



REFHYNE

CLEAN REFINERY HYDROGEN FOR EUROPE



3rd December 2021



[#REFHYNE](https://twitter.com/REFHYNE)

2021 REFHYNE NEWSLETTER

Start Of Operation

On July 2nd 2021, the official launch event signalling the start of operations of the REFHYNE plant took place. After completing construction in April 2021, Shell had the green light to commence operation of the 10 MW electrolyser in [July](#).

The fully operational plant is the first in Europe to use this technology at the 10MW scale in a refinery, and will be able to produce up to 1,300 tonnes of green hydrogen each year.

However, 1,300 tonnes represents only 1% of the Rhineland refinery's annual demand and scale up of green hydrogen production capacity is vital to support the decarbonisation of Europe's industry.

REFHYNE 2 Launch

... In addition to commencing operations of the REFHYNE plant, Shell have announced plans to expand the capacity of the electrolyser from 10 MW to [100 MW](#).

With this expansion, the refinery will be able to produce sustainable aviation fuel using renewable power and biomass.

This announcement will help to put Shell one step closer to their goal of net-zero-emissions energy business by 2050.

REFLECTING ON REFHYNE

REFHYNE has recently been awarded the 'Best Outreach Award' by the FCH JU for the 2021 Hydrogen Week.



This award recognises and celebrates the public engagement of the project and is chosen by the FCH JU Programme Office.

Reflecting on this award and ITM's time working on this project overall, Dr John Newton comments:

"REFHYNE represents a first-of-a-kind for all the project partners and more significantly for the wider European hydrogen community. ITM has designed and built a modular and scalable 10MW electrolyser system, and together with Shell, have integrated the electrolyser into a purpose built facility in a working refinery. This has never been done in Europe previously. It hasn't been easy, but innovation never is. Working closely together, ITM and Shell have made this happen by combining their respective knowledge and experience to achieve an important first step in Europe's plans for a hydrogen-based future. I am immensely proud of everybody's dedication and hard work to achieve this important milestone; one project, one team"

Dr John Newton, ITM Power, REFHYNE Project Manager



Events

A recording of the recent REFHYNE Policy Report Launch Webinar, along with the report itself and the overview slides, can be found on [here](#) REFHYNE project website.

