



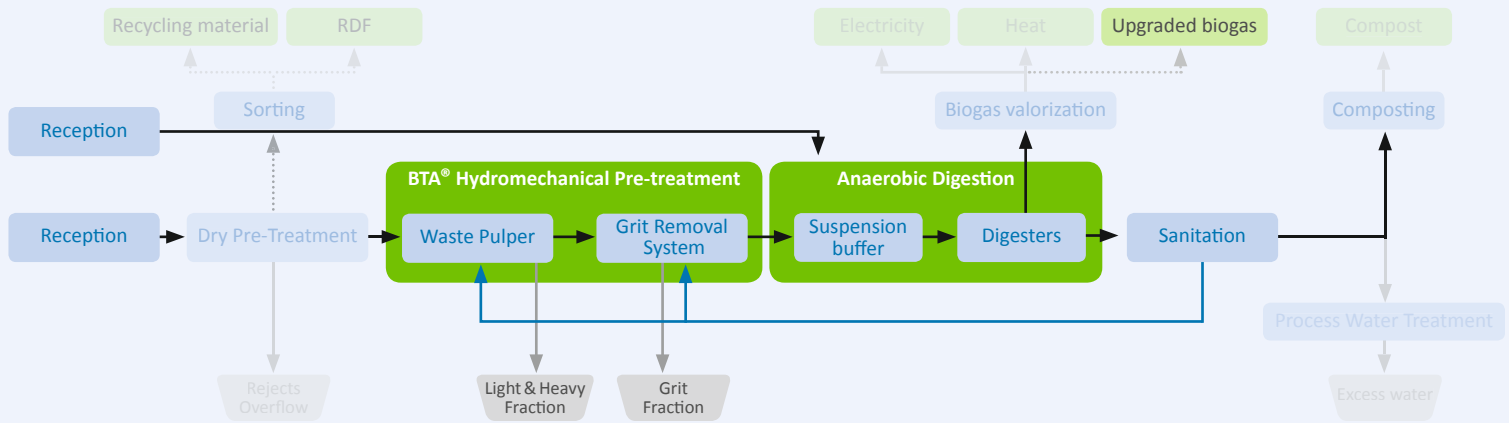
Topinoja Biogas Plant - Finland



Selected BTA References

- Partner:**
- Gasum Oy
- Type of Waste:**
- Sewage sludge, Source Segregated Organics, Commercial Waste
- Capacity:**
- 35.000 tons/year
- Start-up:**
- 2020
- Plant Sections:**
- Reception line for sewage sludge
 - Reception line for Source Segregated Organics
 - BTA® Hydromechanical Pre-treatment
 - Wet anaerobic digestion
 - Sanitation step





Topinoja Biogas Plant - Finland

Description

BTA International has been assigned by Gasum Oy for the turnkey extension of the Biogas Plant Topinoja, actually treating up to 75.000 tons/year of dewatered sewage sludge, to process additional 35.000 tons/year of **Sewage Sludge** and/or **Source Segregated Organics (SSO)** or **Commercial Waste (in variable amounts from 0 % to 100 % respectively)**.

The extension includes separate reception lines for the Sewage Sludge and SSO. After mixing the sewage sludge with Process Water (mainly Septic Water), the sludge will be directly pumped to the anaerobic digestion step, while the other waste streams are pre-treated in the **BTA® Hydromechanical Pre-treatment** before the cleaned organic suspension is also pumped further. The anaerobic digestion step of the new line consists of two digesters of 4.000 m³.

Finally, the extension also includes a **sanitation step** (70°C, 1 hour) for the digestate both from the the new and the old digestion lines.

Special focus is given to **minimize the heat demand** of the facility by **heat recovery in the sanitation step** as well as comprehensive insulation of the tanks, as the produced biogas will be upgraded and liquified to LBG.