

## **Refineries and Hydrogen**

## Oil and gas, refining and chemical sectors





Recent announcement regarding REFHYNE and Shell's Wesseling refinery in Germany

The Clean Refinery Hydrogen for Europe (REFHYNE) project has successfully concluded at Wesseling, Germany, to celebrate and learn from the development and operation of this 10MW PEM electrolyser.



This groundbreaking initiative was the largest operational PEM plant demonstrated the viability and potential of green hydrogen production in a refinery at an industrial scale. It is an opportunity to show prospective customers our electrolysers operating in an active refinery setting.

The achievement, which saw much of the work take place during the global pandemic, highlight the dedication of all partners involved



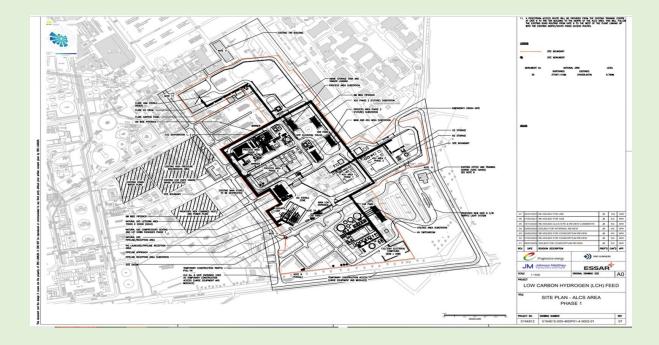
Shell, SINTEF, Sphera and ERM. Data gathered from REFHYNE proves ITM's market-leading stack performance and operational flexibility.



The electrolysers will continue to provide Shell's refinery with green hydrogen long into the future. The demonstration project has been supported with €10 million from the Clean Hydrogen Partnership

In my region, the North West, Steam Methane Reforming 'Blue' Hydrogen technologies are being incorporated into one of the UK's largest refineries at Stanlow.





Also in the public domain are development deep water ports in Holland Germany. These are based around refineries around Heide in Germany, Pernis, another Shell site in Holland, linking up to another crucial hub at Maasvlagte off Rotterdam.





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