

⇒ Our proposed approach for LCE 8 – 2014 towards the creation of a 100% synthesis gas output platform as intermediary transformation level from feedstock energy to flexible usage paths towards final energy output can be modulated according to a connected grid's needs, without having to force base-plants through significantly more thermal cycles, otherwise leading to increased rate of wear on plant components. The synthesis gas output platform enables operational flexibility downstream the thermo chemical fuel transformation. With the right choice of thermo chemical process Technology at appropriate scale, co-gasification of fossil and atmospheric stock carbonaceous fuels could be applied for de-carbonization.

Although synthetic fuel produced from at least partly fossil derived synthesis gas use, e.g. synthetic diesel, might be considered still fossil, the CO₂ balance of such synthetic Diesel or Kerosene would be leaner than from fossil derived, Hydrogen de-sulfured Diesel fuel.