

## Estimated Financials\* for Wind Turbine Operating Scenarios

Scenario Name -->	Both Turbines, 20-Hour Operation	Wind 1 16-Hour Operation, Wind 2 24/7 Operation	Wind 1 20-Hour Operation, Wind 2 24/7 Operation	Both Turbines, 24/7 Operation
Est. Production (MWh), by Case	6,306	6,284	6,834	7,513
As % of Uncurtailed Production	84%	84%	91%	100%
<b>Net Cash Flow:</b>				
<b>FY 2015</b>	\$59,872	\$88,802	\$155,065	\$220,117
<b>FY 2016</b>	\$64,769	\$93,318	\$159,238	\$223,952
<b>FY 2017</b>	\$55,775	\$84,269	\$148,300	\$211,134
<b>FY 2018</b>	\$56,740	\$85,145	\$148,106	\$209,868
<b>FY 2019</b>	\$187,079	\$215,382	\$277,537	\$338,485
<b>FY 2020</b>	\$216,348	\$244,441	\$308,973	\$372,266
<b>FY 2021</b>	\$244,973	\$272,861	\$339,710	\$405,294
<b>FY 2022</b>	\$285,257	\$312,878	\$383,650	\$453,109
<b>FY 2023</b>	\$304,823	\$326,098	\$401,446	\$475,430
<b>FY 2024</b>	\$284,224	\$305,268	\$384,230	\$461,786
<b>FY 2025</b>	\$317,598	\$338,434	\$420,374	\$500,872
<b>Funds Available for Operation and Mitigation</b>	<b>\$2,077,456</b>	<b>\$2,366,895</b>	<b>\$3,126,630</b>	<b>\$3,872,313</b>

\* Prepared by Sustainable Energy Advantage LLC, with assumptions as directed by the Town of Falmouth.

\*\* Reserve contribution increased (from previous analysis) by approximately \$70K per year.

**Assumptions for All Cases:**

The Operating Reserve Fund is replenished @ \$200,000 per year for 5 years (FY14 - FY18)

The obligation to deliver Wind 1 RECs to Mass CEC during years 6 - 20 has been forgiven.

All RECs from Wind 1 (formerly obligated to MassCEC) are assumed resold into the spot market @ \$25/MWh

**Note:**

Electricity markets are inherently volatile. This affects the market value of net metering credits, excess electricity sold at wholesale, and RECs over time. This analysis relies on the most recently available data to estimate future net metering credits and REC values. Deviations from individual forecasts should be expected as market conditions change, and it is therefore appropriate to consider a range of potential outcomes to make an informed decision.



## Sustainable Energy Advantage, LLC

10 Speen Street, 3rd Floor, Framingham, MA 01701 • Tel: 508.665.5850 • Fax: 508.665.5858 • bgrace@seadvantage.com • www.seadvantage.com

**Estimated Financials\* for Wind Turbine Operating Scenarios**

Scenario Name -->	12-Hour Operation (Temporary Measure)	WTOP Breakeven Case, with Adjusted Reserve Requirement**	Both Turbines, Optimized 16-Hour Operation	Wind 1 12-Hour Operation, Wind 2 24/7 Operation	Both Turbines, 20-Hour Operation	Wind 1 16-Hour Operation, Wind 2 24/7 Operation	Wind 1 20-Hour Operation, Wind 2 24/7 Operation	Both Turbines, 24/7 Operation
Est. Production (MWh), by Case	3,823	5,078	5,144	5,682	6,306	6,284	6,834	7,513
As % of Uncurtailed Production	51%	68%	68%	76%	84%	84%	91%	100%
<b>Net Cash Flow:</b>								
<b>FY 2015</b>	(\$274,125)	(\$103,333)	(\$94,382)	\$23,281	\$59,872	\$88,802	\$155,065	\$220,117
<b>FY 2016</b>	(\$267,026)	(\$97,407)	(\$88,446)	\$28,135	\$64,769	\$93,318	\$159,238	\$223,952
<b>FY 2017</b>	(\$268,198)	(\$102,515)	(\$93,762)	\$20,920	\$55,775	\$84,269	\$148,300	\$211,134
<b>FY 2018</b>	(\$262,723)	(\$99,283)	(\$90,649)	\$22,823	\$56,740	\$85,145	\$148,106	\$209,868
<b>FY 2019</b>	(\$128,941)	\$32,801	\$41,346	\$153,827	\$187,079	\$215,382	\$277,537	\$338,485
<b>FY 2020</b>	(\$109,029)	\$57,477	\$66,274	\$180,552	\$216,348	\$244,441	\$308,973	\$372,266
<b>FY 2021</b>	(\$89,517)	\$81,620	\$90,663	\$206,699	\$244,973	\$272,861	\$339,710	\$405,294
<b>FY 2022</b>	(\$64,816)	\$114,239	\$123,702	\$242,871	\$285,257	\$312,878	\$383,650	\$453,109
<b>FY 2023</b>	(\$50,986)	\$131,019	\$140,625	\$251,614	\$304,823	\$326,098	\$401,446	\$475,430
<b>FY 2024</b>	(\$85,966)	\$103,340	\$113,333	\$227,245	\$284,224	\$305,268	\$384,230	\$461,786
<b>FY 2025</b>	(\$64,413)	\$130,900	\$141,212	\$257,491	\$317,598	\$338,434	\$420,374	\$500,872
<b>Funds Available for Operation and Mitigation</b>	<b>(\$1,665,740)</b>	<b>\$248,859</b>	<b>\$349,916</b>	<b>\$1,615,459</b>	<b>\$2,077,456</b>	<b>\$2,366,895</b>	<b>\$3,126,630</b>	<b>\$3,872,313</b>

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