



1.9 years

simple payback period

\$47,373

incentives



# HOW ONE TOWN TURBO-CHARGED SAVINGS WITH A BLOWER UPGRADE

Municipality of Central Elgin

Elgin County, Lake Erie, Ontario

- Installed Variable Frequency Drive blower

### Retrofit Program

Installed a single new 100 hp Variable Frequency Drive blower to replace two traditional blowers: a 75 hp and a 50 hp

### Savings

473,736 kWh annual verified energy savings  
\$56,850 annual energy cost savings\*

### Incentives

\$47,375 in incentives under the **Retrofit Program**  
Project payback – 1.9 years



\*Based on a rate of \$0.12 per kWh





**“We’re seeing a reduction in our utility costs and will have a payback in approximately two years – an excellent return on investment.”**

**Uncovering Opportunity**

After a facility walkthrough identified aeration blowers as a key upgrade for their wastewater treatment facility, the Municipality of Central Elgin swiftly applied for a **Retrofit Program** incentive. The town had recently completed a successful streetlight conversion and understood the value of an additional energy-efficiency upgrade.

“We’re continually looking for ways to reduce our footprint and save, either through energy savings or reduced operational costs,” said Lloyd J. Perrin, Director of Physical Services at the municipality.

**Better Matching of Load to Speed**

Upon receiving project pre-approval, Central Elgin was able to swap two 11-year-old blowers for a single, high-efficiency 100hp variable frequency drive turbo blower with dissolved oxygen controls. A smooth installation process over five days minimized disruption, and the new blower beat experts’ annual savings calculations by a whopping 200%.

“We’re no longer running blowers at high volume all the time or producing more oxygen than required,” said Perrin. “And the incentive allowed the municipality to undertake the project earlier than anticipated.”

**Breaking Barriers**

Perrin advises organizations against letting their size be a barrier to making significant infrastructure improvements. “Being a small municipality is not an excuse to not look for energy or operational savings,” he said. “The motivation should be continuous improvement.”

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