

**From:** Mike Berkel

**Sent:** Tuesday, April 25, 2023 3:54 PM

**To:** Clerk <[clerk@HaldimandCounty.on.ca](mailto:clerk@HaldimandCounty.on.ca)>

**Cc:** Stewart Patterson <[spatterson@haldimandcounty.on.ca](mailto:spatterson@haldimandcounty.on.ca)>; Mike Evers <[mevers@haldimandcounty.on.ca](mailto:mevers@haldimandcounty.on.ca)>

**Subject:** [EXTERNAL] Proplant - IESO COGEN Project Introduction

Dear Evelyn,

Proplant Propagation Services Ltd. is a greenhouse vegetable Propagator located Jarvis, ON. We specialize in the propagation of Peppers, Tomatoes and Cucumber plants, shipping them across Eastern North America.

I am writing to introduce a project that our company, Proplant Propagation Services Ltd., is planning to undertake. We are proposing to build a cogeneration power station that will supply the power grid with electricity and utilize the waste heat internally. Some of the project details are below:

**Project size:** 5 Engines producing up to 18MW of electricity

**Location:** The engines will be located in a 2,000 SQm2 purpose built warehouse to be constructed on our property

**Primary Fuel Source:** Natural Gas & Bio-Natural Gas

**What is Cogeneration?:** A cogeneration plant simultaneously produces electricity and thermal energy from a single energy source inside an integrated system. Because it generates two energy carriers (electricity and heat) this makes it possible to achieve an effective use of the source fuel up to 85%, substantially reducing energy costs and CO2 emissions compared to the separate production of electricity and heat. A natural gas system only producing electricity is just 41% effective compared to the 85% achieved through cogeneration.

**Electricity Distribution:** Electricity will be primarily produced for the grid (80%) with the remainder to be used internally

We believe that our project aligns with the municipality's goals of promoting sustainable and environmentally-friendly practices. By generating power using cogeneration technology, we will reduce our reliance on fossil fuels and decrease our carbon footprint. Additionally, the waste heat generated by the power station will be utilized internally, reducing the amount of energy we need to consume to maintain our operations.

Before we can proceed with the bidding process (Summer 2023) we require a Municipal Support Resolution which is why we would like to appear as a delegation at the May 2<sup>nd</sup>, 2023 Council in Committee meeting.

We would appreciate the opportunity to present our project to you and discuss any questions or concerns you may have. We believe that this project has the potential to make a significant positive impact on our community, and we look forward to working with the municipality to bring it to fruition.

Thank you for your time and consideration.

Best regards,

**Mike Berkel**

*Proplant Propagation Services Ltd.*

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