

Massachusetts Renewable Energy Portfolio Standard (RPS)

Program Status and Overview of Section 83 Long Term Contracts

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Massachusetts Wind Working Group Meeting

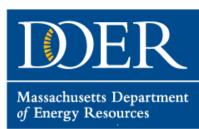
Mount Wachusett
Community
College

May 11, 2012

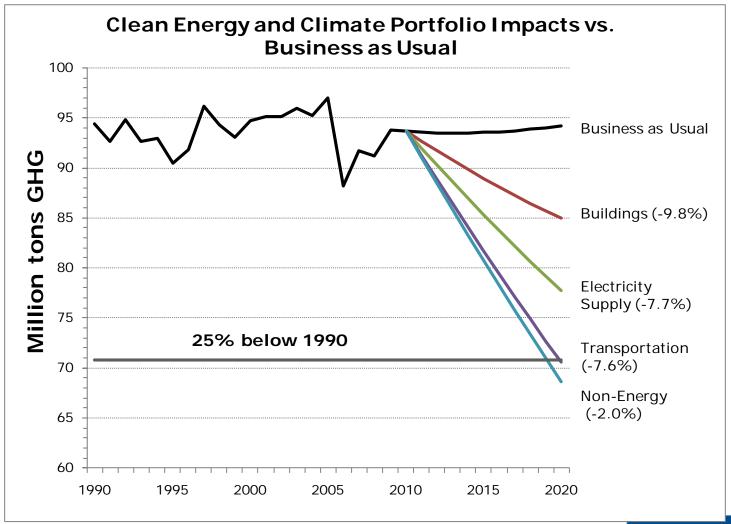
DOER Mission

Creating a Cleaner Energy Future for the Commonwealth

- Ensure deployment of all cost-effective energy efficiency
- > Maximize development of clean energy resources
- Create and implement energy strategies to assure reliable supplies and improve the cost of clean energy relative to fossil-fuel based generation
- Support Massachusetts' clean energy companies and spur Massachusetts' clean energy employment

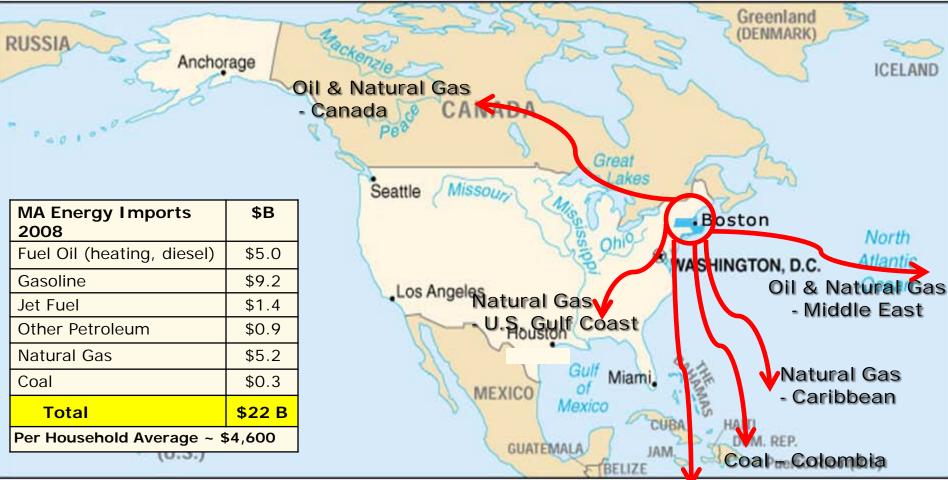


Clean Energy and Climate Plan for 2020





\$18B Energy Dollars Flow Out of MA We spend \$22B per year on energy; 80% leaves MA





Renewable Energy Framework

Patrick/Murray Administration Goals

> Solar: 250 MW installed by 2017 / Wind: 2000 MW installed by 2020

Renewable Energy Portfolio Standards (RPS/APS)

- > Creates <u>demand</u> (Minimum Standard) and provides additional revenue (Renewable Energy Certificate) for qualified generation
- Establishes an obligation of all Massachusetts Retail Electric Suppliers to provide a percent of their load with renewable energy generation
- > Strategy is to "green up" the ISO-NE grid. Generation from throughout New England and adjacent control areas is eligible

Green Communities Act

Net Metering, Long Term Contracts and utility-owned solar PV

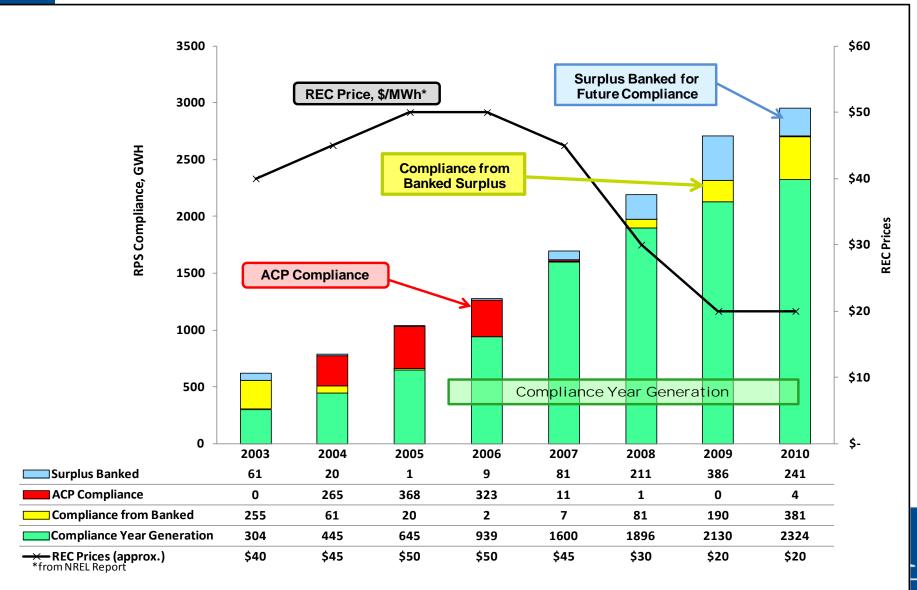
Mass. Clean Energy Center (MassCEC)

Provides targeted funding programs to support development of RE supply in Massachusetts.

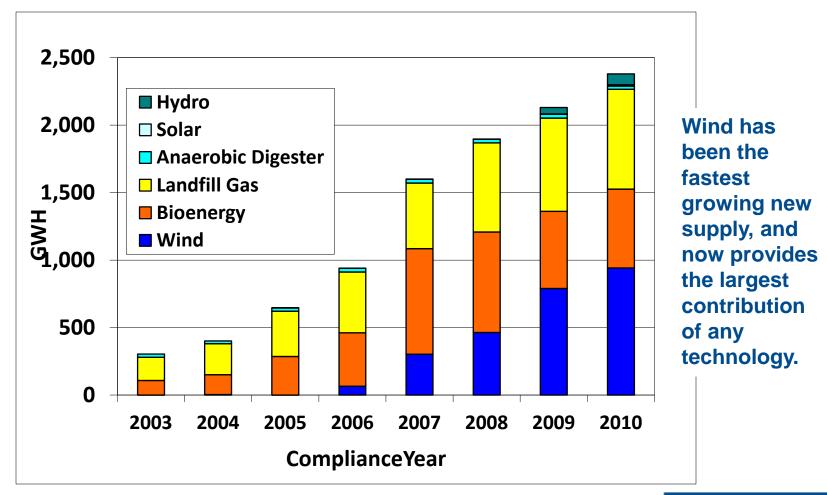
Massachusetts Department

of Energy Resources

RPS Class I Compliance & REC Prices

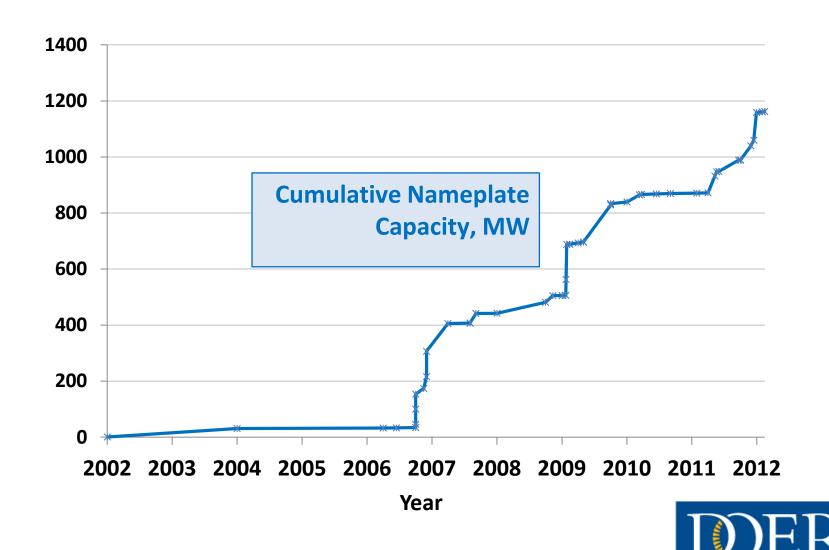


RPS Class I Compliance & REC Prices





MA RPS Qualification – Wind Capacity



Massachusetts Department

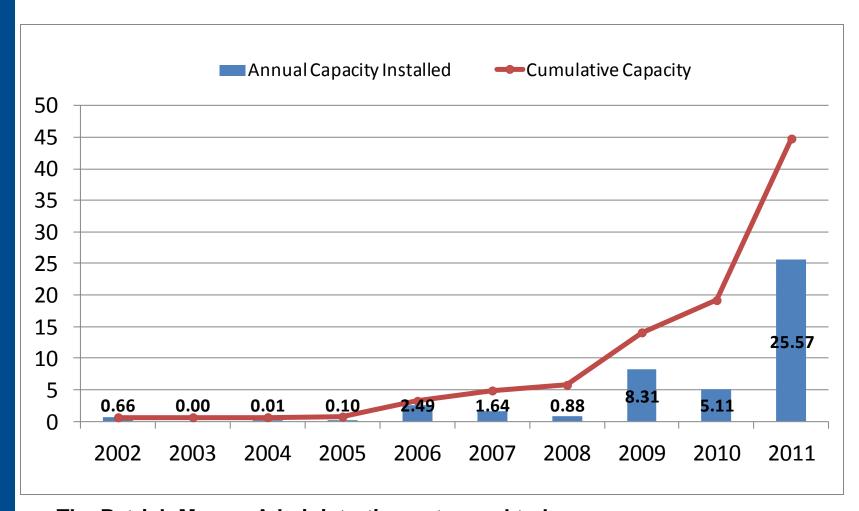
of Energy Resources

MA RPS Wind Qualification: 2010 - present

Project	Location		Capacity, MW	RPS Effective Date	
DCAM Wind Aggregation	Winthrop	MA	6.1	1/1/2010	
Stetson Wind II		ME	25.5	3/12/2010	
Town of Falmouth - Wind 1	Falmouth	MA	1.65	3/23/2010	
Notus Wind I	Falmouth	MA	1.65	6/15/2010	
Templeton Wind Turbine	Templeton	MA	1.65	9/2/2010	
Berkshire East	Charlemont	MA	0.9	1/28/2011	
Town of Portsmouth WTG	Portsmouth	RI	1.5	4/1/2011	
Rollins Wind Plant	Lincoln	ME	60	5/10/2011	
Berkshire Wind Power Project	Hancock	МА	15	5/20/2011	
Ipswich Wind Farm 1	Ipswich	MA	1.6	6/1/2011	
Sheffield Wind Plant	Sheffield	VT	40	9/20/2011	
Nantucket Wind 100	Nantucket	MA	0.1	10/1/2011	
Allen Farm Wind	Various	MA	0.1	10/1/2011	
Barnstable WWTP Wind	Barnstable	MA	0.2	10/1/2011	
Record Hill Wind	Roxbury	ME	50.6	11/28/2011	
Spruce Mountain Wind	Bryant Pond	ME	20	12/15/2011	
Granite Reliable Wind Project	Coos County	NH	99	12/30/2011	
Lightolier Wind I	Fall River	MA	2	2/1/2012	
Town of Falmouth - Wind II	Falmouth	MA	1.65	2/14/2012	
	Total Qualified		329	2010-present	



Installed Wind in Massachusetts



The Patrick-Murray Administration set a goal to have 2,000 MW of wind energy installed in Massachusetts by 2020. The above figures represent the cumulative amount installed as of December 1, 2011.



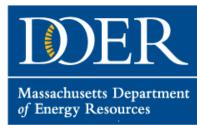
Green Communities Act: Section 83 LTKs

Section 83 renewable energy project core requirements

- Commercial operation date on or after January 1, 2008
- Qualified by DOER for RPS Class I
- Be determined by the DPU to:
 - provide enhanced electricity reliability within the Commonwealth;
 - contribute to moderating system peak load requirements;
 - be cost effective to Massachusetts electric ratepayers over the term of the contract;
 - where feasible, create additional employment in the Commonwealth.

Modifications resulting from TransCanada lawsuit

- The geographic limitation on eligible facilities was eliminated through DPU regulation
- > The requirement that additional employment be created "in the Commonwealth" was eliminated through DPU regulation



Section 83 LTKs: Outcomes

Utility	Contracted Projects	Capacity, MW	State	Approximate Portion of 3% of Load Target	
NStar	Hoosac Wind	28.5	MA		
	Groton	48	ME	1.6%	
	Blue Sky	32.4	ME		
	Cape Wind (contract pending approval)	129	MA	>1.5%	
WMECO	Noble Passadumkeag	37.5	ME	3%	
Unitil	Stillwater B Hydro	2.2	ME	3%	
National Grid	Cape Wind	234	MA	3%	

➤ All wind projects, except for Stillwater B Hydro



Thank you!

Questions?

