

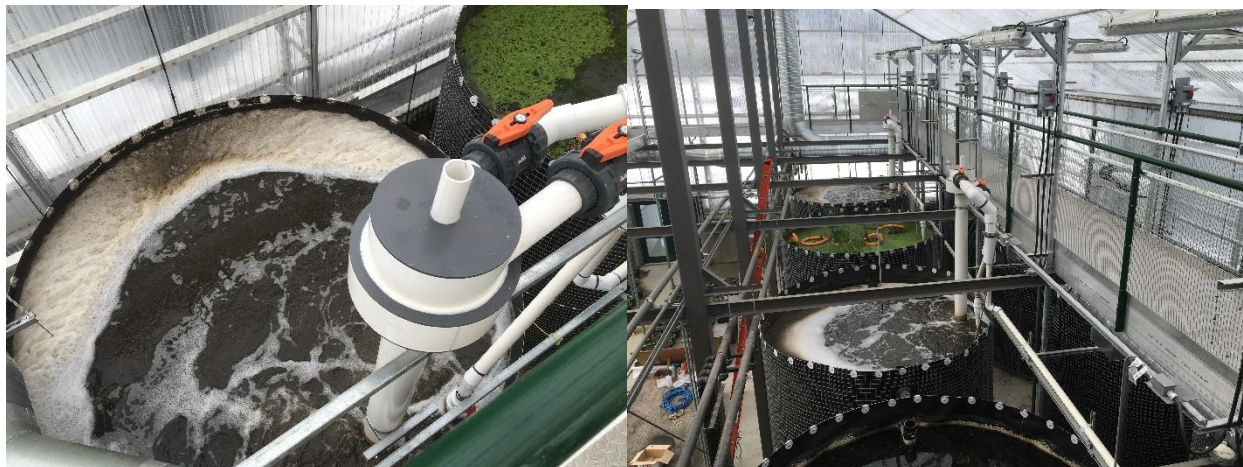
# Double Vortex Aerator

## Grid Innovation Fund Project Details

**Lead Proponent:** IPEX Technologies Inc.

**Partners:** OCWA, Ailsa Craig Wastewater Treatment Plant, Watford Wastewater Lagoons, Ontario Water Consortium

|                       |                                   |
|-----------------------|-----------------------------------|
| Strategic Area(s):    | Electrification / Decarbonization |
| Project Total Cost:   | \$146,400                         |
| Year Contracted:      | 2020                              |
| Location:             | Ailsa Craig and Watford, Ontario  |
| Economic Development: | 10 jobs                           |



Wastewater treatment plant

# Project Objectives

The project aims to demonstrate energy savings by replacing the existing diffused aeration systems in two municipal wastewater treatment plants with a hydraulically driven double vortex aeration device.

## Expected Outcomes

If successful, this project will demonstrate the energy savings possible as a result of using a hydraulically driven aeration device as compared to the existing diffused aeration systems.

The project aims to demonstrate that installing the double vortex aerator would result in approximately 15%-30% of energy savings at the lagoon. Some specific project outcomes include:

- Installation of a Double Vortex Aerator(s) at a wastewater treatment plant.
- Measurement and verification report for the aeration performance of the Double Vortex Aerator compared to the baseline existing diffused aeration system.
- Analysis of data/potential shortcomings and learnings.