

Press release:**Everfuel plans 300MW HySynergy Phase II electrolyser in Fredericia**

Fredericia, Denmark, 11 May 2021 – Everfuel A/S is pleased to announce the plans of the HySynergy Phase II development of a 300MW electrolyser and Power-to-X (PtX) facility adjacent to the Fredericia refinery. The HySynergy Phase II involves a significant scale-up in the production of green hydrogen, planned for a complementary use in both zero-emission hydrogen mobility and as green feedstock to various fuel refining processes. Upon its realization, the combined facility will have the capacity to lower the Danish land-based transport sector related carbon dioxide (CO₂) emissions by nearly 5% already by 2025, directly contributing to the Danish government objective of reducing CO₂ emissions by 70% by 2030.

Approximately 20% of the green hydrogen produced at the facility will be dedicated to direct usage as pure hydrogen for zero emission mobility, while 80% will be used as a feedstock for the fuel refining processes. The new facility will enable a 214,000-ton reduction of annual CO₂ emissions from the industry and mobility sectors, equal to approximately 4.7% of the total CO₂ emissions from the Danish land-based transport sector¹. The new facility can also provide oxygen for on-site carbon capture by an oxyfuel process and a 25% reduction of the Fredericia refinery emissions by using the green hydrogen for production of gasoline, diesel, DME and M85 with a lower carbon footprint. Thus, the second phase of HySynergy may also include production of methanol.

“This is a truly unique project and a global showcase of cross sectoral PtX synergies, furthermore, posing a significant CO₂ emissions reduction potential on both near- and long term. Adding to the substantial here-and-now CO₂ reduction potential from the planned 80/20 capacity distribution between refining and direct use in mobility, a gradual increase in hydrogen capacity used directly for land-based transportation may further increase the CO₂ reduction up to an annual 450,000 ton, equal to the CO₂ displacement from 500,000 electric cars². Put in another perspective, this is equivalent to a ~10% reduction of the total land-based transport emissions in Denmark. We are eager to proceed with the HySynergy Phase II project and continue bringing Fredericia and the Danish Triangle Region forward as a European hub for PtX and green fuels”, says Jacob Krogsgaard, founder and CEO of Everfuel.

Everfuel has commenced further dialogue with public and private stakeholders and has applied for project funding under the Important Projects of Common European Interest (IPCEI) scheme for development of large-scale hydrogen projects. The target is to bring the HySynergy Phase II to a final investment decision (FID), subject to regulatory approvals and funding, by late 2022, with commissioning in late 2024. The expected project budget is up to DKK 1,9 billion, equivalent to EUR 250 million.

The company is currently developing the HySynergy Phase I 20MW electrolyser next to the Fredericia refinery. The final regulatory approval is expected to be completed before summer 2021, with start of construction planned for third quarter. The HySynergy Phase I and II are part of Everfuel’s announced plan to invest EUR 1.5 billion in developing the green hydrogen value chain in Europe and reach EUR 1 billion of annual revenue from sale of hydrogen before 2030.

“Fredericia is an energy metropolis of Denmark. With that position comes the responsibility to contribute to Denmark’s green transition, in which we see a great potential in the development of green fuels. The HySynergy project, led by Everfuel, is a good example of how we can contribute to reducing CO₂ emissions in Denmark and help achieve the nationwide goal of 70% CO₂ reduction by 2030, whilst at the same time realizing the objectives set out in the City Council’s climate plan. Now the planning is underway, so that the framework can be put in place. I look forward to following the project”, says Steen Wrist, Mayor of Fredericia.

For additional information, please contact

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Key points & references

- 300MW Electrolyser plant & PtX facility
- 20% of capacity planned for direct use in zero emission mobility
- 80% of capacity planned as green feedstock to fuel refining processes
- Electricity sourced from wind and solar, contributor to grid balancing
- Oxygen to be used for carbon capture process
- Integrated heat recovery, exportable to TVIS district heating network
- Initial CO₂ emission reduction potential from mobility and industry sector by 214,000 ton of CO₂ per year
- Scheduled to be in operation by 2025
- Land-based transport sector in Denmark includes: All trucks, vans, trains, and buses

- 1) Reference: Klimapartnerskabsrapport – landtransport 2020
https://www.trm.dk/media/4864/klimapartnerskabsrapport-landtransport-rapport_final-a.pdf
- 2) Upper potential CO₂ displacement exemplified as relative to 500,000 electric cars driving 9,000km/year, displacing 500,000 gasoline cars with equivalent driving and average 100 gCO₂/km = 450,000 tons CO₂

About Everfuel | www.everfuel.com

Everfuel is making green hydrogen for zero emission mobility commercially available across Europe, offering competitive all-inclusive hydrogen supply- and fueling solutions. We own and operate green hydrogen infrastructure and partner with vehicle OEMs to connect the entire hydrogen value chain and seamlessly provide hydrogen fuel to enterprise customers under long-term contracts. Green hydrogen is a 100% clean fuel made from renewable energy and key to electrification of the transportation sector in Europe and a sustainable future. We are a young ambitious company, headquartered in Herning, Denmark, and with activities in Norway, Denmark, Sweden, The Netherlands, Germany and Belgium, and a plan to grow across Europe. Everfuel is listed on Euronext Growth in Oslo under EFUEL.