

Increasing Electricity Use in Ontario's Greenhouse Sector

180%

forecast over **5 years** to 2024

1.4 TWh to 3.9 TWh in electricity use by greenhouses

Driving Factors:



More vegetable and fruit greenhouses



More lighting in vegetable and fruit greenhouses



Cannabis ramp up from using 10% to 100% of growing space

10x
more electricity

Used by a lit vegetable greenhouse than an unlit vegetable greenhouse

752,000 MWh
for lighting in 2018

The largest electricity draw for greenhouses, more than all other greenhouse electricity uses combined

100%
increase by 2020

In lit vegetable and fruit greenhouse area

Total greenhouse electricity consumption in 2018 vs 2024 forecast

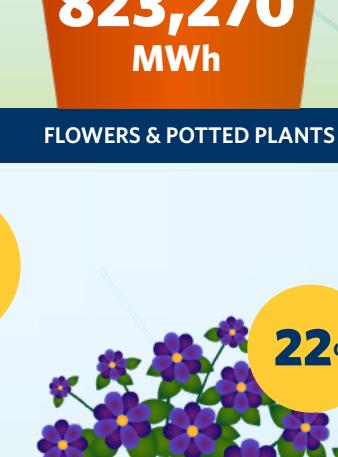
Percentages represent electricity use by greenhouse category



CANNABIS



VEGETABLES & FRUITS



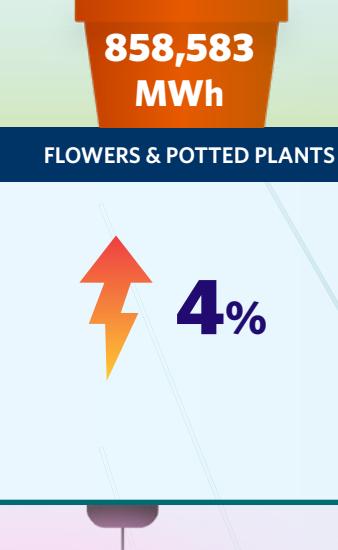
FLOWERS & POTTED PLANTS



CANNABIS



VEGETABLES & FRUITS



FLOWERS & POTTED PLANTS



1,253%



282%



4%

Increase over 5 years



**Electricity savings of
230-550 GWh
a year by 2024**

if new grow lights use
LED instead of HID**

Learn more about energy efficiency
programs at SaveOnEnergy.ca



35-55%

energy savings

from LED

grow lights

*includes indoor cannabis facilities

** LED is light-emitting diode; HID is high-intensity discharge lighting.

This study by the Posterity Group was funded in partnership with Enbridge Gas and the Ontario Greenhouse Vegetable Growers.

Southern Ontario's Prime Growing Regions

Essex

Norfolk

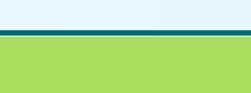
Chatham-Kent

Niagara

80.7 million sq. ft.

Greenhouse area in southwestern Ontario's Essex County, the largest concentration of vegetable greenhouses in Canada and the U.S.

Greenhouse Energy Profile Study



Connecting Today.
Powering Tomorrow.