLAR, PLAN TO BOOST CLEAN ENERGY, JOBS

Incentive and financing package, state policy commitments, and path-breaking alliance with utility make Massachusetts ripe for growth

BOSTON - Tuesday, April 17, 2007 - Governor Deval Patrick today announced that, with state assistance, Marlborough-based Evergreen Solar Inc. will build a manufacturing plant located in Westborough. This expansion will result in 350 to 375 new jobs - more than doubling Evergreen Solar's current Massachusetts employment.

"I've said all along, if Massachusetts can get clean energy technology right, the world will be our customer," said Governor Patrick. "Evergreen Solar is one of the companies that's going to help us get clean energy right. I am proud that my economic development and energy and environmental affairs teams were able to help Evergreen Solar grow and thrive right here in Massachusetts, and give us a head start toward building a clean energy economy."

Also key to the development of solar power as a clean energy source and an industry in Massachusetts is a first-in-the-nation partnership between a manufacturer of solar photovoltaic products and an electricity distribution utility announced today. Evergreen Solar and NSTAR have announced an alliance that will combine Evergreen Solar's photovoltaic technology with NSTAR's expertise, capabilities, and customer relationships for a new model of solar market development. Utilities National GRID and Western Massachusetts Electric have also entered into discussions about forming similar relationships with Evergreen Solar.

"We are most appreciative of Governor Patrick's efforts in creating the conditions that made sense for us to expand in the place where we got our start," said Richard Feldt, president and chief executive officer of Evergreen Solar. "Governor Patrick's vision for broad scale solar adoption through an innovative solar incentive program as well as the creative financial incentive programs the state had to offer influenced our decision to expand in Massachusetts. Finally, the Governor's efforts to encourage utilities to use their substantial infrastructure to improve solar market delivery should help us close the gap between solar and conventional energy costs."

"This program with Evergreen Solar will expand renewable energy choices for our customers by making solar installations more accessible and affordable," said Thomas J. May, NSTAR Chairman, President and CEO. "Customer interest in clean energy options is growing, and we are committed to offering them an increasing number of options to choose from."

Today's announcement at Evergreen Solar's Marlborough Science and Technology Center highlighted three key developments:

- Evergreen Solar's \$150 million manufacturing plant, to be built in Westborough, adjacent to the campus of the Massachusetts Technology Collaborative (MTC). A \$44 million financing package put together by the Massachusetts Office of Business Development includes \$23 million in grants to the company and its host community, \$17.5 million in low-interest loans from public and private entities, and \$3 million in savings from a low-cost 30-year lease of state-owned land.
- A first-in-the-nation alliance between a solar manufacturer and an electric utility, with NSTAR agreeing to help Evergreen Solar identify prospective solar customers and to provide its customers with information on solar power, along with referrals to reputable installers and potential sources of financing.
- A commitment by the Commonwealth to aggressive goals for installed solar power generating capacity - from roughly 2 MW today to 250 MW by the end of 2017 - by strategic use of renewable energy funds and new regulatory incentives for solar power adoption by residential, commercial, and industrial customers.

"Today marks a major step on the road to our clean energy future," said Governor Patrick. "I am proud to share this day, and this road, with my friends at Evergreen Solar and NSTAR."

GOVERNOR PATRICK LAUDS EXPANSION OF RENEWABLE ENERGY INDUSTRY AND STATE USE OF SOLAR AND WIND ENERGY

BOSTON- Monday, April 7, 2008 - Governor Deval Patrick today made two announcements relative to renewable energy in Massachusetts - a second phase of expansion by Marlboro-based Evergreen Solar at its manufacturing facility in Devens, and a year's worth of progress with state agencies adopting renewable energy under the Governor's "Leading By Example" Executive Order.

At a ceremony held at the Massachusetts Water Resources Authority's Deer Island wastewater treatment facility, Governor Patrick congratulated MWRA for its leadership on renewable energy, as demonstrated by the just-completed installation of a 100-kW array of solar panels - made by Evergreen Solar - and by its plans, announced for the first time today, to erect two 190-foot wind turbines at Deer Island as well.

"MWRA has been superlative in its efforts to use clean, renewable energy in its operations," said Governor Patrick. "With solar panels today, and wind turbines tomorrow - for all to see, as people fly in and out of Logan Airport - MWRA is truly leading by example as we create a clean energy economy for Massachusetts."

Evergreen Solar CEO Richard Feldt joined Governor Patrick at the event, and announced that his company will double the size of the manufacturing plant it has under construction in Devens, adding another 350 jobs. Evergreen chose Massachusetts for its first full-scale U.S. manufacturing facility over several other competing locations last year, due in part to a \$44 million state financing package and Governor Patrick's pledge to increase the amount of solar power installed statewide from 4 MW at that time to 250 MW by 2017.

As part of that commitment, the state launched Commonwealth Solar, a rebate program launched in January to help lower the cost of purchasing and installing solar electric power. The first Commonwealth Solar-supported installation was completed just one month later, and 43 applications have been accepted to date, for a total of 260 kW of solar capacity. Backed by \$68 million in existing renewable energy funds, the goal of Commonwealth Solar is installation of 27 MW of generating capacity over four years.

"With this expansion, we will have approximately 1,000 employees in Massachusetts in 2009 - triple our employee base today - and we will be one of the leading 'green' employers in the Commonwealth," said Feldt. "The vision for broad scale solar adoption, through Governor Patrick's innovative Commonwealth Solar incentive program plan for clean energy jobs as well as the financial incentive package that the Governor the Legislature provided Evergreen, were key to our decision to put our first major manufacturing facility in Massachusetts."

"Evergreen Solar is at the leading edge of our clean energy economy in Massachusetts," said Governor Patrick. "The expansion announced today demonstrates what we can accomplish when the Commonwealth works with industry leaders to create markets, jobs, and opportunities in clean energy technology, for the benefit of our economy and our environment."

"Massachusetts is making tremendous progress on solar, building both solar projects and solar jobs," said Paul Gromer, executive director of the Solar Energy Business Association of New England. "By putting solar on state buildings, the Commonwealth is setting an example for every building owner in Massachusetts to follow. And, with the recently announced Commonwealth Solar program, the state is providing the resources we need to follow that example. Thanks to Governor Patrick's support, solar is providing clean energy and green jobs for Massachusetts."

The Deer Island solar and wind projects come in response to Governor Patrick's Executive Order 484, "Leading By Example - Clean Energy and Efficient Buildings," issued April 18, 2007. That Executive Order sets ambitious standards for reduction of energy use and greenhouse gas emissions by state agencies, as well as increased use of renewable power - 15 percent of state government energy use by 2015, 30 percent by 2020.

The solar installation at Deer Island is one of 12 solar projects under way at state and community college campuses, the Soldiers Home in Chelsea, and Department of Correction facilities - all to be completed this summer. These projects alone will total a 20-percent increase in solar capacity statewide since January.

The Federal Aviation Administration gave preliminary approval for the two wind turbines on Deer Island March 7, issuing a determination of "no hazard to air navigation," which becomes final April 16 following a public comment period. MWRA will seek similar FAA determinations to allow three more turbines at Deer Island after the construction of these two windmills by late 2009. Solar panels will save MWRA an estimated \$10,500 in annual electricity purchases, while the two wind turbines will save the authority an estimated \$106,000 a year.

Other wind projects are in the works at state agencies, including Cape Cod Community College, Mount Wachusett Community College, the state prison at Gardner, and the Plymouth County House of Correction. In addition, a meteorological tower has been erected near the Blandford rest area on the Massachusetts Turnpike to gather data for a potential set of wind turbines at the Turnpike's highest elevation.

This activity is part of the commitment to clean and renewable energy shared by Governor Patrick, Senate President Therese Murray, and House Speaker Salvatore DiMasi. A comprehensive energy reform bill, promoting energy efficiency and renewable energy, has passed both houses of the Legislature and is now in conference committee. An Advanced Biofuels Task Force appointed by the three leaders is due to release its final report and recommendations in the coming weeks, supplementing their jointly backed biofuels bill now pending in the Legislature.

"Governor Patrick's announcements today accelerate the momentum of the clean energy cluster in the Commonwealth," said Secretary of Energy and Environmental Affairs Ian Bowles, who serves as chairman of the Massachusetts Water Resources Authority board of directors. "This is a shared priority for Governor Patrick, Speaker DiMasi, and Senate President Murray and the pending energy legislation will further build that momentum. That legislation will not only cut energy costs, but also make dramatic reforms to the energy market that clear the path for robust growth in both renewable energy installations and clean energy jobs in Massachusetts."

05.01.08 - Comprehensive Clean Energy Strategy

Governor Deval L. Patrick

Clean Energy Strategy Remarks to Greater Boston Chamber of Commerce

May 1, 2008

As Delivered

Good morning.

What I'd like to do this morning is offer some observations on the Commonwealth's economy, some of the steps we are taking to adjust in the short run, and at least one of the areas where I believe there is potential for significant long-term growth. And then we can have some conversation which is really the fun part.

We are connected to and influenced by national economic trends, of course, and the news on the national front is worrisome. There's no doubt about that. Employment has declined nationally for four straight months, and economists forecast a fifth straight month of job losses for April. Although the financial houses on Wall Street appear - at least for the time being- to be stabilizing, the shakeout from the credit meltdown continues to affect communities nationwide.

Now Massachusetts, at least so far, is holding her own, faring better than most parts of the country. At 4.4 percent, our unemployment rate remains below the national average, where it has been for nearly a year. Though we have lost ground in retail, and in construction and manufacturing, we are gaining in education, health care and high tech. Over the last three months, the Massachusetts economy added 3600 jobs, 4600 when you add in December, the 8th highest number of jobs added in the country, while the nation was loosing jobs - over 200,000. Yesterday, a University of Massachusetts study indicated that the state's economy grew five times faster than the national economy during this same period. State revenues have continued to run ahead of benchmark through April, for every month of this fiscal year so far.

Now all of that is a distinct change from the last two U.S. recessions, when the downturns hit us earlier and harder.

But still, no single state's economy is recession proof. If things get worse nationally, we will feel it here. And let's face it, if the job just cut is yours or the sales that are tanking are yours, the

relative strength of the Massachusetts economy is cold comfort.

Foreclosures topped 2,800 in the first three months of this year - more than double the first quarter of last year. Many, many of our fellow residents - maybe some of you in this room- are anxious about their circumstances today and in the near future.

Last month, with the help of the Speaker and the Senate President, I laid out a four-part plan to address some of our current and future economic needs and opportunities. That plan involved restraining discretionary state spending; accelerating investment in our infrastructure and people; positioning ourselves for long-term growth in a couple of key areas; and securing the safety net for vulnerable people and small businesses.

Since that address, I have implemented spending controls that will generate nearly \$200 million in savings. I've signed a \$3.5 billion transportation bond bill. I've developed with the Legislative Leadership and the Treasurer a means to finance the repair of hundreds of structurally deficient bridges. I've released \$1.4 million dollars in Workforce Training grants to train nearly two thousand workers in hospitals, banks, clean tech and manufacturing; and announced 4 of the 16 growth districts so called -- the ones in Chicopee, Haverhill, Weymouth and Worcester -- that will serve as regional economic engines and hubs for development planning.

As of today, homeowners are entitled to a 90-day "right-to-cure" mortgage delinquencies. The 90-day period acts as a mandate for lenders to try to restructure loans, a result that not only preserves homeownership for residents and avoids the destabilizing effect foreclosures have on entire neighborhoods, but also produces a continuing revenue stream for lenders.

We are implementing other measures - many of which were announced yesterday with the Attorney General - to help homeowners and communities struggling with foreclosures, and we are working with Congressman Frank and the others members of the congressional delegation on a more sweeping national response to the foreclosure issues.

Now there is more that we can and must do; but we are making progress.

The Life Sciences Package as Paul mentioned the Energy Packages have passed out of the House and Senate and will be on my desk soon. The Legislative Leaders have pledged both publicly and privately to enact the several pending bond bills before the end of the session. That will enable some \$16 billion of investment in our roads and bridges, in our public and affordable housing, in public colleges and universities, broadband expansion, beaches, parks and other recreational facilities.

Investing in our infrastructure and ourselves creates the foundation for the state's economic growth over the coming decade, and creates good jobs right now.

But I want to focus today on one permanent fact about our economic future. I am talking about energy. Here in Massachusetts I believe this presents both a challenge and an opportunity.

Today, crude oil is trading around \$115 a barrel. Gasoline as you know is at \$3.50 a gallon for regular at the pump. Diesel is at \$4.38 a gallon, a buck fifty higher than just a year ago. And those costs find their way into every single thing that we buy. Home heating oil recently hit \$4 a gallon, just six months after it broke the \$3 a gallon record. The average household in Massachusetts spent \$2,500 last year to heat their home with oil, up from \$1,800 the winter before. Now that average will be \$3,200 next winter - if, if the price of home heating oil doesn't go any higher than it is right now.

The rise in crude oil prices hasn't made its way fully into electricity costs yet, but it will. The price of electricity in Massachusetts generally tracks natural gas prices, and that is expected to rise significantly over the course of the year. When it does, we will see it in our electric bills. It effects every family, every individual, every business in this state.

And even if the volatility of oil and gas sources becomes less of a factor over time, demand is likely to continue to rise. The entry of China and India into the global economy as consumers is unlike any phenomenon in economic history. With no oil, coal or natural gas supplies of our own here in Massachusetts, we have always been at the end of the pipeline and at an economic disadvantage. High prices for fuel oils, for fossil fuels are likely to be with us for a very long time indeed.

Add to that the threat of global climate change and Massachusetts is very much at risk. In fact, it's affecting us in some respects already. With hundreds of miles of coastline threatened by sea level rise, many property/casualty insurers are already forecasting catastrophic events as a basis for exorbitant increases in home insurance premiums.

I believe the age of fossil fuels is coming to end - and that the age of clean energy will follow.

And I really believe we must think of this as a shift in age, not merely a shift in resource. The Stone Age didn't end, as someone said, because we ran out of stone; it ended because humankind had a better idea. Clean energy is a better idea - better for our pocketbooks, better for the planet, and better for our economy, as well.

Massachusetts has what it takes to lead a clean energy economy -- because in the age of clean

power, will be power not from fossil fuels, but from technology, innovation and skill. Those are resources we have in abundance - here in Massachusetts and they are infinitely renewable.

Speaker DiMasi was among the first on Beacon Hill to recognize this and to act on it. He filed a comprehensive energy reform bill last year. Secretary Ian Bowles and I have been working hard, hand-in-hand with the Speaker, Chairman Dempsey on the House side, and Senate President Murray and Chairman Morrissey on the Senate side, to craft a piece of legislation that will put Massachusetts at the forefront of energy innovation. It comes just as the Nation, at long last, is awakening to the need for it. And this is very, very good news.

This legislation will unleash energy efficiency - the cleanest energy of all, and the ultimate defense against rising energy prices. For years, we've given electric utilities a fixed amount of ratepayer funds - \$125 million a year - to spend on energy efficiency upgrades - and not a penny more, no matter how much more we could save by consuming less. The pending energy bill will require electric utilities to obtain any and all energy efficiency whatever costs less. or whenever it costs less than power generation. That means the utility will work with you in your homes, and offices and factories on lighting, appliances, insulation, and other tactics to deliver your energy needs through greater efficiency rather than simply by generating more power. And it will be done not as an add-on to your utility bill, but as an integral part of the way your utility company meets your energy needs.

It will work this way: when your electric utility - NStar, National Grid, or any other - looks at how much electricity it's going to need to buy to meet the demands of its customers, it will become required to identify all the cost-effective opportunities available to save electricity. That means replacing lighting, air conditioning, and industrial equipment with more efficient models through customer incentives that cost the utility less than it would to contract for the same amount of electricity from power plants.

Giving you the tools to take charge of your energy use will be good news for controlling costs and good news for clean energy.

The legislation will also require utilities to enter into long-term contracts for renewable energy. That means that renewable power developers will have a more stable basis on which to get financing for their projects. The bill's "net metering" provisions will make it easier for people who own smaller scale solar, wind or distributed power to sell their extra power back into the grid at a favorable rate. And it will integrate our state building code with the standards of the International Energy Conservation Code, keeping Massachusetts at the forefront of energy efficiency in new buildings.

Energy efficiency is a real thing; this is not some abstract concept. I want to tell you why; give you an example. Crane & Co., a venerable company in Western Massachusetts, has been making fine paper products, including the specialized paper used for currency, for more than 200 years. On a visit to their Dalton facilities, I learned they were groaning under the weight of their energy costs. Phil Giudice, our Commissioner of the Division of Energy Resources - is Phil here? There is Phil. You should stand up Phil because everybody's gunna' want to know you. Commissioner Giudice went out to see Crane and he led one of our new Commonwealth Energy Resource Teams - the SWAT teams of professionals from various state agencies, all focused on solving energy challenges for industry. The Industrial Assessment Center at UMass-Amherst conducted a full energy audit. Crane Paper has decided to implement all but one of the efficiency measures recommended. Here's the punch line: that implementation will save them \$600,000 a year. \$600,000 a year.

We all stand to gain from energy efficiency, by learning to manage energy the same way we manage other kinds of consumption.

Under the new energy legislation, this will become easier to do. The utilities and independent energy services companies will be coming to you, looking for ways to improve your energy efficiency - at your company, or at home - saving you money, and saving all of us by reducing electricity demand overall. It's all about meeting the energy needs in the smartest, cheapest, and most environmentally sensitive way.

When efficiency competes with generation by the way on the basis of cost, efficiency generally wins. ISO New England, which operates our power grid, recently held its first auction of the Forward Capacity Market, accepting bids for ways to meet future electricity needs. Two-thirds of the awards in that auction went to demand-management resources (translation: efficiency applications); only one third to new generating resources.

Besides saving money, energy efficiency represents an economic growth opportunity. It means jobs for people who remove old light fixtures and install new ones, folks who replace old furnaces and air conditioners, and swap out old motors with new variable frequency ones - even people who go door to door, replacing incandescent light bulbs with compact fluorescents today, or light-emitting diodes tomorrow.

Energy efficiency is just one part of the clean energy economy of the future. And the energy legislation is just one of the ways that state government is leveraging Massachusetts's strengths in basic and applied research, venture capital, and technology innovation. We are already growing the clean tech sector in Massachusetts and you know about that.

Take solar power. Evergreen Solar - and I saw Rick Fedt here earlier today. Where are you Rick? Here is Rick, the Chairman and CEO of Evergreen Solar headquarters in Marlboro, building its first full-scale U.S. manufacturing operation in Devens right now. By next year, Evergreen will have tripled its Massachusetts workforce, up to 1,000 workers in just two years.

Now Evergreen is expanding here, not just because we were able to offer a package of incentives that was competitive with several other states. What made the difference was the commitment we are making to grow the market for solar photovoltaic energy

To that end, in January, we launched Commonwealth Solar, a rebate program that uses existing renewable energy funds to defray the cost of solar installations. The program offers rebates of up to 60 percent of the cost for homeowners, and up to 40 percent for businesses - up to \$1 million for a large commercial installation. In just three months of operation, Commonwealth Solar has approved nearly 60 applications, for rebates totaling more than \$1 million and 350 kilowatts in generating capacity.

Clean energy technology creates jobs, too, and not just in the lab. One of the biggest boosters of solar and wind energy in Massachusetts is Marty Aikens of IBEW Local 103 - the proud owners of the wind mill and rooftop solar panels you see as you drive - where are you Marty are you here? Marty stand up. (applause) - you down the Southeast Expressway and you see the windmill and the solar installation on their roof that is Marty's doing. Where environmentalists see carbon-free energy, Marty sees jobs for electricians installing solar panels and assembling wind turbines and the beauty of that is they're both right.

The point is: green-collar jobs come in shades of both blue and white. Over the last few years, our state colleges, community colleges and 40 Vocational Technical High Schools have begun to develop clean energy technology training programs. YouthBuild is including green building techniques in their training of at-risk youth in construction trades. The clean energy sector in Massachusetts employs more than 14,000 people right now today, and is growing fast. Graduates of these programs will be in high demand.

Now Dan Leary needs that talent. Where's Dan? You here Dan? There's Dan Leary. I'm gunna tell you about Dan Leary. Dan was a student at the Isenberg School of Management at UMass-Amherst when he was called to serve his country in the Army. While leading a unit in Kuwait, Captain Leary worked on his master's thesis in his spare time. That thesis was a business plan for a solar power delivery company.

He finished his tour of duty, finished his thesis, and - with the help of a grant from the Renewable Energy Trust - he started a company called Nexamp. At first Nexamp was Dan, his laptop and his

pickup truck. But in two years, Nexamp has become a 12-person operation, most of them fellow veterans - if I understand it correctly - and located in North Andover. Dan is looking to add 5 more jobs by the end of the summer. And good for you Dan. Keep it up. (Applause) Did you bring business cards today by the way? That's the way. Solar power is just one of the clean energy technologies where Massachusetts can use our expertise to solve our own energy problems -- and then show the world how to solve theirs as well.

Wind power is another. Wind is the fastest-growing power generation source on the planet right now. For a time, thanks to the vigor of opposition to Cape Wind, Massachusetts was regarded as hostile to wind power. In fact, there are thoughtful concerns raised in opposition to that project; but I believe on balance Cape Wind is good for Massachusetts, both practically and symbolically. The project has received state environmental approval and is moving toward a final decision from federal authorities. Before too long, I believe, the first offshore wind farm in America will be located just off the coast of Massachusetts, a powerful statement of our commitment to a clean energy future.

There are other promising developments in wind technology that you should know about as well. Last year, we were chosen, we in Massachusetts were chosen by the federal Department of Energy as the location for one of just two Wind Technology Testing Centers in the country. That means we'll be soon testing wind blades in Charlestown for projects everywhere. Hull has two turbines generating its municipal electricity needs today. And the MWRA will erect two wind mills soon to help meet its needs -- at the same time symbolizing for every traveler landing at Logan that we aim to become the world's hub for clean energy innovation.

The Oceans bill, which the Senate President has championed, is a further component of our energy strategy. This legislation will make Massachusetts the first state in the nation to have a comprehensive management plan for our state waters, including identification of sites appropriate for renewable energy development. That means balanced, thoughtful planning that allows for development of offshore wind, wave and tidal power generation - leadership not just among states, but a model for federal waters as well.

Biofuels represents another opportunity for Massachusetts. Now you may have read concerns about bio around the country and the world about the unintended consequences of biofuels made from corn and from soy, particularly their impact on food prices and the energy used and emissions generated by making the stuff. Well, Massachusetts researchers and companies are at the forefront of the next generation of biofuels, which come from the cellulose that's found in non-food sources like wood, agricultural wastes, and switchgrass. Indeed, researchers at UMass Amherst have discovered what they call the QMicrobe, bacteria that convert cellulose to ethanol

in a single step - a transformational breakthrough.

We need to encourage the commercialization of these breakthroughs. So, the Speaker, the Senate President and I are working on a bill to exempt cellulosic biofuel from the state's gasoline tax. That measure will provide stimulus for Massachusetts companies like Mascoma and SunEthanol - SunEthanol is the company that's based on that UMass-Amherst research I mentioned - to bring their products to market.

Long-term support for advanced fuel and vehicle technologies will come from the Low Carbon Fuel Standard the Senate President, Speaker and I have agreed to develop as well. We would be the first state after California to create such a standard. But frankly, given our relative geographic size and our footprint, this policy would be much, much more effective on a regional basis, where it can match our regional distribution system and take advantage of economies of scale.

So, I am reaching out to the Northeast states who, like the Commonwealth, are members of the Regional Greenhouse Gas Initiative, to ask them to work with us on this mechanism for. Indeed, I believe that New England Governors can develop a common agenda to reduce emissions from vehicle fuels and in the process make New England the most energy-efficient region in the country. And we've even launched a New England Clean Energy Council to foster collaboration within the sector.

So the idea is a simple one: if Massachusetts gets clean energy right, the whole world will be our customer. And today, I can tell you, we are well on our way, thanks to the incredible technological and entrepreneurial talent we have already here in our great Commonwealth, and thanks to a set of policy leaders in state government who share this vision, and are willing to work shoulder to shoulder to pursue it. Like I said, the age of fossil fuels is passing. If we act now, the age of clean energy is ours.

Thanks for having me I appreciate it.

Governor Patrick Signs Law Creating First-in-the-Nation Oceans Management Plan Balancing Preservation, Uses

BOSTON- Wednesday, May 28, 2008- Governor Deval Patrick, with the support of House Speaker Salvatore F. DiMasi and Senate President Therese Murray, today signed the Oceans Act of 2008, legislation that will require Massachusetts to develop a first-in-the-nation comprehensive plan to manage development in its state waters, balancing natural resource preservation with traditional and new uses, including renewable energy.

"This legislation will make Massachusetts the first state in the nation to create a comprehensive plan for the management of its ocean waters," said Governor Patrick. "This law will help protect our vital natural resources and balance traditional with new ones, such as renewable energy, that are also important to our future."

Governor Patrick signed the bill at the New England Aquarium.

"This is significant, one-of-a-kind legislation that sets specific guidelines for development projects in our state waters and provides safeguards for the health and preservation of our ocean," Senate President Murray (D-Plymouth) said. "We have well-established laws for the use of our land, and now we will have the necessary framework and process in place for the management of one of the Commonwealth's greatest assets - our ocean. I congratulate Senator Robert O'Leary and the rest of the Senate for initiating this proposal and seeing it through the Legislative process, and I also thank the House of Representatives and the Governor for seeing the merits of this legislation. The Commonwealth will be a better place because of it."

"This legislation will help more effectively manage our most abundant and precious natural resource: our ocean waters," said Speaker DiMasi. "Through this law, Massachusetts will create a framework to balance the competing interests in our oceans, putting in place regulations to govern oceans and creating a new avenue for viable renewable energy production in our Commonwealth. I commend Senate President Murray, Governor Patrick, and Secretary Bowles on their dedication to and collaboration on this legislation."

In 2003, the Pew Commission on Oceans and the US Commission on Ocean Policy issued reports calling for significant reform of state and federal policy on management of ocean waters off the US coast. At the same time, Massachusetts launched an Ocean Management Task Force that similarly targeted state regulation as inadequate to the challenge of balancing competing uses of state waters and resource

preservation.

"With this bill, Massachusetts has become a leader in ocean policy in this country," said Leon Panetta, former White House Chief of Staff, chair of the Pew Oceans Commission, and co-chair of the Joint Ocean Commission Initiative. "The political leaders in the state really deserve strong recognition for taking the initiative and passing this unprecedented ocean management legislation."

The Oceans Act requires the Secretary of Energy and Environmental Affairs to develop a comprehensive ocean management plan, following a scientific and stakeholder process leading to a draft plan by summer of 2009. The legislation sets a deadline of December 31, 2009, for final promulgation of the ocean plan.

Upon final adoption, the ocean plan will be incorporated into the existing coastal zone management plan and enforced through the state's regulatory and permitting processes, including the Massachusetts Environmental Policy Act (MEPA) and Chapter 91, the state's waterways law.

The new law stipulates:

Comprehensive Management of Natural Resources: This bill requires, for the first time in any state, comprehensive science-based planning of the Commonwealth's ocean waters to assure long-term protection and sustainable use of a resource that has been the historical bedrock of Massachusetts industry and culture.

Ocean Advisory Commission: The bill creates a 17-member ocean advisory commission to provide advice to the Secretary as the Executive Office of Energy and Environmental Affairs develops the plan. The commission is comprised of 17 members, including state representatives, state senators, 3 agency heads, 1 representative of a commercial fishing organization; 1 representative of an environmental organization; 1 representative who has expertise in the development of offshore renewable energy; and 1 representative each from the Cape Cod Commission, the Martha's Vineyard Commission, the Merrimack Valley Planning Commission, the Metropolitan Area Planning Council, and the Southeast Regional Planning and Economic Development District. The Governor appoints the eight nongovernmental seats.

Ocean Science Advisory Council: The Secretary will also receive assistance from an ocean science advisory council, comprised of nine scientists who have expertise in marine sciences and data management.

DMF Jurisdiction: The jurisdiction of the division of marine fisheries is not altered by the ocean plan - the legislation is explicit in stating that the oceans plan is not intended to alter fisheries policy.

Appropriately Scaled Renewables: The bill amends section 15 of the Ocean Sanctuaries Act to allow

for the siting of "appropriate scale" offshore renewable energy facilities in state waters except for the Cape Cod Ocean Sanctuary (offshore from the Cape Cod National Seashore on the Outer Cape) provided that the facility is consistent with the ocean plan.

The Oceans Bill has been pending in the Legislature since 2004, this year winning approval from the Senate, the House, and the Patrick Administration to become law. The Senate passed a version of the bill in September, and the House approved its version in February. A consensus draft of the bill was enacted by the Senate May 15 and the House May 22.

"The Oceans Act gives Massachusetts an unprecedented opportunity to manage its offshore assets to maximum effect, preserving its irreplaceable resources and making optimal use of those that are renewable," said Secretary Ian Bowles. "When we make best use of our state waters, we will all be better off."

Governor Patrick Signs Energy Bill Promoting Cost Savings, Renewable and Clean Energy Technology

Legislation will hold down electric bills, promote the development of renewable energy, and stimulate the clean energy industry

BOSTON - Wednesday, July 2, 2008 - Governor Deval Patrick today signed the Green Communities Act, a comprehensive energy reform bill resulting from close collaboration with House Speaker Salvatore DiMasi, who filed the bill in 2007, and Senate President Therese Murray, who led the Senate to pass its version in January.

"Today, Massachusetts has taken a giant step forward toward a clean energy future," said Governor Deval Patrick, who signed the bill at a ceremony at the Museum of Science. "This legislation will reduce electric bills, promote the development of renewable energy, and stimulate the clean energy industry that is taking root here in the Commonwealth."

"This new law puts Massachusetts in the lead nationally in crafting bold, comprehensive energy reform," said House Speaker Salvatore F. DiMasi. "This law will spark a significant increase in the use of renewable energy that will significantly curtail our use of fossil fuels, improve our environment and save us all money in the long run. Working together, we in the House, Senate and Patrick administration have much to be proud of."

"With the cost of energy skyrocketing, this legislation comes at a critical time and puts Massachusetts at the forefront of clean energy policies and the development of alternative fuel sources," Senate President Therese Murray said. "With this landmark legislation, the Commonwealth will tip the scales away from fossil fuels in favor of more efficient and affordable energy alternatives. Emerging technologies and conservation are major parts of this effort, and Massachusetts will lead the way."

Lower Energy Costs

Under the new law, the state will make energy efficiency programs compete in the market with traditional energy supply. Utility companies (NSTAR, National Grid, Western Mass. Electric, etc.) will be required to purchase all available energy efficiency improvements that cost less than it does to generate power, ultimately saving money on consumers' electricity bills.

Utility companies will offer rebates and other incentives for customers to upgrade lighting, air conditioning, and industrial equipment to more efficient models, whenever those incentives cost less than generating the electricity it would take to power their older, less-efficient equipment.

Existing efficiency programs have already shown savings at 3 cents per kilowatt-hour versus 9 cents for power generation. Customers who take advantage of these incentives will save money as they reduce

how much energy they use. The incentives will encourage more efficient energy use, lowering the overall demand on the system and reducing greenhouse gas emissions.

Promoting Renewable Energy

The Green Communities Act promotes renewable energy in a number of ways. The law requires utility companies to enter into 10- to 15-year contracts with renewable energy developers to help developers of clean energy technology obtain financing to build their projects. The agreements will target Massachusetts-based projects.

The law also makes it possible for people who own wind turbines and solar-generated power to sell their excess electricity into the grid ("net-metering") at favorable rates, for installations of up to 2 megawatts (up from 60 kilowatts currently).

The measure also authorizes utility companies to own solar electric installations they put on their customers' roofs - a practice that was previously prohibited - up to 50 MW apiece after two years. If utilities take full advantage of this new opportunity, it will poise Massachusetts to meet Governor Patrick's goal to harness 250 megawatts of installed solar power by 2017.

Making State and Municipal Power Greener

A new Green Communities program comes into effect under the new law, offering benefits to municipalities that make a commitment to efficiency and renewable energy. The state Division of Energy Resources, which is expanded and elevated into the Department of Energy Resources, will now include a Green Communities Division to provide technical and financial assistance to municipalities for energy efficiency and renewable energy efforts. The program will receive \$10 million in funding from a variety of sources, including emissions allowance trading programs, utility efficiency charges, alternative compliance payments generated by the Renewable Portfolio Standard, and the Renewable Energy Trust Fund.

In addition to these provisions, the new energy law doubles the rate of increase in the Renewable Portfolio Standard from 0.5 percent per year to 1 percent per year, with no cap. As a result, utilities and other electricity suppliers will be required to obtain renewable power equal to 4 percent of sales in 2009 - rising to 15 percent in 2020 and 25 percent in 2030, and more thereafter. In addition, the Massachusetts Renewable Energy Trust Fund, which is administered by the Massachusetts Technology Collaborative, comes under the direction of a new governing board chaired by the Commissioner of the Department of Energy Resources.

The law also requires the State Board of Building Regulations and Standards to adopt, as its minimum standard, the latest edition of the International Energy Conservation Code as part of the State Building Code. This will keep Massachusetts building standards at the highest international levels of energy efficiency.

The Green Communities Act gives final legislative approval to the Commonwealth's participation in the Regional Greenhouse Gas Initiative (RGGI). Substantially all of the emissions allowances issued under the program will be auctioned - in accordance with the policy announced by Governor Patrick in January 2007 - allowing the proceeds to go toward reimbursing municipalities that lose property tax receipts as a

result of RGGI mandates, funding Green Communities, providing no-interest loans for municipal energy efficiency projects, and promoting energy conservation.

"With this legislation, Massachusetts takes its rightful place as a national leader in energy reform and environmental protection," said Secretary of Energy and Environmental Affairs Ian Bowles. "This legislation will help businesses and residential consumers fight rising energy costs, reap the benefits of renewable energy, and grow our clean energy industry."

07.02.08 - Energy Bill Signing

Governor Deval L. Patrick

Energy Bill Signing

July 2, 2008

As Delivered

Speaker DiMasi, Senate President Murray, General Coakley, Congressman Delahunt, Secretary Bowles, our partners in state and local government, in all the quasis. Ladies and gentleman, boys and girls, I am here today to sign into law the best clean energy bill in America. [applause]

The Green Communities Act is a giant step forward toward a clean energy future and a safer environment for Massachusetts, for the United States, and for the whole world. It does so by unlocking the power of efficiency of renewable energy, and of clean energy technology.

Massachusetts, as many of you here know, has been among the nation's leaders in promoting energy efficiency for a long time now. But we have artificially capped our investment in efficiency, even though efficiency investments generally are a third as much, a third cheaper, than what it takes to create traditional electricity supply. From now on, conventional generation will have to compete with efficiency for our energy dollars.

In a number of ways, the act also promotes development of renewable power sources; it authorizes long term contracts for renewable energy producers, which stabilizes the markets and enables renewable energy entrepreneurs to raise the capital they need to expand the industry; it allows utilities to install solar panels in individual's homes, relieving homeowners of that costly upfront investment and expanding adoption of solar alternatives; and it gives residential and commercial owners maximum benefit from the solar and wind power that they install themselves by allowing them to sell excess energy back into the electric grid at a very good rate.

Fostering new energy sources and efficiency strategies means new technologies, new investments, new companies, and new jobs. Jobs in research, in high-tech engineering, as well as in manufacturing clean energy components, and installing and repairing new technologies. We are already working closely with our community colleges to create workforce training programs to meet those training needs.

And finally, this legislation affirms our participation in the regional greenhouse gas initiative, part of a strategy to sharply reduce greenhouse gas emissions, protect us from harmful health affects, and environmental degradation and better steward the natural world for generations to come.

In September, this Commonwealth will lead the nation's first auction of greenhouse gas emissions allowances. Climate change is the challenge of our time and with this legislation, we in Massachusetts are rising to meet that challenge.

I don't think anyone here has to be reminded that this legislation could not come at a more opportune time. Crude oil is over \$140 a barrel, more than twice the price of what it was just a year ago. Everyone, -- everyone -- is feeling that price at the pump and in our heating, cooling, and electricity bills. The Green Communities Act is the most sweeping overhaul of the way we make, buy, and use energy in more than a decade and it is right on time.

We have a lot of people to thank, none more so, and I say this with due respect to all of my other partners in government, but none more so than the Speaker of the House, Sal DiMasi. Speaker DiMasi was among the very first on Beacon Hill to recognize both our energy challenges and our energy opportunities. This bill reflects his vision and we would not be where we are without the leadership that he has shown from the start, and Sal I thank you for that.

I also want to commend and thank Senate President Murray who not only came to our side on this initiative but also broadened the agenda by pushing the Oceans Bill, which we signed just a few weeks ago. She recognized the comprehensive environmental stewardship meant addressing the power generation opportunities offshore as well as on land. The Oceans Bill is a part of a bigger energy and environmental picture that her vision and leadership made complete, and I thank you Senator Murray.

And in her constantly, consistently thoughtful way she reminds me not to forget it was Senator Bob O'Leary who has given us such leadership. [applause] Chairman Morrissey and Chairman Dempsey and their respective staff have been keen, diligent, imaginative, and totally engaged partners in every step of this work. It has been an absolute pleasure for all of us to work with them and I thank them and all the members of the legislature for delivering a really fine result. [applause]

And Secretary Bowles and his team have done an absolutely outstanding job. [applause] They have gotten it consistently right on both the substance and the process and I'm just so proud that you're on the team. Thank you.

Efficiency alternatives and foresight, these are the watchwords of our clean energy future. These will be the cornerstones for the next generation of technology innovation here and all around the world. Thanks to you, all of us here on this stage, all of you who have taken a part in this, Massachusetts will be out front. And that's exactly where we ought to be. I'm proud to be with you all, thank you.

Governor Patrick Signs Bills To Reduce Emissions And Boost Green Jobs

Global Warming Solutions Act and Green Jobs Act set nation-leading limits on greenhouse gases, spur growth of clean energy industry

BOSTON - Wednesday, August 13, 2008 - Governor Deval Patrick has signed two important bills further positioning Massachusetts as a leader in clean energy and environmental stewardship: the Green Jobs Act, which will support development of the clean energy technology industry that will move Massachusetts toward the green economy of the future, and the Global Warming Solutions Act, which will make Massachusetts a national leader in climate protection.

"This legislation builds on the energy, oceans, and biofuels bills passed this session - all positioning Massachusetts as the clear national leader in creating a clean energy economy," said Governor Patrick. "Massachusetts will lead the way in reducing the emissions that threaten the planet with climate change, and at the same time stimulate development of the technologies and the companies that will move us into the clean energy age of the future."

The Green Jobs Act will provide support for the growth of a clean energy technology industry, helping Massachusetts to meet goals for reducing greenhouse gas emissions. Backed by \$68 million in funding over five years (\$43 million from the FY07 surplus and \$5 million per year from the Massachusetts Renewable Energy Trust), this legislation gives initial authorization for \$5 million in RET funding next year as well as \$1 million each in for seed grants to companies, universities, and nonprofits; workforce development grants to state higher ed, vocational schools, and nonprofits; and low-income job training (Pathways Out of Poverty); plus \$100,000 for a study of the clean energy sector.

"Massachusetts is leading the way in comprehensive energy reform and all of this session's accomplishments - from Green Communities and advanced biofuels standards to global warming solutions and now green jobs incentives - make us the envy of the nation," said House Speaker Salvatore DiMasi, who sponsored the bill. "This law will help us create good-paying jobs in an already-thriving clean energy industry that can double or triple in size in the coming years because of our hard work."

"These initiatives show that Massachusetts is serious about the future of our environment and our economy," said Senate President Therese Murray. "Promoting our emerging clean-energy sector will create jobs and boost an industry that will work to reach the goals of the Global Warming Solutions Act. By focusing on these green-collar jobs, as well as the reduction of greenhouse gases and carbon dioxide emissions, we will help to ensure a healthier future for Massachusetts."

The Global Warming law requires the reduction of greenhouse gas emissions by 80 percent from 1990 levels by 2050, with a reduction of up to 25 percent by 2020. Gradual reduction of emissions levels will spur innovation and entrepreneurship in clean energy technologies across the economy. To facilitate the innovation and economic development necessary to meet those mandates, the Green Jobs Act will

support research-and-development, entrepreneurship, and workforce development in the clean-energy technology industry of the future.

"With passage of the most progressive global warming bill in the nation, Massachusetts has positioned itself as a leader in the clean and renewable energy sector, and secured its position in the emerging green economy," said Senator Marc Pacheco, chairman of the Senate Committee on Global Warming and Climate Change. "The Legislature's approval of the Global Warming Solutions Act was an historic moment that will revolutionize the Commonwealth's future economy by spurring job growth, sparking innovation, and protecting our environment for future generations. I'm extremely pleased that we were able to take swift action now. The cost of inaction was just too great."

The law will establish a statewide and regional registry of greenhouse gas emissions. The Department of Environmental Protection (MassDEP) will determine the baseline emissions level of 1990 and calculate the expected 2020 emissions levels if no new controls were imposed after January 1, 2009 (the "business as usual" level). The Secretary of Energy and Environmental Affairs will set a 2020 emissions limit between 10 percent and 25 percent below 1990 levels and adopt a plan for meeting that limit by January 1, 2011. The Secretary will also set 2030 and 2040 limits, leading up to the required 80 percent reduction by 2050.

These bills follow three other major pieces of legislation signed by Governor Patrick to move Massachusetts toward a clean energy future:

- **The Green Communities Act** remakes the electricity marketplace in Massachusetts to favor efficiency over additional power generation, saving energy and money for consumers, and to support the development and use of renewable energy by residents, businesses, and municipalities.
- **The Oceans Act**, which requires the development of a first-in-the-nation comprehensive management plan for Massachusetts's state waters, allows for the development of wind, wave, and tidal power as part of a plan that balances new and traditional uses with preservation of natural resources.
- **The Clean Energy Biofuels Act** gives preferential tax treatment to non-corn-based alternatives to ethanol, requires biofuel content in all the diesel and home heating fuel sold in the state, and proposes a new fuel standard for the region that will encourage a range of emissions-reducing technologies for cars and trucks.

"I congratulate Governor Patrick, Senate President Murray, and Speaker DiMasi on launching the most comprehensive and forward-thinking set of clean-energy policies in the nation," said Hemant Taneja, co-chairman of the New England Clean Energy Council. "The legislation passed this year not only serves as an example to the nation that the United States must take a leadership position in addressing climate change, it will also serve to spur the early development of a low-carbon energy technology industry in Massachusetts, setting it on a path to becoming a global leader in this rapidly growing multibillion-dollar industry."

GOVERNOR PATRICK SETS NEW GOALS FOR WIND POWER

Developing wind turbines to power 800,000 homes by 2020 will boost Massachusetts as clean energy leader

BOSTON- Tuesday, January 13, 2009 - Governor Deval Patrick today set a goal of developing 2,000 megawatts of wind power capacity - enough to power 800,000 Massachusetts homes - by 2020. Citing new mandates that require greater use of renewable energy and sharp reductions in greenhouse gas emissions, Massachusetts can only fulfill these obligations with a significant commitment to wind power.

"We have already made a commitment to reaching 250 megawatts of solar power in Massachusetts by 2017, and we are moving toward that goal. Now is the time to turn to wind power, where we should reach even higher," said Governor Patrick. "With the growing interest in wind turbines we see in communities across the Commonwealth and the abundant wind resource we have off our coast, wind power is going to be a centerpiece of the clean energy economy we are creating for Massachusetts."

Massachusetts has been selected by the U.S. Department of Energy for one of just two Wind Technology Testing Centers in the country, poising the Commonwealth to become a national center for wind power research and development, offering the economic rewards of technology development, entrepreneurship, and jobs.

In April 2007, Governor Patrick established a goal for installed solar power of 250 MW by 2017, up from 4 MW installed at the time he took office. That goal was set in part as a pledge to Evergreen Solar, which was then announcing its first US manufacturing facility now built and opened in Devens, to stimulate the market for solar panels in Massachusetts. In January 2008, Governor Patrick launched Commonwealth Solar, a program financed by existing renewable energy funds, which has since provided rebates for more than 400 installations representing 4.6 MW of solar power - nearly doubling the amount of installed solar power in a year - with another 300 projects for 3.5 MW applied for but not yet awarded as of December 31. The number of solar-power installation companies has also tripled, from 25 to 75, since the launch of Commonwealth Solar.

Governor Patrick has directed Energy and Environmental Affairs Ian Bowles to use the 2,000 MW wind goal, as well as the mandates and incentives provided in the historic package of clean energy legislation enacted last year, to guide the state's efforts to dramatically increase the development and deployment of clean, renewable wind power in the coming years.

There are currently nine wind turbines with capacity of 100 kilowatts or greater installed in Massachusetts, for total generating capacity of 6.6 megawatts (MW). But there are more than 300 wind turbines, representing generating capacity of 800 MW, at various stages of planning and permitting.

Legislation enacted last year contained provisions requiring greater use of renewable energy and encouraging its development and adoption. The Green Communities Act, a comprehensive energy reform

bill, accelerated the increase of renewable energy required of all electricity suppliers, rising from 4 percent of sales to 15 percent by 2020, and set a goal of 20 percent of all electricity coming from renewables by that time.

To spur the development and adoption of renewable energy, the Green Communities Act required utilities to enter into long-term contracts with the developers of renewable energy projects, in order to help them obtain financing, and improved the economics of smaller renewable energy installations by allowing owners to sell their excess power into the electric grid at favorable rates.

"The Green Communities Act smoothed the way for wind turbines with new incentives, and municipalities around the Commonwealth are lining up to bring wind power to their communities," said Secretary Bowles. "We are going to do everything we can to help them, and create a vibrant wind power industry at the same time."

Recognizing that siting is frequently an obstacle to renewable energy development, the Green Communities Act created an energy facilities siting commission to review, in part, "whether current laws and regulations do not adequately facilitate the siting of renewable and alternative energy facilities" to propose changes. That commission is now meeting, and is expected to make recommendations this spring.

Under the Oceans Act, the comprehensive ocean management plan now under development and required to be completed by the end of 2009 is expected to identify locations in state waters other than the Cape Cod Ocean Sanctuary, off the coast of the national seashore, for potential development of "appropriate-scale renewable energy facilities." And a study of the potential for renewable power development on state-owned lands mandated by the Green Jobs Act is due February 1.

In addition, the climate bill enacted last year, the Global Warming Solutions Act, requires the Commonwealth to reduce emissions of greenhouse gases 80 percent by 2050, and up to 25 percent by 2020.

Installing wind capacity of 2,000 MW would meet an estimated 10 percent of the state's current electric load with clean, renewable wind power. And by displacing electricity generated by fossil fuels, use of wind turbines on this scale would reduce greenhouse gas emissions by 3.1 million tons, or roughly 12 percent of emissions from power plants today.

"First Wind applauds Governor Patrick's efforts to make wind energy a priority in Massachusetts," said Paul Gaynor, President and CEO of First Wind. "First Wind is proud to be a Massachusetts company in large part due to leadership that the Governor, Secretary Bowles, and the Legislature have shown in making the Commonwealth a nurturing environment for the development of alternative energies, notably wind power."

Governor Patrick Joins Legislative Leaders to Celebrate Launch of Green Communities Program

Initiative will help municipalities pursue clean energy projects, make best use of federal stimulus funds for savings

BOSTON- Wednesday, April 22, 2009 - Governor Deval Patrick today joined legislative leaders on Earth Day to announce the launch of the Green Communities Program, which will help municipalities across Massachusetts cut energy bills through greater efficiency and locally generated renewable power.

The Green Communities Program is a component of Governor Patrick's [Massachusetts Recovery Plan](#), making information and technical assistance available for communities to help them prepare for and make the most of federal recovery funds targeted for energy investments.

"Coupled with federal recovery funds for energy efficiency and renewable power, the Green Communities Program will help communities across Massachusetts reduce costs, spur economic activity, and strengthen our collective commitment to a clean energy future," said Governor Patrick.

"Going 'green' is both an economically and environmentally sound path for cities and towns across the Commonwealth. By providing the tools to help cities and towns reach this goal, it is not just individual communities, but the entire Commonwealth that will benefit now and for generations to come," said Senate President Therese Murray. "In addition to improving our communities, this gives an extra boost to the new green collar job sector that is increasingly in demand across the Commonwealth."

"This initiative will help communities on the local level meet their environmental goals," said House Speaker Robert DeLeo. "I am also hopeful this program will provide our cities and towns with more tools as they seek federal recovery funds for energy efficiency programs."

Created by the Green Communities Act - the pioneering energy reform law enacted last year - the Green Communities Program at the Department of Energy Resources (DOER) will support local efforts that further ambitious clean energy goals shared by the Governor and legislative leaders. Envisioned as a way to encourage municipalities to make greener energy decisions, the Green Communities Program is mandated to offer grant and loan opportunities to municipalities in order to be designated as "green communities."

Types of assistance offered by the Green Communities Program will include helping communities qualify for state funding by adopting local by-laws and regulations that facilitate the siting and permitting of renewable energy facilities, benchmarking municipal energy use and reducing energy consumption, purchasing fuel-efficient vehicles for municipal fleets, and taking steps to reduce lifecycle energy costs for new commercial, industrial and residential buildings. The Act allows funding of \$10 million per year from the proceeds of Regional Greenhouse Gas Initiative allowance auctions for the program.

Federal funding from the American Recovery and Reinvestment Act (ARRA) includes \$42 million in Energy Efficiency and Conservation Block Grants to fund efficiency and renewable energy investments by municipalities. The Green Communities Program is now in the process of assigning four regional coordinators who will provide communities around the state with technical assistance on becoming Green Communities and on making choices about energy investments with federal funds.

"The Green Communities Program is poised to fulfill a vision that is shared by Governor Patrick and the Legislature: a one-stop shop for municipalities seeking to make the most of the clean energy opportunities available to them," said Energy and Environmental Affairs Secretary Ian Bowles. "This program will serve as a national model for community mobilization to accelerate the transition to a clean energy future."

"Now open for business, the Green Communities Program stands ready to help cities and towns across the Commonwealth make energy choices that save them money and create a greener energy future for all of us," said DOER Commissioner Philip Giudice. "We look forward to working with communities from Cape Cod to the Berkshires."

Clean energy investments are critical components of Governor Patrick's [Massachusetts Recovery Plan](#), which combines state, federal and, where possible, private efforts to provide immediate and long-term relief and position the Commonwealth for recovery in the following ways:

- **Deliver immediate relief** by investing in the road, bridge and rail projects that put people to work today and providing safety net services that sustain people who are especially vulnerable during an economic crisis;
- **Build a better tomorrow** through education and infrastructure investments that strengthen our economic competitiveness, prepare workers for the jobs of the future and support clean energy, broadband and technology projects that cut costs while growing the economy; and
- **Reform state government** by eliminating the pension and ethics loopholes that discredit the work of government and revitalize the transportation networks that have suffered from decades of neglect and inaction.

For more information about Green Communities Program, visit <http://www.mass.gov/energy/greencommunities>.

Patrick-Murray Administration Offers Tools to Help Strengthen Communities

Municipal pension relief, budget tools, Green Communities Grants presented at Massachusetts Municipal Association Meeting

BOSTON - Friday, January 22, 2010 - One day after proposing to fully fund Chapter 70 education funding next fiscal year and to hold the line on Local Aid, Governor Deval Patrick today offered cities and towns a host of new tools that will help protect essential local services, reduce pressure on local property taxes and strengthen communities' financial footing for the long-term.

Appearing at the Massachusetts Municipal Association Annual Meeting, Governor Patrick outlined proposals including municipal pension relief, a limited early retirement incentive program and a new Green Communities grant program to encourage development of energy efficiency and renewable energy projects to relieve local budgets. The new proposals are in addition to several tools the Governor and local officials have worked to secure for communities over the last several years.

"The Lieutenant Governor and I value the partnership we have built with local officials across the Commonwealth," said Governor Patrick. "This relationship has allowed us to work collaboratively to bring real change to the way local government provides for the residents of the Commonwealth. The tools we introduce today, coupled with the changes we have already made, will allow us to provide key services in communities today, while reducing local pressure on the property tax."

In his State of the Commonwealth address last night, Governor Patrick announced that he is including in his Fiscal Year 2011 budget \$5.2 billion in Local Aid, including a record \$4.048 billion for Chapter 70 education funding, fully funding foundation for every district. In addition, school districts that would have otherwise seen a cut as a result of the funding formula will instead be level funded. Unrestricted local government aid will be level funded at \$936 million.

"During the past three years, Governor Patrick and I have traveled across the Commonwealth, listened to the challenges our cities and towns face and partnered with local officials to address these challenges and support our municipalities," said Lieutenant Governor Timothy Murray. "Even in these extremely difficult times, we have committed to continuing our support of communities across Massachusetts and look forward to working with city and town officials to develop the tools necessary to manage limited resources more efficiently and improve critical local services."

Local Pension Relief

Recent unprecedented market losses incurred by local pension funds will result in significant increases in the annual pension payments required to fully fund the systems on existing funding schedules. This presents a significant challenge at a time when local government resources are more constrained than ever.

The Governor today filed a municipal pension funding relief plan to help local pension systems address these losses in a fiscally responsible and manageable way without the significant increases in payments that would otherwise be required. The legislation allows local systems to extend their funding schedule subject to certain conditions, and requires that future asset gains be used to shorten schedules, not reduce payments.

The legislation filed today is in addition to the first phase of comprehensive pension reform the Governor and legislative leaders enacted last year that eliminates some of the most egregious abuses of the system. The Governor will soon file the second phase of pension reform. The improvements in this bill will help ensure that our pension systems are fair, sustainable and publicly credible. This is in the best interest of taxpayers, government and public employees.

Municipal Early Retirement Plan

The Governor today sent a letter to the Committee on Municipalities requesting it include additional proposals in a municipal relief package the committee is expected to report out shortly.

Among the Governor's new proposals is an optional Early Retirement Incentive program for cities and towns. The proposal is structured in a restrictive manner to ensure that desired near-term savings exceed the present value cost to the pension system while still giving city and town managers sufficient flexibility to structure the program in a manner that avoids adverse operating impacts. By making this program available at local option, it will give cities and towns the flexibility to determine for themselves whether this tool is appropriate for their community.

Under the terms of the plan, eligible employees must have at least 20 years of service and must be paid out of the municipality's operating budget. The number of participating employees shall be limited, with a strong consideration for the impact on municipal services and programs. Eligible employees would receive a maximum of three years of additional age or creditable service, or a combination of the two, the sum of which may not be greater than three.

Other tools include:

- Allowing regional school districts to share superintendents, providing savings and efficiencies, and
- Streamlined procedures allowing regional school districts greater access to their stabilization funds, assisting regional districts in coping with continued budget challenges.

The Governor is also proposing a study commission to perform a comprehensive evaluation of local aid formulas. Additionally, he is including \$250,000 in the FY11 budget he will release next week to support the technical work of a Chapter 70 commission to review the foundation formula for education funding.

Also in the budget, the Governor will propose freezing special education private placement rates; relief from library "maintenance of effort" requirements and decertification rules; and authorization for local government to procure energy from state energy resource contracts.

Green Communities Grant Program

In addition to the tools the Governor outlined today, he also announced that the first round of Green Communities Grants will be available this fiscal year to help finance municipal energy efficiency and renewable power projects in eligible communities.

The new Green Communities Grants are funded with proceeds from auctions of carbon emissions permits under the Regional Greenhouse Gas Initiative (RGGI). Following a two-step application process, during which cities and towns must first apply for designation as Green Communities, the state's Department of Energy Resources (DOER) plans to make the first round of up to \$7 million in Green Community Grant awards in late June. Qualified communities will be eligible for awards of up to \$1 million each during the initial grant round.

"Green Communities Grants will help cities and towns finance targeted investments in energy efficiency and locally generated renewable power. We look forward to funding a robust first round of projects that capitalize on green energy opportunities, save taxpayers money and reduce environmental impacts in local communities," said Energy and Environmental Affairs Secretary Ian Bowles, whose office includes the DOER.

As a first step in the grant process, DOER will take applications between January 22 and May 14 from cities and towns seeking official Green Community status. Technical assistance grants awarded by the DOER last year have helped cities and towns prepare to meet the five grant eligibility benchmarks set by the Green Communities Act. To qualify, municipalities must meet these five criteria:

- Adopt local zoning bylaw or ordinance that allows "as-of-right-siting" of renewable energy projects;
- Adopt an expedited permitting process related to the as-of-right facilities;
- Establish a municipal energy use baseline and establish a program designed to reduce baseline use by 20 percent within five years;
- Purchase only fuel-efficient vehicles for municipal use, whenever such vehicles are commercially available and practicable; and
- Require all new residential construction over 3,000 square feet and all new commercial and industrial real estate construction to reduce lifecycle energy costs (i.e., adoption of an energy-saving building "stretch code").

While to date none of the Commonwealth's 351 cities and towns has met all five criteria for Green Community designation, DOER's Green Communities Division has worked closely with municipalities across the state for the past year and it is expected that several may be able to fulfill the requirements between now and the end of the traditional Town Meeting season this spring.

Newton and Cambridge have already adopted the stretch code and it will be on the Town Meeting warrant of at least four towns this spring. Once cities and towns are designated Green Communities, they are eligible to apply for Green Communities Grants, with applications due to the DOER at the end of May and awards anticipated in late June.

Since taking office, Governor Patrick and Lieutenant Governor Murray have partnered with local officials, strengthening communities across Massachusetts. The Patrick-Murray Administration has proposed and signed into law parts of the Municipal Partnership Act, providing communities with ways to lower health care and pension costs, generate additional revenue to relieve pressure on the property tax and streamline operations to make local government more efficient and responsive to its residents.

Amidst the greatest fiscal crisis to strike the nation since the Great Depression, the Patrick-Murray Administration has prioritized local communities, holding local education aid harmless despite a loss of \$4 billion in state tax revenues and mitigating cuts to other local government aid.

The Governor will file his budget on Wednesday, January 27th.

[Click here to view Community by Community Unrestricted Local Aid](#)

PATRICK-MURRAY ADMINISTRATION ANNOUNCES AWARD OF LARGEST-EVER STATE CONTRACT FOR INSTALLATION OF SOLAR POWER

Contracts for over 4 megawatts of federal stimulus-funded solar power at water and wastewater treatment plants go to team of North Andover and Taunton firms

NORTH ANDOVER - Friday, February 5, 2010 - As part of the Patrick-Murray Administration's Massachusetts Recovery Plan, Governor Deval Patrick today announced the award of federal stimulus-funded contracts to install 4.1 megawatts (MW) of solar energy at 12 public water and wastewater treatment facilities throughout the Commonwealth. These projects will help to reduce energy bills and greenhouse gas impacts while creating jobs and growing the state's solar industry. The 12 contracts represent the state's largest-ever award for solar installation at public facilities.

Worth approximately \$20 million in ARRA funding, the projects announced today are expected to be complete between June 2010 and July 2011. They include municipal and regional facilities in Ashland, Hyannis, Chelmsford, Easton, Fairhaven, Falmouth, Holden, Marlborough, Blackstone/Millbury, East Freetown, Pittsfield and Townsend.

Governor Patrick made the announcement at the North Andover logistics center of Nexamp Inc., a four-year old veteran-founded clean energy company that employs 45 skilled workers - including many veterans - up from just six employees in 2006. Nexamp and its partner, Florence Electric of Taunton, won the contracts through a competitive solicitation by the Department of Energy Resources (DOER).

"Over the past three years, we have built a vibrant solar industry in Massachusetts - quadrupling the number of companies and more than doubling the number of jobs in the solar energy sector," Governor Patrick said. "The projects we're announcing today continue that success - putting federal stimulus dollars to work installing solar panels that will produce clean, renewable power for municipalities within a few short months."

"This investment will help sustain our high clean drinking water standards without using so much energy. Facilities throughout our state can continue to ensure our water is clean and safe, reduce harmful greenhouse gas emissions, and help put people back to work," said Senator John Kerry.

"One of the many important and farsighted aspects of the Recovery Act is that it enables cities and towns to modernize their aging infrastructure in a way that simultaneously increases their energy efficiency and helps reduce the strain on their municipal budgets. Furthermore, these federal dollars will put people to work all across the Commonwealth in a manner envisioned by the Green Jobs Act, which I co-authored in 2007. I am pleased that a company located in North Andover, which I have the privilege of representing, will be taking the lead on such a worthy effort," said Congressman John F. Tierney.

"These investments will not only help communities reduce their energy costs, but will help stimulate the economy and create jobs," said Congressman William Delahunt. "I want to commend the Falmouth Board of Selectmen, Barnstable Town Manager John Klimm and Public Works Director Mark Ells for their strong support for these important renewable energy projects."

"Today's announcement will improve water infrastructure in Chelmsford while simultaneously creating local jobs," said Congresswoman Niki Tsongas. "This is a good investment in the town and I thank Governor Patrick for his ongoing efforts to expand the Commonwealth's clean energy portfolio."

"Nexamp is honored to be selected through this highly competitive process to design and install these important solar projects. We look forward to optimizing the Massachusetts solar stimulus funding to provide long-term savings to each of the sites while creating skilled, green-collar jobs," said Dan Leary, President and Chief Operating Officer at Nexamp.

Once complete, the solar projects will enable the 12 water and wastewater facilities to save nearly \$650,000 per year by cutting conventional energy use by approximately 4.5 million kilowatt hours annually - roughly equal to the energy needed to power 600 households per year.

The 12 projects are funded out of \$185 million in federal stimulus dollars awarded to Massachusetts by the U.S. Environmental Protection Agency (EPA) to finance 127 water and wastewater infrastructure projects through the State Revolving Fund (SRF) administered by the Massachusetts Department of Environmental Protection (MassDEP). The American Recovery and Reinvestment Act (ARRA) requires that 20 percent of federal stimulus funds for SRF be used for "green infrastructure" improvements at water and wastewater treatment plants - facilities that account for nearly one-third of energy use by Massachusetts cities and towns.

Massachusetts was the first state to get EPA approval to use SRF funding for energy efficiency and renewable energy activities. In fact, the Commonwealth's Energy Management Pilot served as a model for the 20 percent SRF green infrastructure requirement in the ARRA.

"The projects announced today not only create clean energy jobs, but also tackle a big environmental challenge. Drinking water and wastewater treatment plants are vital for protecting water quality and human health, but are also huge municipal energy users with a big carbon footprint," Energy and Environmental Affairs Secretary Ian Bowles said. "When Governor Patrick combined energy and environment in one secretariat, we set out to make these facilities both energy efficient and producers of on-site clean energy. In so doing, we created a national model that the Recovery Act has spread to all 50 states."

"This commitment to on-site power generation will bring these municipal facilities closer to achieving zero net energy status, resulting in long-term energy cost savings," said MassDEP Commissioner Laurie Burt. "By participating, these facilities are also setting the 'green' example for the other treatment plants across the Commonwealth to follow."

"With these 12 projects - the largest single solar procurement in the Commonwealth's history - the state is partnering with cities and towns to make good on Governor Patrick's promise of a clean energy future," said DOER Commissioner Phil Giudice.

Solar PV installations are slated for the following locations:

- Ashland Ponderosa Public Works Facility
- Barnstable Wastewater Treatment Facility (Hyannis)
- Chelmsford Crooked Spring Water Treatment Facility
- Easton Water Division
- Fairhaven Wastewater Plant
- Falmouth Crooked Pond Water Filtration Facility
- Massachusetts Water Resources Authority Carroll Water Treatment Plant (Marlborough)
- New Bedford Water Division Quittacas Water Plant (East Freetown)
- Pittsfield Wastewater Treatment Plant
- Townsend Water System
- Upper Blackstone Wastewater Pollution Abatement District Regional Wastewater Plant (Blackstone and Millbury)
- Worcester Water Filtration Plant (Holden)

The contracts announced today are part of the Patrick-Murray Administration's Massachusetts Solar Stimulus program - a plan to use ARRA funding to expand the Commonwealth's solar power capacity by up to 13 MW. In addition to the water and wastewater treatment facility projects, plans are underway to install solar PV at a variety of public facilities across the state including colleges, housing projects and transportation facilities.

By the end of 2010, Massachusetts will see a nearly 20-fold increase in solar installations. ARRA-funded solar installations on water and wastewater treatment facilities, and other public buildings and PV projects assisted by Commonwealth Solar rebates will bring the state to approximately 63 MW by the end of 2010, up from 3.5 MW when Governor Patrick took office. More than 18 MW of solar power are currently up and running across Massachusetts.

The Patrick-Murray Administration's emphasis on solar power is having a significant impact on the Commonwealth's solar power industry. Since the launch of Commonwealth Solar in January 2008, the number of installation contractors and subcontractors has quadrupled from roughly 50 to nearly 200. And a recent survey of 98 solar PV manufacturers, integrators and installers revealed that they doubled their

Massachusetts employment in one year - 1,086 to 2,075 - from year end 2007 to 2008, and expected to add another 960 employees in 2009. Eighty percent of these firms added employees in 2008, and all but 11 planned to expand their workforce in 2009.

"This is a win-win for everyone," said Senator Marc R. Pacheco, Senate Chair, Joint Committee on Federal Stimulus Oversight. "Twelve facilities will improve their energy efficiency, which will reduce greenhouse gases and will create 'green jobs.' This is a large step forward for Massachusetts improving its alternative energy use and getting people back to work. I am especially pleased that a company right from my own district is embracing this clean energy movement and is taking advantage of the economic opportunities it presents."

"Amidst concerns that stimulus funds are primarily creating public sector jobs, this project is an example of making targeted investments in private companies that will sustain business in the private sector and provide a long term benefit for the public," said Representative David P. Linsky, House Chair, Joint Committee on Federal Stimulus Oversight.

"Over the last few years, I've been fortunate to watch Dan Leary and Will Thompson, two North Andover High School graduates, develop effective clean energy solutions right here in our community," said Representative David Torrisi. "I am extremely proud of them and excited to witness a local company showing such tremendous success and growth. I congratulate the entire Nexamp team for their innovation, determination and leadership."

"'Going 'green' is not just a passing trend, but a smart and increasingly necessary strategy for maintaining healthy water sources and a thriving living environment," said Representative Stephen R. Canessa. "I commend the Governor and this North Andover-Taunton joint business venture for their promotion of energy conservation. The region - its people, its environment and its municipalities - will experience the positive short-term and long-term benefits of 'going green' through this grant initiative."

"As someone who has used solar energy to assist in heating my home for years, I am thrilled to see this award to a Taunton company who has taken the lead in solar energy in our area and who has brought green jobs to our community," said Representative James H. Fagan. "I believe this is the way of the future."

"This is another win-win for the people of the South Coast and the Commonwealth," said Representative Patricia A. Haddad, who represents a quarter of the City of Taunton. "It supports local businesses via private-public partnerships and at the same time further enhances our collective efforts in green technology. Congratulations to Florence Electric."

Investments in renewable energy are critical components of Governor Patrick's [Massachusetts Recovery Plan](#), which combines state, federal and, where possible, private efforts to provide immediate and long-term relief and position the Commonwealth for recovery in the following ways:

- Deliver immediate relief by investing in the road, bridge and rail projects that put people to work today and providing safety net services that sustain people who are especially vulnerable during an economic crisis;
- Build a better tomorrow through education and infrastructure investments that strengthen our economic competitiveness, prepare workers for the jobs of the future, and support clean energy, broadband, and technology projects that cut costs while growing the economy; and
- Reform state government by eliminating the pension and ethics loopholes that discredit the work of government and revitalize the transportation networks that have suffered from decades of neglect and inaction.

PATRICK-MURRAY ADMINISTRATION DESIGNATES COMMONWEALTH'S FIRST OFFICIAL "GREEN COMMUNITIES"

35 cities and towns across the state are ranked as clean energy leaders, eligible for municipal renewable power and energy efficiency grants

HOPKINTON - Tuesday, May 25, 2010 - Governor Deval Patrick today designated 35 cities and towns from the Berkshires to Cape Cod as the Commonwealth's first official "Green Communities" - a status that makes them eligible for \$8.1 million in grants for local renewable power and energy efficiency projects. The projects promise to create green jobs and advance both municipal and state clean energy goals. "I am pleased to honor the vision and hard work of our first group of official Green Communities," said Governor Patrick. "These pioneers are notable not only for their commitment to a cleaner, greener Massachusetts, but also for their diversity. From tiny towns to major cities and suburbs in all regions of the state, Massachusetts communities recognize the benefits, for the economy as well as the environment, of making clean energy choices."

"It's great to see so many communities dedicated to saving energy, making new construction as energy efficient as possible, and accommodating clean energy investment and jobs in support of a stronger, more sustainable future for Massachusetts," said Lieutenant Governor Timothy Murray.

"Taking the initiative to make the changes necessary to promote energy efficiency and encourage renewable energy is critical to a community's future both environmentally and economically. The cities and towns designated 'Green Communities' have taken this challenge seriously and succeeded in their efforts. They are examples I hope that other communities across the commonwealth will follow," said Senate President Therese Murray.

The signature program of the landmark Green Communities Act of 2008, the Department of Energy Resources' (DOER) Green Communities Grant Program uses funding from auctions of carbon emissions permits under the Regional Greenhouse Gas Initiative to reward communities that win Green Communities designation by meeting five clean energy benchmarks:

- Adopting local zoning bylaw or ordinance that allows "as-of-right-siting" of renewable energy projects;
- Adopting an expedited permitting process related to the as-of-right facilities;
- Establishing a municipal energy use baseline and a program designed to reduce use by 20 percent within five years;
- Purchasing only fuel-efficient vehicles for municipal use, whenever such vehicles are commercially available and practicable; and

- Requiring all new residential construction over 3,000 square feet and all new commercial and industrial real estate construction to reduce lifecycle energy costs (i.e., adoption of an energy-saving building "stretch code").

May 14 was the deadline for municipalities to apply for Green Community designation in order to qualify for the first round of \$8.1 million in Green Communities grants. Today's Green Communities designees - Acton, Arlington, Athol, Andover, Becket, Belchertown, Cambridge, Chelmsford, Easthampton, Greenfield, Hamilton, Hanover, Holyoke, Hopkinton, Kingston, Lancaster, Lenox, Lexington, Lincoln, Lowell, Mashpee, Medford, Melrose, Montague, Natick, Newton, Northampton, Palmer, Pittsfield, Salem, Springfield, Sudbury, Tyngsboro, Wenham, and Worcester - have until June 4 to submit applications for grants that will be awarded in late June.

"These 35 cities and towns have already distinguished themselves as leaders," said Energy and Environmental Affairs Secretary Ian Bowles. "With the help of Green Communities grant funding, they'll be able to go further - saving energy costs for their residents, reducing the environmental impact of municipal operations, and validating the Commonwealth's reputation as a national clean energy leader."

"We are confident that these 35 municipalities - and the projects they will undertake with Green Communities grants - will serve as shining examples to the Commonwealth's other 316 cities and towns, all of which we hope will also work toward becoming Green Communities and reaching their clean energy goals in the months ahead," said DOER Commissioner Phil Giudice.

In addition to grant eligibility, each Green Community designated today will receive a Big Belly solar waste compactor, to be delivered by June 30 in time for the summer parks and beaches season. Purchased with DOER energy efficiency funding, Big Belly compactors can hold several times more trash and litter than similarly sized regular trash receptacles - thereby reducing the number of garbage truck trips required to empty them. Each municipality will also receive a certificate from the Commonwealth congratulating it on becoming an official Green Community.

DOER will take additional applications for Green Community designations and grants later this year. [Click here](#) for more information on DOER's Green Communities program.

GOVERNOR PATRICK HIGHLIGHTS GROWTH OF SOLAR INDUSTRY WITH VISIT TO SOLAR PHOTOVOLTAIC INSTALLATION

Massachusetts jobs in solar manufacturing, installation and service nearly tripled since 2007, survey shows

BOSTON - Thursday, August 19, 2010 - As part of the Patrick-Murray Administration's Massachusetts Recovery Plan to secure the state's economic future, Governor Deval Patrick today visited solar photovoltaic (PV) systems installed at Salem State University in Salem, where he highlighted dramatic growth in the Massachusetts solar PV industry since the launch of the Commonwealth Solar program in 2008.

The Patrick-Murray Administration's emphasis on solar power, spurred by Governor Patrick's goal of 250 megawatts (MW) installed by 2017 has catalyzed the growth of a vibrant solar industry in Massachusetts. According to a recent survey of clean energy companies conducted by the Massachusetts Clean Energy Center (MassCEC), employment in solar manufacturing, installation and services has nearly tripled since Governor Patrick first took office, from 1,200 jobs in 2007 to roughly 3,000 expected by the end of 2010. Solar manufacturing jobs alone have jumped from 750 in 2007 to 2,000 in 2010.

"Clean energy technology is a huge economic opportunity for Massachusetts, and our success in solar power is a prime example of that," said Governor Patrick. "We are using all the levers at our disposal to make solar power an option for residents, businesses, and institutions, and then meet the demand with Massachusetts-made products installed by Massachusetts workers."

"We are well on the way toward reaching Governor Patrick's 250 MW goal, and are reaping the benefits in jobs as well as clean energy," said Energy and Environmental Affairs Secretary Ian Bowles.

"It is because of the leadership of Governor Patrick and innovative programs like Commonwealth Solar that Massachusetts is seeing such astounding growth in its solar industry in hard economic times," said MassCEC Executive Director Patrick Cloney. "We are proud to see institutions such as Salem State working toward a clean energy future."

In 2009, Salem State completed the installation of a 68 kW PV array on Atlantic Hall, a dormitory built in 2004 on a former industrial brownfield site. The PV system was installed by Massachusetts-based Broadway Electrical, and was funded by MassCEC's Commonwealth Solar rebate program and by the Division of Capital Asset Management through Clean Renewable Energy Bonds (CREBs). Salem State is also in the process of installing another 148 kW solar PV system using funds from the American Recovery and Reinvestment Act.

Solar PV projects assisted by Commonwealth Solar rebates, as well as solar installations supported by

federal stimulus funds on water treatment facilities and other public buildings, will bring the state to more than 60 MW of solar power installed or under contract by the end of 2010, up from 3.5 MW when Governor Patrick took office.

Between January 2008 and December 2009, Commonwealth Solar's initial phase awarded nearly 1,300 rebates for residential, commercial and municipal projects capable of generating 23.5 MW of electricity - enough to power nearly 3,750 homes in Massachusetts. On the heels of that success, in late January MassCEC launched two new solar rebate programs - Commonwealth Solar II and Commonwealth Solar Stimulus. Funding for Commonwealth Solar Stimulus comes from \$8 million in State Energy Program funding awarded to the Department of Energy Resources under the American Recovery and Reinvestment Act (ARRA). Commonwealth Solar Stimulus has awarded funds to 102 solar projects in Massachusetts for 7.8 MW of solar power. In addition, the Commonwealth awarded the largest solar installation contract in the state's history - \$20 million for 4.1 MW of solar on waterworks facilities - early this year, funded by ARRA monies from the U.S. Environmental Protection Agency. In all, the Commonwealth has dedicated over \$160 million of renewable energy and federal funds to support investment in solar energy totaling almost \$330 million.

Going forward, a new Solar Credit program will support larger installations of solar PV in the future, while Commonwealth Solar II will continue to provide rebates for smaller residential and commercial systems.

GOVERNOR PATRICK ANNOUNCES WIND TURBINE BLADE MANUFACTURER TO LOCATE FACILITY IN FALL RIVER

TPI Composites will create at least 30 engineering and technical jobs; Future expansion planned



Governor Patrick cuts the ribbon for global wind blade manufacturer TPI Composites, Inc. (TPI) to open a Wind Blade Innovation Center in Fall River. (Photo credit: Matt Bennett/Governor's Office). [View additional photos.](#)

FALL RIVER - Wednesday, August 25, 2010 - As part of the Patrick-Murray Administration's Massachusetts Recovery Plan, Governor Deval Patrick today announced that global wind blade manufacturer TPI Composites, Inc. (TPI) will open a Wind Blade Innovation Center in Fall River.

The company, which is headquartered in Scottsdale, Arizona, will develop a 69,000 square foot wind blade research and development and prototype manufacturing center in Fall River, creating at least 30 engineering and technical jobs. TPI also plans a second phase of expansion doubling its space and production capacity at the site, and enabling the production of blades 70 meters or longer.

"I welcome TPI Composites to Massachusetts, where they become part of our growing wind energy industry," said Governor Patrick. "With facilities like the Wind Technology Testing Center and companies like TPI, Massachusetts will lead the nation in the next generation of wind energy technology."

"I am very proud to have played a role in working with the Governor's office in bringing TPI Composites to Fall River," said Congressman Barney Frank. "TPI and other companies can be assured that when they locate to our area they will have the full support of our elected officials as we work together to bring important jobs and economic development to Massachusetts."

"Governor Patrick's goal of 2,000 megawatts of wind power, on shore and offshore, by 2020 has already inspired a ten-fold increase in installed wind power since he took office," said Energy and Environmental Affairs Secretary Ian Bowles. "Companies like TPI are making wind energy not just a resource for Massachusetts but a vital new industry producing jobs and growth."

Clean energy jobs and installation have been priorities for Governor Patrick. By the end of this year, Massachusetts will have installed or contracted over 60 megawatts (MW) of solar power, a nearly 20-fold increase over the 3.5 MW installed statewide when Governor Patrick took office. According to a recent survey of clean energy companies conducted by the Massachusetts Clean Energy Center (MassCEC), employment in solar manufacturing and installation services has nearly tripled since Governor Patrick first took office, from 1,200 jobs in 2007 to roughly 3,000 expected by the end of 2010. Solar manufacturing jobs alone have jumped from 750 in 2007 to 2,000 in 2010, while the number of firms involved in solar installation has jumped from 30 to 200. Wind power has increased tenfold over four years, from 3.1 MW in 2007 to over 30 MW by the end of this year. Massachusetts firms engaged in development and manufacturing of wind turbines and their component parts include FloDesign, American Superconductor and Vestas Power Systems. Developers and installers of wind energy include First Wind and Solaya Energy.

To support this investment in Fall River, MassCEC has awarded TPI a \$250,000 grant, contingent upon creating and maintaining 30 jobs. The facility, which has water access for the transportation of large-scale blades, will be able to initially handle blades up to 62 meters long. The Water Street facility was previously owned by one of TPI's founders, Neil Tillotson. In the mid-1970s through mid-1980s, TPI used the facility as part of its fiberglass boat building business. TPI expects to begin operations at the new facility in early 2011. As it develops new blades for customers, TPI will be a customer for the U.S. Department of Energy-backed Wind Technology Testing Center in Charlestown, which is expected to open for business in February 2011.

"Many thanks to Governor Patrick and the Massachusetts Clean Energy Center for providing support needed to make this investment possible," said Steve Lockard, President and CEO of TPI Composites, Inc. "We look forward to our Fall River facility being an integral part of the development of the wind energy sector in Massachusetts."

"Bringing a major wind blade manufacturer to the state to carry out development, testing and training for the advanced manufacturing of wind blades will help build the wind blade cluster in Massachusetts, and provide a local customer for our Wind Technology Testing Center," said MassCEC's Executive Director Patrick Cloney.

"The opening of this new TPI Composites location is very exciting for Fall River. Not only does it bring vital jobs to our city, but this reflects well for the region that we are doing something right to attract businesses on the cutting edge of sustainable technology," said Representative David B. Sullivan.

"I'm thrilled TPI Composites has chosen Fall River," said Representative Michael J. Rodrigues. "Their arrival represents a great opportunity for our South Coast to lead the way toward a vibrant, clean energy economy, bringing needed jobs to our region and providing our citizens with environmental benefits for generations to come."

TPI is a leader in both development and manufacturing of large-scale composite structures for the wind energy (wind blades), transportation and military vehicle markets. The company was founded in 1968 in Warren, Rhode Island, as a fiberglass boat builder, and continues to have operations there. In the late 1980s the company identified a superior manufacturing process for producing large composite parts while eliminating harmful VOC emissions, called Seeman Composites Resin Infusion Molding Process (SCRIMP), and purchased the rights to the process. In 2001, TPI entered the wind energy market. Today, TPI supplies wind turbine blades to the top wind turbine manufacturers in the world, with customers such as Mitsubishi and GE Energy, which together produced half of the US-installed wind energy capacity in 2009.

Created by the Green Jobs Act of 2008, the Massachusetts Clean Energy Center (MassCEC) has as its mission to foster the growth of the Massachusetts clean energy industry by providing seed grants to companies, universities, and nonprofit organizations; funding job training and workforce development programs; and, as home of the Massachusetts Renewable Energy Trust, supporting the installation of renewable energy projects throughout the state.

Patrick-Murray Administration Announces Clean Energy and Climate Plan to Reduce Greenhouse Gas Emissions 25 percent by 2020

Comprehensive plan to lower energy costs, increase energy independence and create clean energy jobs will meet the most ambitious emissions limit in the country

BOSTON - December 29, 2010 - Energy and Environmental Affairs (EEA) Secretary Ian Bowles today set the statewide greenhouse gas (GHG) emissions limit for 2020 required by the Global Warming Solutions Act of 2008 at 25 percent below 1990 levels, the maximum authorized by the Act, saying that measures already in place will get Massachusetts much of the way toward that goal. A targeted portfolio of additional policies, chosen because they promise overall cost savings, will allow the Bay State to reach the most ambitious target for GHG reduction of any state in the country, Secretary Bowles said.

"Massachusetts has already taken great strides in energy innovation, sparking a clean energy revolution in the Commonwealth and getting us two-thirds of the way toward 25 percent lower emissions by 2020," said Secretary Bowles. "I am confident we will meet the 25 percent limit I set today with a portfolio of policies that build on reforms made to date, launch practical new initiatives on a pilot basis, and generate cost savings and jobs."

"The clean energy plan released today lays out an ambitious but practical framework to continue - and accelerate - the Commonwealth's transition to clean energy," said Secretary of Energy and Environmental Affairs-designate Rick Sullivan. "I look forward to maintaining this momentum as our state distinguishes itself as the national leader on clean energy and greenhouse gas emissions reductions."

The Global Warming Solutions Act (GWSA), signed by Governor Deval Patrick in August 2008, mandates the reduction of greenhouse gas (GHG) emissions 80 percent below 1990 levels by 2050, and requires the Secretary of Energy and Environmental Affairs to set a legally enforceable GHG emissions limit for 2020 of between 10 percent and 25 percent below 1990 levels by January 1, 2011, and to issue a plan for achieving those reductions while growing the clean energy economy. Secretary Bowles set the limit today at the statutory maximum of 25 percent and released the Clean Energy and Climate Plan for 2020, which contains a portfolio of policies designed to meet the limit.

In his formal determination of the 2020 emissions limit, Secretary Bowles noted that "established state policies to promote energy conservation and cleaner energy sources are expected to produce GHG

reductions of 18 percent below 1990 levels by 2020," and that the remaining question before him in making the determination was "where in the remaining statutory range of 18 to 25 percent reduction it is practical and appropriate to set the 2020 limit. Central to that question is what additional actions of policy, regulation, and legislation could be pursued that would achieve additional emissions reduction by 2020 and beyond." Though he considered "a wide range of measures," Secretary Bowles included in the implementation plan for 2020 "only those additional measures that provide significant energy cost savings and create clean energy jobs," but those he found sufficient to support the maximum emissions reduction requirement of 25 percent.

"This limit, together with the portfolio of GHG mitigation measures presented in the Clean Energy and Climate Plan for 2020, is a substantial step forward in the Commonwealth's ongoing efforts to grow our clean energy economy, reduce energy costs, become energy independent and minimize climate change impacts to the citizens, environmental resources, and economy of Massachusetts," wrote Secretary Bowles.

The 136-page Clean Energy and Climate Plan for 2020 contains a "portfolio" of established and new measures that reduce energy waste, save money, and stimulate the adoption of clean energy technologies, thereby creating jobs at the same time that they reduce GHG emissions. It is estimated that 42,000 to 48,000 jobs would result from full implementation of the plan in 2020, both jobs that fill every niche in the clean energy supply chain - electricians, installers, researchers, architects, manufacturers, plumbers, energy auditors, technicians, and scientists - and jobs throughout the economy as lower fossil-fuel energy expenses lead to more spending on in-state goods and services.

Existing policies include the Green Communities Act requirement of capturing all cost-effective energy efficiency, which has given Massachusetts the most far-reaching energy efficiency program in the country, projected to yield \$6 billion in customer savings from \$2 billion of investment over three years. Continuation of these energy efficiency efforts, plus additional building-related measures such as deep-energy improvements in buildings; advanced, flexible building energy codes; and a new energy rating and labeling system that will be the equivalent of miles-per-gallon auto fuel efficiency ratings for buildings, beginning as a pilot program in western Massachusetts will reduce GHG emissions statewide nearly 10 percent by 2020.

In electricity supply, established programs like the Regional Greenhouse Gas Initiative and the Renewable Portfolio Standard will be supplemented by efforts to obtain additional clean energy imports such as Canadian hydropower and a proposed Clean Energy Performance Standard, which would require electricity suppliers to favor lower- and no-emissions sources in the mix of electricity delivered to their customers, will reduce emissions 7.7 percent by 2020. In transportation, MassDOT's recently announced GreenDOT sustainability program and other efforts to limit growth in driving, federal fuel

efficiency standards, lower-carbon fuels, and potential incentives for clean cars to be studied and piloted are expected to produce 7.6 percent GHG reductions. And in non-energy related sources of emissions, new and expanded programs will address leaking refrigerants that are more powerful greenhouse gases than carbon dioxide, for additional reductions of 2 percent.

"This is wonderful news," said Senator Marc Pacheco, Chairman of the Senate Committee on Global Warming and Climate Change. "This target is not only good for the environment, but is also good for our public health and security, and will put us on the path to revolutionizing our economy by spurring job growth and sparking innovation in renewable energy and green technologies. This emissions reductions target demonstrates the Patrick-Murray Administration's commitment to fully implementing the intent of the Global Warming Solutions Act. As the author of this legislation, I always knew it was possible to implement such strong measures and I applaud Secretary Bowles and the rest of the Administration for taking this bold step toward combating climate change."

"I commend Secretary Bowles and the Advisory Committee's hard work and dedication to set the Commonwealth on track for reducing emissions and fostering development of clean energy," said Representative Frank Smizik, Chairman of the House Committee on Global Warming and Climate Change. "It is imperative for the strength of our economy, our national security, and our health to address the harmful impacts of greenhouse gases and climate change. I look forward to working with the Administration to continue to push the envelope with new innovations and strong standards, so that the Commonwealth can continue to be a national leader and achieve the ultimate goal of an 80 percent reduction in greenhouse gas emissions as soon as possible"

Secretary Bowles's determination, and the Clean Energy and Climate Plan for 2020, were both informed by a series of eight public hearings held around the state and by input from the Climate Protection and Green Economy Advisory Committee, a body created by the Global Warming Solutions Act that includes representatives of the following sectors: commercial, industrial and manufacturing; transportation; low-income consumers; energy generation and distribution; environmental protection; energy efficiency and renewable energy; local government; and academic institutions.

"It has been a privilege to collaborate with such a representative group of stakeholders in determining ways to build a clean energy economy," said co-chair Susan Avery, President and Director of the Woods Hole Oceanographic Institution. "I look forward to continuing this effort and helping to support the important goals of this ambitious plan."

"The Massachusetts Clean Energy and Climate Plan for 2020 is a big step forward towards moving Massachusetts towards a Green Economy," said co-chair Martin Madaus, former CEO of Millipore Corp. "This comprehensive plan is the result of about two years of outstanding work by many experts and has received thorough input from all stakeholders through the Climate Protection and Green Economy

Advisory Committee."

"The vision presented in this report is both bold and well-grounded in the facts and opportunities we face," said Conservation Law Foundation (CLF) President John Kassel. "It will serve the citizens and economy of Massachusetts, and New England, well. It took a lot of courage to put this out there. It will take even more courage, and determination, to make it happen. We at CLF look forward to helping it become a reality."

"These strong and realistic goals for GHG reductions in the Commonwealth are welcomed by the rapidly growing Massachusetts clean energy industry," said Peter Rothstein, President of the New England Clean Energy Council. "The GHG reductions achieved in the last few years, and the combination of clear policies and new private sector innovations and investments are laying a path to cost-effectively meet these environmental goals while providing sustainable, economic growth."

"This Clean Energy and Climate Plan is the latest example of Governor Patrick's commitment to growing clean energy jobs in Massachusetts," said Marty Aikens of the International Brotherhood of Electrical Workers Local 103. "It is a practical roadmap that shows that measures to decrease emissions can lead to thousands of new jobs."

The Secretary's 2020 Greenhouse Gas Limit Determination, the full Clean Energy and Climate Plan for 2020, the Executive Summary of the Plan, and a letter to EEA Secretary Bowles from the co-chairs of the Climate Protection and Green Economy Advisory Committee can be [viewed here](#).

MASSACHUSETTS RANKED FIRST IN THE NATION FOR ENERGY EFFICIENCY

Governor Patrick's clean energy agenda cited as Massachusetts tops California in ACEEE's State Energy Efficiency Scorecard

[Click here to read the full report online](#)

WASHINGTON, D.C. –Thursday, October 20, 2011 – Governor Deval Patrick today joined the American Council for an Energy-Efficient Economy (ACEEE) to announce Massachusetts has been named number one in ACEEE's annual state-by-state energy efficiency scorecard. Massachusetts topped California in the ranking for the first time, thanks to the Patrick-Murray Administration's clean energy agenda, which includes the Green Communities Act of 2008 and other innovative programs and policies to save energy and create jobs. Governor Deval Patrick accepted the honor and offered remarks at a ceremony at the National Press Club in Washington, D.C. this morning.

"Thanks to our investments in innovation and infrastructure, Massachusetts is now leading the nation in energy efficiency," said Governor Patrick. "Through our Green Communities Act, we set aggressive goals and laid the foundation for greater investment in energy efficiency – and now we are proud to be a model for the nation and world."

California held the top slot on the national scorecard for the first four years. ACEEE ranked Massachusetts number four in 2006, but the Bay State climbed to number two in 2009 and held that slot for two years, before moving up to number one today.

ACEEE says Massachusetts now has the most aggressive energy efficiency targets in the nation, citing the Green Communities Act as central to Massachusetts' success. ACEEE also pointed to the effectiveness of the Patrick-Murray Administration's integrated approach to creating jobs, helping clean energy businesses thrive, improving energy security and lowering energy costs, and reducing Greenhouse Gas emissions. In addition to the Green Communities Act, the Governor has also signed the Green Jobs Act and Global Warming Solutions Act. ACEEE calculated scores based on utility efficiency programs and policy, transportation, building energy codes, combined heat and power projects, state government initiatives, and appliance efficiency standards.

"Massachusetts has a long record of success implementing energy efficiency programs," said ACEEE in its report. "The state took a major leap forward in 2008, however, when it passed the Green Communities Act, which established energy efficiency as the state's 'first-priority' resource, creating an Energy Efficiency Advisory Council to collaborate with utilities to develop statewide efficiency plans in three-year cycles. The three-year plan in operation aims to achieve electric savings equal to 2.4 percent and natural gas savings equal to 1.5 percent of sales in 2012, which amounts to the most aggressive EERS target in the nation. The Green Communities Act is ultimately expected to lead to an investment of \$2.2 billion in energy efficiency and demand resources between 2010 and 2012."

"Under the leadership of Governor Patrick, our policies have positioned Massachusetts as a leader in energy efficiency adoption and it's no accident we've received this honor," said Energy and Environmental Affairs Secretary Rick Sullivan. "I'm proud of the work we've done with our legislative, utility, environmental partners, and communities to reach our collective statewide energy efficiency goals."

The Department of Energy Resources' (DOER) Green Communities Designation and Grant Program, which is a result of the Green Communities Act, uses funding from auctions of carbon emissions permits under the Regional Greenhouse Gas Initiative to reward communities that win Green Communities designation by meeting five clean energy benchmarks including adoption of energy efficient building and planning practices.

To date, 74 municipalities across the Commonwealth have become Green Communities and created savings equivalent to the annual energy consumption of approximately 12,978 New England households. In addition, 97 municipalities have adopted the new energy efficient stretch energy code.

The Green Communities Act also requires investor-owned utilities to pursue all cost-effective energy efficiency – making energy efficiency Massachusetts' "first fuel" for meeting energy demand. In 2010, the first implementation year, the utility energy efficiency plans saved an equivalent to the annual electricity usage of almost 85,000 households and the equivalent to the annual natural gas usage of nearly 14,000 households. In addition, measures implemented under the plans produced greenhouse gas emissions reductions equal to eliminating more than 74,000 cars.

"By making energy efficiency Massachusetts' first fuel, thousands of people - from contractors and homeowners to businesses and municipalities - are benefiting from our strategic energy efficiency investments," said Department of Energy Resources Commissioner Mark Sylvia. "We are demonstrating what's possible and building on a history of leadership as we improve our codes, incentives, and infrastructure across the state. We are proud to be recognized by ACEEE today."

"This ranking affirms the policy choices Massachusetts has made: prioritizing cost-effective energy efficiency as the lowest cost, cleanest energy resource, emphasizing the importance of a strong, diverse stakeholder council, and committed program administrators," said Daniel Sosland, Executive Director of ENE (Environment Northeast). ENE represents the environmental community on the state's Energy Efficiency Advisory Council.

"The success of the Massachusetts program proves that customers will respond when programs show results that save energy and reduce costs at the same time," said Robert A. Rio, Senior Vice President for Government Affairs at Associated Industries of Massachusetts, who represents industry on the state Energy Efficiency Advisory Council that developed the Commonwealth's three-year energy efficiency plans.

"Energy efficiency is America's abundant, untapped energy resource and the states continue to press forward to reap its economic and environmental benefits. The message here is that energy efficiency is a pragmatic, bipartisan solution that political leaders from both sides of the aisle can support," said ACEEE Executive Director Steven Nadel. "As they have over the past decades, states continue to provide the

leadership needed to forge an energy-efficient economy, which reduces energy costs, spurs job growth, and benefits the environment.”

Earlier this week, the Massachusetts Clean Energy Center (MassCEC) reported the Commonwealth’s clean energy companies grew jobs at a rate of 6.7 percent from July 2010 through July 2011 in its [2011 Massachusetts Clean Energy Industry Report](#).

GOVERNOR PATRICK VISITS SOLARCITY TO HIGHLIGHT CLEAN ENERGY INDUSTRY

Clean energy company has added 33 employees this year, and expansion will add 25 more



Governor Patrick celebrates the grand opening of SolarCity Corporation's Marlborough location. (Photo: Eric Haynes / Governor's Office). View additional [photos](#).

MARLBOROUGH – Tuesday, May 1, 2012 – Governor Deval Patrick today celebrated the expansion of clean energy company SolarCity in Marlborough, where the company plans to add 25 jobs. The job growth is attributed to the Patrick-Murray Administration's investments in the clean energy economy including the Green Communities program.

"We have developed a nation-leading clean energy agenda because it is the right thing to do for our environment, our energy independence and our public health," said Governor Patrick. "The growth of private companies like SolarCity is a sign that our investment strategy in the clean energy industry is working."

SolarCity, a clean energy services company, expanded into Massachusetts in 2011. In less than a year, the company has tripled its workforce adding 33 employees to date and is adding 25 more positions at its new location. The Marlborough expansion more than doubles the company's warehouse square footage, combining the 6,000 square feet in facilities the company held in Billerica and Raynham.

The Massachusetts Clean Energy Center's *2011 Massachusetts Clean Energy Industry Report* showed a 6.7 percent growth in Massachusetts clean energy jobs between July 2010 and July 2011, with companies projecting continued growth in the year ahead. The report found nearly 5,000 companies engaged in clean energy work and employing more than 64,000 clean energy workers.

"Massachusetts is home to clean energy companies specializing in technologies ranging from energy efficiency and energy storage to efficient lighting and biofuels and we're proud they've made Massachusetts home," said Energy and Environmental Affairs Secretary Richard K. Sullivan. "The clean energy industry is growing and we're here today to celebrate it."

"Massachusetts has invested in the clean energy economy – and that investment is paying off with jobs and lower energy costs," said SolarCity's Regional Director for Massachusetts Ed Steins. "We have tripled our local staff in less than a year and are hiring for more positions in Massachusetts right now."

With these latest designations, 42 percent of Massachusetts residents or 2.7 million people now live in [Green Communities](#) across the Commonwealth. All of the 86 Green Communities committed to reduce their municipal energy consumption by 20 percent. This commitment collectively equates to the annual energy consumption of more than 13,000 Massachusetts homes and the greenhouse gases from more than 16,800 cars.

Under the Global Warming Solutions Act, Massachusetts has set the strongest greenhouse gas reduction targets in the nation – 25 percent below 1990 levels by 2020 and 80 percent by 2050. The implementation of the state's Clean Energy and Climate Plan for 2020 is estimated to create at least 42,000 jobs.

GOVERNOR PATRICK ANNOUNCES GREEN COMMUNITIES MILESTONE

Over 100 cities and towns named Green Communities; Seventeen cities and towns named clean energy leaders in fifth round of designations



Governor Patrick offers remarks during an event marking a Green Community milestone. (Photos: Jeremiah Robinson / Governor's Office) View additional [photos](#).

[Map of Green Communities](#)

BOSTON – Tuesday, July 24, 2012 – Governor Deval Patrick today joined state and local officials to announce that Massachusetts is now home to over 100 Green Communities. At an event at the State House, the Governor announced the designation of 17 new Green Communities, bringing the total number up to 103 cities and towns. Nearly half of Massachusetts residents, or 44 percent, now live in a Green Community.

With the Department of Energy Resources' (DOER) designation, Amherst, Ashland, Auburn, Berlin, Conway, Gill, Great Barrington, Huntington, Lakeville, Leominster, Northfield, Pelham, Richmond,

Sunderland, Tisbury, Townsend, and West Tisbury will be eligible for nearly \$2.75 million in grants for local renewable power and energy efficiency projects. Participating communities have committed to five clean energy leadership criteria – including cutting energy use by 20 percent over five years --spelled out in the nation-leading Green Communities Act, which was passed by the Legislature and signed by Governor Patrick in 2008.

When Governor Patrick came into office in 2007, he made an ambitious and achievable commitment to clean energy. A major component of that agenda is the Green Communities Act, which empowers communities to invest in local solutions that expand renewable energy adoption, boost the clean energy industry and cut overall energy use. As a result, Massachusetts leads the nation in energy efficiency and has seen the number of renewable energy projects – like solar and wind – soar. There are now more clean energy companies and clean energy jobs in Massachusetts than ever before.

“Surpassing the 100th Green Community mark is a win for every community and our Commonwealth as a whole,” said Governor Patrick. “We have developed a nation-leading clean energy agenda because it is the right thing to do for our environment, our energy independence and our public health. This milestone proves again the clean energy revolution is taking hold, and growing, one community at a time.”

“From Great Barrington in Berkshire County to Tisbury in Dukes County, our communities are committed to promoting clean energy and a green environment,” said Lieutenant Governor Timothy Murray. “Now over 100 Green Communities are making strategic investments to increase energy efficiency and create jobs, improving our economy and quality of life across Massachusetts.”

“I am so proud to hear that Massachusetts is now home to 103 Green Communities,” said House Speaker Robert A. DeLeo. “Adopting clean energy solutions in over a hundred of our cities and towns enhances the economy by creating more green jobs, giving new life to renewable energy companies, and cutting unnecessary energy usage.”

To date, the 103 Green Communities have committed to a total energy reduction equivalent to the annual energy consumption of 13,358 homes. This commitment equates to a greenhouse gas emissions reduction equivalent to taking 22,556 cars off the road.

“Cities and towns across the Commonwealth have stepped up to the challenge of decreasing our dependence on foreign sources of energy,” said Energy and Environmental Affairs Secretary Rick Sullivan. “Keeping our energy dollars in Massachusetts keeps more money in our wallets, boosting our economy, and not one overseas.”

DOER’s Green Communities Designation and Grant Program reward communities that win Green Communities designation by meeting five clean energy benchmarks:

- Adopting local zoning bylaw or ordinance that allows “as-of-right siting” – allowing a project to proceed without requiring a special permit or any time of discretionary approval – for renewable and/or alternative energy research and development facilities, manufacturing facilities or generation units;
- Adopting an expedited permitting process related to the as-of-right facilities;

- Establishing a municipal energy use baseline and a program to reduce use by 20 percent within five years;
- Purchasing only fuel-efficient vehicles for municipal use, whenever such vehicles are commercially available and practicable; and
- Requiring all new residential construction over 3,000 square feet and all new commercial and industrial real estate construction to reduce lifecycle energy costs (i.e. adoption of an energy-saving building “stretch code”).

Once designated by DOER as official Green Communities, cities and towns are eligible for awards to fund local renewable power and energy efficiency projects that advance both municipal and state clean energy goals. Grants awarded so far assist an array of projects across the state, including the installation of solar panels on town office buildings, weatherization at schools and municipal buildings, installation of high-efficiency street lights, and a host of energy efficiency upgrades.

“With today’s designation, the Commonwealth again demonstrates its commitment to supporting our municipalities while advancing our clean energy goals,” said Senator Benjamin B. Downing, Senate Chairman of the Committee on Telecommunications, Utilities and Energy. “I am proud that communities I represent, Conway, Great Barrington and Richmond, join 100 other Green Communities in committing to these goals through reduced energy use and the encouragement of renewable energy solutions.”

“I applaud the Administration for its leadership and investment in renewable energy and energy efficiency projects,” said Representative John Keenan, House Chairman of the Committee on Telecommunications, Utilities and Energy. “The Commonwealth continues to lead the nation in promoting renewable energy and energy efficiency, and the Green Communities Program is at the forefront of that effort. Massachusetts’ Green Communities are to be commended for their commitment to clean energy and energy efficiency projects.”

“Nearly half of the Commonwealth’s residents live in a community that has made a conscious decision to buck the energy status quo and become a leader in renewable energy adoption and smart energy use,” said DOER Commissioner Mark Sylvia. “When we launched Green Communities just a few years ago, we never predicted such an overwhelming response. Becoming a Green Community requires hard work, and this milestone is a testament to the eagerness with which cities and towns large and small have rolled up their sleeves in support of a clean energy future.”

Massachusetts sits at the end of the energy pipeline and imports all of its fossil-fuel based energy sources – some from areas unstable or hostile to the U.S. Of the \$22 billion Massachusetts spends annually to buy the energy that runs its power plants, buildings and vehicles, 80 percent flows out of state to places like South America, Canada, and the Middle East. That’s nearly \$18 billion in lost economic opportunity that Massachusetts stands poised to reclaim through investments in home-grown renewable energy and energy efficiency projects such as those supported by Green Communities grants.

By the end of this month, Massachusetts will have more than 118 megawatts of solar power. That’s enough electricity to power more than 18,600 homes, and when compared with fossil fuel-generated

electricity, the equivalent of taking 9,750 cars per year off the road. Installations this summer alone are poised to be more than five times the total solar power installed in all of 2008. There has been a twenty-fold increase in wind energy to 61 megawatts in just four years, enough to power nearly 19,600 homes. By the end of this year, Massachusetts will be more than halfway to its 2017 goal of 250 megawatts, with five years left to hit the target.

Grants for the communities designated today will be funded by Alternative Compliance Payments (ACP) made by electricity suppliers who do not meet their Renewable Portfolio Standard obligation to purchase a sufficient percentage of renewable energy. Green Communities grants also receive funding from proceeds of carbon allowance auctions under the Regional Greenhouse Gas Initiative (RGGI).

Using a formula that caps awards at \$1 million and provides each community with a \$125,000 base grant – plus additional amounts based on other criteria, DOER notified the selected communities of their eligibility for the following funding:

CITY OR TOWN	AMOUNT
Amherst	\$302,000
Ashland	\$164,325
Auburn	\$165,550
Berlin	\$140,350
Conway	\$139,650
Gill	\$139,900

Great Barrington	\$142,700
Huntington	\$140,650
Lakeville	\$158,275
Leominster	\$245,575
Northfield	\$143,750
Pelham	\$138,100
Richmond	\$137,300
Sunderland	\$146,450
Tisbury	\$140,925
Townsend	\$156,825
West Tisbury	\$143,250

In addition to grant eligibility, each Green Community designated today will receive a certificate from the Commonwealth and four road signs identifying it as an official Green Community.

[Click here](#) for more information on DOER's Green Communities program.

PATRICK-MURRAY ADMINISTRATION ANNOUNCES COMPREHENSIVE, NATION- LEADING ENERGY AUDITS FOR MASSACHUSETTS MILITARY BASES

\$1.5 million for energy efficiency, renewable energy and enhanced energy security at six military bases statewide

BOURNE – Thursday, January 17, 2013 – Lieutenant Governor Timothy Murray today joined Energy and Environmental Affairs Secretary Rick Sullivan at the Massachusetts Military Reservation to announce \$1.5 million in funding for a first-in-the-nation initiative that will include comprehensive energy audits of the state's six military bases.

An initiative of the Patrick-Murray Administration's Military Asset and Security Strategy Task Force, chaired by Lieutenant Governor Murray, the audits will build on the Commonwealth's leadership in clean energy, further align Massachusetts bases with the U.S. Department of Defense priorities and reduce energy consumption and costs.

"This is an excellent step forward, both for our valued military bases and for our energy goals in the Commonwealth," said Governor Deval Patrick. "I thank the Lieutenant Governor's Task Force for their innovative work and look forward to celebrating the results."

"Moving forward on these energy audits is a key example of the work the Task Force first set forth to complete," said Lieutenant Governor Murray, Chair of the Military Asset and Security Strategy Task Force. "The defense industry and our military bases rely heavily on energy, and it is critical that we develop innovative opportunities to enhance energy efficiency and deliver cost-savings for our bases."

The Military Asset and Security Strategy Task Force shares a goal with the U.S. Department of Defense, the nation's largest user of energy, to reduce energy costs at all military installations. To do so in the Commonwealth, the Massachusetts Department of Energy Resources (DOER) will procure a contractor to conduct a comprehensive review of each base, including assessing each base for their energy use; establishing opportunities for renewable energy installations on site; and exploring the possibility of microgrid integration. For more information, review the full scope of work on DOER's website, <http://www.mass.gov/eea/docs/doer/massachusetts-military-bases-clean-energy-background.pdf>

Funding for this program comes from the 2011 Alternative Compliance Payments (ACP) Spending Plan. ACPs are paid by electric retail suppliers if they have insufficient Renewable Energy Certificates to meet their compliance obligations under the Commonwealth's Renewable Portfolio Standard. DOER establishes the plan for the use of those funds to support clean energy development in Massachusetts.

"The Patrick-Murray Administration has made energy efficiency and renewable energy a priority in Massachusetts," said Secretary Sullivan. "These audits will allow us to move forward with innovative energy projects at our bases, some of the largest energy users in the Commonwealth."

"The National Association of State Energy Officials has conducted a six-month review of various states' efforts to aid the military in finding cost-effective, innovative solutions to modernizing energy infrastructure and making facilities more energy efficient and sustainable," said David Terry, Executive Director of NASEO. "While there are many fine examples, Massachusetts is poised to be the national leader with its comprehensive approach to aiding bases in evaluating their energy needs, identifying solutions, and facilitating implementation. It's another great Massachusetts partnership program that will enhance local economic development and at the same time support of the exceptional work of our nation's military personnel."

The Commonwealth's six military bases are the Massachusetts Military Reservation on Cape Cod; Westover Air Reserve Base in Chicopee; Barnes Air National Guard Base in Westfield; Natick Soldier Systems Center in Natick; Fort Devens; and Hanscom Air Force Base.

In 2012, for the second consecutive year, Massachusetts was ranked the top state in the nation for energy-efficiency policies and programs by the American Council for an Energy-Efficient Economy (ACEEE). This distinction recognizes the Commonwealth's ambitious energy agenda and accomplishments through the Green Communities Act, the Green Jobs Act and the Global Warming Solutions Act, all signed by Governor Patrick in 2008.

About the Military Asset and Security Strategy Task Force

Governor Patrick and Lieutenant Governor Murray have committed to supporting Massachusetts' military bases. In February 2012, with the support of Governor Patrick, Lieutenant Governor Murray signed Executive Order #541 creating the Military Asset and Security Strategy Task Force. As chair of the Task Force, Lieutenant Governor Murray and Task Force members led meetings including tours, roundtable discussions and committee meetings in support of the state's six military bases.

Over the last year, the Military Mission, Operations, Opportunities and Efficiencies Subcommittee of the Task Force, led by MassDevelopment and the National Guard, has joined base leadership to explore opportunities to achieve upgrades and efficiencies, including energy efficiencies, on each base.

In 2012, Lieutenant Governor Murray tasked MassDevelopment to collaborate with the UMass Donahue Institute and assess the economic benefits of Massachusetts' six military installations including. The report found that more than 46,500 jobs directly and indirectly are related to our installations that have an estimated economic impact of more than \$14.2 billion to Massachusetts.

To learn more about the Military Asset and Security Strategy Task Force, please visit: www.mass.gov/governor/militarytaskforce.

Supportive Statements

"Energy efficiency is intricately linked to our Nation's national security. Massachusetts and, in particular, the Massachusetts Military Reservation in my district, are already leaders on this front and are committed to further developing their self-sufficiency," said Congressman Bill Keating. "I applaud Governor Patrick and Lieutenant Governor Murray's initiative to help Massachusetts Military Reservation and other bases throughout Massachusetts identify additional opportunities for renewable energy and clean technology integration. It will not only help our environment and surrounding communities, but will also support the longevity of these installations, which in turn contribute greatly to our local economies. I stand ready to assist the Governor and Lieutenant Governor in moving this initiative forward and thank them for their tireless efforts on behalf of our military families, communities, and bases."

"Massachusetts is once again leading the way with state-of-the-art clean energy solutions, creating an opportunity for our military installations to serve as national models for efficiency and productivity," said Congresswoman Niki Tsongas. "I have worked with the Governor, Lieutenant Governor and their team to take important steps to ensure Massachusetts' bases have a strong and bright future, and remain some of our military's most innovative resources."

"I strongly believe we must always be looking at innovative ways to save money and increase our energy efficiency," said Congressman Jim McGovern. "These new efforts, under the guidance of the Task Force chaired by Lieutenant Governor Murray, will allow our military bases to become more efficient while increasing their security---a winning combination for the Commonwealth and our military. I commend the Patrick-Murray administrative for their innovative, forward thinking leadership on this critical issue."

"This funding will allow us to take a close look at how we can reduce energy costs at all of our military bases in Massachusetts," said Senate President Therese Murray. "The Massachusetts Military Reservation on Cape Cod has always displayed a strong commitment to this effort by taking advantage of their renewable energy options and other initiatives to reduce operational costs. The information gathered from these audits will help our bases continue their conservation efforts and promote energy efficiency in the Commonwealth."

"These energy audits for military bases represent an exciting new innovation for the Commonwealth," said Senator Marc Pacheco. "I am pleased that we will be able to take a look at these bases and figure out ways to improve their energy consumption."

"The Massachusetts National Guard is excited to be part of Lt. Gov. Murray's team to develop and strengthen our state's military and civilian partnerships. This initiative will greatly benefit the commonwealth and secure a responsible future for all its military installations through the use of clean and cost effective energy," said Major General L. Scott Rice, The Adjutant General, Massachusetts National Guard. "It's a great opportunity to explore new missions and build partnerships that will further our individual and collective agency goals."

"Westover strives to be a good neighbor as we fulfill national security objectives," said Colonel Steven Vautrain, 439th Airlift Wing Commander at Westover Air Reserve Base. "Being as efficient as possible with our limited resources makes good sense from both budgetary and mission-impact standpoints. We look forward to continuing our positive relationship with the Commonwealth and exploring ways to save taxpayer money through energy conservation."

"The joint nature with which the commands at the Massachusetts Military Reservation on Cape Cod approach reducing energy consumption along with the design, development and installation of renewable energy projects is providing the Massachusetts Military Reservation with a diverse energy portfolio that will lead the installation toward its goal of energy reliability, redundancy and most importantly energy security," said Colonel Anthony Schiavi, Executive Director, Massachusetts Military Reservation. "This Clean Energy Assessment will be an important tool for us to use in advancing our programs to that end as well as explore other areas in a rapidly growing area of technology."

"Camp Edwards fully supports and applauds the efforts of Lt. Governor Murray and the entire Task Force for establishing the Clean Energy Project Team," said Colonel Richard Crivello, Commander of Camp Edwards Army National Guard Training Site. "We enthusiastically look forward to working with the Project Team to find new and innovative ways to reduce our energy consumption and carbon footprint while continuing to provide modern necessary and compatible training facilities for our deploying Massachusetts Army National Guard and Northeast Region military units."

"The 104th Fighter Wing has a reputation of being an environmental steward; from our robust recycling programs to designing our infrastructure--integrating the newest in energy efficiencies, we are always looking for green-approaches to completing our mission of Homeland Defense," said Colonel James Keefe, 104th Fighter Wing Commander at Barnes Air National Guard Base. "We are excited to explore additional opportunities to decrease our carbon foot-print through collaborating with the Clean Energy Project Team and the Lt. Governor's office."

"We at Fort Devens welcome the opportunity offered by Massachusetts of having an external agency provide an assessment of our energy programs," said Lt. Colonel Steven F. Egan at Fort Devens.

"The Air Force is always looking at ways to reduce our operating costs, increase energy efficiency and reduce our environmental impact," said Colonel Lester Weilacher, Hanscom Air Force Base Commander. "We welcome this opportunity to explore such opportunities in partnership with the Commonwealth of Massachusetts."

PATRICK-MURRAY ADMINISTRATION REACHES 2017 SOLAR ENERGY TARGET, SETS NEW GOAL

BOSTON – Wednesday, May 1, 2013 – Governor Deval Patrick today joined Energy and Environmental Affairs Secretary Rick Sullivan and other energy officials to celebrate 250 megawatts of solar energy installed – reaching the Patrick-Murray Administration’s goal four years early – and announced a new goal of 1,600 MW by 2020.

“When we set ambitious goals and invest in achieving them, Massachusetts wins,” said Governor Patrick. “The many businesses and homeowners who have taken advantage of cost effective renewable energy installations are helping to create both a safer and a more prosperous Commonwealth for the next generation.”

"By working with our legislative and municipal partners throughout the Commonwealth, we have achieved an ambitious goal far ahead of schedule while also supporting the state’s clean energy economy," said Lieutenant Governor Timothy Murray. "We will build on this momentum, and continue to invest in renewable energy to lead the nation in this growing industry."

Under Governor Patrick’s leadership, the amount of solar energy installed has increased 80 times from the 3 MW installed in 2007. Massachusetts has established strong incentives for renewable energy production that have led to significant cost reductions in solar electricity, making clean energy more accessible to Massachusetts businesses and residents.

“This exciting announcement is a direct result of Governor Patrick’s leadership in the clean energy revolution,” said Secretary Sullivan. “The initiatives and incentives we have established in Massachusetts are saving residents money, creating jobs and protecting our environment.”

“Massachusetts has a lot to celebrate, including the success we’ve had reducing the cost of solar,” said Department of Energy Resources Commissioner Mark Sylvia. “Those businesses, cities and towns, and homeowners who invest in renewable energy will reap the benefits of stable, reliable costs from this clean, local source of electricity.”

The Commonwealth’s Renewable Portfolio Standard (RPS) Solar Carve-Out program has established a strong solar energy market in Massachusetts, with a current cap of 400 MW. As that target approaches, state energy officials are fast-tracking revisions to expand the program.

Residential solar electricity prices dropped 28 percent in Massachusetts in 2012, according to a report

issued by the Solar Energy Industries Association in March 2013. This was the second biggest drop in the nation last year.

In addition to strengthening the RPS, the Green Communities Act, signed by Governor Patrick in 2008, established the Green Communities designation and grant program that provides technical assistance and incentives to support solar development in the Commonwealth's municipalities. There are currently 110 designated Green Communities in the Commonwealth and nearly half of all Massachusetts residents live in a Green Community.

These targeted investments have led to economic growth and job creation. The Massachusetts Clean Energy Center's (MassCEC) 2012 Massachusetts Clean Energy Industry Report showed an 11.2 percent growth in Massachusetts clean energy jobs between 2011 and 2012. Nearly 5,000 clean energy firms employ more than 71,000 clean energy workers.

"The success of the solar industry and the clean energy sector as a whole is a testament to the commitment Massachusetts has made to become a renewable energy leader," said MassCEC CEO Alicia Barton. "While we celebrate the success of one goal, we're excited to tackle the next, creating more local jobs and keeping more energy dollars here at home."

The solar power installed in Massachusetts generates enough electricity to power more than 37,000 homes for a year, and when compared with fossil fuel-generated electricity, is the equivalent of eliminating the greenhouse gas emissions from nearly 26,000 cars a year.

When the new goal is reached, 1,600 MW of installed solar will generate enough electricity to power approximately 240,000 homes annually – the equivalent of 97 percent of Boston households – and reduce the greenhouse gas emissions produced by about 166,000 cars.

"The Solar Energy Industries Association (SEIA) applauds the Commonwealth's phenomenal success in attracting investment, innovative companies and jobs while driving down costs," said SEIA Senior Vice President of State Affairs Carrie Cullen Hitt. "Massachusetts ranks number seven in the nation for solar installations (2012) and number two for driving down costs, which dropped over 28 percent in 2012. We look forward to expanding this success with Governor Patrick and his team."

Massachusetts sits at the end of the energy pipeline, spending billions of dollars annually to import all of its fossil fuel based energy sources from places like South America, Canada and the Middle East. That is lost economic opportunity that Massachusetts stands poised to reclaim through investments in home-grown renewable energy programs.

05.01.13 250 MegaWatt Goal Reached

AS PREPARED:

Governor Deval L. Patrick

250 MegaWatt Goal Reached

Drydock Center

Wednesday, May 1, 2013

Good afternoon and thank you Secretary Sullivan for that warm introduction. And thank you all for being with us to celebrate this important milestone.

Our Administration is about investing in education, innovation and infrastructure. This approach has worked throughout our history – and is working here, today. It's how we shape our own future.

Five years ago, we took a fresh look at our energy future. Energy in Massachusetts has long been relatively costly. With no oil, coal or natural gas of our own, we are at the end of the pipeline and are subject to the whims of a global energy market. We bear the economic and environmental costs associated with finding, extracting and transporting fuels from all corners of the world.

So in 2007, I announced several goals related to clean energy. Despite having only 3.5 megawatts of solar electricity installed at the time, I set a target of hitting 250 megawatts of solar by 2017.

We installed more than 100 megawatts of solar power in 2012 alone – ranking us sixth last year in total capacity added.

Let me to help you visualize exactly what 250 megawatts of solar power looks like. It's enough electricity to power more than 37,000 homes for a year. When compared with fossil fuel-generated electricity, it's the equivalent of eliminating the greenhouse gas emissions from nearly 26,000 cars a year.

I'm proud to announce today we've hit that milestone – four years early.

We have achieved this goal thanks to the hard work by many people here today. I want to particularly thank Secretary Sullivan and the several commissioners from EOEAA.

Now, let's build on that momentum. Today I am announcing a new goal of 1,600 megawatts by 2020.

I have directed Secretary Sullivan and his team to take a fresh look at the incentives that have

successfully grown the solar industry in Massachusetts, and expand our solar carve-out program to ensure certainty for the financing world, affordability for consumers, and stability for the market.

We are ranked second lowest in installation, fourth in the nation for total jobs in the solar sector, and we have more than 200 solar installation companies now working in Massachusetts. These companies are among the nearly 5,000 clean energy firms employing nearly 72,000 people in the Commonwealth.

The point is: Strategic investments work. We can choose growth and wise environmental stewardship.

So, we will not let up. We will continue to work together. In that spirit, let me thank the many here who have coached, counseled and partnered with my team on these many initiatives. To my team, outstanding work. Where we lead the Nation, it's because of you. Thank you.