



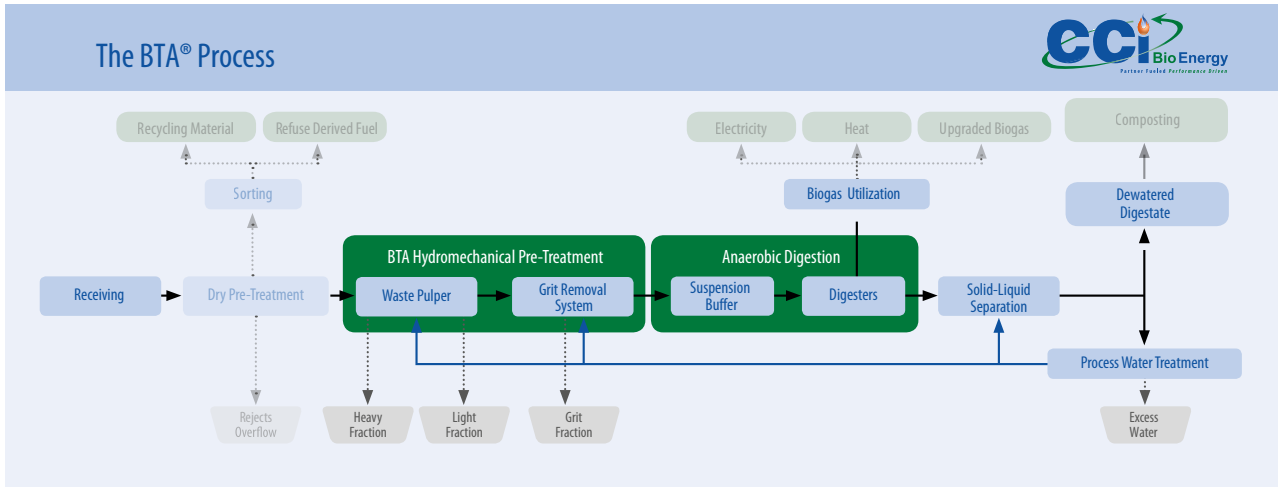
TORONTO DISCO ROAD - Canada



Selected CCI References

- Owner:**
- City of Toronto
- Design/Build:**
- CCI BioEnergy Inc. and Partner Group
 - AECOM Canada
 - ES Fox Construction
 - BTA International
- Operator:**
- CCI BioEnergy Inc. and Partners
 - Veolia Water Canada
- Waste Type:**
- Residential and Commercial
 - Source Separated Organic Material (SSO)
- Initial Capacity:**
- 75,000 metric tonnes / year
 - Operating on 2 shifts, 5 days per week
- Start Up:**
- July 2013
- Delivered Systems:**
- Waste receiving
 - BTA® Hydromechanical Pre-treatment
 - Wet anaerobic digestion
 - Solid-liquid separation
 - Internal process water management loop
 - Effluent treatment
 - BTA® Process Control System





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Project Highlights

After 10 years of **every day operating performance** at the Dufferin facility the City of Toronto made a strategic decision to expand internal organics processing capacity using the BTA® Process. This facility will annually **divert and convert 75,000 metric tonnes** of residential and commercial organics collected in the City Green Bin Program.

The facility is **designed and built by Aecom Canada** using CCI's technology, the BTA® Process. Operations will begin in mid 2013 with CCI being a key member of the operating team that includes Veolia Water Canada.

The waste feedstock, which is characterized by a high plastic content due to the collection in plastic bags, will be directly fed to the **BTA® Hydromechanical Pre-treatment** system without any prior treatment. The anaerobic digestion methodology implemented is a wet digestion process in the mesophilic range using **two 5,300 m3 digesters** with full mixing using compressed biogas. All liquids inherent in the waste will be **reclaimed and reused** and any excesses will be treated prior to discharge to the sewer.

The biogas will be used in a manner most beneficial to the community. Opportunities include cogeneration to produce electricity and heat and upgrading to natural gas quality ("biomethane") to offset purchases and produce vehicle fuels. The digested solids will be aerobically finished at an off-site facility. Due to the virtually non-existent inert contamination, the finished compost will be distributed into **local, high-value markets**.

A broad acceptable waste profile, combined with the ability to use plastic liners, helps drive a greater than **90% residential participation rate**. The unique capabilities of the BTA® Process will help Torontonians annually divert and convert more than **125,000 metric tonnes** when this facility starts-up in 2013.