

Franconia Municipal Solar Power Report January 2026

- Town Hall solar array provides electrical power for the Town Hall and Welcome Center
 - Current annual electrical budget ~13,700 kWh AC
 - Town Hall historical data ~ 8500 kWh AC
 - Welcome Center and Ice Rink (projected) ~ 5200 kWh AC
 - Future electrical budget additions could include EV Charging and heat pumps
- Solar Array
 - Installed by New England Commercial Solar Services: 20.37 kW DC, 23,767 kWh AC
 - 42 x 485 W Q-cells bifacial modules, two strings, with Sunny Boy inverters
 - \$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%
 - NH PUC Renewable Energy Certificates (RECs), paid annually ~ \$600: in process
 - Eversource Payout of Surplus Energy (NEM) credits, paid annually ~ \$650: in process
 - NH DOE Solar Incentive Program Rebate: \$3072.00
 - Federal Funds (IRA) paid 30% of system cost (with interest): \$18,101.73
- Annual energy savings for Franconia (based on 2025 usage and rates) ~ \$2,530
- Town Hall Solar System Performance
 - Chart compares system output (kWh by month, year) versus National Renewable Energy Lab model of system production (PVWatts)

