

Ørsted

Ørsted's Power-to-X business

VoltaChem Annual Event
13 April 2023

Mareike Beckers

Ørsted's business areas



Offshore

- Global leader in offshore wind
- Develop, construct, own and operate offshore wind farms

Onshore, solar PV & storage

- Building a leadership position in onshore renewables
- Energy storage solutions and solar

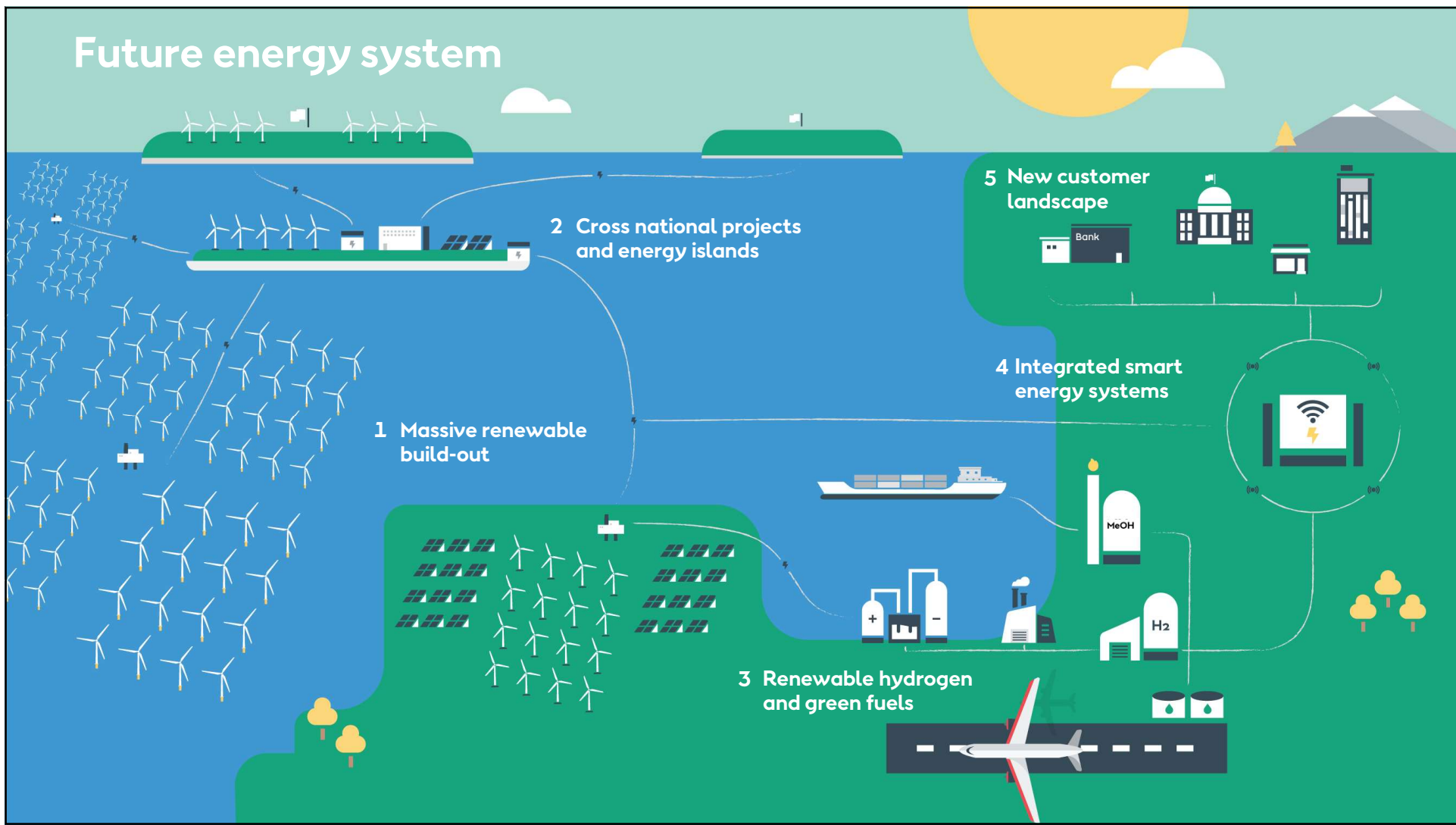
Bioenergy & other

- Presence in Europe, including bioenergy plants, legacy gas activities and patented waste-to-energy technology

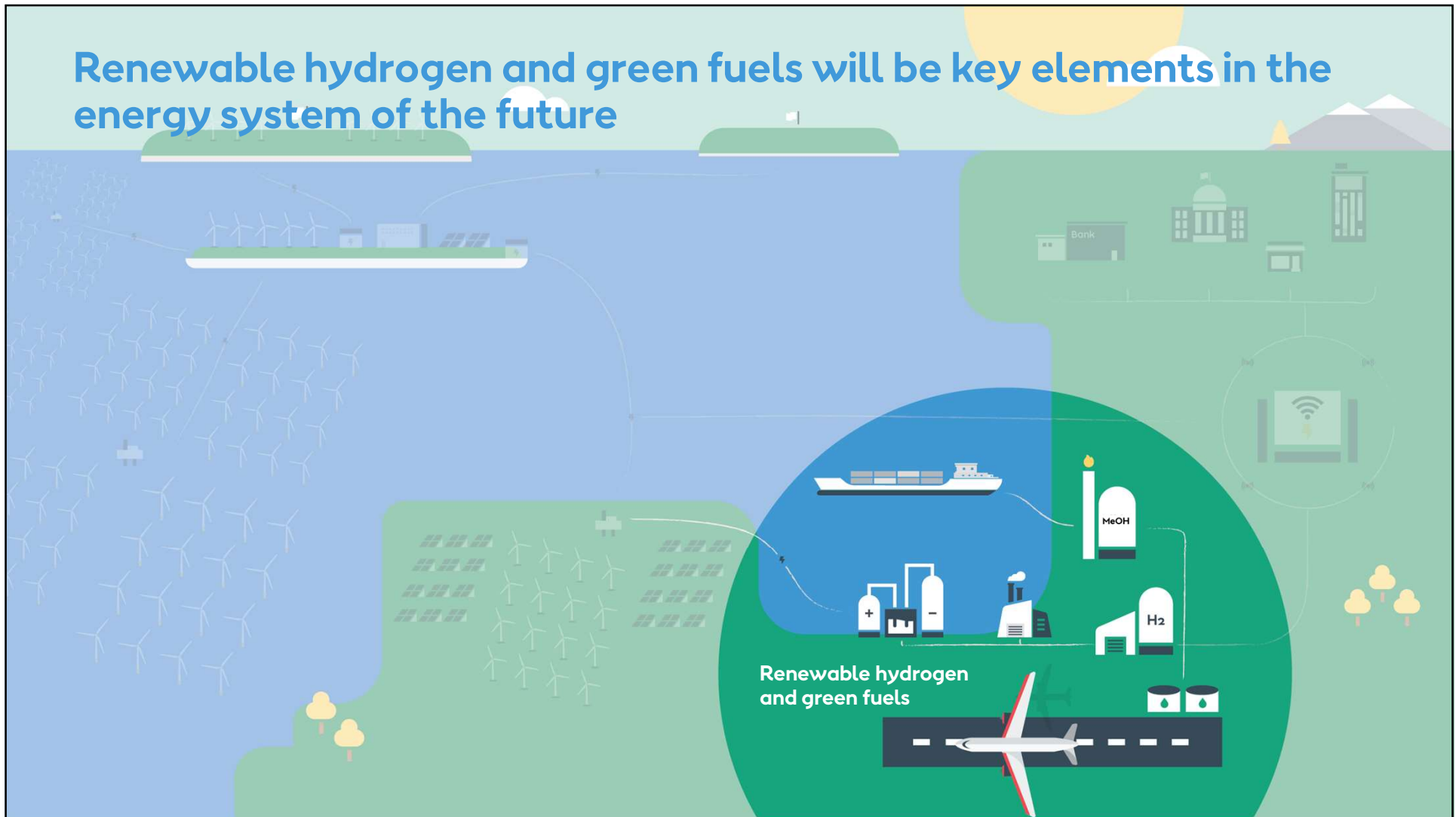
Renewable hydrogen and green fuels

- Emerging platform with 10 pipeline projects (+3 GW)
- Ambition to become a global leader in renewable hydrogen and green fuels by 2030

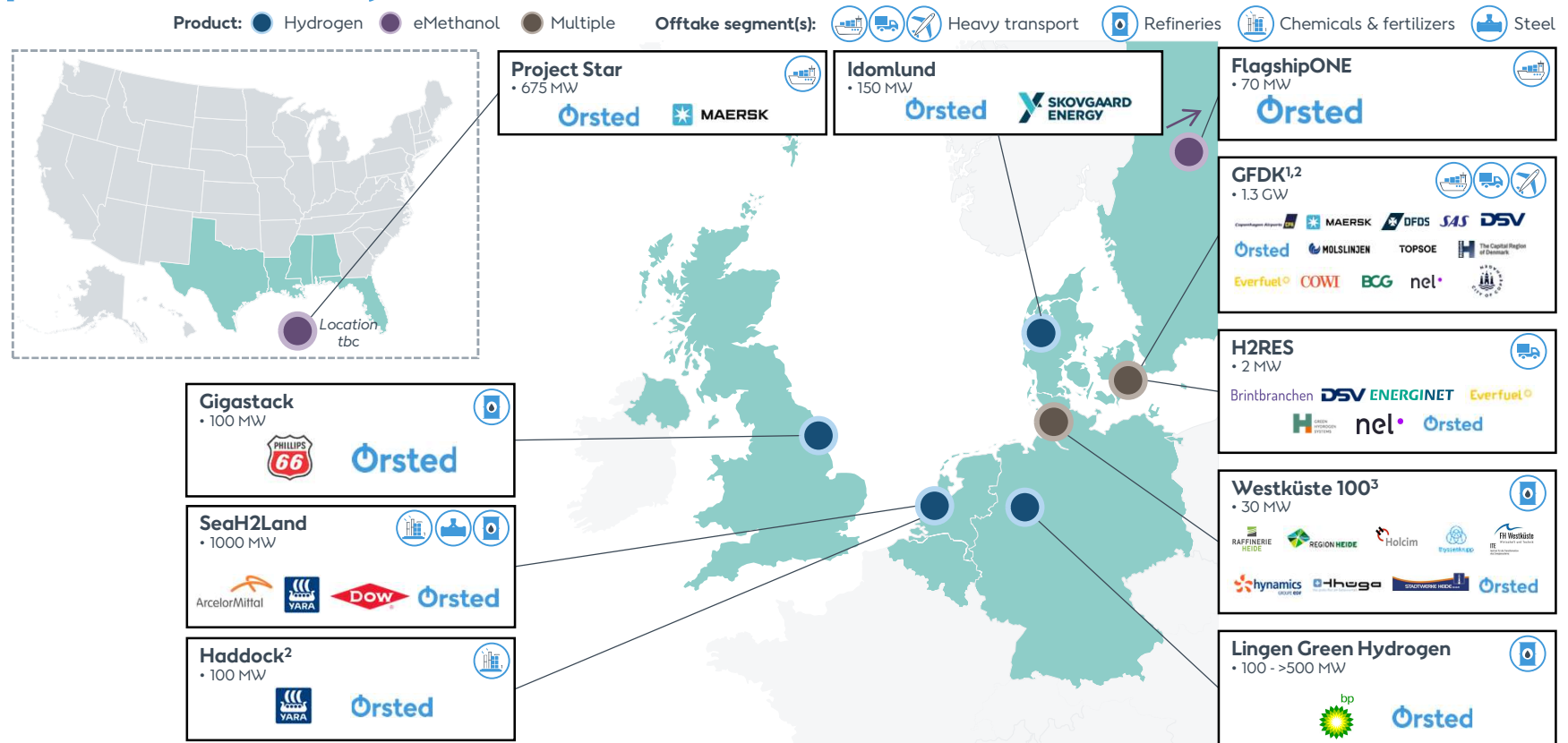
Future energy system



Renewable hydrogen and green fuels will be key elements in the energy system of the future



We have a diverse range of global projects involving many partners and key stakeholders



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1. Green Fuels for Denmark (GFDK)
2. Project has received IPCEI status
3. Project has received Reallabor status

Orsted

FlagshipONE Overview

Europe's largest FID'ed green e-methanol facility and first Ørsted e-fuels project

FlagshipONE is located in Sweden at a site with access to the grid and low renewable energy power prices, a biogenic carbon source & infrastructure to enable offtake



Location

- Location enables **cost efficient power sourcing** which is competitive with other European sources
- **Site specific benefits** underpin reduced CAPEX and facilitate operation



Partners

- Facility 'hosted' by **local** municipality-owned Övik Energi
- **Ørsted is EPC lead with a group of Tier 1 suppliers** including Siemens Energy, Carbon Clean and Topsøe. These suppliers worked with Liquid Wind who developed the project until Ørsted entered at the end of 2021



Delivery

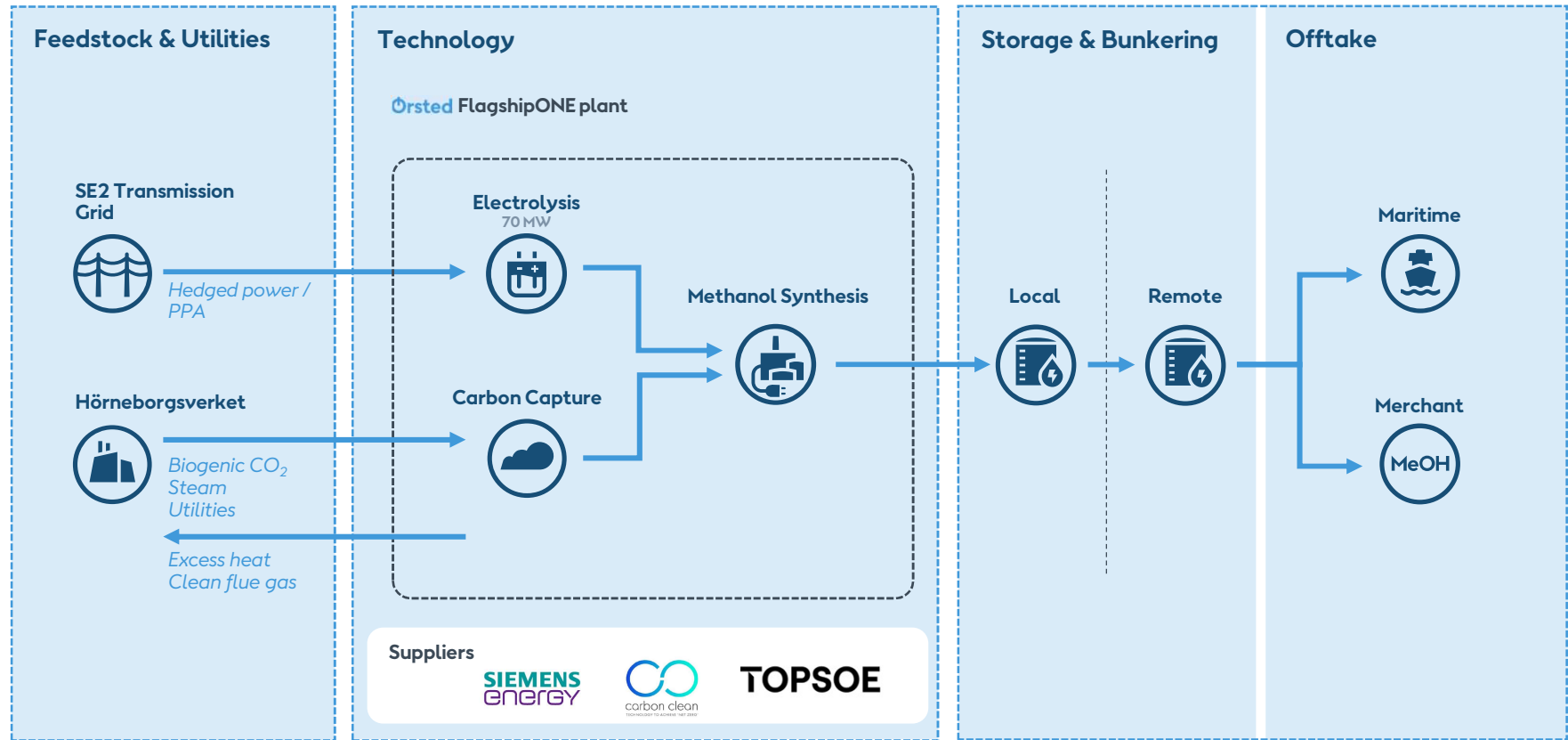
- Ørsted will act as **integrator** of technology packages
- The different elements of eMeOH production are relatively mature **technologies** and Ørsted has secured some of the largest available packages



Timing

- With expected COD in 2025, FS1 will be a **first-mover project** ready to address the anticipated ramp-up in eMeOH demand

FS1 Value Chain Map



Q&A