Everfuel's HySynergy Plant Becomes the World's First Facility to Stabilize the Power Grid While Producing Green Hydrogen

Herning, Denmark, 22 December 2025 – Everfuel is writing global energy history. For the first time worldwide, Everfuel is using a large-scale electrolyser plant, HySynergy, to provide balancing services to the power grid while simultaneously producing certified green hydrogen (RFNBO)[1]. This milestone demonstrates how green hydrogen production can actively support the electricity system and create a flexible, sustainable energy supply for the benefit of Danish society.

With the HySynergy facility in Fredericia, Everfuel shows that electrolysis is not only a technology for producing green hydrogen—it is also an active tool for stabilising the grid. Everfuel, Energinet and Centrica have long collaborated to integrate HySynergy as balancing capacity in the electricity system, making it the first PtX plant in Denmark to do so. Today, this vision has become a reality. This achievement paves the way for electrolysis plants such as HySynergy to participate in Energinet's balancing services going forward.

"Today, we have accomplished something that Denmark has discussed for years. We have proven that green hydrogen production can be fully integrated into the energy system—not only as a molecule, but as an active balancing instrument. This is a crucial step toward realising Denmark's and Europe's green ambitions and creating a robust, climate-friendly energy infrastructure. As the first in the world, Everfuel can now contribute to grid balancing while producing certified green hydrogen. It is a milestone in Danish and global energy history—one that Everfuel, Energinet, Centrica, and all our partners can be proud of," says Jacob Krogsgaard, CEO and Founder of Everfuel

"One of the biggest challenges in the green transition is maintaining constant balance in the power grid as we integrate increasing amounts of renewable electricity from solar and wind. We already have many different actors in the balancing market that can adjust their consumption—power plants, heat pumps, batteries, electric vehicles, greenhouses, and even an ice rink. And now, for the first time in the world, we also have a Power-to-X facility. This is a historic milestone showing the right direction, and at Energinet we share the excitement and pride in the project," says Kim Willerslev Jakobsen, Director of System Responsibility, Energinet

"This milestone demonstrates what can be achieved through innovation and collaboration. By integrating green hydrogen production with aFRR balancing, we are delivering a solution that both supports the green transition and contributes to a more sustainable energy market. We are proud to be part of this development together with Everfuel," says Kristian Gjerløv-Juel, VP Renewable Energy Trading & Optimisation, Centrica Energy

Facts:

Characteristics of aFRR Balancing in the Power Grid

- Automatic up- and down-regulation via signals from Energinet without manual intervention
- Up-regulation: When there is a deficit in electricity production, the HySynergy facility can support the grid by reducing its own consumption — i.e., reducing or stopping hydrogen production
- Down-regulation: When there is a surplus of electricity, the facility can relieve the grid by starting or increasing hydrogen production
- Short response time, with balancing capacity required to be fully activated within 5 minutes
- Enables the handling of fluctuating renewable energy production through flexible electricity consumers and producers

With increasing amounts of wind and solar energy, balancing and flexibility in the energy system become crucial to ensuring a stable and robust electricity grid. Hydrogen production and Power-to-X make it possible to convert renewable electricity into green hydrogen so that excess energy is not wasted in periods of overproduction, while also enabling flexible offtake profiles that can free up capacity in the power grid when needed.

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[1]Renewable Fuels of Non-Biological Origin

About Everfuel | www.everfuel.com

Everfuel owns and operates green hydrogen infrastructure and partners with industrial customers to connect the hydrogen value chain, supplying hydrogen to both industry and mobility applications. Our strategy focuses on developing large-scale hydrogen production capacity in Denmark to deliver green hydrogen to a fast-growing European market, initially with a focus on Germany. Green hydrogen—produced from renewable solar and wind power—is a 100% clean energy carrier and a key enabler for decarbonising industry and transport in Europe. Everfuel is an ambitious company headquartered in Herning, Denmark, with activities in Denmark, Germany, and the Netherlands. The company is owned by founding investor E.F. Holding, Swiss Life Asset Managers, Hy24, and HyVC (a joint venture between ITOCHU Corporation and Osaka Gas Co., Ltd.), representing strong industrial, financial, and commercial expertise committed to Everfuel's mission of a sustainable future.