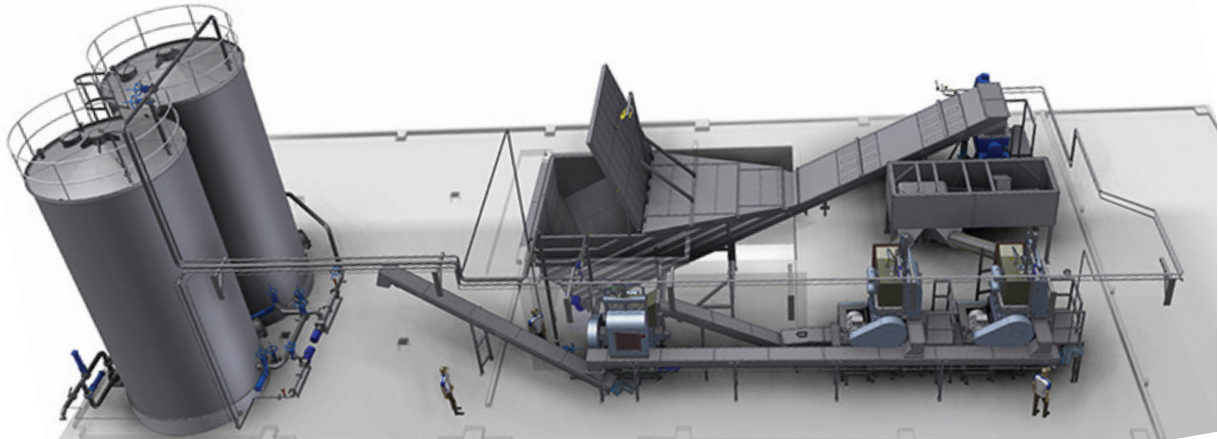


PRETREATMENT PLANT FOR ORGANIC WASTE

BIOGAS AB - LINKÖPING, SWEDEN

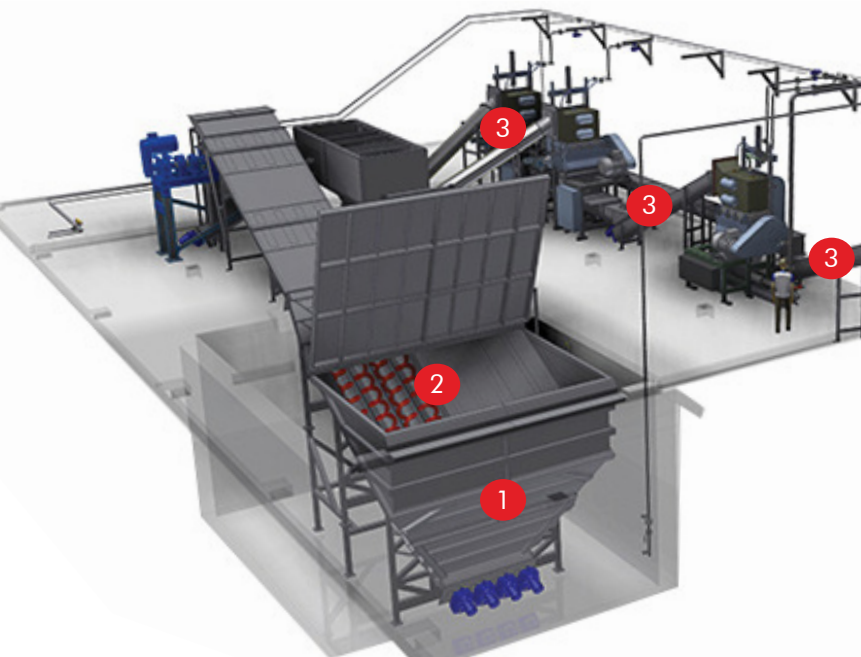


APPLICATION DETAILS

The Linköping food waste pretreatment plant handles organic household waste discharged into a receival bunker from where it is fed into the plant for pretreatment. During this phase, metal, plastic and other solid materials get separated. The remaining material is processed into a biomass storage container.

THE CHALLENGE

SPIRAC conveyors handle the transport of the organic household waste delivered in the SPIRAC receival bunker. From the receival bunker, the material is transported via screw conveyor to a crusher, for the decomposition of larger materials. This shaftless transport screw conveyor consists of four frequency driven screws which are controlled in pairs. From here the waste is transported via SPIRAC conveyors through the pretreatment plant and transported into a biomass storage container.



SPIRAC PRODUCTS USED

1. Truck receival bunker
2. 4 x Livebottom shaftless screw
(L=15.6m @ 27 degrees)
3. Shaftless screw conveyors



CAPACITIES

- ▶ Incoming organic household 10 tons/hour
- ▶ Operating hours per year 2000
- ▶ Quantity in tons per year 19,000
- ▶ TS 15-30 % range
- ▶ Temperature 5-30 °C Homogeneous
- ▶ Different types of food waste in the form of sorted from households and from restaurants, retail and industry. Operation of the facility requires that the different types of waste are mixed in the dump pocket.