



# Second generation biomass gasification: The Syngas Platform Vienna – current status

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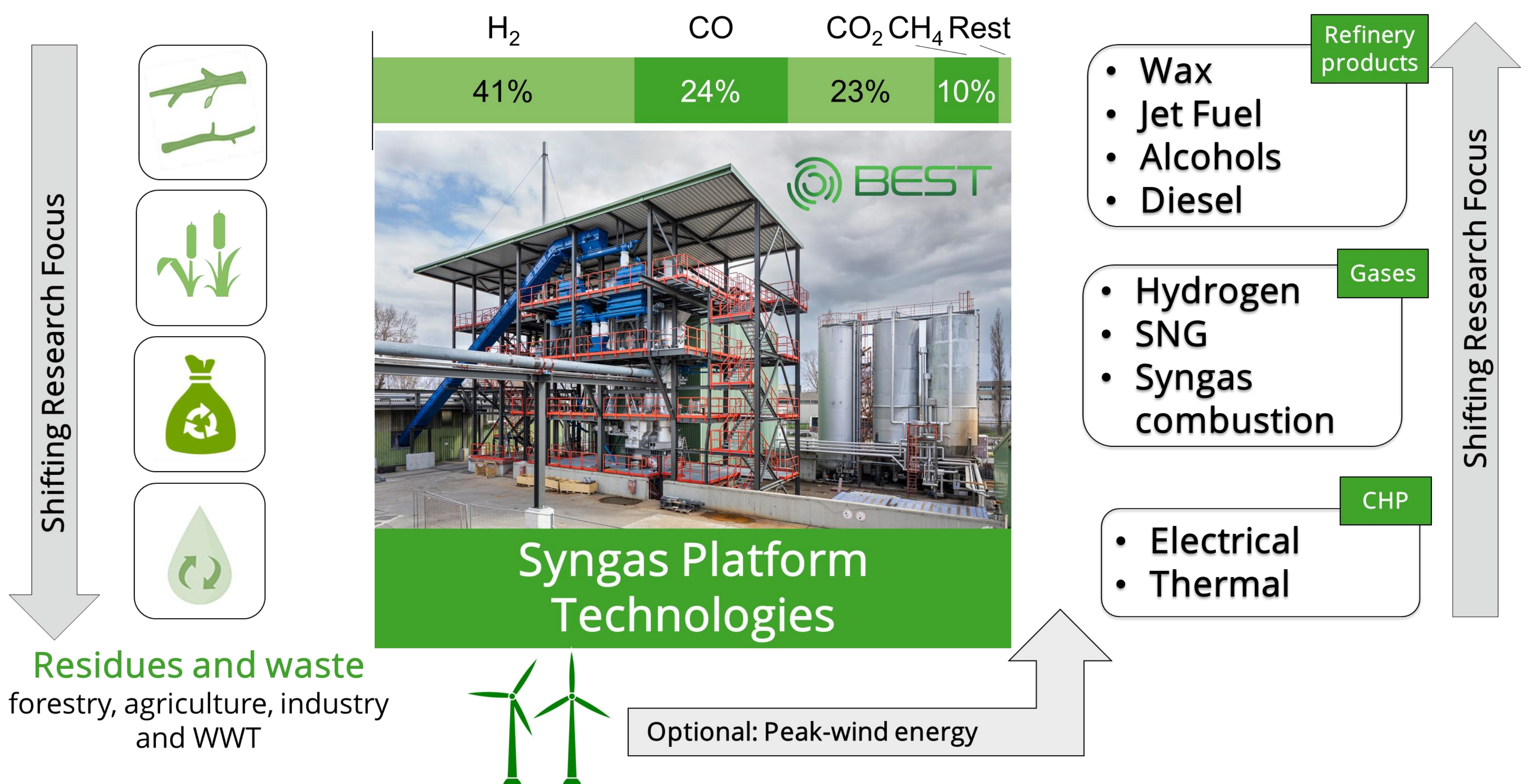
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## Description

The gasification of biogenic residues leads to a product gas, which can be further used to produce various bio-based fuels and products, including synthetic natural gas, hydrogen and liquid fuels. So far gasification of biogenic residues has only been tested in smaller scales and for short time-frames. With our 1 MW dual fluidized bed (DFB) steam gasifier we can demonstrate long-term operation for several days and weeks, together with downstream synthesis in a 1 barrel per day Fischer Tropsch synthesis to produce liquid fuels like diesel or jet fuel.



## Available infrastructure

- 1 MW DFB steam gasifier
- 1 barrel/day Fischer Tropsch plant
- Lab-scale Fischer Tropsch plant
- Lab-scale aqueous phase reformer
- Novel gas cleaning testing skid
- Measurement infrastructure

## Already demonstrated fuels

- Wood chips (incl. full-chain demonstration with Fischer Tropsch synthesis)
- Forest residues (2 qualities)
- Bark
- Rejects from paper recycling