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Power to be freeSM

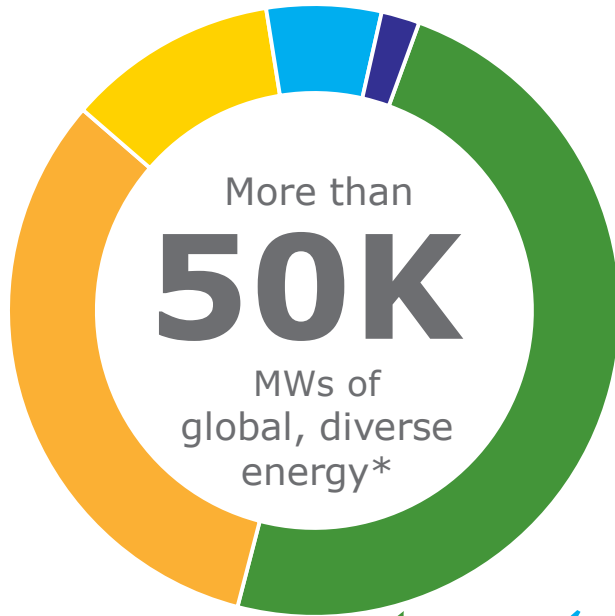
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New England's Changing Net Metering Landscape

Consumer Liaison Group



Our strength in numbers



Our generation capacity can support nearly **1/3 of the US population**



Nearly **3,000,000** recurring retail customers



3rd largest renewable generation company in the U.S.

\$3 billion+

Invested on environmental improvements



Largest independent power producer in U.S.



Fortune 500

- and -
S&P 500 Index

*NRG and NRG Yield Assets excluding 1,346 MW thermal and 68 MW of Home Solar



Why is this discussion so timely?

- Massachusetts: 188MW of community, municipal/public and C&I projects are on a wait list
- Tens of thousands of customers want to go solar but cannot
- Net metering helps customers understand the value proposition
- Net metering empowers customers to make their own energy choices and do their part to help meet policy goals



How does net metering work?

- Net metering allows customers of certain electric distribution companies to receive credit for excess generation from onsite solar or other qualifying technologies.
- In turn, these credits may offset the value of electricity purchases from the grid.
- Customers are only billed for their "net" energy use over the course of a billing period, typically one month.



Net metering types

- Conventional net metering
- Aggregate net metering
- Virtual/community net metering



Each state has a different approach ...

STATE	CAP	LIMITS ON INDIVIDUAL SYSTEMS	NET EXCESS GENERATION
CT	No limit specified	2 MW	Credited to customer's next bill at retail rate; excess reconciled annually at either avoided-cost rate or time-of-use/generation rate (for PV systems)
MA	4 % private, 5% public of utility's historical peak load	10 MW for net metering by a municipality or other governmental entity; 2 MW for all other "Class III" systems; 1 MW for all other "Class II" systems; 60 kW for all other "Class I" systems	Varies by system type and customer class
ME	No limit specified	660 kW for IOU customers; 100 kW for muni and co-op customers (although they may offer up to 660 kW voluntarily)	Credited to customer's next bill at retail rate; granted to utility at end of 12-month billing cycle
NH	50 MW statewide, 2 MW for CHP	1 MW for most renewables, 100 kW for wind, 30 kW for CHP	Credited to customer's next bill at retail rate; carries over indefinitely
RI	3% of peak load (2 MW reserved for systems under 50 kW)	5 MW (systems must be "reasonably designed" to generate only up to 100% of annual electricity consumption)	Credited at avoided cost; rolled over to next bill or purchased by utility
VT	15% of utility's 1996 peak demand or peak demand during most recent calendar year (whichever is greater)	2.2 MW for military systems; 20 kW for micro-CHP; 500 kW for all other systems	Credited to customer's next bill at retail rate; excess credits not used within 12 months of generation granted to utility



... So state market dynamics differ

<u>State</u>	<u>Solar jobs (2015)</u>	<u>Jobs rank per capita</u>	<u>Homes powered by solar (2015)</u>	<u>Total solar capacity (2014)</u>	<u>Capacity rank vs. national</u>
ME	330	43	3,703	13 MW	34
NH	731	17	3,207	14 MW	34
RI	941	11	3,173	15 MW	32
VT	1367	3	24,402	100 MW	22
CT	1951	18	31,255	192 MW	16
MA	15,095	2	163,846	944 MW	6

Sources: The Solar Foundation, SEIA



Net metering policy context is changing

- Customer demand is high, solar expected to grow
- States are working to meet emissions goals
- Utilities are concerned about impact of greater renewables penetration on the grid and their cost recovery
- Maturity of state markets varies
- The efficiency of rooftop solar technologies and their deployment continues fast improvement
- Industry is focused on reducing “soft costs”
- In some states, solar is a significant source of job growth



New England states are responding

CONNECTICUT

- State changing shared clean energy facility pilot program (6 MW) to ensure utilities can recover costs

MAINE

- Bill proposes to transition retail net metering to a 20-year contract at a set price for net exports measured hourly

MASSACHUSETTS

- National Grid private cap reached 1 year ago, legislative impasse

NEW HAMPSHIRE

- Caps hit, Legislature likely to double cap to 100 MW

RHODE ISLAND

- Governor's budget proposes expanding the scope of net metering to include third-party financed systems

VERMONT

- PSB's draft net metering rule preserves retail net metering but unique approach of combining net metering and incentives make solar economics challenging

Where do we go from here?

- More solar is coming; are utilities focused on updating grid to accommodate DER?
- Consumer's perspective is key; Net metering provides value and simplicity
- Moving beyond caps: A sustainable growth framework for distributed solar
- Comprehensive Value of Solar studies confirm significant benefits from net metering
- Look beyond competing data sets: What are the states' policy objectives? Jobs growth? Empowering consumer energy choice? Emissions reductions?

Thank you

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