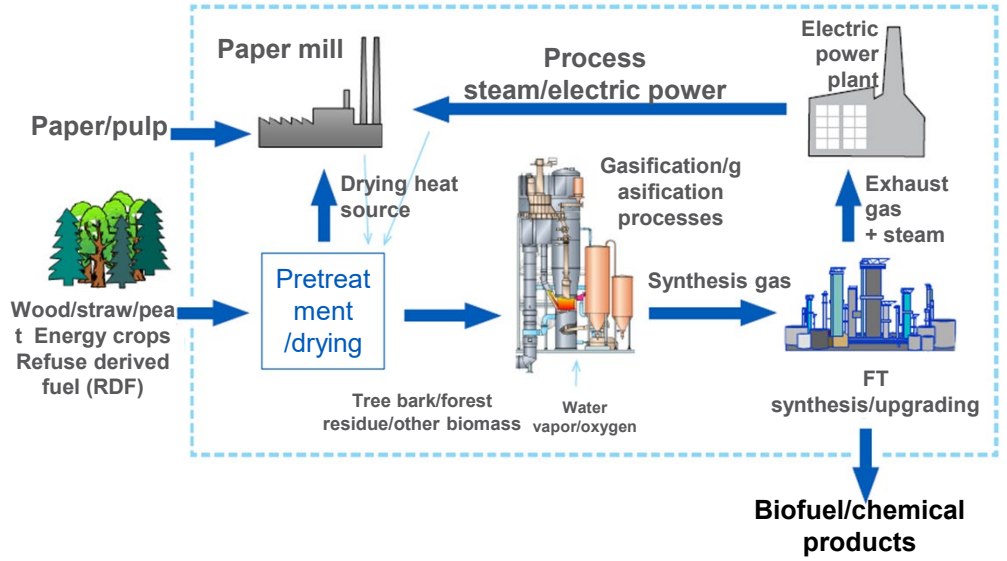
Gasification Furnaces to Generate Synthesis Gas

R&D | FS/Demo | Product/ Service

Energy & Environment SBU

- **Gasification is the process of transforming solid fuel into synthesis gas (hydrogen and carbon monoxide).** The synthesis gas generated can also be used **as a raw material for chemicals such as methanol and for aviation fuel,** making it an alternative to fossil resources for use in multiple applications.
- SHI's fluidized bed gasification furnaces can utilize a wide variety of resources, such as waste plastics, construction waste, forest residue, and agricultural residue. These gasification furnaces will contribute to decarbonization by using synthetic gases derived from biomass and recycled materials, for chemicals and aviation fuel as carbon resources to replace fossil resources.

  * SHI has delivered this technology as biomass gasification equipment since the 1980s.



Carbon Neutral Contribution points

- ✓ Production of green fuels with reduced CO_2 emissions compared to conventional fossil-based processes
- ✓ **Reducing the use of fossil resources**

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