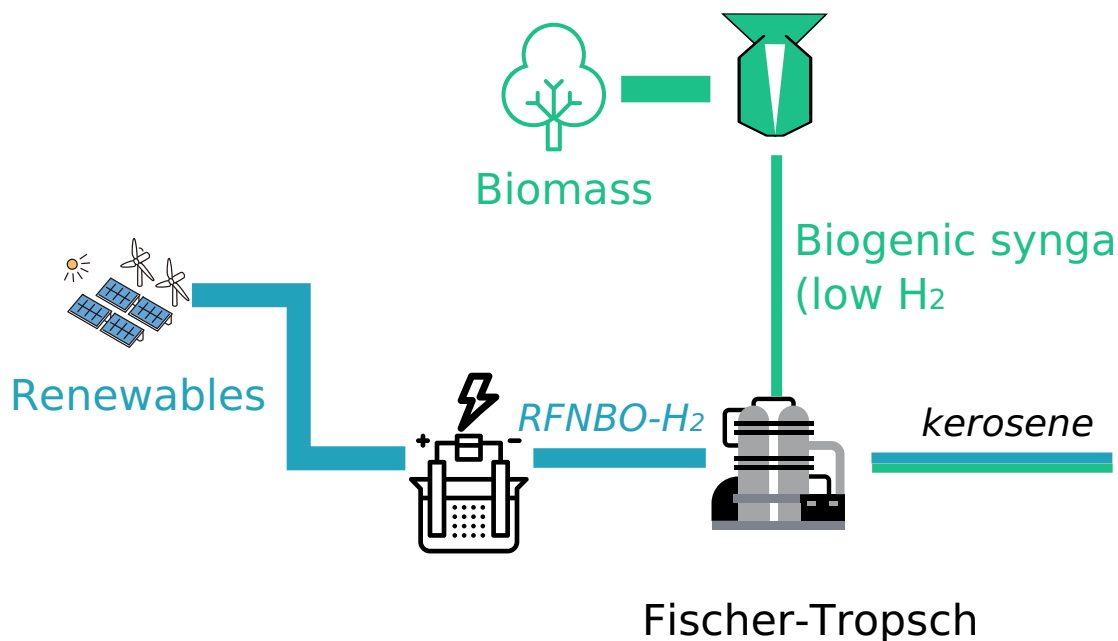


5: Biogenic syngas with surplus CO and RFNBO hydrogen

How to split biogenic and RFNBO-parts



Instead of using a shift reaction to increase the H₂/CO ratio in biogenic syngas, RFNBO hydrogen is added to the Fischer-Tropsch process. According to the “co-processing exception” in Annex A point 1, a distinction on a proportional basis of the energetic value of inputs shall be made.

Assumptions

Parameter	Symbol	Example value
Energy ratio of syngas to hydrogen	$\backslash(r_{\{sh\}}\backslash)$	$\backslash(4\backslash\color{grey}\{\left.MJ_{\{syngas\}}\middle/MJ_{\{hydrogen\}}\right.\}\backslash)$
Efficiency of the FT reaction	$\backslash(\eta_{\{FT\}}\backslash)$	$\backslash(70\backslash\color{grey}\{\%\}\backslash)$
Fully renewable electricity carbon intensity	$\backslash(ci_{\{ren\}}\backslash)$	$\backslash(0\backslash\color{grey}\{\left.g\backslash CO_2,eq\middle/kWh_{\{el\}}\right.\}\backslash)$