

Friends of the Manchester Library: typical Annual Budget & Solar Electric Savings since August 2021 updated Feb 1

With income from:

Fundraisers like the Plant Sales, Father's Day Salmon Bake,
Sales of Books, raffles, other special events & Donations

FOML pays typical operating expenses

Building and grounds maintenance and repairs, insurance **\$6,000**

Utilities: **\$8,500+**

Library programs: **\$6,000**

Miscellaneous (volunteer and staff recognition, postage, fundraiser costs and
advertising, cost of goods to sell, supplies) **\$5,000**

Every year FOML needs to raise **\$25,000 to \$30,000** to keep the library open

The new Library Addition includes Solar panels:

\$ saved since original installation on Aug 4, 2021: **\$2,923**

• **Kilowatt hours produced since 8/4/21: **24,357 kWh****

Tons of CO₂ production avoided since 8/4/21: **38,478 lbs**

Our 25 solar panels, rated at 8.75 kW d/c output, manufactured by Sun Power, installed by Power Trip Energy, and funded 100% by a generous Green Power grant from Puget Sound Energy.

Another interesting set of data revealed that our best hour of solar in 2023 was 12-1PM on 6/21 (the summer solstice!) when we produced 7.58 kWh and the lowest daily peak (on the best day of the month) was on 12/26 at 11AM-12PM when we only produced 3.69 kWh. Those points show the impact of how high the sun is from the horizon and its effect on the angle of solar incidence.

Data last updated: 2/1/2024