



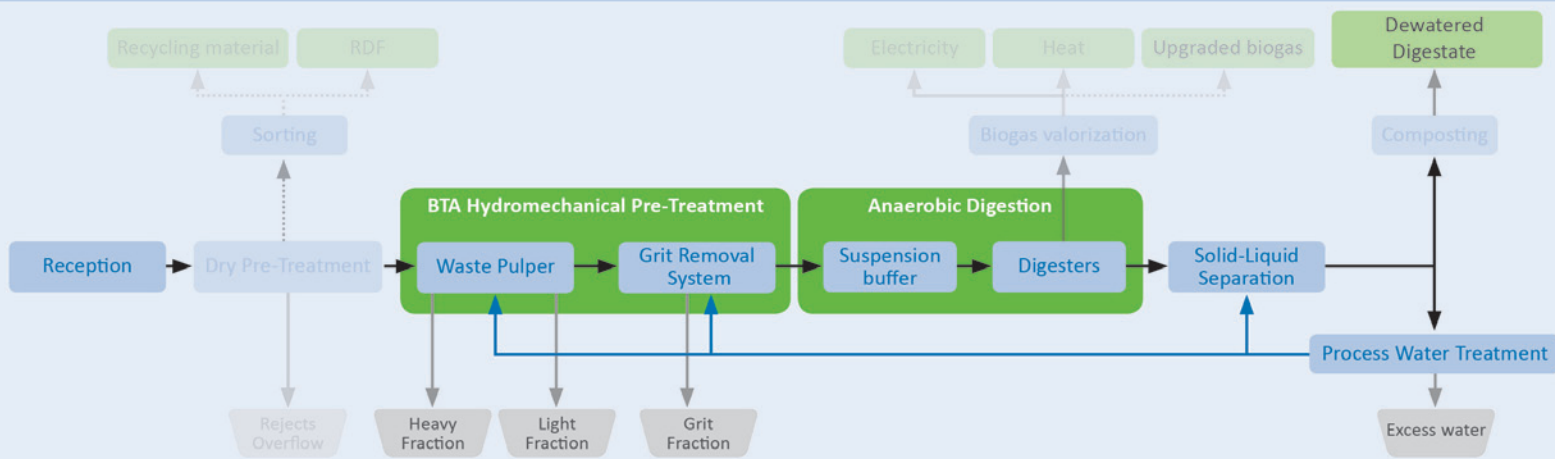
TORONTO DUFFERIN - Canada



Selected BTA References

- Final Client:**
- City of Toronto
- Operator:**
- CCI – TBN Toronto Inc.
- Type of Waste:**
- Source Segregated Organics (SSO)
 - Commercial Food Wastes
- Capacity:**
- 25.000 tons/year (initial design)
 - > 30.000 tons/year (actual)
- Start up:**
- 2002
- Plant sections:**
- Waste reception
 - BTA® Hydromechanical Pre-treatment
 - One-stage wet anaerobic digestion
 - Solid-liquid separation
 - Internal process water management





TORONTO DUFFERIN - Canada

Description

The Toronto Dufferin Organics Processing Facility – DOPF is operating successfully in its 10th year.

In **2011/2012 a second digester is being installed** by CCI-TBN Toronto Inc. to overcome (with 8.800 m³ total digestion volume) the bottleneck. This became necessary as the plant was operating in the last years constantly at more than **120% of its design capacity**.

The SSO, which is characterized by a **high plastic content of up to 15%** due to the collection in plastic bags, is directly fed to the **BTA® Hydromechanical Pre-treatment** without any previous treatment. Anaerobic digestion is executed as a one-stage **wet digestion process in the mesophilic range** with full mixing with compressed gas.

The digestate is fed through screw presses for dewatering. The solid phase is aerobically treated in an **external composting plant**. Due to its low content of impurities (below Canadian Compost Standards) the final **high quality compost** is sold in gardening stores or used for soil remediation.

For the **operation of the plant** a consortium was founded of which both BTA and its licensee Canada Composting Inc. are shareholders together with former Trow Consulting Engineers Ltd. (now EXP) and W.S. Nicholls Construction Inc. The operation contract has been periodically renewed, confirming CCI-TBN as reliable partner towards the City.

With its ten years of successful operation the Toronto Dufferin Organics Processing Facility is unique in North America.