

WoodRoll® – Versatile green Energy gas

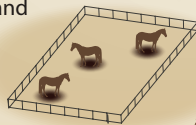
WoodRoll® is a unique technology that replaces fossil energy by efficient gasification of biomass that produces green energy for vehicles, industry and power generation.

Feedstock

Forest-based feedstock
such as forest residues
and energy crops.



Waste from industry
such as fiber sludge and
construction waste.



Agricultural waste
such as animal manure
and crop residues.

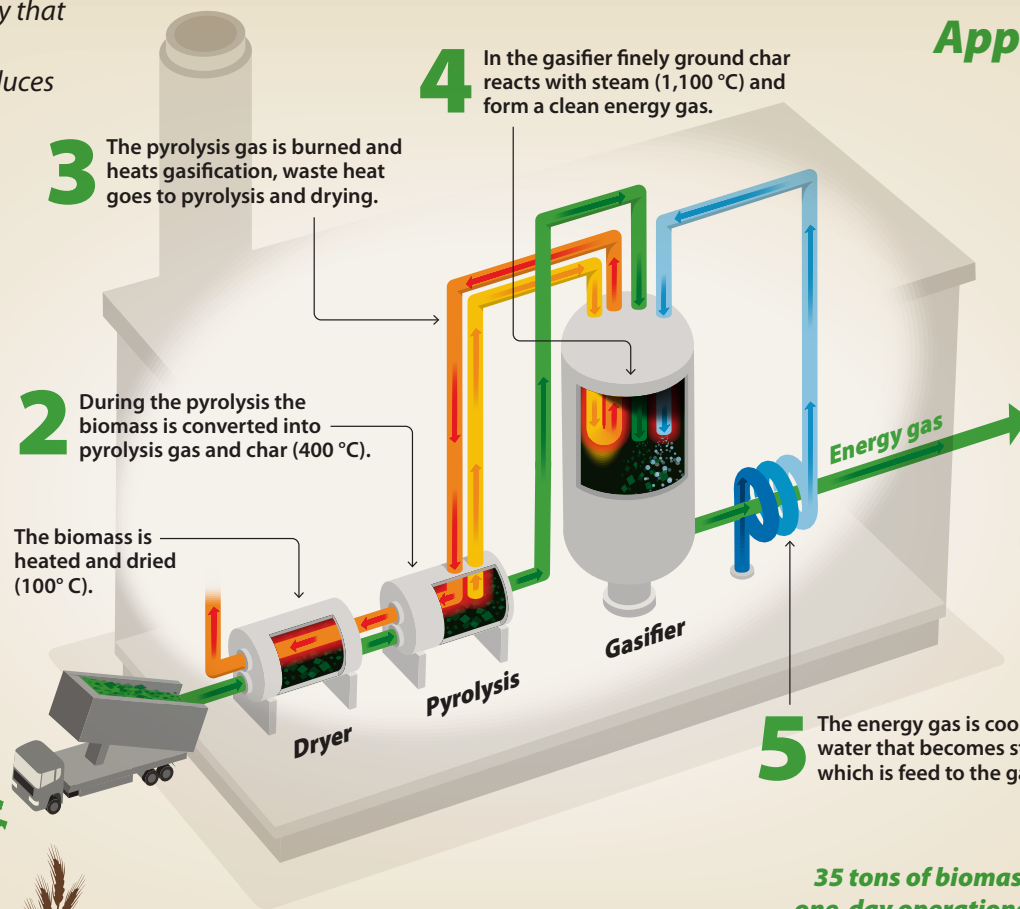
1 The biomass is heated and dried (100° C).

2 During the pyrolysis the biomass is converted into pyrolysis gas and char (400 °C).

3 The pyrolysis gas is burned and heats gasification, waste heat goes to pyrolysis and drying.

4 In the gasifier finely ground char reacts with steam (1,100 °C) and form a clean energy gas.

5 The energy gas is cooled with water that becomes steam, which is feed to the gasifier.



Applications

Biogas



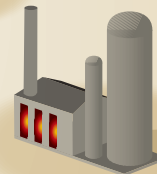
Renewable power



Hydrogen



Industry



35 tons of biomass (equivalent to a lorry with trailer)
one-day operation of a WoodRoll® = 100 oil barrels

