

Essential elements of sound sustainability criteria for powerfuels

Impulse statement

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Powerfuels in the European energy transition:

The need for effective regulation

Brussels, 17 June 2019

Sustainability issues around powerfuels can become a real showstopper – so let's address them early!

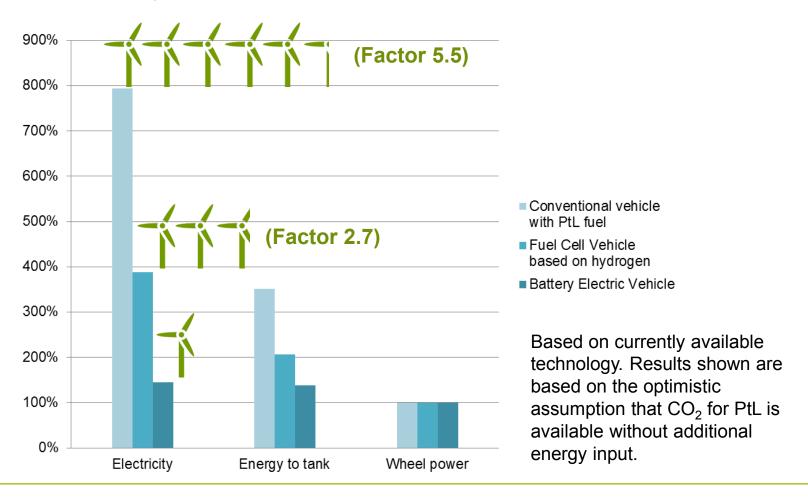
Let's not repeat the mistakes made in developing biofuels.

We need to develop a sound strategy before we roll out a new technology.



Efficiency first! We should use electricity directly where possible

RES electricity input for different paths of road vehicle electrification



Powerfuels are not carbon neutral per se! Avoid high emissions by adding renewable generation

Powerfuels are renewable and climate-friendly

We buy green power for our powerfuels plant

We will use excess renewables for producing powerfuels

We will build new wind & PV plants for our powerfuels production

Really? We have to assess the impact of powerfuels on the electricity sector

Usually this does not lead to any additional RES electricity production.

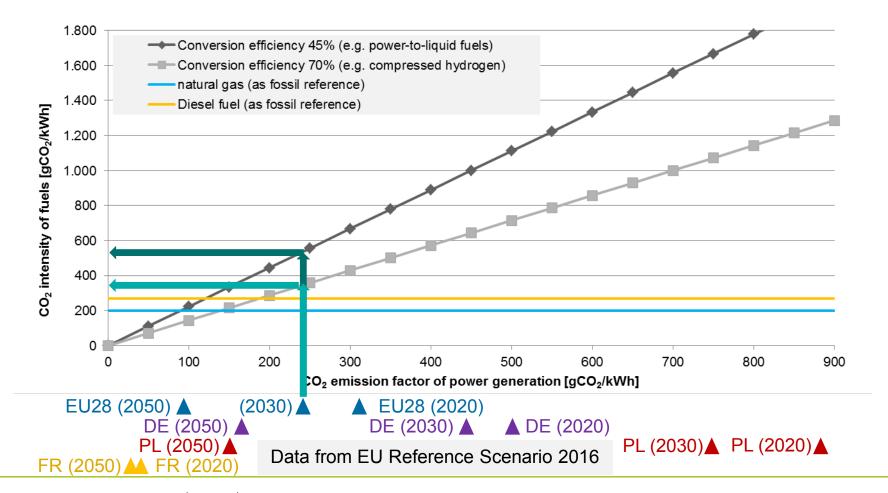
Excess RES are scarce, intermittent and occur only at certain locations

Great! Make sure that you do not use public support and that the plants are not accounted towards the current EU RES targets

Powerfuels should be produced from truly additional RES electricity!

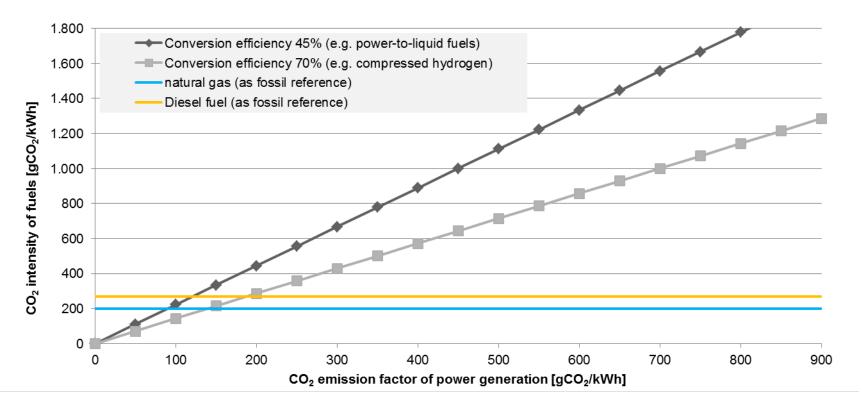
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CO₂ intensity of powerfuels depending on electricity emission factor



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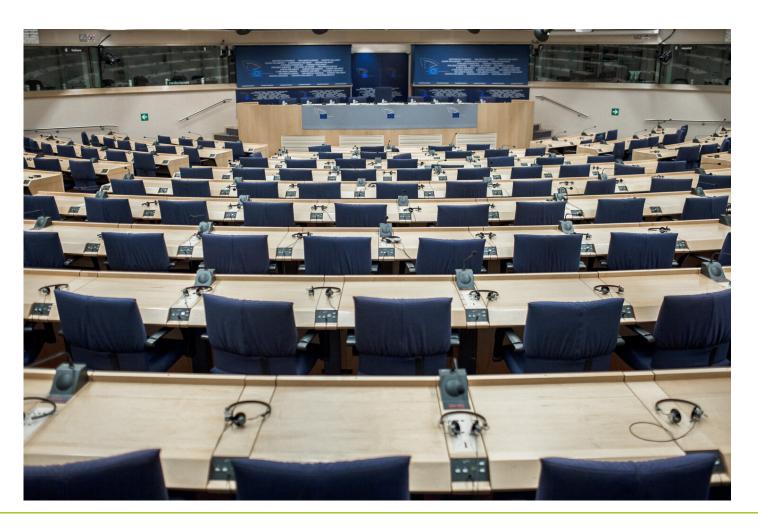
Truly additional renewable energy

We need a strategy for sustainable powerfuels imports





Upcoming EU and national regulation should be based on sound sustainability criteria for powerfuels



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