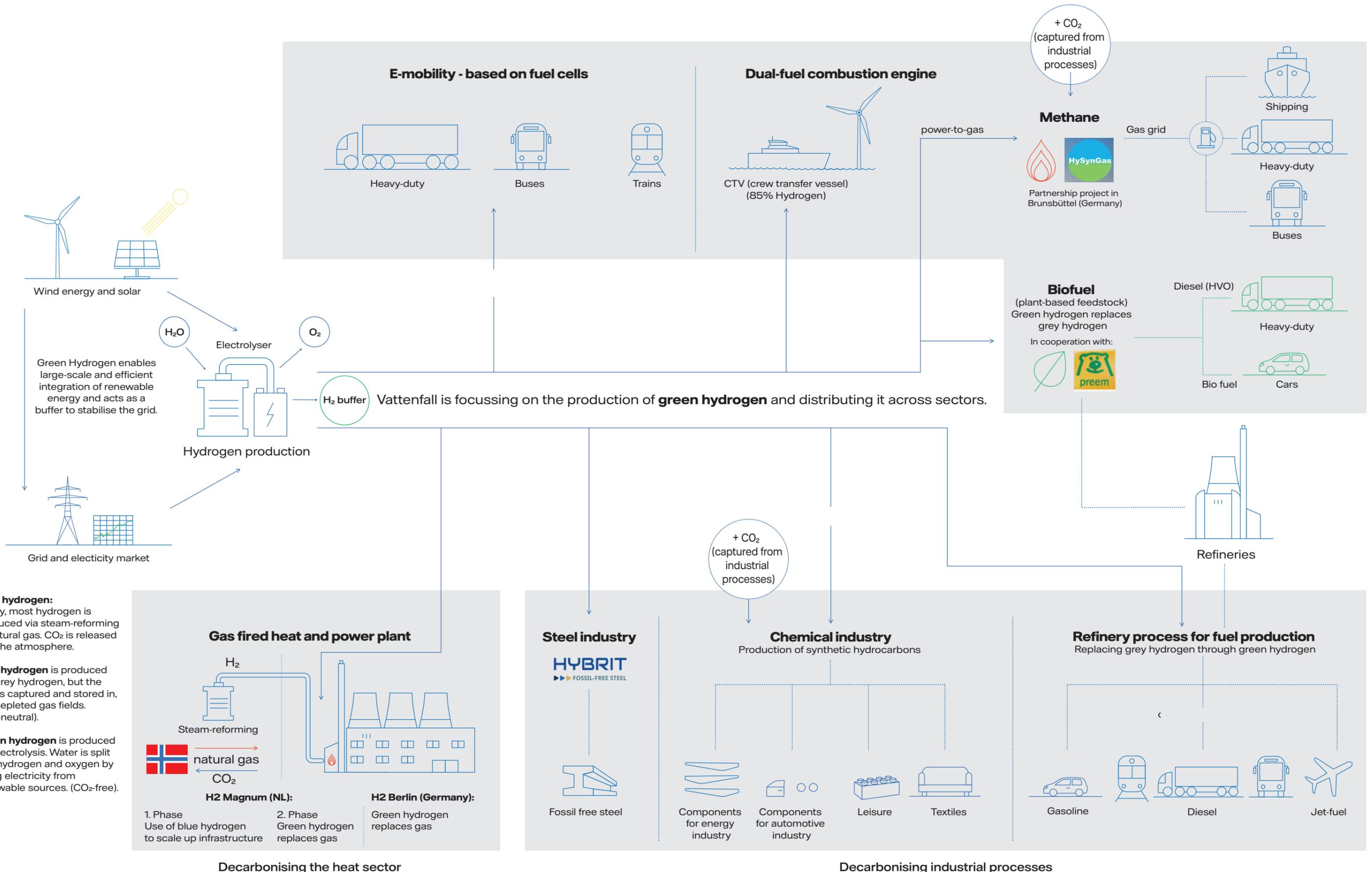


# Vattenfall's initiatives in Green Hydrogen

The EU Member States have committed to reaching an EU-wide 32% renewable energy share in final energy consumption by 2030. Green hydrogen can be used to decarbonise the heat, transport and various industry sectors. Vattenfall aims at enabling fossil free living within one generation and is committed to further develop the production of hydrogen from renewable sources with partners.



**Grey hydrogen:**  
Today, most hydrogen is produced via steam-reforming of natural gas. CO<sub>2</sub> is released into the atmosphere.

**Blue hydrogen** is produced like grey hydrogen, but the CO<sub>2</sub> is captured and stored in, e.g. depleted gas fields. (CO<sub>2</sub>-neutral).

**Green hydrogen** is produced via electrolysis. Water is split into hydrogen and oxygen by using electricity from renewable sources. (CO<sub>2</sub>-free).