



INTELLIGENT ENERGY SOLUTIONS
FROM A GLOBAL LEADER



Lincoln Sudbury Regional High School

February 26, 2014

Previous Proposal

- Nstar's request
 - "...This design presents problems to NSTAR and we would prefer that this design be modified to be a "Stand-alone" design rather than "behind the meter" design." –Joseph Feraci, NStar
 - Would add time and cost to the project
- Demand Heavy Tariff
 - Analysis from December demonstrated that solar would decrease demand in the average month by 28%
 - Regardless of solar production, a spike in peak demand could jeopardize savings from the PPA

Current proposal

- In front of the meter system
- Net metering credits will be valued at A9 tariff by moving the system “in front of the meter.”
 - Credits are generated at a much higher value (~\$.1884/kwh)
- Good hedge on rising NStar costs
 - As NStar supply/T&D costs rise, as will the credit value
- Tracking Trigger
 - Acts as “floor” for fixed price contracts

Project savings

Contract Year	kWh Produced	Net Meter Credit Rate	SunEd PPA Rate	Net Meter Credit Rate Less PPA Rate	Yearly PPA / Net Meter Benefit
1	1,617,968	\$ 0.1884	\$ 0.1150	\$ 0.0734	\$ 118,751
2	1,609,878	\$ 0.1912	\$ 0.1150	\$ 0.0762	\$ 122,706
3	1,601,829	\$ 0.1941	\$ 0.1150	\$ 0.0791	\$ 126,687
4	1,593,820	\$ 0.1970	\$ 0.1150	\$ 0.0820	\$ 130,694
5	1,585,851	\$ 0.2000	\$ 0.1150	\$ 0.0850	\$ 134,727
6	1,577,921	\$ 0.2030	\$ 0.1150	\$ 0.0880	\$ 138,786
7	1,570,032	\$ 0.2060	\$ 0.1150	\$ 0.0910	\$ 142,872
8	1,562,182	\$ 0.2091	\$ 0.1150	\$ 0.0941	\$ 146,984
9	1,554,371	\$ 0.2122	\$ 0.1150	\$ 0.0972	\$ 151,125
10	1,546,599	\$ 0.2154	\$ 0.1150	\$ 0.1004	\$ 155,292
11	1,538,866	\$ 0.2186	\$ 0.1150	\$ 0.1036	\$ 159,488
12	1,531,171	\$ 0.2219	\$ 0.1150	\$ 0.1069	\$ 163,712
13	1,523,516	\$ 0.2252	\$ 0.1150	\$ 0.1102	\$ 167,965
14	1,515,898	\$ 0.2286	\$ 0.1150	\$ 0.1136	\$ 172,247
15	1,508,319	\$ 0.2321	\$ 0.1150	\$ 0.1171	\$ 176,559
16	1,500,777	\$ 0.2355	\$ 0.1150	\$ 0.1205	\$ 180,900
17	1,493,273	\$ 0.2391	\$ 0.1150	\$ 0.1241	\$ 185,271
18	1,485,807	\$ 0.2427	\$ 0.1150	\$ 0.1277	\$ 189,673
19	1,478,378	\$ 0.2463	\$ 0.1150	\$ 0.1313	\$ 194,106
20	1,470,986	\$ 0.2500	\$ 0.1150	\$ 0.1350	\$ 198,570
Total					\$3,157,116

Financing Capabilities

- \$150 million construction revolver (Deutsche Bank, Portigon, TD Bank)
- Over \$5 Billion secured in project financing to date (Wells Fargo, DLL, PNC)
- Broad investor pool for MA
- 32+ MW under construction in MA

Construction

- Structure will be designed to meet and exceed local building codes for wind and snow loads.
 - The canopy design will allow all drainage to be directed to the center of the canopy therefore avoiding any sliding snow into the drive aisles or pedestrian areas.
 - Canopy will have a water management system to provide a water tight canopy construction
 - Steel structure will be designed to account for snow drifting at center of canopy
 - Canopy will provide clearances to allow for emergency and maintenance vehicles and equipment (min clearance of 13'-6")

Construction (cont.)

- Lighting
 - Lighting will be provided at code required illumination levels under all canopies
 - Fixtures will be LED type to reduce energy consumption

- Security
 - Executed contract indemnifies LSRHS for incidents related to provider's negligence

Next Steps

- Amend current contract with proposed net meter credit language
- Finish permitting process
- Execute Interconnection Services Agreement (ISA)
- Begin construction late Spring 2014