



GREEN HYDROGEN DEVELOPMENT AT RAFFINERIE HEIDE MOVES ONE STEP CLOSER

€194 MILLION BUDGETED FOR HYSSCALE100

Hemmingstedt, 07th April 2022 – Raffinerie Heide GmbH welcomes the €194 million that has been budgeted by the State Government of Schleswig-Holstein for the HySCALE100 green hydrogen project, as confirmed in the State Government's 2023 Budget published this week.

HySCALE100 will see Raffinerie Heide working in partnership with EDF-HyNamics, Holcim and Ørsted to develop large-scale green hydrogen production, for the purposes of decarbonising the petrochemical and cement industries. Budgeting by the State Government of Schleswig-Holstein signals real confidence that this project has the potential to be approved as part of the European Union's 'Important Projects of Common European Interest' (IPCEI) initiative.

Jürgen Wollschläger, CEO, Raffinerie Heide said:

“We welcome the State Government’s budgeting for HySCALE100 and share in the belief that this project offers a valuable opportunity to secure our future energy supply and decarbonise – this of course coming at a crucial time for both Germany and Europe.

“With governments across the continent refocussing the need to think more strategically about both energy security and the transition to a low carbon economy, it is only right that we get fully behind the development of green hydrogen now”.

HySCALE100 envisions the integration of wind-powered hydrogen production, with CO₂ captured to produce a broad range of clean petrochemical products:

- CO₂ captured from both Holcim's Lägerdorf cement factory and Raffinerie Heide will be synthesised with green hydrogen – via electrolysis at the refinery – to create green methanol;
- Clean e-methanol will be placed on the market as a green fuel, as well being fed into a methanol-to-olefin plant located at the refinery – this plant will produce green propylene and ethylene, from which a range of petrochemical based products are derived;
- Should HySCALE100 be approved for further development, work will be undertaken to construct electrolyser capacity at Raffinerie Heide, totalling 500MW. This is likely to be scheduled for operation by 2026 and would involve CO₂ from the refinery being captured and synthesised with the green hydrogen produced;
- Post-2026, the vision is for electrolyser capacity to be scaled up to 2.1GW, with CO₂ from both the refinery and the cement factory captured and synthesised with the green hydrogen produced.

END



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About Raffinerie Heide:

Raffinerie Heide GmbH, based in Dithmarschen, Schleswig-Holstein, is Germany's northernmost crude oil processor. The company has an annual processing capacity of 4.5 million tonnes of crude oil, equal to the oil demands of the entire state of Schleswig-Holstein. The refinery with a medium-sized ethos, which was founded in 2010, produces traditional petroleum products such as petrol, diesel and aviation fuel. It also produces light heating oil and base materials for the chemicals industry. Raffinerie Heide, which is one of the most complex refineries in Europe, is among the best in the continent in terms of utilisation and availability thanks to its strict standards of care in relation to maintenance.

With sites in Hemmingstedt and Brunsbüttel, the company is also working hard to prepare for a new, greener future. Raffinerie Heide is striving to actively help shape the energy transition in Germany, focusing on the use of alternative raw materials and renewables. Raffinerie Heide is working with other partners on the use of renewable electricity and the production of green hydrogen by means of electrolysis.

Read more about the refinery of the future: <https://www.future-heiderefinery.com/en/>