

## SOLAR PROJECTS BIG WINNER IN TRI-STATE CLEAN ENERGY RFP

October 27<sup>th</sup>, 2016

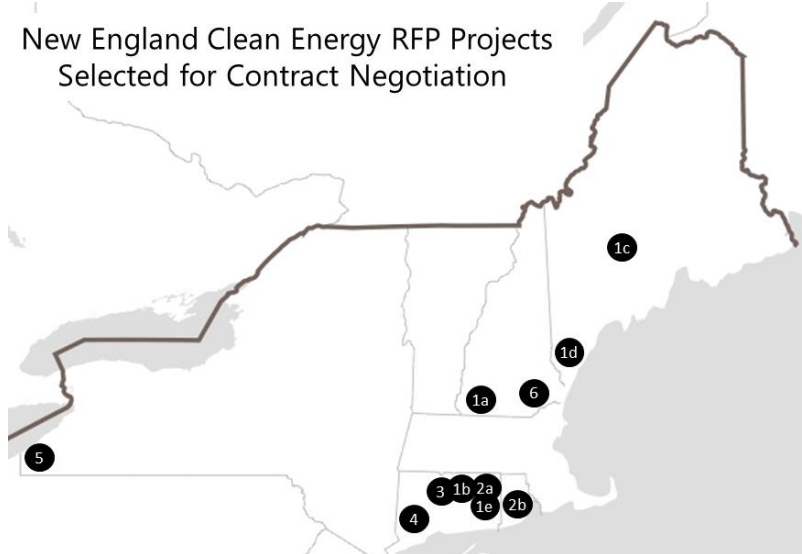
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To: Clients and Colleagues  
From: John Dalton, Power Advisory LLC

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The various electric distribution companies and state agencies in Massachusetts, Connecticut and Rhode Island announced the results of the Clean Energy RFP Tuesday, indicating that contracts were being negotiated with six developers for about 460 MW. Surprisingly, about two-thirds of the capacity is represented by solar projects (one of which also offers energy and capacity from fuel cells, which is a Class I resource in Connecticut) and the remaining one-third from wind generation. The success of solar projects appears to reflect the significant declines in solar costs in 2016, which conceivably were either “baked into” the solar bids or reflected in a price refresh. Both these solar and wind projects appear to avoid the need for costly transmission upgrades and congestion, with solar projects better able to capitalize on more valuable locations in Southern New England.

New England Clean Energy RFP Projects  
Selected for Contract Negotiation



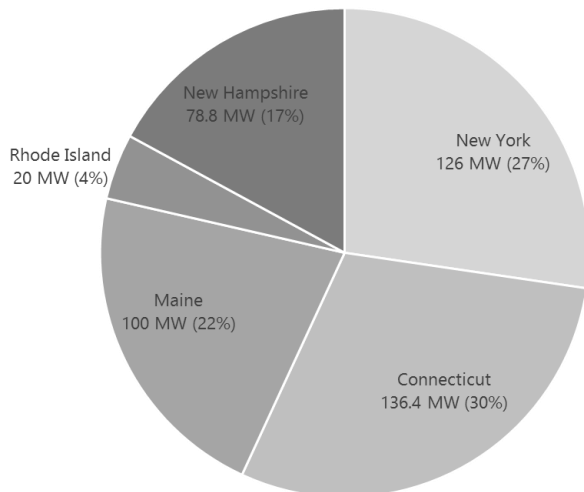
Project	Developer	Location	Size (MW)	Technology	
1a	Chinook Solar Project	Ranger Solar, LLC / MAP Royalty, Inc.	Fitzwilliam, NH	50	Solar
1b	Enfield Solar Project	Ranger Solar, LLC / MAP Royalty, Inc.	Enfield / Somers, CT	20	Solar
1c	Farmington Solar Project	Ranger Solar, LLC / MAP Royalty, Inc.	Farmington, ME	50	Solar
1d	Sanford Airport Solar Project	Ranger Solar, LLC / MAP Royalty, Inc.	Sanford, ME	50	Solar
1e	Quinebaug Solar Project	Ranger Solar, LLC / MAP Royalty, Inc.	Brooklyn / Canterbury, CT	50	Solar
2a	Woods Hill Solar Project	RES Americas Development, Inc.	Pomfret, CT	20	Solar
2b	Unknown	RES Americas Development, Inc.	Cranston, RI	20	Solar
3	Simsbury Solar Farm	Deepwater Wind, LLC	Simsbury, CT	26.4	Solar
4	Candlewood Solar Project	Ameresco, Inc.	New Milford, CT	20	Solar
5	Cassadaga Wind Farm	EverPower Wind Holdings, Inc.	Chautauqua County, NY	126	Wind
6	Antrim Wind Project	Antrim Wind Energy, LLC	Antrim, NH	28.8	Wind

Winning solar bidders include: (1) Ranger Solar, which appears to have been asked to negotiate final contracts for 220 MW, with four projects for (a) 50 MW in Fitzwilliam, NH, (b) 20 MW in Enfield, CT, (c) 50 MW in Farmington, ME, (d) 50 MW in Sanford, ME, and (e) 50 MW in Brooklyn, CT; (2) RES Americas, which bid two solar projects; the 20 MW Woods Hill Solar Project in Pomfret, CT and another 20 MW solar project located near Cranston, RI; (3) Deepwater Wind, which submitted a 26.4 MW solar project located in Simsbury, CT that has a guaranteed completion date by the start of 2019; and (4) Ameresco, which submitted a 20 MW solar and fuel cell project in New Milford, CT.

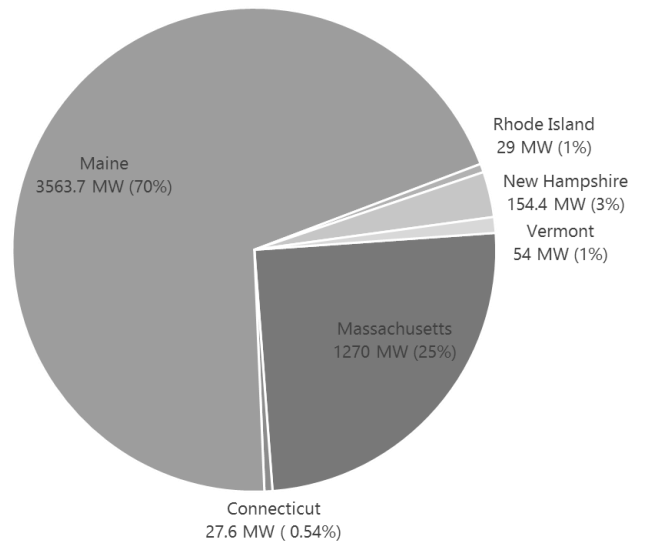
The successful wind projects were awarded to: (5) Cassadaga Wind Project, a 126 MW project located in Chautauqua County (Western), NY which is midway under development by EverPower Wind Holdings and in the queue for grid connection as overseen by NY-ISO; and (6) Antrim Wind in Antrim, New Hampshire (Northern), a 28.8 MW project submitted by a team comprised of Eolian Renewable Energy, Walden Green Energy, and an investment subsidiary of German utility and renewables developer RWE AG.

The pie charts below contrast the location of projects in the Tri-State Clean Energy RFP versus the composition of Class I renewable projects in the ISO-NE transmission queue. This comparison clearly shows that a considerably greater portion of successful projects were located in Southern New England than reflected in the ISO-NE transmission queue, allowing them to avoid the transmission congestion and need for network upgrades, which increasingly plagues wind projects in Maine which in turn represent 70% of the ISO-NE transmission queue for Class I renewable projects.

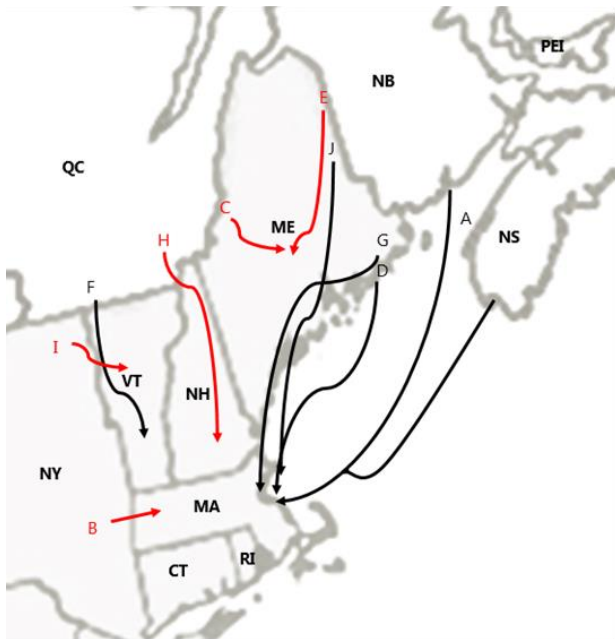
Tri-State Clean Energy RFP Allocation by State



Renewables Projects in the ISO-NE Transmission Queue



Interestingly, no wind projects in Maine or transmission projects were selected. This would appear to enhance the competition for the forthcoming Massachusetts Clean Generation RFP. We wonder whether evaluators sought to ensure a full market test for such transmission proposals as this RFP is likely to provide rather than the more limited competition offered by this RFP as the following figure suggests.



**Projects that bid in Tri-Sates Clean Energy RFP**  
**Projects that may bid in MA Clean Generation RFP**

- A. Atlantic Link – Emera, NHT
- B. Clean Energy Connect-Brookfield, EDP, Iberdrola, Eversource
- C. Maine Clean Power Connection – Central Maine Power (CMP)
- D. Maine Green Line- Anbaric, National Grid
- E. Maine Renewable Energy Interconnect – CMP, Emera Maine
- F. New England Clean Power Link- TDI New England
- G. Northeast Energy Link- Emera Maine, National Grid
- H. Northern Pass- Eversource/HQP
- I. Vermont Green Line- Anbaric, National Grid
- J. Main Power Express – Loring Holdings, National Resource Energy, LLC, TDI