## Hydrogen Leader City Project ∼Demonstration of Hydrogen Generation from Sewage Biogas Source ∼

## **Participants**

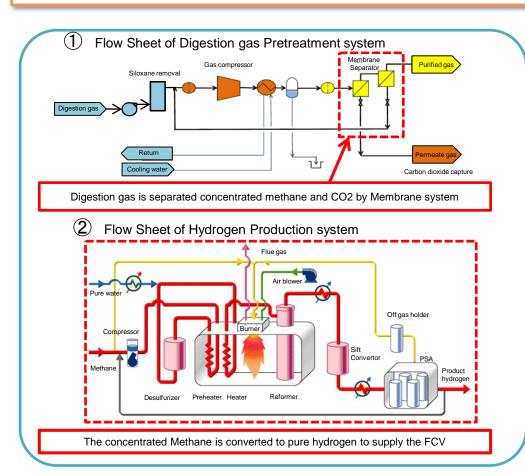
Mitsubishi Kakoki Kaisha, Ltd., Fukuoka City, Kyusyu University, Toyota Tsusho Corporation Collaborative Research Body

## Site of Demonstration

Fukuoka City Chubu Wastewater Treatment Center

## Outline of the project

Demonstration plant consists mainly of digestion gas pretreatment facility, hydrogen production facility and hydrogen supply facility to produce pure hydrogen for Fuel Cell Vehicle (FCV for short) from digestion gas. Purpose of this project is to verify the quality of product hydrogen and overall production capacity and so on.



- Feature of Technologies
- ①Digestion Gas Pretreatment system

A membrane separator is installed as a pretreatment step to separate CH4/CO2 and methane rich gas supply to hydrogen production system..

The effect is as follows

- ⇒Improve the hydrogen production efficiency of hydrogen production system.
  - ⇒Improve stability of hydrogen production system.
- ②Hydrogen Production Technology

High purity hydrogen can be produce from digestion gas containing siloxane and high-boiling hydrocarbon.