

Town of Shapleigh

Annual Operations Report

7/1/2022 - 7/1/2023

July 21, 2023

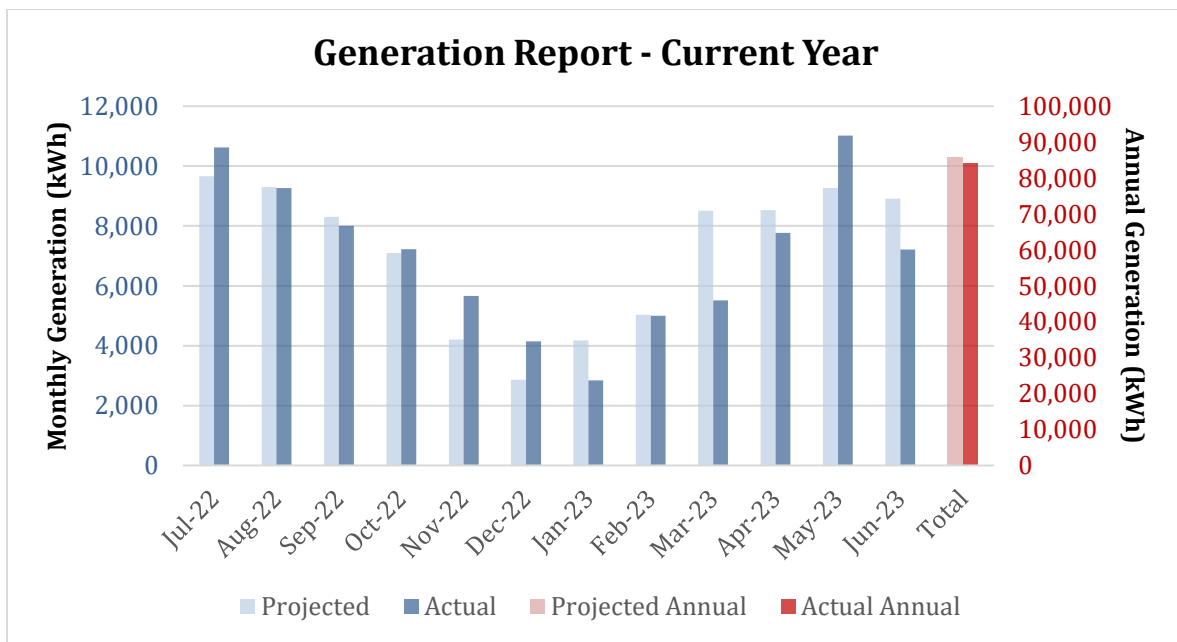
Overview

This report summarizes the operations of your solar photovoltaic project over the current service year: 7/1/2022 - 7/1/2023. The project has a nameplate capacity of 68.31 kW dc, and is located at 1026 Shapleigh Corner Rd Shapleigh, ME 04076. The generation equipment consists of (198) REC 345W modules and (5) SolarEdge 11400 RGM inverter(s).

Current Year

Energy Production

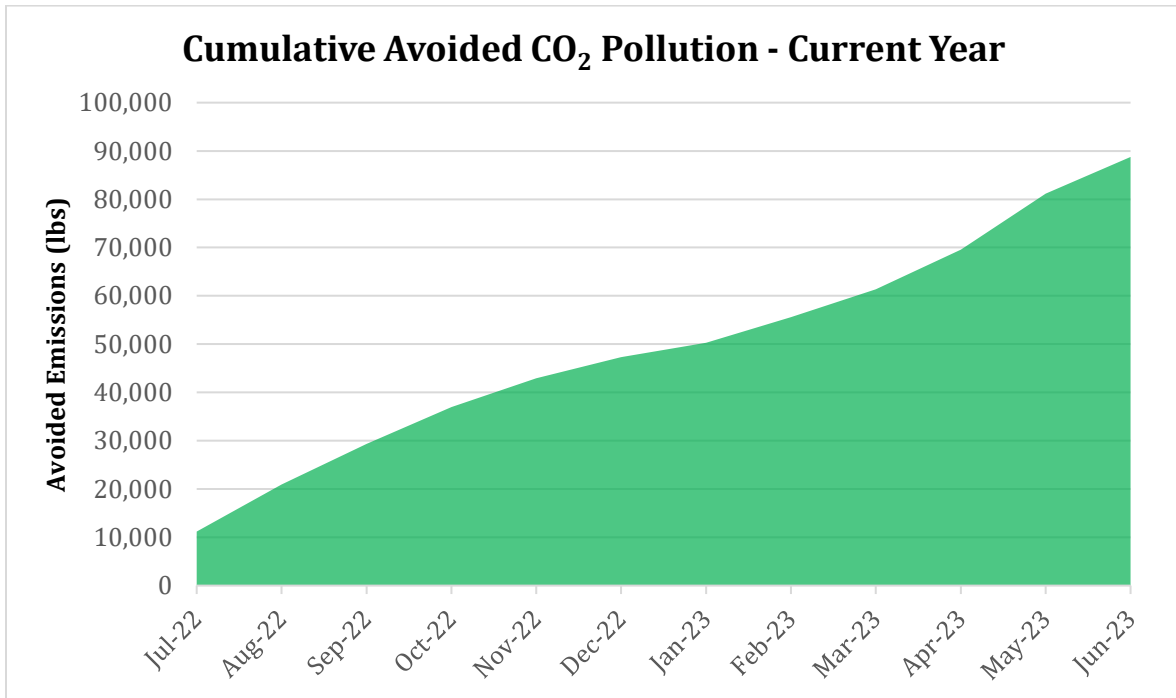
The system generated 84,290 kilowatt-hours of zero-emission solar power over the course of this service year. This represents 98.2% of the 85,855 projected kilowatt-hours. The projection was generated using the project's Helioscope performance model that takes into account regional solar irradiation, historical local weather, and system specifications, and assumes 0.5% annual production degradation.



kwh	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Total
Projected	9,667	9,299	8,300	7,093	4,205	2,864	4,181	5,036	8,503	8,531	9,265	8,911	85,855
Actual	10,622	9,264	8,008	7,226	5,667	4,144	2,838	5,005	5,517	7,768	11,016	7,214	84,290

Environmental Benefits

The electricity generated by the project during this service year prevented the pollution of 88,757 pounds of CO₂ into Earth's atmosphere.¹ Your use of distributed solar generation offset the use of fossil-fuel generated grid "brown power" and provided ancillary benefits to the local power grid.

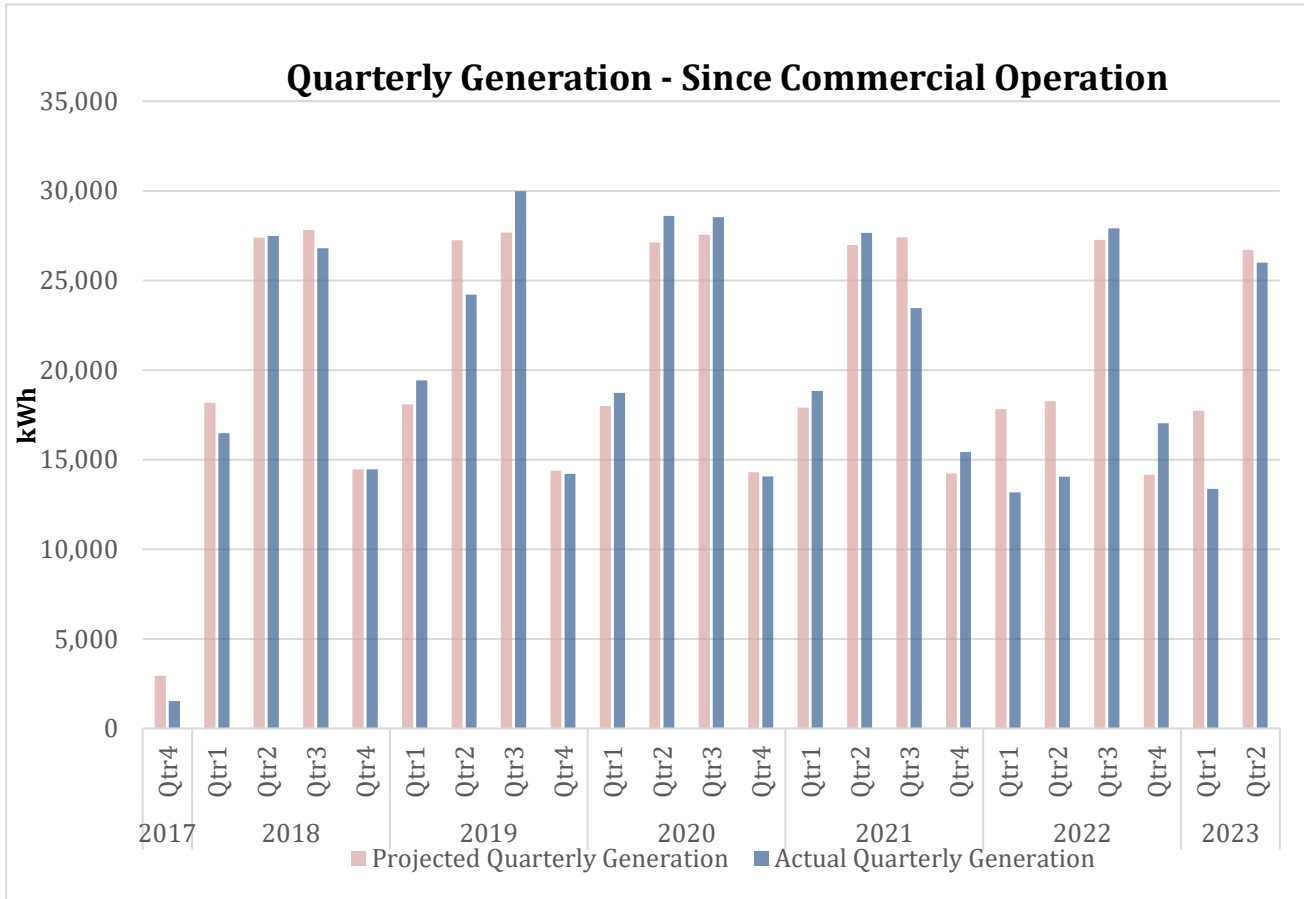


¹ ReVision Energy utilizes the ISO-NE on-peak CO₂ emissions factor to calculate the environmental benefit of solar in New England. Because solar production is coincident with on-peak periods when the grid is stressed, distributed solar generation provides significant environmental and grid benefits and services. ISO-NE emissions reports can be found at <https://www.iso-ne.com/system-planning/system-plans-studies/emissions>

Since Commercial Operation

Energy Production

The system has generated 461,343 kilowatt-hours of zero-emission solar power since being placed into commercial operation. This represents 97.4% of the 473,528 projected kilowatt-hours.



Environmental Benefits

The electricity generated by the project since being placed into commercial operation prevented the pollution of 485,794 pounds of CO₂ into Earth’s atmosphere.

