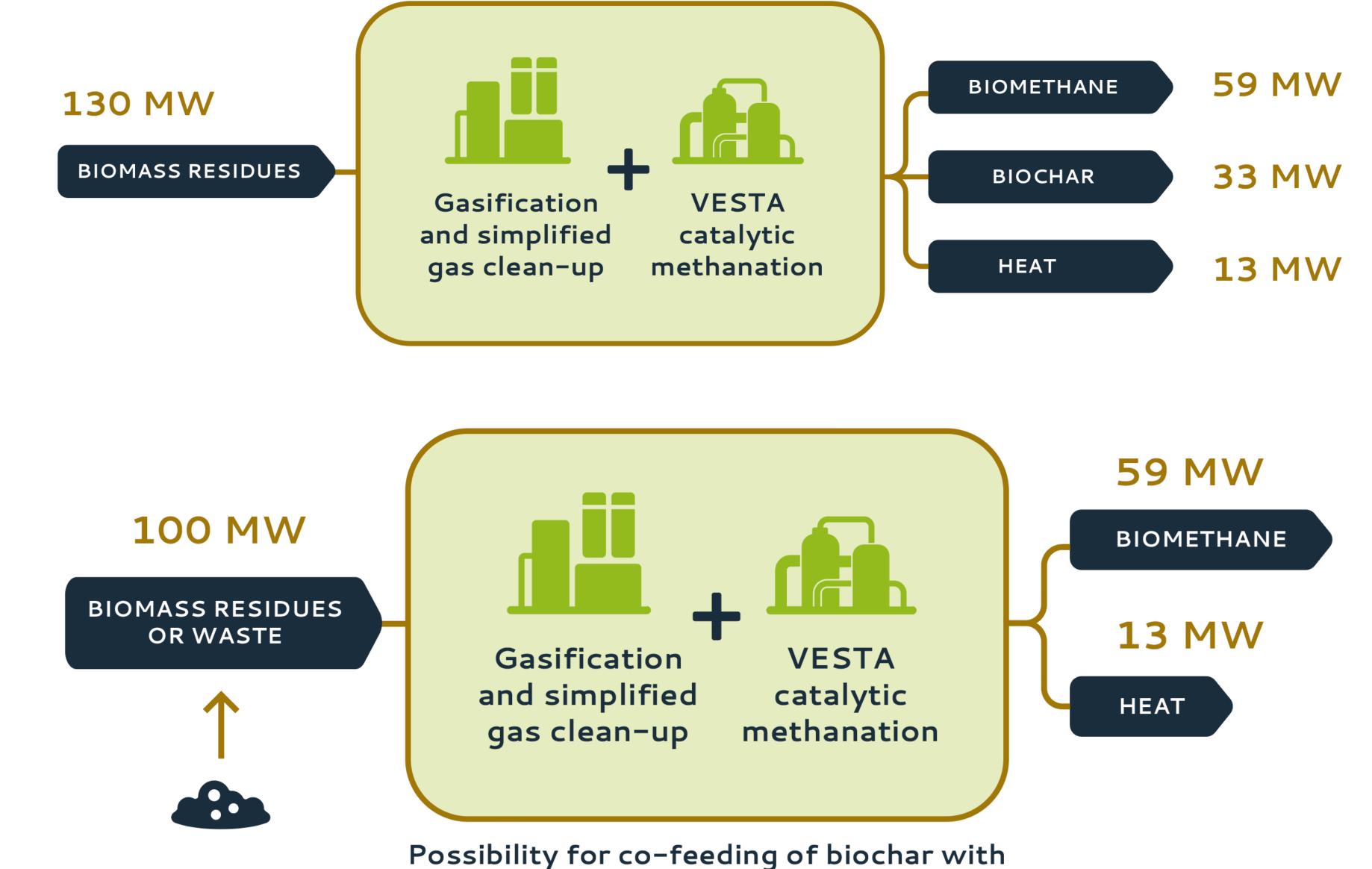


Flexible Production of Synthetic Natural Gas and Biochar via Gasification of Biomass and Waste Feedstocks

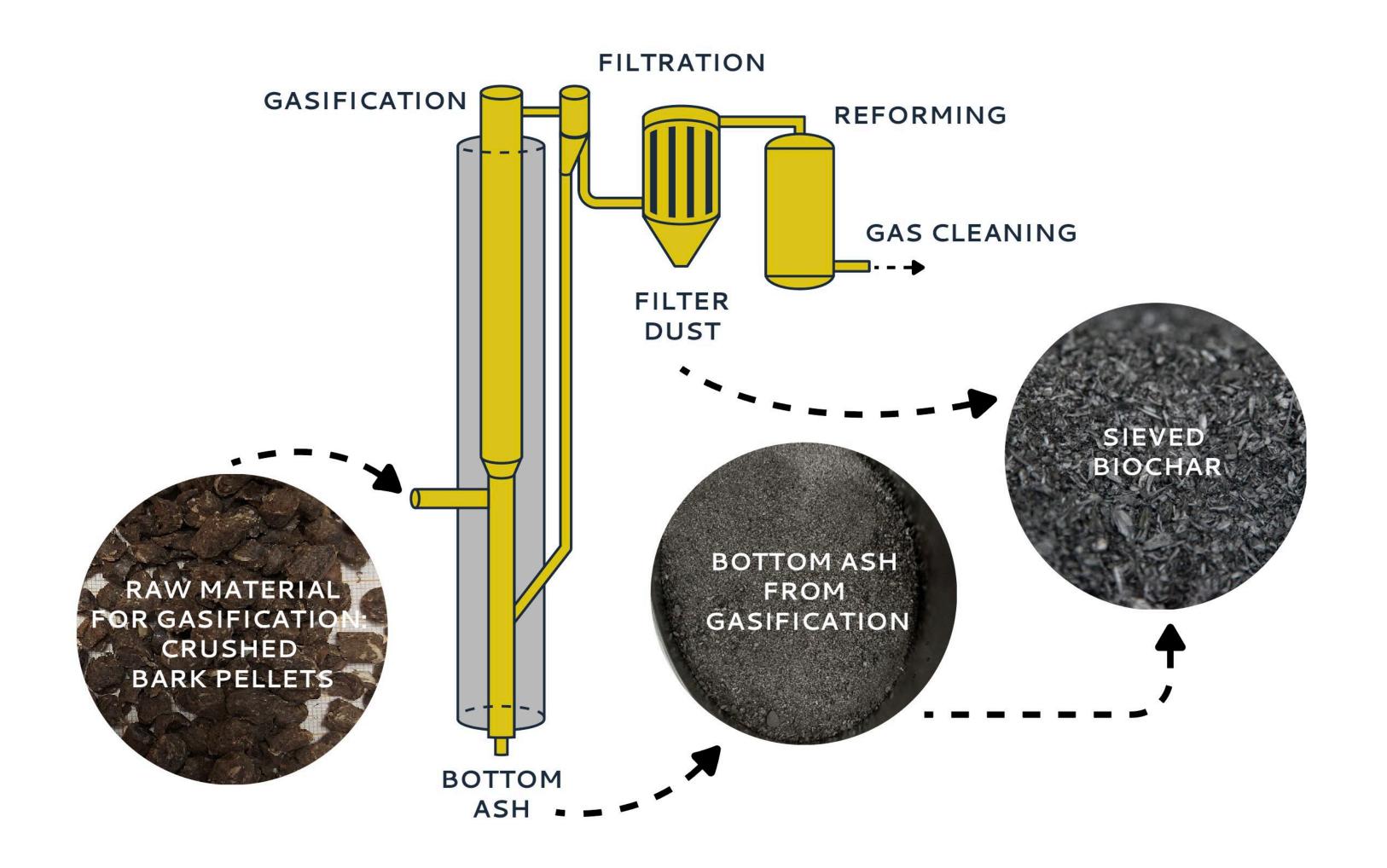
FlexSNG is an EU-Canada jointly funded Horizon 2020 project that aims at fostering international collaboration between the European Union and Canada in the strategic sectors of bioenergy and biofuels.

The FlexSNG concept

The objective is to develop and validate to TRL5 a **flexible** and **cost-effective** gasification-based process for the production of **pipeline-quality** biomethane, high-value biochar and renewable heat from a wide variety of biomass residues and biogenic waste feedstocks. The FlexSNG gasification concept is based on the "one plant, two modes" approach where the plant can switch between:



low-grade waste feedstocks



Key innovations

The main technologies and innovations at the heart of the FlexSNG project are:

- Bubbling Circulating Fluidised-Bed (BCFB) gasifier;
- VESTA catalytic methanation;
- Oxygen transport membranes (OTMs) for low-cost oxygen production;
- Simplified gas clean-up;
- Optimized feedstock supply chains using sophisticated modelling tools.

Biochar production in VTT's gasification pilot plant.

CONSORTIUM

























www.flexsng.eu

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FlexSNG is a Research and Innovation Action (RIA) that started on June 1st 2021 and will run for 36 months until May 31st 2024. The FlexSNG project is coordinated by VTT.

Contact



