

Plant size: 500 kWel + 500 Sm<sup>3</sup>/h biomethane



## SUPPLY

100% organic waste and industrial food processing waste



## DESCRIPTION

The plant is designed to receive **60.000 tons per year of food waste and clippings**. After the pre-treatment modules and the fermenters for anaerobic digestion, a membrane purification system was engineered and developed: the latter allows the transformation of biogas into biomethane and to introduce it directly into the national gas grid. This allows the valorisation of the biogas produced with maximum efficiency and reduces CO<sub>2</sub> emissions to a minimum.

## USE OF BIOGAS



Electricity production  
Upgrading and production of biomethane for direct supply to the grid

## VALORISATION OF THERMAL ENERGY



Heating of fermentation tanks  
Upgrading unit and pasteurization system

## USE OF DIGESTATE



Production of 50.000 tonnes per year of pasteurized liquid fertilizer