

BIOGAS FROM AGRICULTURAL PRODUCTS & FOOD WASTE - POUNDBURY, UNITED KINGDOM

CASE STUDY



Partnering with:



PROVIDING GREEN GAS TO LOCAL COMMUNITIES

Pounbury was set up to be the most modern and self-sufficient city in the UK. Supported by Prince Charles, who opened it in 2012, this first commercial plant in Europe will be able to provide gas for up to 56,000 homes in the long term. Prince Charles hopes the project Pounbury will provide a model that can be copied to provide a network of plants providing gas to local communities.

BIOGAS UPGRADING PLANT WITH DMT CARBOREXMS

The plant uses a process known as anaerobic digestion to break down food waste from a nearby chocolate factory, a breakfast cereals producer and a potato processing plant along with maize crops from local farmers. The biogas produced is not usable, and therefore it is upgraded to pure methane by a biogas upgrading plant from DMT, the CarborexMS. The methane goes to the gas grid in order to provide energy for cooking and heating.



BIOGAS UPGRADING 650 NM³/H

Pounbury was the first commercial plant in Europe, and the first biogas upgrading facility to work with membranes. In 2012 it was quite new not to use chemicals or water. The first plant turned out to be easy to operate, has a small footprint, it has no high columns as other system have and it runs very well.

Carborex®MS 650

Feedstock: Biogas from agricultural products and food waste

Upgrading 650 Nm³/h

Product: Gas to grid injection