

Department 8 – Solar Initiatives

Overview

This department includes the revenues and expenses for the Township's three (3) microFIT solar installations and three (3) FIT solar installations.



The microFIT installations are roof top solar and are located at 1310 Centre Line, 8 Queen Street and 832 Charles Street. The three (3) twenty-year contracts pay 80.2 cents per kilowatt hour for energy transmitted directly to the grid. The microFIT installations were internally financed over a ten-year period and 2022 was the final year for repayment.

The FIT installations are also roof top solar and are located at 1280 Centre Line, 275 Queen Street and 553 Ennis Road. The three (3) twenty-year contracts pay 34.5 cents per kilowatt hour, 34.5 cents per kilowatt hour, and 32.9 cents per kilowatt hour respectively, for energy transmitted directly to the grid.

Revenue & Generation

microFIT installations - three (3) installations (mid to late 2012 to end of Nov. 2024)

- Revenue - \$360,517.09
- Energy generation – 450,155.84 kWh

FIT installations - three (3) installations (mid to late 2016 to end of Nov. 2024)

- Revenue - \$1,136,545.37
- Energy generation – 3,079,917.28 kWh

Expenditures

Expenditures include estimated repayment for the three (3) FIT installations. They are financed through a ten (10) year debenture with Infrastructure Ontario with principal and interest payments being funded by solar receipts. 2026 will be the final year for repayment.

Insurance premiums specific to the solar equipment & potential loss of income and hydro account service charges are also included.

The Sustainability Reserve was established and continues to grow with contributions from this Department. As this reserve balance grows, it will enable the launch of new sustainability initiatives. Ultimately these funds will be utilized to lever additional grants or funding sources to maximize sustainability efforts in the Township.

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Activity Update – Beyond Budget and Dollars and Cents

Review of Solar Panels

After reviewing the solar data from 2012 to 2024, it is evident that the Townships' solar panels exhibit degradation over time however, it is minimal. With the exception of some microinverter replacements, there have been few issues with overall performance.

Upon further consultation with the contact at Global Point, we were advised against conducting formal voltage testing on our solar panels at this time. Global Point noted that both our monthly and annual data show only minor degradation, and it would be more beneficial to maintain the current system for the remaining years of our contract. They also mentioned that replacing the equipment now would likely diminish our return on investment, as the need for new equipment is premature.

As for next steps in 2025 the Township could investigate planning for future replacement near the end of our contract. This being said, the contact at Global Point noted that IESO is looking at contract extensions which is something to keep in mind when thinking about the future of the solar panels. The Sustainability Coordinator and Finance Department should continue to monitor Solar Generation (kWh) and Gross Revenue (\$) monthly as well as any errors so that any significant degradation issues would be readily addressed.

**The Corporation of the Township of Selwyn
Budget Worksheets 2025**

Department 08 - Solar Initiatives

Description	2023 Year to Date Actuals	2023 Approved Budget	2024 Year to Date Actuals	2024 Proposed Budget	2025 Proposed Budget
Revenues					
Operating Sales - Revenues & Fees	142,326	143,186	144,589	144,396	144,461
Transfers In	-1,031	-1,031	1,001	1,000	1,625
Total Revenues	141,295	142,155	145,590	145,396	146,086
Expenses					
Communications	719	719	769	719	779
Annual Payment of Unfinanced/Debt (P&I)	113,837	113,837	113,837	113,837	113,837
microFIT Installations	1,423	1,428	2,531	2,030	2,123
FIT Installations	12,316	11,489	11,828	11,650	11,464
Transfers Out	13,000	14,682	16,625	17,160	17,883
Total Expenses	141,295	142,155	145,590	145,396	146,086
Balance	0	0	0	0	0