Abstract

Nowadays, climate change is an important, global topic. Nations must urgently ensure that they will emit less CO_2 over the coming years. For example, there is already a lot of green energy produced at sea by wind turbines. However, it is not always possible for countries, such as Belgium, to profit from this in full. Just think of a sunny day with some wind. On these days there is an overproduction of electricity. Because wind turbines at sea are located far from land, it is rather quickly chosen not to use this electricity on the electricity grid, but rather to opt for solar panels on roofs on land. But to lose this energy would be a regrettable thing. Especially when you know that there are times when not enough green energy can be produced offshore energy. At sea, water is already present, which is required for the electrolysis process. The next step is to store the produced hydrogen. Storage solutions for short term and long term will be discussed. And then to end, what can be done with the hydrogen afterwards. Can the hydrogen in any form of storage also be used for other purposes or can it only be returned to electricity?