

Selected BTA References

Toronto



Owner: City of Toronto

Operator: CCI – TBN
35 Vanley Crescent
Toronto, Ontario – Canada

Capacity: 25,000 tons/year designed
30,000 tons/year actual

Start-up: 2002

Materials processed:

- Source Separated Organics
- Commercial food wastes

Process:

- BTA® Process with one-stage wet digestion

Plant description:

- Waste reception
- BTA® Hydromechanical Pre-treatment
- Anaerobic digestion
- Digestate treatment

Special features:

- Biowaste contains up to 15 % plastics
- BTA is engaged in operation



More Information

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Description

Waste reception and pre-treatment

The waste is dumped on a tip floor, from where a front loader lifts it onto a conveyor belt that transports the waste directly into the BTA® Waste Pulper, without any previous treatment.

In the BTA® Waste Pulper a homogenous, pumpable organic suspension is produced which can be easily handled and digested.

Unwanted contaminants (such as plastics, textiles, stones, metals etc.) are efficiently separated and removed by means of a trap (heavy fraction) at the pulper bottom and by a rake (light fraction). The batch of the pulper is specially adapted to the high content of plastic up to 15 % in the biowaste.

To remove still remaining fine inerts from the pulp (sand, egg shells etc.) a BTA® Grit Removal System is installed to prevent wearing of downstream plant components, sedimentation in the tanks and clogging of pipes.

Anaerobic digestion

The obtained suspension just contains the dissolved and defibrated organic components and is directly proceeded into a 3,500 m³ digester for methanisation.

The digester is easily mixed by biogas compression without any moving parts in the tank and with minimum maintenance requirements.

Digestate treatment

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 the final high quality compost is sold in gardening stores or used for soil remediation.

Plant operation

For the operation of the plant a Consortium was founded, of which both BTA and its licensee Canada Composting Inc. are shareholders. The operation contract has been renewed so that CCI – TBN ensures a successful operation till now.

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