

Sumitomo SHI FW and VTT sign long-term agreement for sustainable fuels technology

Sumitomo SHI FW (SFW) and VTT Technical Research Centre of Finland have signed a license agreement to advance the production of clean syngas from non-recyclable biowaste for sustainable fuels. The agreement gives SFW exclusive rights to use VTT's syngas reformer technology.

The technology will be used in SFW's gasification plants for sustainable fuels and chemicals across the globe. It enables the production of clean syngas from non-recyclable biowastes, such as woody and agricultural residues and municipal biowaste. Syngas is a key raw material for sustainable fuels and chemicals, needed for decarbonizing transportation, including shipping and aviation and in hard-to-abate sectors.

The combination of SFW's gasification and VTT's reformer technologies allows conversion of residual biowaste streams into drop-in liquid fuels, such as green methanol and sustainable aviation fuels (SAF), that can be used in existing engines, turbines and infrastructure without significant modifications.

"With this agreement, our long cooperation with VTT continues a very positive path. Our joint work on renewable transportation fuels began more than 15 years ago with a liquid fuel demonstration project. The technology is now ready for commercial use for SAF, carbon neutral maritime fuels and other sustainable fuels and chemicals," says **Tomas Harju-Jeanty**, CEO of SFW.

VTT began developing syngas reforming technology in the 1990s. SFW delivered its first biomass gasifiers in the 1980s. The industrial-scale liquid fuel plant in Finland has proven their technical performance using a wide range of biowaste streams, including forest industry by-products and residues.

"This agreement shows how VTT works with industry to bring decarbonization technologies to market. Through this license, our combined experience becomes available to SFW's customers for commercial sustainable fuel projects," says **Kalle Härkki**, CEO of VTT.

Under the license agreement, SFW and VTT have also agreed to a program of common work, development and testing together, with the goal of further improving gasification performance and syngas yields. This will support the production of low-carbon fuels and chemicals needed to reduce emissions.

For more information, please contact:

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Photo 1. (Photographer: Vesa Kippola). Gasification process development and testing facility in VTT Bioruukki, Espoo, Finland (In the picture: Ilkka Hiltunen & Aleksi Vartiainen).



Photo 2. and 3. (Photographer: Maarit Gratschew). SFW's CEO Tomas Harju-Jeanty and VTT's CEO Kalle Härkki.



Further information on VTT:

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VTT – beyond the obvious

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About SFW

[Sumitomo SHI FW \(SFW\)](#) is a global provider of solutions and services that drive the decarbonization of energy. Our solutions include energy from biomass and waste, long duration energy storage, recycling of waste to valuable end products, carbon capture, flue gas cleaning, waste heat boilers, as well as related services to digitalize, optimize, and decarbonize assets that we deliver to the global power and industrial markets.

We strive to provide sustainable energy solutions for customers in a wide range of industries including energy, waste, chemicals, metal, sustainable fuels, cement and pulp and paper. SFW's excellence in delivering projects worldwide rely on our 1,800 talented people, across 20 locations in 14 countries, with deep know-how and experience in the industry.

Powering a decarbonized world for everyone. For more information, please visit Sumitomo SHI FW at shi-fw.com.