

Progress Report July, 2013 – Dec., 2016

Eliot Hwy Department

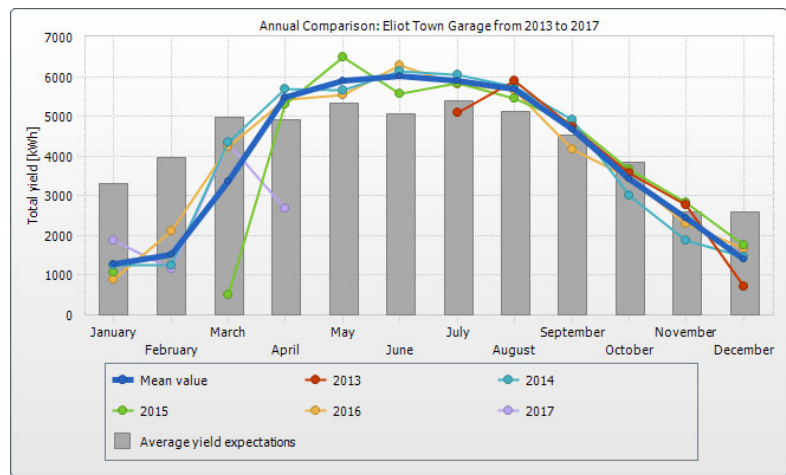
Photovoltaic Solar Array



This system was commissioned on June 28, 2013. It is a 41.25 kW grid-tied photovoltaic solar energy array. It consists of 165 Canadian Solar 250-watt panels, 4 inverters, a data logger and remote monitoring system. As of December 31, 2016 it has produced 138,800 kWh of zero-emission solar power.

It was installed under what is called a Power Purchase Agreement that will allow the Town to buy the array after 6 full years at a cost of \$42,000. The chart shows that power generation varies from season to season and year to year.

2014	47,346 kWh
2015	43,298 kWh
2016	48,204 kWh



If the solar array were not installed it is estimated the Town will spend over \$161,000 on electricity in the next 25 years. Because of the array, the Town will save almost \$90,000 in the same period and that is above the \$42,000 investment the Town will be making.

Go Solar

25 Year Cash Flow		
Year	No Solar	PPA - 6 Year Buyout at \$42,000
5	(29,294)	(30,300)
10	(60,672)	(11,161)
15	(93,145)	21,312
20	(126,750)	54,917
25	(161,528)	89,694