

Franconia Municipal Solar Power Report

March 2024

- Town Hall array provides electrical power for the Town Hall and Welcome Center
 - Current annual electrical budget ~15,197 kWh
 - Town Hall ~ 8997 kWh
 - Welcome Center (projected) ~ 6200 kWh
 - Future electrical budget additions could include EV Charging and heat pumps.
- Solar Array
 - New England Commercial Solar Services: 20.37 kW DC, 23,767 kWh AC
 - 42 x 485 W Q-cells bifacial modules, single row
 - \$56,000, which was funded through Franconia Unidentified Funds in 2022
 - System came online August 2023
- Offsets to electrical energy operating costs for Town Hall and Welcome Center
 - Net metering with Eversource means **surplus energy** is purchased by the utility.
 - Energy purchased @100%
 - Transmission purchased @100%
 - Distribution purchased @ 25%
 - Renewable Energy Certificates (RECs) paid to Franconia annually ~ \$600: in process
 - Federal funds (Inflation Reduction Act) up to 30% of system cost: in process
- Town Hall Solar System Performance
 - Chart compares system output (kWh by month, year) versus National Renewable Energy Lab model of system (PVWatts)

