

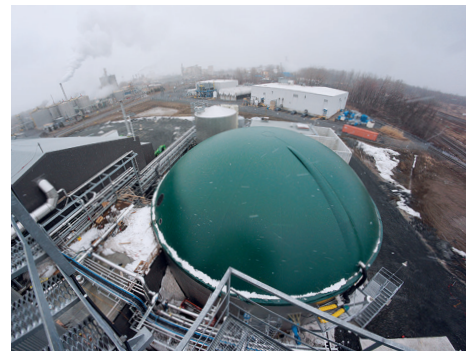


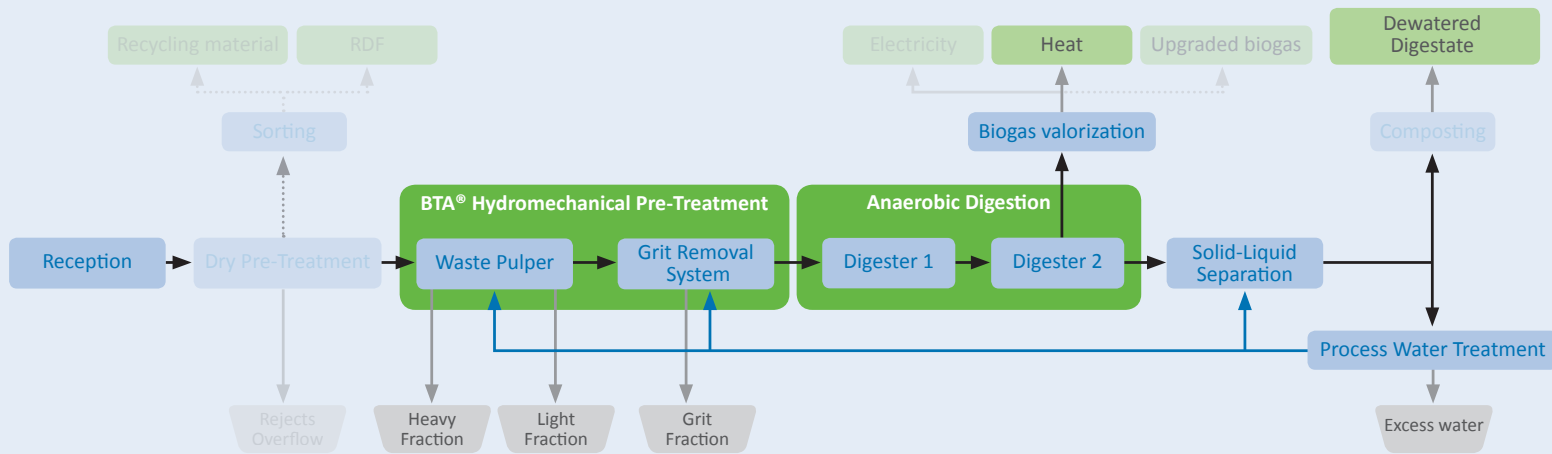
Varennes - Canada



Selected BTA References

- Final Client:**
- Société d'Économie Mixte de l'Est de la Couronne Sud (SÉMECS) Inc. (PPP between Biogaz EG and 27 Area Municipalities)
- Partner:**
- CCI BioEnergy Inc.
- Type of Waste:**
- Source Separated Organics (SSO), grass clippings, septage and commercial organics
- Capacity:**
- Up to 51.000 ton/year
- Start-up:**
- 2018
- Plant Sections:**
- Waste reception
 - BTA® Hydromechanical Pre-Treatment
 - Wet anaerobic co-digestion
 - Gas treatment (biological desulphurization)
 - Solid-Liquid Separation
 - Internal Process Water Management
 - Surplus Water Treatment





Varenes - Canada

Description

Located in the City of Varenes, the SÉMECS facility is the first of its kind in Quebec, a Province with ambitious plans for the biological treatment of a broad range of organic materials generated in the residential and commercial sectors.

Using the **BTA® Process** as a total solution platform, the facility is designed to convert 51.000 metric tonnes per year of residential Source Separated Organics (SSO), grass clippings, septage, and commercial organics. The **BTA® Hydromechanical Pre-Treatment System** will pulp the inputs and extract the heavy, light, and grit fraction contaminants. The clean and homogenous suspension is then digested using the **BTA® Anaerobic Digestion System**. Facility and operational control is built around the **BTA® Process Control System**.

The biogas is used on-site to create heat and power for facility self-sufficiency and to off-set the energy needs at the ethanol plant from BiogazEG, where the biomethanization facility will be co-located. Prior to digestion, a sanitization step has been implemented to create a system that further closes the loop by creating a high quality soil amendment to be applied on the farmlands that supply the ethanol plant with corn.

Together, BTA and our licensee and partner in North America, CCI delivered a services package for process design, construction supervision and the planning and supervision of the commissioning and start-up. Furthermore, BTA delivered key equipment and software components of the **BTA® Process** into the project.