**EXPERT SESSION** 

# From test to GW scale

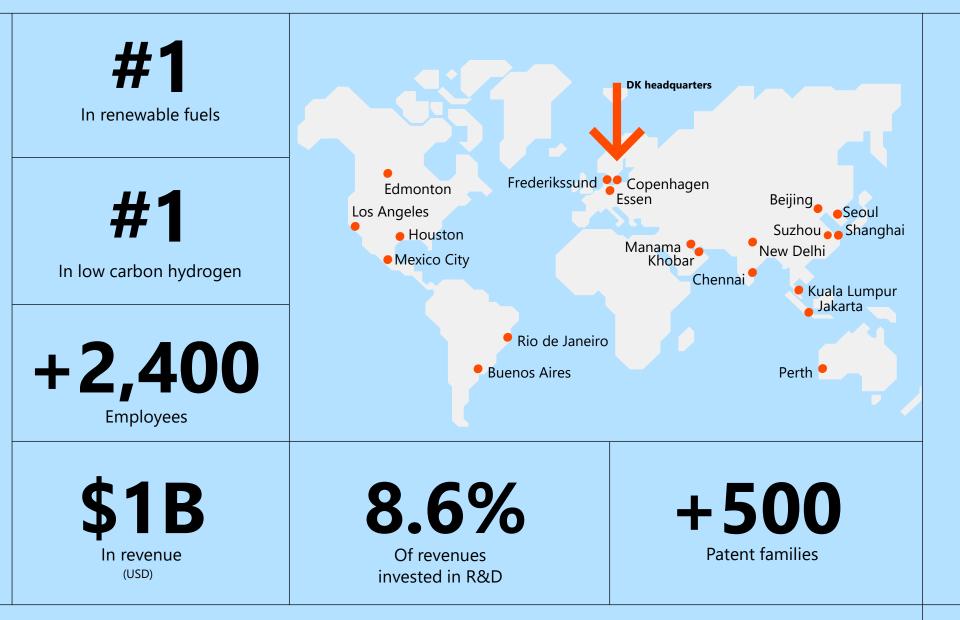
By Libbe Skovgaard-Petersen, Head of Commercial Management, Topsoe, Power-to-X

## **TOPSOE AT A GLANCE: OVER 80 YEARS OF INNOVATION AND LEADERSHIP**

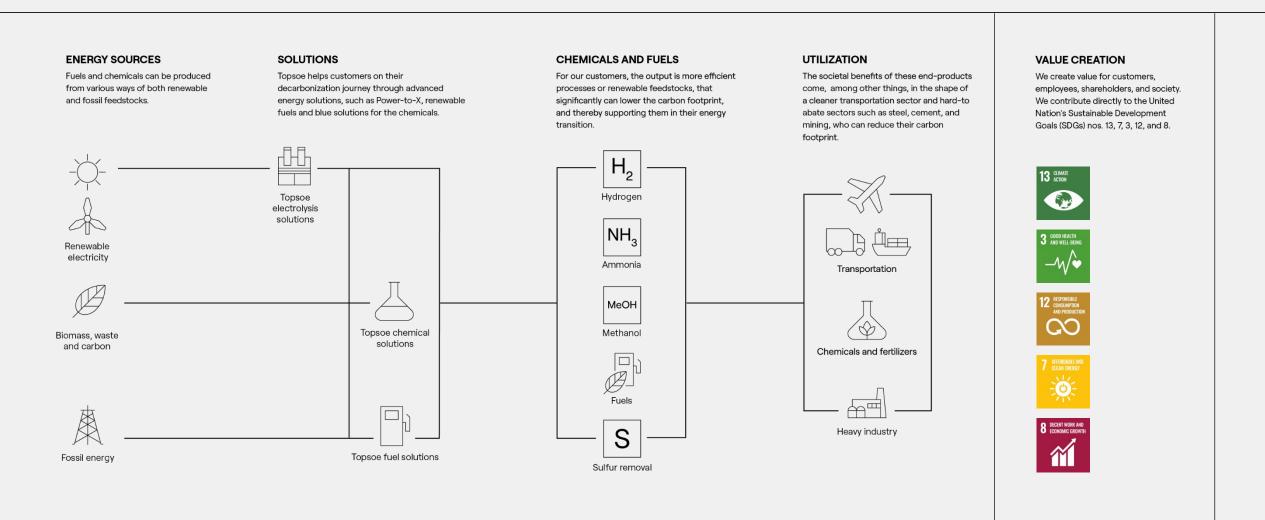
For more than 80 years, we have been guided by our purpose, 'Perfecting chemistry for a better world'. We work to deliver solutions that will leave the world in better shape for future generations.

Today, it is our ambition to lead the global transition of hard-to-abate sectors to a net zero future.

Thanks to decades of exceptional R&D, Topsoe is in a **unique position** to accelerate the transition to sustainable technologies.



## **OUR EXPERTISE AND TECHNOLOGIES POWER A SUSTAINABLE FUTURE**



## THE DEVELOPMENT PATH OF TOPSOE'S SOEC TECHNOLOGY

#### 80s Solid Oxide Fuel Cell (SOFC) developed

- SOFC cell and stack can also be used as SOEC
- Electrolysis of both water and CO2

### 2015 Focus shifts to SOEC

- Demonstration and industrial SOEC units since 2015
- Continuous optimization & innovation
- Market leading efficiencies

#### **2022** Worlds largest SOEC stack manufacturing facility

- Construction started in 2022
- Stack production expected to begin in Q1 2025
- Initial manufacturing capacity of 500 MW annual capacity with ability to expand to 5 GW

