Atomis Inc.

- Address: Kobe City, Hyogo Pref.
- Employees: 24
- Established in 2015
- Business: Design, evaluation, manufacturing and sales of porous coordination polymers and development of new applications

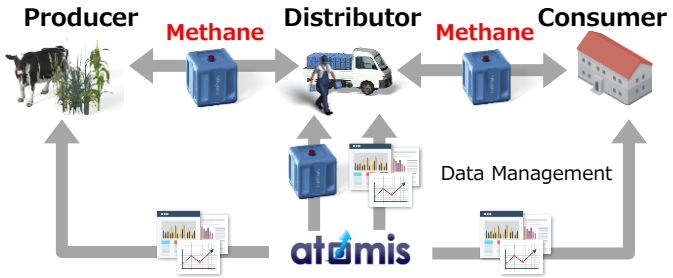
https://www.atomis.co.jp/en/

Outline of the demonstration project

- Demonstration Project of Next-Generation High-Pressure Gas Container CubiTan® for Establishment of New Methane Gas Supply Chain in Indonesia

Cooperation with local companies/governments

- Local Partner: National Research and Innovation Agency (BRIN)
- Details of Partnership/Cooperation: Support related to applying for the Indonesian government's approval as a high-pressure gas container, and cooperation in demonstration testing, including negotiations with methane gas producers, gas consumers, and distributors.



Targeted economic/social issues

- Indonesia is an LNG producing country, but imports LPG for domestic use.
- There is no way to deliver methane gas (LNG, Biomass-derived).
- They are seeking measures to meet greenhouse gas reduction targets by 2030.

Details of demonstration

- To evaluate the feasibility and effectiveness (cost, CO2 emissions, convenience) of a new and digitalized high-pressure gas distribution network for domestically produced methane gas using next-generation high-pressure gas container CubiTan, which is lightweight, compact, and IoT-enabled. CubiTan is the world's only one high-pressure gas container that contains gas adsorbent and is IoT-enabled.
- To investigate optimization of the process of dispensing methane from the methane fermentation plant into high-pressure gas containers.

Expected outcome of beneficiary effects

- Improvement of international competitiveness through effective use of domestic energy
- Contribution to environmental issues by improving delivery efficiency and effective use of methane gas
- Creation of new markets including methane gas production and delivery
- Creation of new industries including production of CFRP containers and gas adsorbents (new materials)