

DIAGRAM OF THE THERMOCHEMICAL CONVERSION PROCESS

PRETREATMENT

- 1 Lignocellulosic feedstock
- 2 Initial grinding and drying
- 3 Torrefaction
- 4 Hydrocarbon feedstock (if coprocessed)

GASIFICATION

- 5 Air separator
- 6 Input, gasifier
- 7 Quench chamber



FISCHER-TROPSCH PROCESS AND UPGRADING

- 11 Fischer-Tropsch plant
- 12 Hydrotreating/hydrocracking
- 13 BIODIESEL/BIOJET FUEL/BIONAPHTA

SYNGAS CONDITIONING

- 8 H_2/CO Ratio adjustment
- 9 Cleaning with physical or chemical solvents
- 10 Final purification