Demonstration of technology to efficiently collect and utilize biogas from a number of sewage treatment plants

Project Members

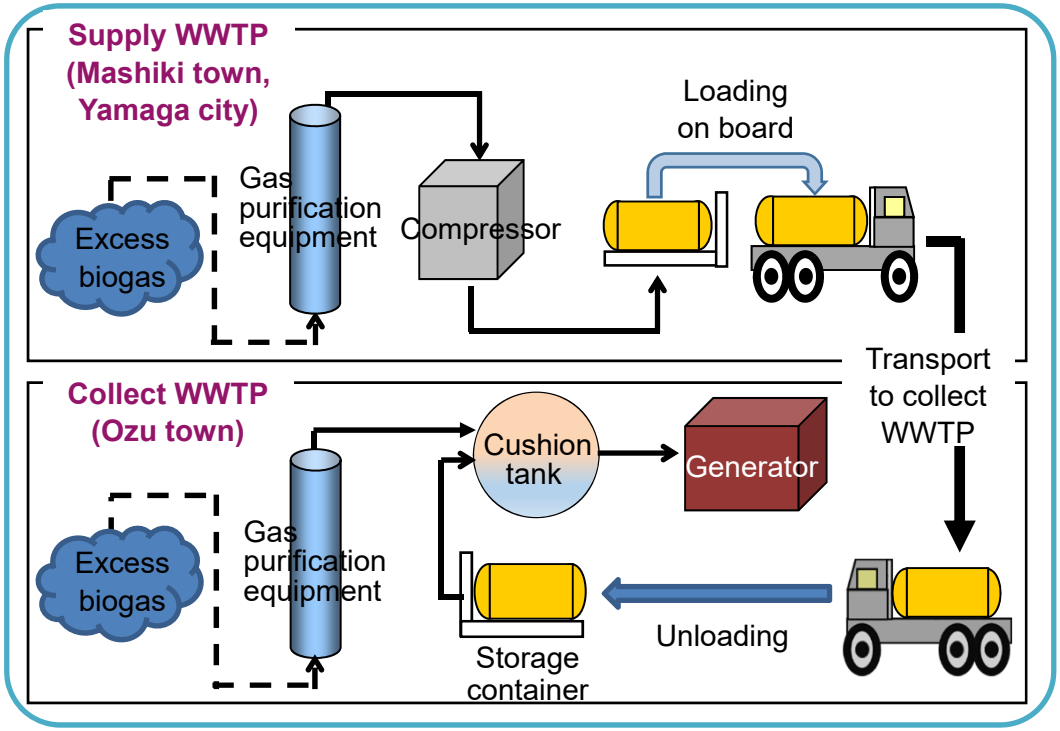
Consortium between JNC Engineering Co., Ltd. Adsorption Technology IndustriesLtd, Kyudenko Corporation, Yamaga-Toshi Gas Co., Ltd. Prefectural Universityof Kumamoto, Yamaga City, Ozu Town and Mashiki Town

Project Fields

Ozu town Wastewater Treatment Plant,Mashiki town Wastewater Treatment Plant,Yamaga Wastewater Treatment Plant

Project Outline

３箇所の小規模な下水処理場から発生するバイオガスについて、精製装置によりメタンガスの純度を高めた後に、吸着剤入りの吸蔵容器でガスを貯蔵し、容器ごと車両で運搬して集約する。低コストで1箇所に集約してより大きな発電規模で効率的にエネルギー利用する。



Characteristics of the innovative technology

●Equipment for purifying biogas：

By simplifying the configuration of the conventional device, a purification device that achieves low cost is adopted.

●Storage and concentration of purified methane gas：

A storage vessel filled with a methane gas adsorbent is adopted. Since this adsorbent can adsorb methane at low temperature and pressure, it is generally cheaper than the method of storing and transporting gas, and it is easy to introduce because the High Pressure Gas Safety Act becomes out of application