

airdry lignocellulose 100 % HHV

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fast pyrolysis
slightly exothermal

~ 1,5 %

condensate/char – slurry
~ 88 %

~ 4 %

pyrolysis gas

energy for
pyrolysis

~ 6 %

**entrained -
flow gasification**

~ 3 %

~ 0,5 %

synthesis-raw gas
clean syngas
~ 72 % + 4 % recycle

heat of reaction

~ 13 %

FT - synthesis

~ 0,5 %

heat of reaction

~ 18 %

synthesis products
~ 52 % + 3 % recycle

unconverted syngas

~ 4 %

~ 0,5 %

separation

C₅ - products

~ 5 %

thermal losses
sum ~ 3%

~ 40 %: electricity
high- p steam

~ 42 %: FTS synfuel
recycle + 3 % C₅₊- products

C₅- by-product
recycle ~ 5%