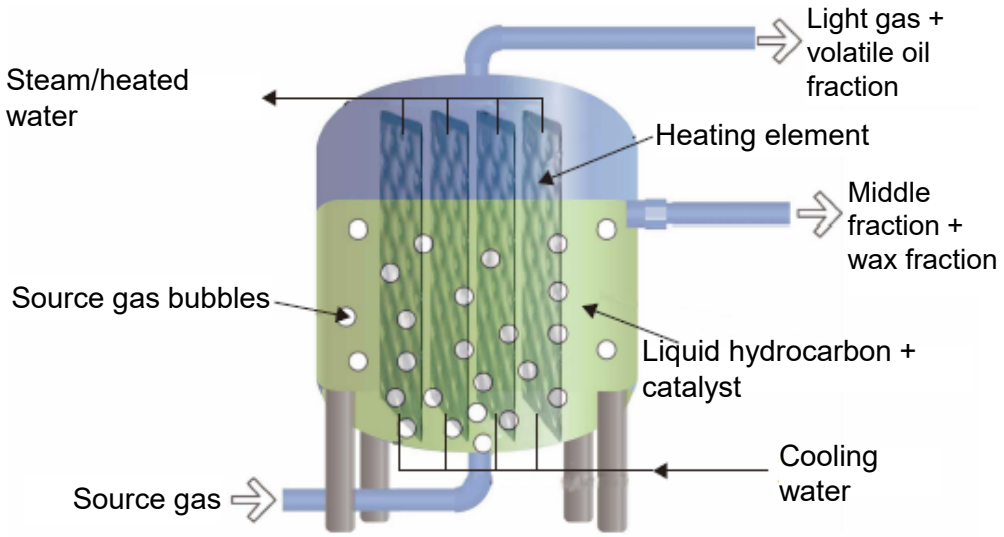
# Fuel Generation by FT Synthesis

R&D | FS/Demo | Product/ Service

Technology Research Center

- SHI is conducting R&D on **Fischer-Tropsch (FT) synthesis,** designed to synthesize liquid high-cetane fuels with zero sulfur content from **synthesis gas (CO and $H_2$) containing $CO_2$** using own catalyst. The crude oil synthesized will be distilled and separated into **light oil and jet fuel.**
- While conventional FT synthesis requires decarboxylation, SHI has a technology to produce **liquid fuel without separating $CO_2$** SHI is also considering **the conversion of the synthesis gas from its gasification system into fuel.**
- Synthetic fuels have the advantage of **utilizing the existing internal combustion engines and fuel infrastructure,** which means the users can **minimize the cost needed to respond to decarbonization**.




## Carbon Neutral Contribution points

- ✓ This synthesis approach can **manufacture the potential to produce carbon-neutral fuels** from biomass-derived synthesis gases.
- ✓ This synthesis approach can **minimize the cost needed to respond to decarbonization.**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