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EXPERTISE

Biomass gasification for renewable gas and power.

» TECHNOLOGY

Patented entrained flow gasification technology optimized for biomass residues. Ability to use fine fraction biomass, which enables use of sawdust, MDF dust etc. without need of standardized pellets or chips.

» SERVICE / INNOVATION

Fossil free manufacturing by on-site energy generation from local biomass waste streams enabled by industrial size modularized biomass gasification units prefabricated before being delivered.

Industrial renewable gas application:

Replace fossil gas (LPG or natural gas) by renewable syngas in industrial process heat generation. Current set-up of 3,5 MW gas per unit.

Combined Heat and Power application:

CHP in e.g wood processing industries or district heating in small communities. Current set-up of 1.2 MWe and 2.4 MWth per unit.

INTERNATIONAL EXPERIENCE

1,2 MWe and 2,4 MWth combined heat and power plant installation in the village of Hortlax in the north of Sweden.

» CASE STUDIES

Gas: Tissue producer in Sweden: 30% reduced power costs and 6 600 tons CO₂ reduction.

CHP: MDF furniture producer in Poland 2 Meva units: 50% reduced energy cost and 13 200 tons of saved CO₂.

TARGETING SECTORS

Gas: Tissue production replacing fossil gas for tissue drying hoods.

CHP: Board processing companies (e.g MDF producers or furniture producers)



SWEDISH BIOENERGY CLIMATE SOLUTIONS
is a platform focusing on internationalization of Swedish bioenergy technology and knowledge. Funded by the Swedish Energy Agency.

www.svebioclimate.se