



Contributes to
Clean Energy Technology

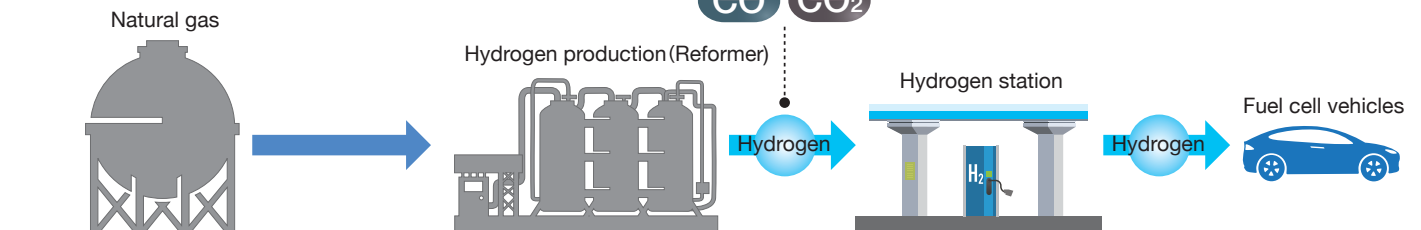
Continuous Monitoring of Impurities in the Process of Hydrogen and Methane Purification

Hydrogen which is attracting attention as the next generation of clean energy, is purified not only from water using electricity, but also from oil, natural gas, biomass, methane and other sources. If there are any impurities in the purified Hydrogen, it may lead to short life of fuel cell. Accordingly, highly accurate impurity measurement is of great importance.

Highly accurate measurement of impurities such as Carbon Dioxide and Carbon Monoxide, which may lead to shortening the life of fuel cell, during the Hydrogen purification process.

[Monitor impurities]

CO CO₂



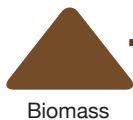
Monitor the concentration of Nitrogen Monoxide as it is greenhouse gas caused by nitrification and Nitrogen reactions during sewage treatment.

[Monitor greenhouse gas]

N₂O



Sewage treatment plant



Biomass

Set optimal fermentation conditions by measuring Methane and Carbon Dioxide inside the equipment that purifies Methane by fermentation organic matters such as biomass.

[Monitor generated gas]

CO₂
CH₄



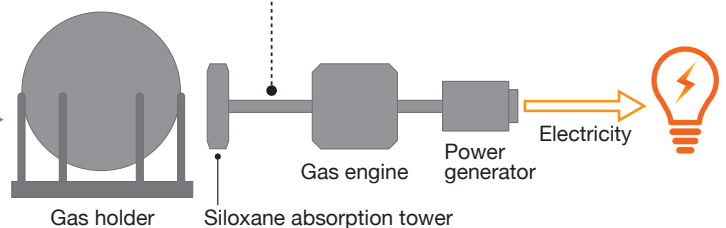
Methane fermentation equipment

Methane

Measurement of Siloxane for prevention its adhering inside the engine and consequent decrease of efficiency.

[Monitor impurities]

Siloxane



Trace Gas Analyzer GA-370

- Monitors trace impurities such as H₂, N₂, O₂ for quality control at gas manufacturing facilities
- Continuous measurement of up to two components among CO, CO₂ and CH₄
- Long term stability by Cross Flow Modulation type NDIR
- Minimum detection limit of 10ppb



Siloxane Analyzer VA-5000

- Continuous high sensitivity monitoring of Siloxane generated by biogas purification
- Simultaneous measurement of CO₂ and CH₄ which contributes to efficient biogas power generation

