



# Leading the way for scalable eFuel production

**Liquid Wind is a leading eFuel facility developer dedicated to decarbonizing hard-to-abate sectors by accelerating the transition to fossil-free fuels.**

Our vision is a world without dependency on fossil fuel. By converting green hydrogen and biogenic CO<sub>2</sub> into eFuel, we offer hard-to-abate sectors like global shipping the opportunity to accelerate their transition to sustainable fuels.

Our standardized approach, modular solutions and digital platform allow us to efficiently scale and replicate projects. By gradually implementing cost and time reducing technologies, we streamline processes, enhance operational efficiency, and ensure the successful deployment of eFuels – with special focus on eMethanol.

Liquid Wind has a solid pipeline of facility projects in development with the goal of reaching 10 projects by 2027. Headquartered in Gothenburg, Sweden and present in Denmark, Finland and the UK, we are backed by a strong group of investors, including Alfa Laval, Carbon Clean, Elyse Energy, HYCAP, Samsung Venture Investment, Siemens Energy, Topsoe and Uniper.

## What we do



### Develop

Optimum locations are sourced with biogenic CO<sub>2</sub>, power and appropriate permits.



### Finance

Facilities are designed to attract investors, providing a bankable structure and revenue stream based on long-term supplier and buyer agreements.



### Build

With our expert EPC partners, we efficiently manage every aspect of engineering, procurement and construction.



### Manage

Our 'Digital Twin' enables detailed monitoring and management of daily operations to optimise efficiency.

## eFuel Design & Performance Centre

For eFuels to become a competitive alternative to fossil fuels, we need scalable, standardized, and optimized production facilities.

That's why, together with Alfa Laval, Carbon Clean, Siemens Energy and Topsoe, we have established the eFuel Design & Performance Centre, which will allow us to leverage each partners' technology and expertise, to deliver cost-effective, ready-to-build facilities that are faster to fabricate, transport, construct and commission.



## eFuels and Energy Security

By enabling domestic eFuel production, Liquid Wind facilitates the transition from imported fossil fuels to locally produced sustainable eFuels.

This shift reduces reliance on external energy sources and decreases vulnerability to international energy price fluctuations and potential supply chain disruptions, thereby strengthening overall energy and fuel security.



## eMethanol production process

### Electrolysis

Renewable electricity, splits water into green hydrogen and oxygen.



### Carbon capture

Biogenic carbon dioxide is captured from industrial flue gases.



Watch our eMethanol production process video here!



### Methanol synthesis

Green hydrogen and biogenic carbon dioxide are combined to form eMethanol.



### Storage

The final product is sent to storage, ready for use.

## eMethanol advantages and opportunities



### Sustainable

Produced from renewable resources such as captured carbon dioxide and green hydrogen.



### Liquid

Liquid at ambient temperature and pressure making it easy to store, transport, and distribute using existing infrastructure.



### Scalable

Can be produced at scale to meet the increasing demand for fossil-free fuel alternatives, supporting the transition to a low-carbon economy.



### Traceable

The production of eMethanol allows for a transparent supply chain, ensuring that its renewable inputs can be traced back to sustainable sources.



### Low Emissions

Contributes significantly to reducing greenhouse gas emissions by cutting CO<sub>2</sub> emissions by up to 95% compared to fossil fuels.



### Mixable

Easy to blend with conventional fuels, facilitating its integration into existing fuel systems without requiring significant modifications.



### Low Hazard

Low hazard profile compared to many traditional fuels, making it safer to handle and use, minimizing risks associated with fuel storage and transportation.



### Long-Distance

eMethanol's liquid state and high energy density make it ideal for long-distance transport, allowing efficient shipping and storage while reducing reliance on fossil fuels.

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