COMMUNITY AND INDIGENOUS ENGAGEMENT PLAN - NOTL

PROJECT: SDH COGEN NOTL

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COMMUNITY ENGAGEMENT MEETING: November 30, 2023
Meeting Location: St. David's Hydroponics Ltd
822 Concession 7 Road, RR4
Niagara-On-The-Lake, ON
L0S 1J0

Purpose of Meeting:

Introduction of SDH Cogen NOTL/St. David's Hydroponics Ltd representatives

To highlight our intended cogeneration expansion project and the economic benefits it brings to our community.

Meeting minutes will be posted on our website following the session. There will be time for questions at the end of the meeting.

Note: Ongoing engagement will continue as we move through the process on an as required basis.

INDIGENOUS ENGAGEMENT:

Acknowledgement:

St. David's Hydroponics Ltd located in Niagara-On-The Lake, Ontario is situated on treaty land. This land is steeped in the rich history of the First Nations such as the Hatiwendaronk, the Haudenosaunee, and the Anishinaabe, including the Mississaugas

of the Credit First Nation. There are many First Nations, Métis and Inuit peoples from across Turtle Island that live and work in Niagara-On-The-Lake and Niagara today. St. David's Hydroponics Ltd stands with all Indigenous peoples, past and present, in promoting the wise stewardship of the lands on which we live.

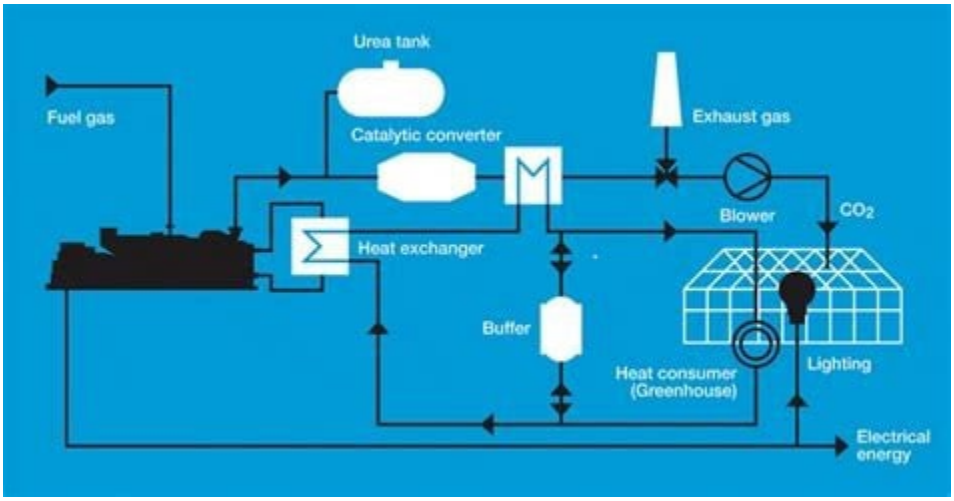
Although the location of this project is not located on Indigenous lands as defined per IESO procurement process, St. David's Hydroponics Ltd will initiate contact with local Indigenous communities to determine if there is an interest in this project. We will work with these communities directly if any interest is expressed.

Description of Project:

St. David's Hydroponics Ltd (SDH Cogen NOTL) together with AB Energy Canada Ltd intends to participate in IESO's Procurement of Long-Term Electricity Reliability Services plan (LT1RFP) to build a cogeneration facility of 13 megawatts in total. This will help support increased electricity reliability to the NOTL area. IESO is currently looking for 900MW of standby gas generation in Ontario.

Also called combined heat and power, (CHP) is the use of a reciprocating engine to generate electricity and produce useful heat at the same time.

1) Electricity-This project will deliver 13 megawatts of power which can be directed to the power grid.
2) Heat produced by the boilers and engine system will help to heat our greenhouses, which is both cost effective and environmentally friendly.
3) CO2 generated will be a source for plant fertilization.



"After more than a decade of strong supply, Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the retirement of the Pickering nuclear plant, the refurbishment of other nuclear generating units, as well as expiring contracts for existing facilities. Recognizing the necessity to address these needs in a timely, cost-effective and flexible manner, the IESO has engaged with stakeholders in the development of a resource adequacy framework. As Ontario's electricity system evolves to become more diverse and dynamic, procurement processes must evolve along with it. The resource adequacy framework published on the IESO's website targets robust competitive processes that focus on cost-effective reliability, while more effectively balancing ratepayer and supplier risk in this changing environment."

Project Timeline:

In 2026 we plan on installing 4 gas-powered GE-Jenbacher engines. This system also includes heat recovery, exhaust treatment, and noise abatement technologies. This system will create:

1) Electricity-Each of the four 20-cylinder engines generates 3.3 Megawatts of electricity, which is directed to the power grid.
2) Heat produced by the boilers and Cogen engine cooling system will help to heat our greenhouses in an environmentally friendly and cost-effective manner.
3) CO2-A manifold system collects carbon dioxide from the engines and boilers, preparing it to help fertilize the crops in our greenhouses.

PROJECT LOCATION

GRID CONNECTION LOCATION