

Cortus Energy AB

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EXPERTISE A new innovative biomass gasification process. A new standard is reached with the WoodRoll® process improving the thermal yield and syngas quality to levels never even imaginable before. There are two installations in Sweden today: a test plant of 0,5 MW and one industrial 6 MW WoodRoll®.

Use our expertise in thermal treatment of biomass, from drying, pyrolysis to steam gasification and green carbon for metallurgical processes. We have over 15 years built a unique knowledge in biomass thermal treatment. Cortus has a database of biomass characteristics based upon more than 300 global samples tested in our laboratory and more than 30 biomasses operated in our test plant.

TECHNOLOGY Today Cortus has a WoodRoll® standard modular plant where 60 tons per day of wet biomass (40% humidity) is processed into 2 100 Nm³/h of syngas. The composition is typically 58% Hydrogen, 29% Carbon monoxide, 2% Methane and the balance CO₂. The power output is 6 MW syngas.

Hydrogen production rate can be up to 1 700 Nm³/h utilizing our patented downstream process of integrated two stage PSA and water gas shift. Furthermore, the WoodRoll® syngas complies to catalytic processing i.e. methanol, methane, etc. confirmed in test plant in Sweden.

Cortus green carbon have been verified in electric arc furnace and sponge iron process.

SERVICE/INNOVATION Helping customers going for zero carbon emissions by implementing the WoodRoll® process platform.

INTERNATIONAL EXPERIENCE Partnering with Engie in the pre-study for a hydrogen project, Wood-Hy, in Bordeaux in 2020. Cortus has also developed other project in the EU, the USA and Japan.

CASE STUDIES

- Höganäs AB, Sweden: 6 MW WoodRoll® for substituting fossil natural gas in reheating furnaces and green carbon for steel.
- Mariposa Biomass Project, USA: 2,7 MWel from a standard 6 MW WoodRoll®.

TARGETING SECTORS Steel, Minerals, Pulp&Paper, Chemical and Power industries.