

Table 1: Year 1 Est. Savings & Test for Worst-Case Shadow Impact

2020 PPA Sites	Year 1 Estimated Savings Est. Aug. 2020, Block 4	All Shadow Scenario: PPA rate goes up 50%
Ridley School		
Solar kWh	283,000	283,000
Cost Grid kWh	0.11445	0.11445
PPA Rate (fixed)	0.075	0.1125
Save/kWh	0.03945	0.00195
Save/Yr	11164.35	551.85
Runkle School		
Solar kWh	190,000	190,000
Cost Grid kWh	0.11445	0.11445
PPA Rate (fixed)	0.084	0.126
Save/kWh	0.03045	-0.01155
Save/Yr	5785.5	(2,194.50)
High School		
Solar kWh	179,000	179,000
Cost Grid kWh	0.11445	0.11445
PPA Rate (fixed)	0.086	0.129
Save/kWh	0.02845	-0.01455
Save/Yr	5092.55	(2,604.45)
Kirrane Aquatics Center		
Solar kWh	317,000	317,000
Cost Grid kWh	0.11445	0.11445
PPA Rate (fixed)	0.08	0.12
Save/kWh	0.03445	-0.00555
Save/Yr	10920.65	(1,759.35)
Total Year 1 Savings	\$ 32,963.05	\$ (6,006.45)

Note: Solect is also committing to a total of \$157,000 in Pilot Payments; \$10,336 in first year.

Table 2: Est. Cost to Purchase Renewable Equiv. for Solect-Purchased Power

Year 2020	Year 2050
969,000 kWh	969,000 kWh
969 MWh equivalent	969 MWh equivalent
16% State Equivalent %	55% State Equivalent %
40 REC Price*	40 REC Price*
\$ 6,201.60 per year	\$ 21,318.00 per year

* REC prices may have gone from \$26 in 2019 when Bay State estimated numbers for us to \$40 in Aug 2020. See: <https://poweradvisoryllc.com/new-england-class-i-rec-market-update>
 Note: 1 REC = 1MWhr of renewable electricity

Table 3: Testing for Break-Even with Variability in Future Electricity Costs

Current Constellation Rate is .0888 of the .11445 "Cost Grid" kWh.
 If future supplier rate falls more than another .02565 on average for next 20 years,
 Town would be locked in at a loss for this portion of our electricity purchase.
 Eversource residential supply rates in last six months dived .02545 from Jan to July 2020.
 Current conversations with Bay State do not expect an additional drop of this magnitude.