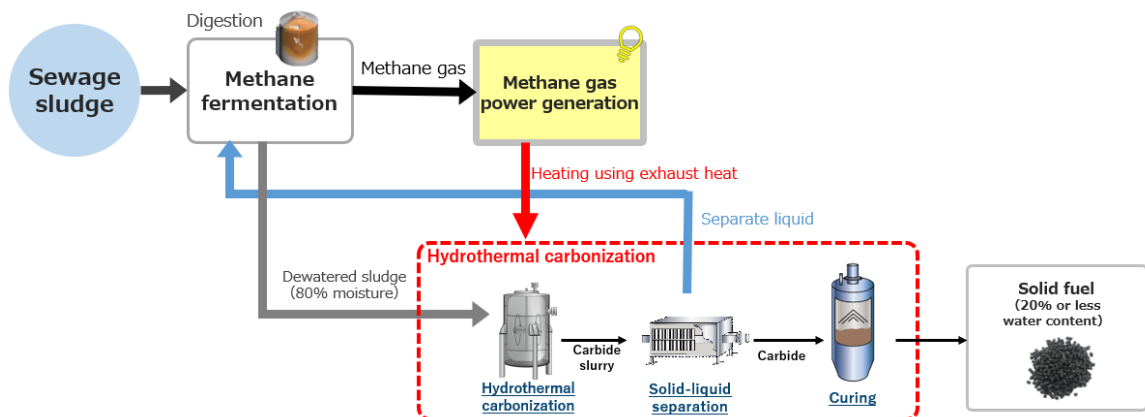


Hydrothermal carbonization technology

Technology for enabling carbon neutrality in sewage treatment

Producing solid fuel by the carbonization of sewage sludge traditionally involves the drying process to remove water content from the sludge and the carbonization process to steam-bake the organic matter, which requires a lot of energy. In contrast, the hydrothermal carbonization technology makes it possible to significantly reduce the energy required to produce solid fuel by carbonizing sludge in the low-temperature wet process that causes a reaction to proceed in the liquid. Therefore, what is needed as the heat source for this technology is simply the exhaust heat from the power generator, which is the most distinctive feature of this technology.



• As joint research among Kobelco Eco-Solutions Co., Ltd., the Japan Sewage Works Agency, and Fuji City (Shizuoka Prefecture), the demonstration experiment is currently underway at the Seibu Wastewater Treatment Plant in Fuji City

Features

- Processing is possible simply with the exhaust heat from the power generator
- More economical than traditional carbonization technology
- Solid fuel suitable for each user can be manufactured
- The combination of this technology with methane fermentation holds promise for carbon neutrality in sewage treatment

Hydrothermal carbonization mechanism

