



The way to aromatics

Black Birds

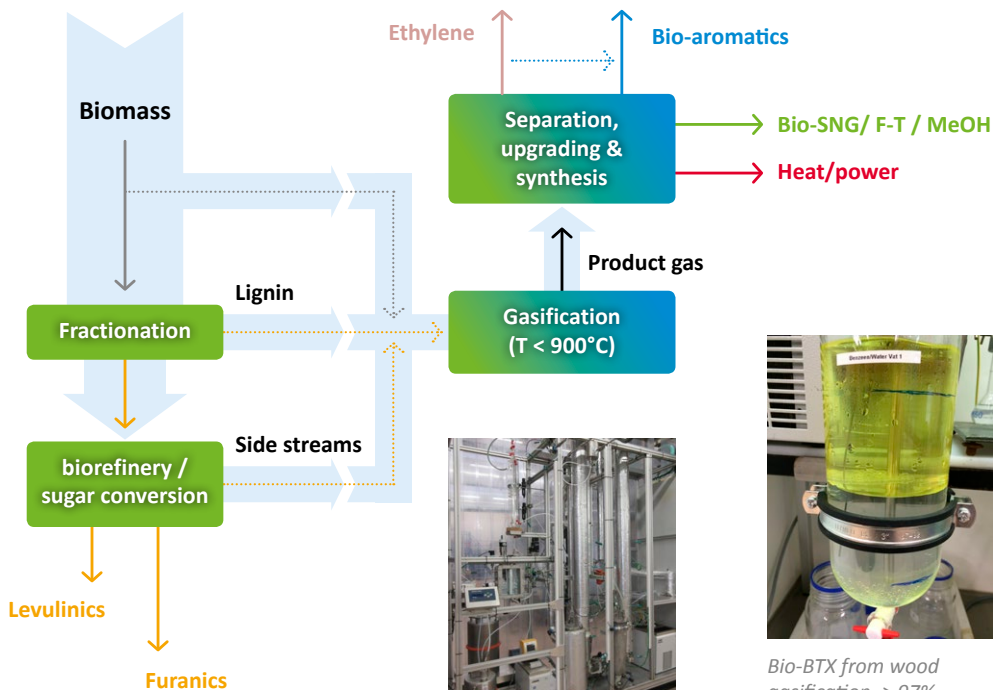
Combined thermochemical and catalytic processing adapted for the production of high-value products and energy from lignin

- ▶ Black Birds is a Dutch TKI project that considers low-temperature gasification for the valorization of lignin residues from biomass fractionation processes. High-value compounds like bio-ethylene and bio-aromatics are harvested from the product gas instead of being just converted in syngas by using novel co-production technologies (adsorption, absorption, and catalytic conversion).

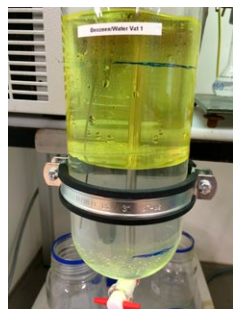
Gasification thus becomes a 'thermochemical biorefinery'. The combined application of low-value biomass and co-production schemes eventually results in a reduction of the production cost of green gas and biofuels.

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► Project approach



Bio-BTX scrubber unit (1 Nm³/h feed)



Bio-BTX from wood gasification, > 97% recovery

► Partners:



Viride SuStra B.V.
Innovation Contributing to a Sustainable World



Ministerie van Economische Zaken

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