PtX in Denmark: Partnerships & opportunities

Invest in Denmark Conference, Copenhagen

2030 aspiration: Become the world's leading green energy major

Become the world's leading green energy major





One of the world's largest green electricity producers

Global no. 1 in offshore



Global top 10 in onshore **本**国 # A global leader in renewable H₂ & green fuels



- One of the world's largest and most value creating **deployers of capital** into the green transformation
- The world's **leading talent platform** in renewable energy
- A globally recognised sustainability leader
 - A core contributor and catalyst for change towards a world running entirely on green energy

Ørsted has a strong starting point



Extensive experience in scaling up new technologies

- Proven track record of scaling new renewable technologies
- Vast experience in working with decision-makers to shape regulatory conditions for adoption and scale-up



Synergies with global renewable generation portfolio

- Global renewable portfolio with large potential for synergies with renewable hydrogen and green fuels business
- Proximity of generation assets to large renewable hydrogen and green fuels offtakers e.g., industrial clusters in Europe



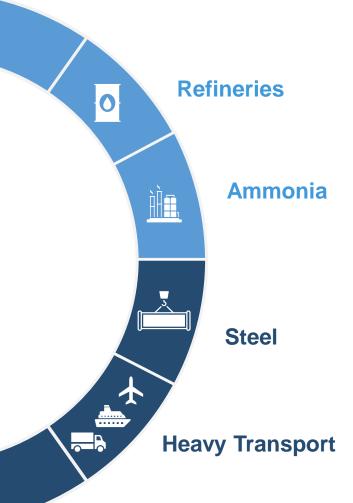
Proven partnership approach

- Proven ability to work with partners across the renewable hydrogen and green fuels value chain
- Attractive and credible partner for companies seeking to embark on a decarbonisation journey
- Established partnerships with key offtakers in target sectors

Clear offtake focus and strategic approach

Fossil H₂ substitution New ren. H₂ application

Focus offtake sectors

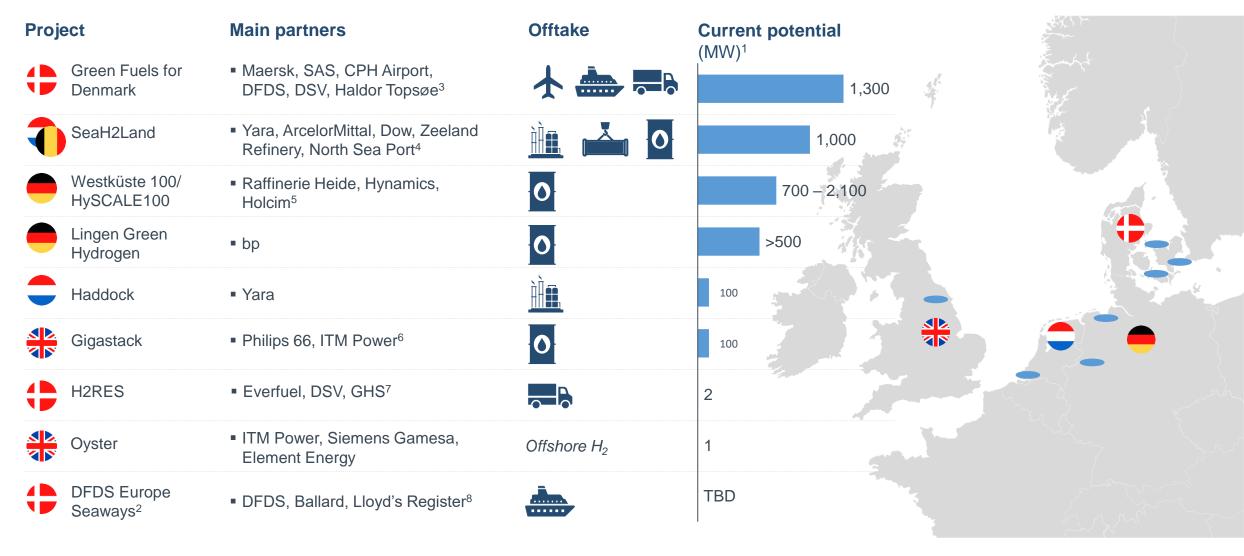


Strategic approach – building on strong Ørsted starting point

- Establish and mature concrete projects in focus sectors and work with global offtake partners on identifying scale-up opportunities and expanding pipeline
- Adopt a phased approach to project scale-up to quickly realise early phases and gain valuable experience for scale-up
- Engage in transparent dialogues with regulators on enabling decarbonisation of hard-to-abate sectors via renewable hydrogen and green fuels
- Develop funding plans for each project outlining target funding pools and path to commercial viability
- Work closely with OEMs on progressing technology improvements and costout
- Lean forward into selected value chains to drive deep decarbonisation



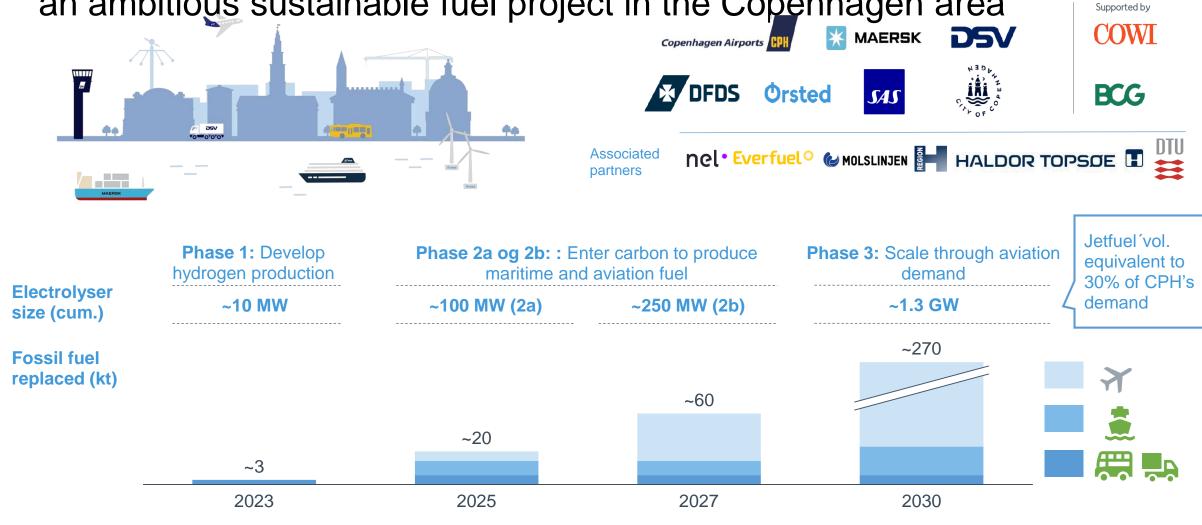
Strong concrete project pipeline across sectors and markets



^{1.} Intended as full electrolyser capacity currently identified 2. DFDS is project lead, Ørsted project partner 3. Includes COWI and BCG (knowledge partners) 4. Other partners include Smart Delta Resources, Province of Zeeland, Province of Oost-Vlaanderen 5. Other partners include EDF Germany, OGE, Stadtwerke Heide, Thyssenkrupp Industrial Solutions, Heide region development agency, Westküste University of Applied Sciences 6. Partnership also includes Element Energy 7. Other partners include Green Hydrogen Systems, NEL Hydrogen, Hydrogen Denmark Energinet Elsystemansvar 8. Other partners include ABB, Hexagon Porus, KNUD E. HANSEN, Danish Ship Finance



Green Fuels for Denmark | Leading Danish companies join forces on an ambitious sustainable fuel project in the Copenhagen area



In NW Europe offshore wind electricity generation is well suited for electrolysis

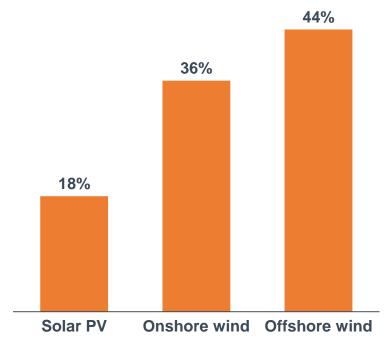
Scale

Offshore wind capacity of >25GW now installed in Europe



Capacity factor

Highest capacity factor of variable renewable generation¹



Resource availability

450GW realizable OFW potential identified in Europe²



Sources: IRENA Renewable Power Generation Costs in 2019; 1. 2019 average global capacity factors 2. Potential towards 2050 identified by the interest organisation Wind Europe. European Commission expect 230-450GW (depending on scenario) offshore wind in 2050