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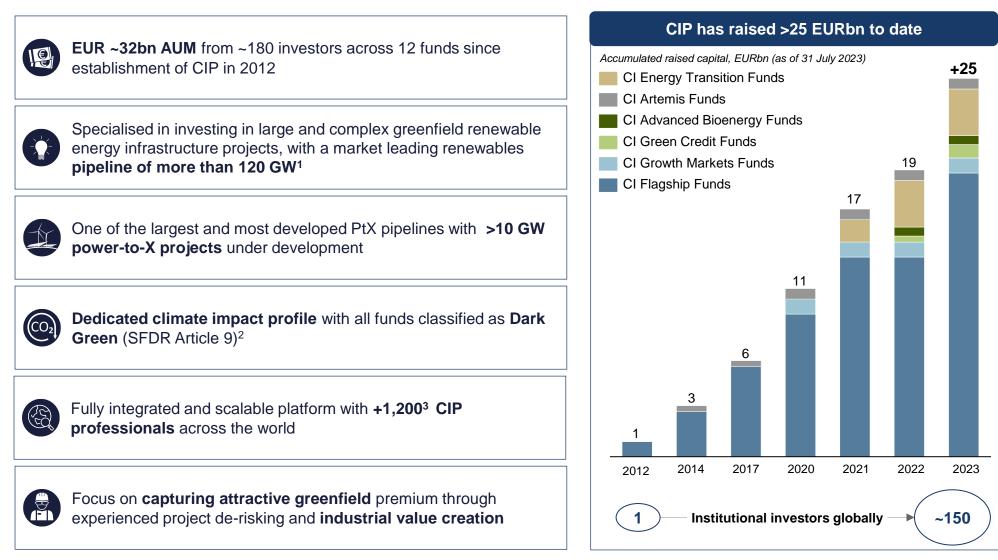
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4.	Development of H2 projects	20

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Introduction to Copenhagen Infrastructure Partners ("CIP")

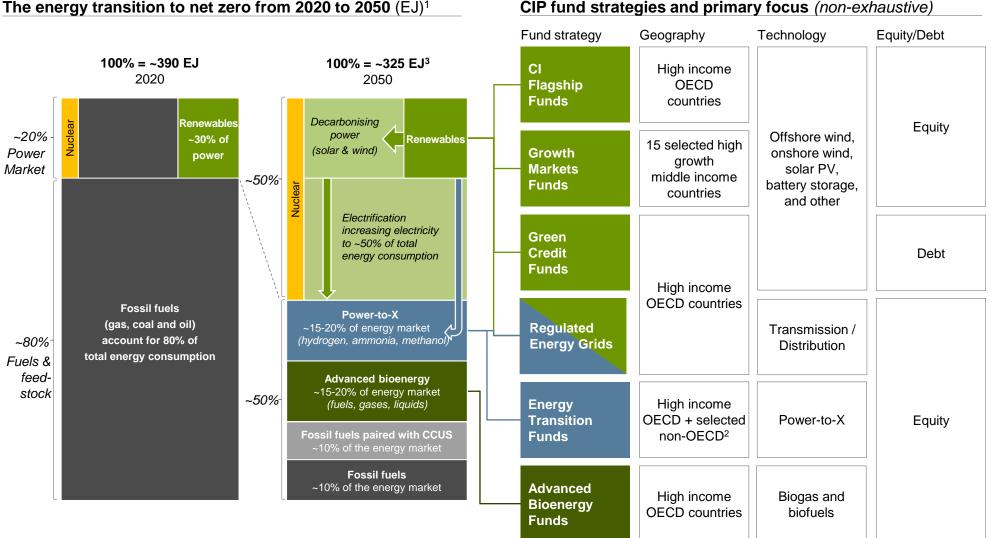
Aiming for EUR 100 billion in renewable energy investments by 2030





Notes: 1) Including projects where CIP has established entity or partnership. Capacity is gross including partnership share (where CIP is not 100% owner). Does not include CI ABF I pipeline of greenfield advanced bioenergy projects; 3) All CI Funds marketed after 10 March 2021 (CI IV, CI ETF I, CI GCF I, CI ABF I) 3) Including CISC, COP, and employees related to CI Fund projects

CIP manages six distinct fund strategies which contribute to the energy transition



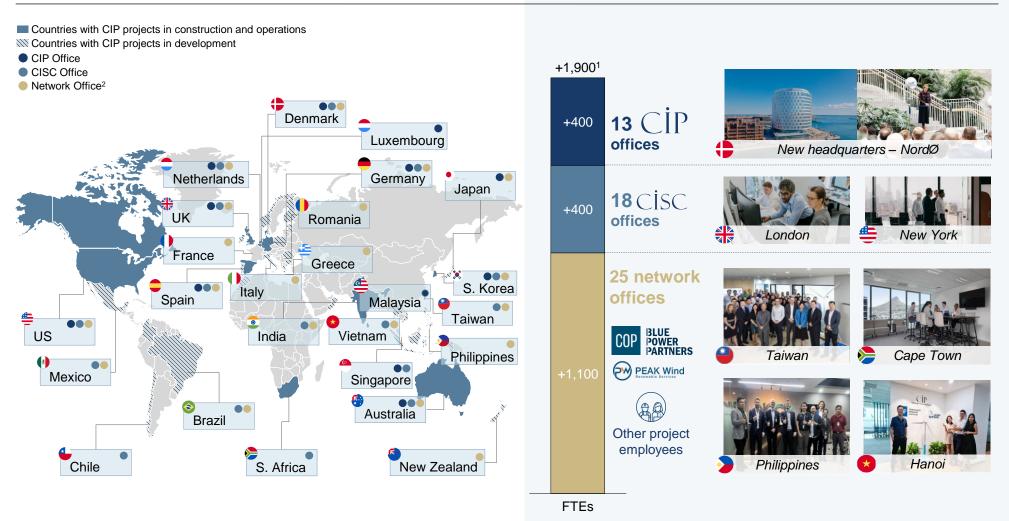
CIP fund strategies and primary focus (non-exhaustive)

Important information: There is no guarantee that the Fund will successfully execute its strategies.

Notes: 1) CIP's illustration of the energy transition based on IEA Net Zero by 2050 published in 2021; 2) ETF primarily engages in projects in OECD, but also have a minority of projects in non-OECD countries (max 20%); 3) Reduction in energy consumption driven by efficiency measures and behavioral change.

CIP platform has +1,900 people across offices in all key markets

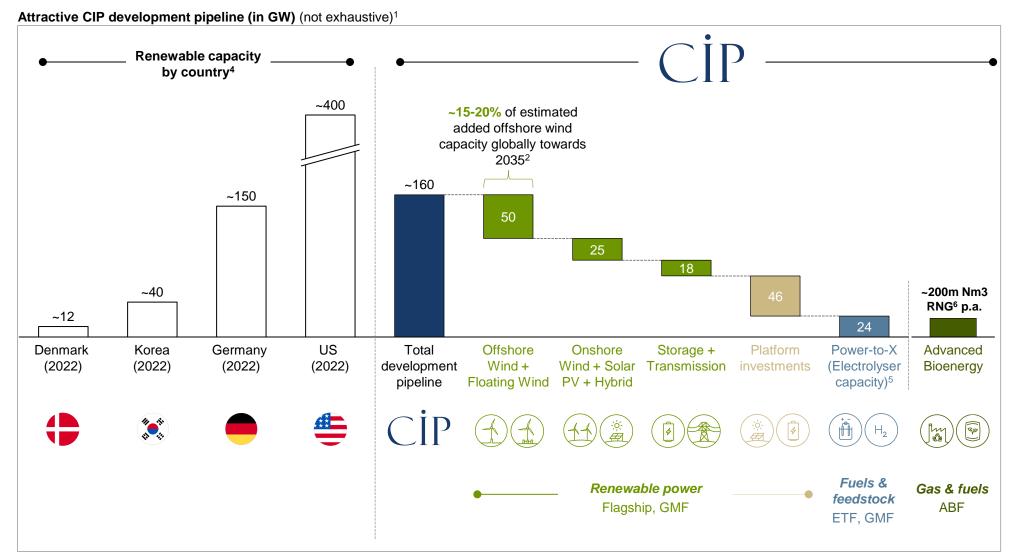
Overview of global CIP, CISC and project offices



Important information: As of June, 2024. Loss of key staff members and industrial specialist partners could have an adverse effect on the Fund. Please see the Important Information and Legal Disclaimers for additional important information. The inclusion of any third-party firm and/or company ames, brands and/or logos does not imply any affiliation with these firms or companies. None of these firms or companies have endorsed CIP, a Fund or any associated entities or personnel. Notes: 1) As of June 2024 for CIP and CISC FTE. As of January 2024 for Project FTEs; 2) Offices for COP, Blue Power Partners and/or PEAK Wind.

CIP

We are developing a large and diversified renewables pipeline of ~160 GW

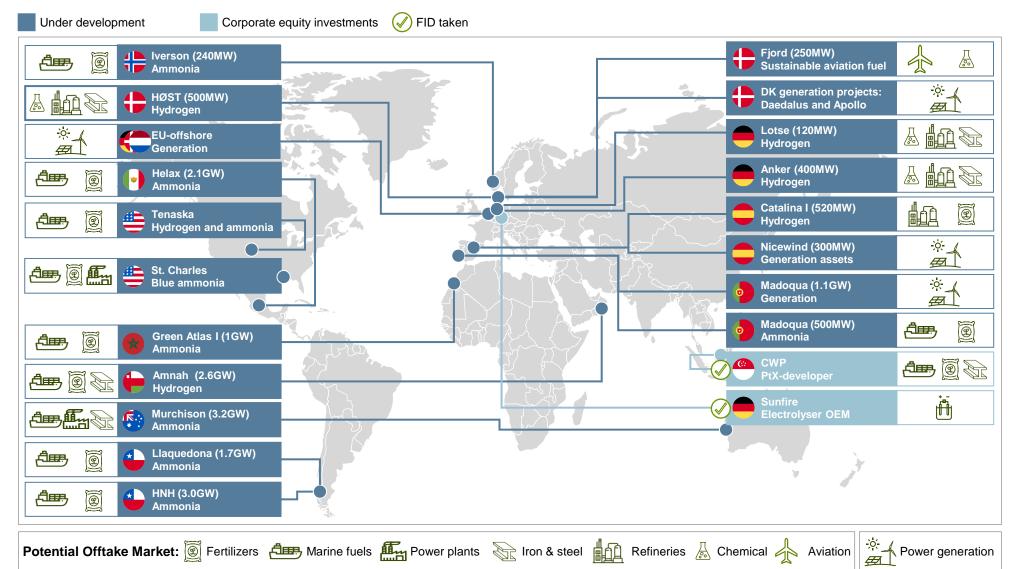


Important information: There can be no assurance that potential investments will be consummated. Notes: 1) Including only projects with site applications, land rights, exclusivity or ownership (or similar rights). Capacity is gross GW including partnership share (where CIP is not 100% owner). CI ABF I pipeline of greenfield advanced bioenergy projects shown seperately, as capacity is measured in Nm3 RNG instead of GW; 2) CIP develops 50 GW of offshore and floating wind (gross capacity incl. partnership share) which equals ~15-20% of expected capacity added by 2035 excl. China according to BNEF 1H 2022 Offshore Wind Market Outlook (Jun 2022); 3) BNEF 2H 2022 Hydrogen Market Outlook, forecast of 180 GW electrolyser capacity by 2030 excluding China; 4) BNEF; 5) Does not include associated power generation; 6) Nm3 RNG = Normal cubic meter of Renewable Natural Gas.

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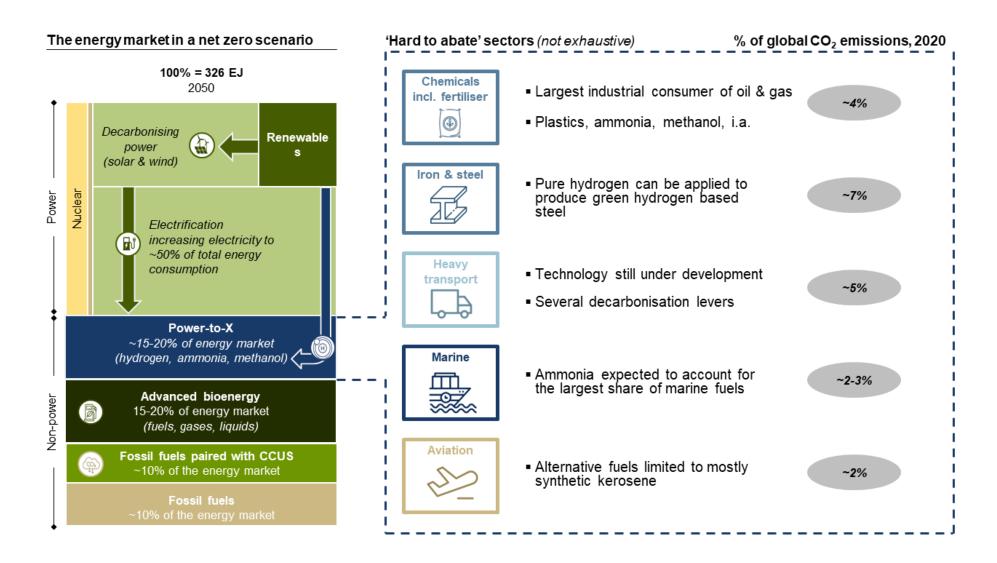
CIP PtX-Projects: Global leading portfolio with strong geographical distribution

Global portfolio of PtX Projects addressing future key markets



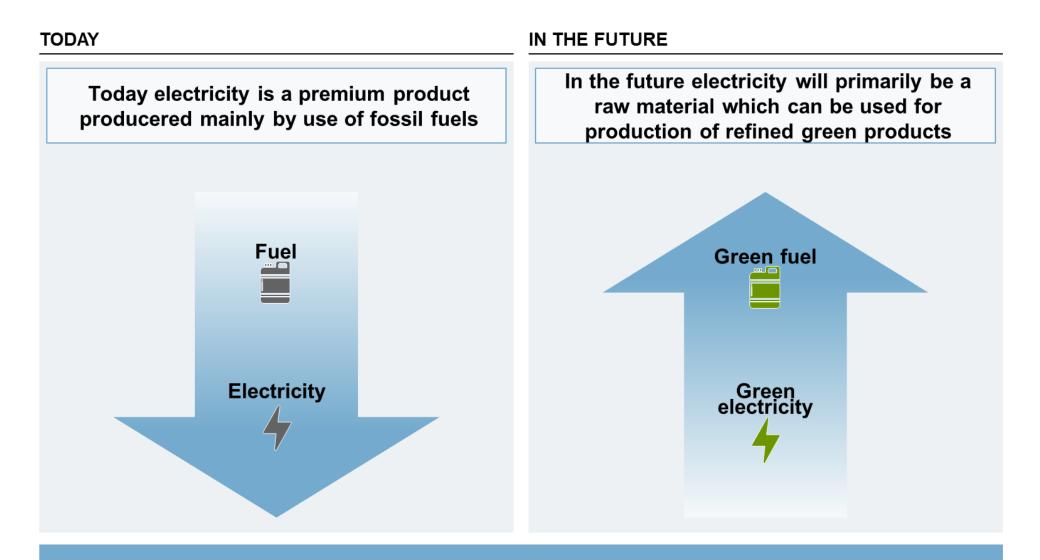
Hydrogen is critical in the transition of hard to abate sectors

Decarbonisation of industry, heavy transportation, and buildings is dependent on hydrogen as fuel and feedstock



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Electricity - from premium product to raw material



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Solving the triple challenge: Achieving clean, affordable and resilient European energy system by demystifiyng complexities

Challenges

Sense of urgency

for a green energy transition due to physical climate risk and energy security issues



Clean energy transition aiming for Net Zero by 2050



Energy resilience following Ukraine War calling for sovereignty an diversification

Socioeconomics benefits

Potential for significant socioeconomic benefits in terms of growth or job creation



Affordable clean energy with most cost competitive energy sources ensuring European competitiveness

Political Ambitions

Delayed implementation



Complexities

CIP aims to demystify the complexities of the European clean transition and provide insights to capture the opportunities driven by the transition

How much renewable power capacity is needed to reach Net Zero by 2050?

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To what extent can a clean transition achieve an affordable and resilient energy system?

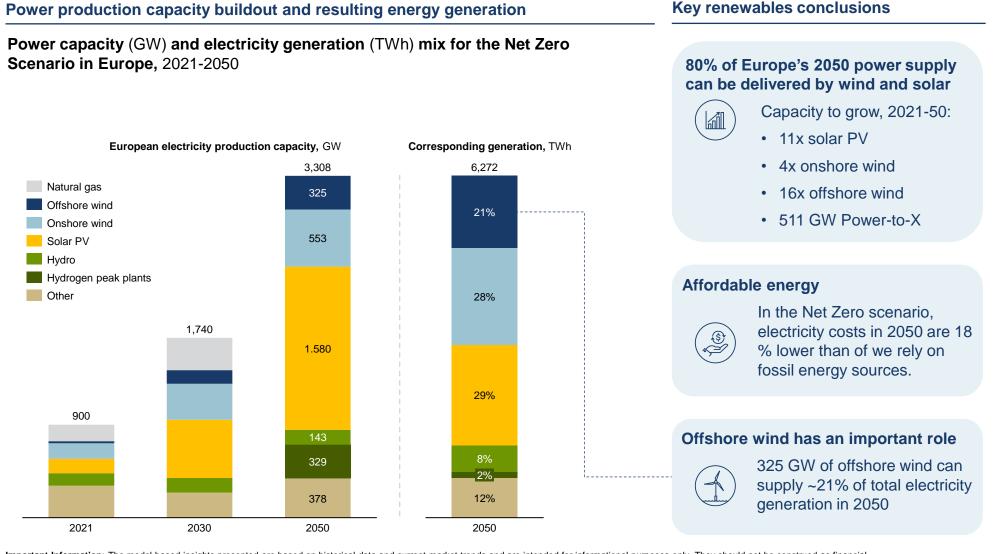
What role would clean hydrogen play in the future energy system?

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To what extent will Europe be dependent on hydrogen imports in the future?

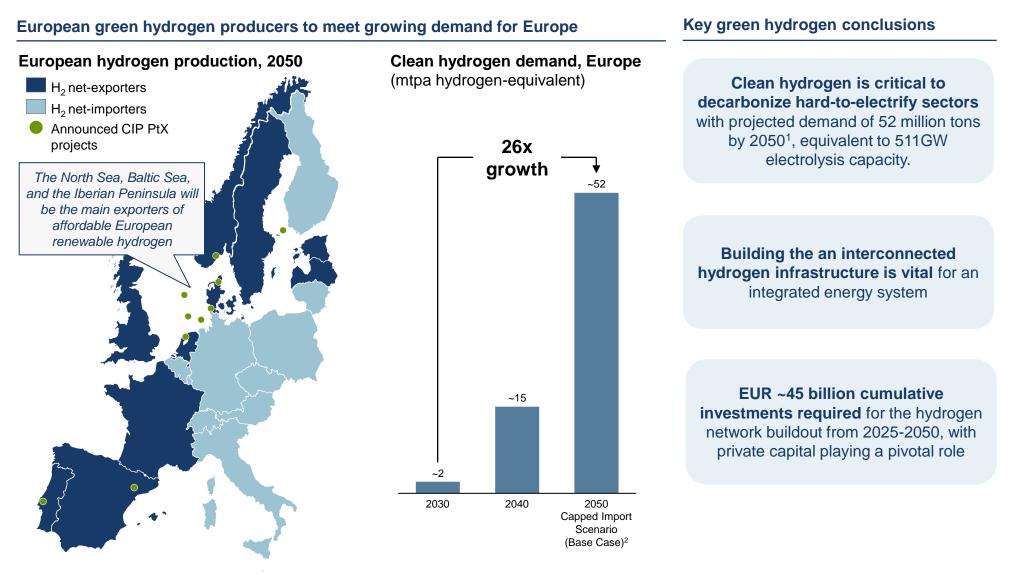
Europe's clean transition to be delivered by renewables at a competitive cost, with offshore wind supplying ~21% of 2050 electricity



Important Information: The model-based insights presented are based on historical data and current market trends and are intended for informational purposes only. They should not be construed as financial advice or a guarantee of future market performance. **Source:** Projections based on the Balmorel model which is an economic optimization model for power system capacity expansion, with the purpose of meeting electricity demand with the least cost with a set of tech-economical inputs and system operation constraints (e.g. max grid build-out per year), while achieving the net zero target by 2050. The model analysis is conducted in collaboration with Energi-Analyse.

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Europe can meet a substantial portion of its own green hydrogen demand, delivered via production in the North Sea, Baltic Sea, and the Iberian Peninsula

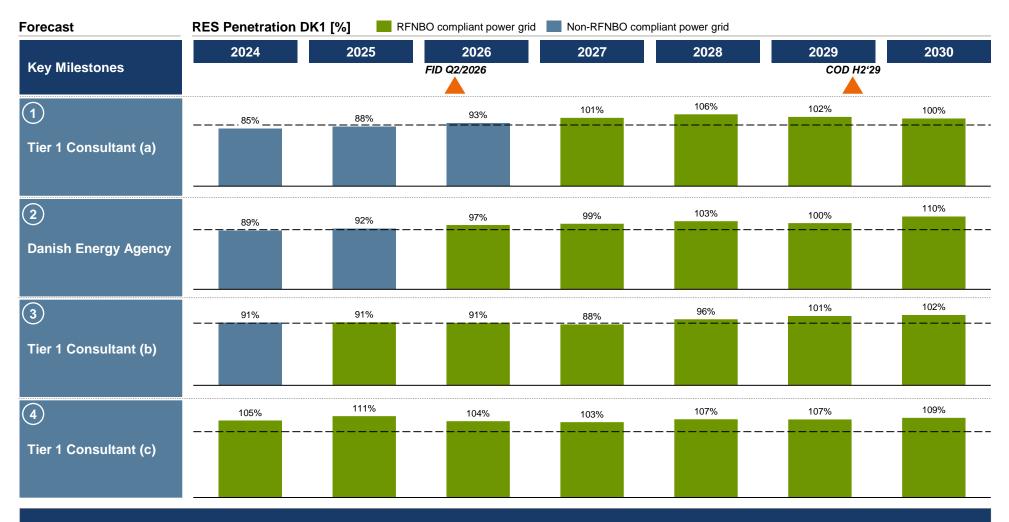


Notes: 1) Largely based on European Union Fit for 55 mix scenario including modification for EU commission staff IA report February 2024; 2) European import hydrogen at competitive prices from North Africa expected to be capped by political motives such as energy dependency or industry policies – in this case capped at 10 mtpa hydrogen from 2040 forward;

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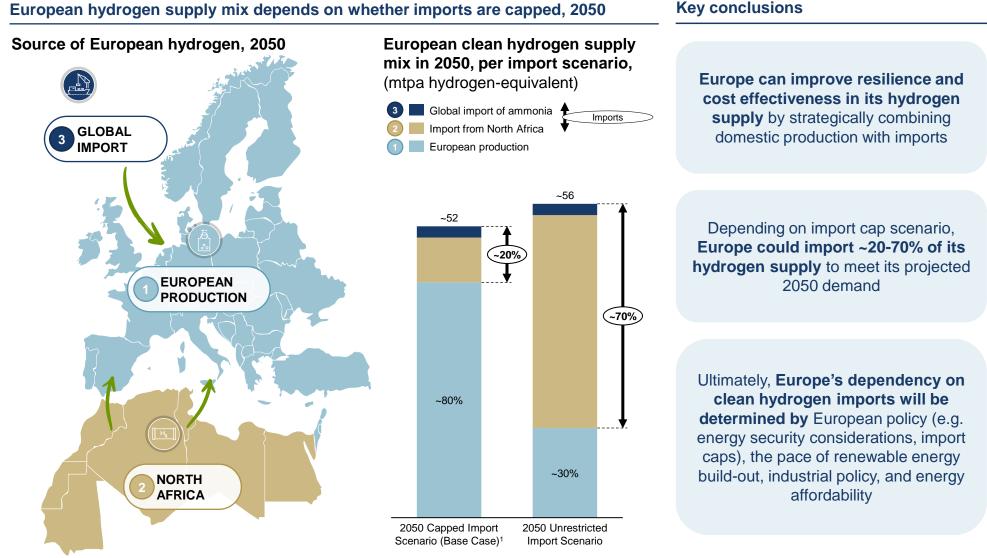
Denmark to achieve >90% renewable energy share of electricity, subject to RED II exemptions

When DK1 achieves 90% RES penetration, 100% of HØST production is RFNBO even if power is sourced directly from the grid



90% RES-E share in DK1 allows HOST to source power directly from the grid and deliver a baseload-like H2 supply

Challenge 1: Optimizing hydrogen imports balancing clean energy resilience and affordability



Source: Projections based on the Balmore model which is an economic optimization model for power system capacity expansion, with the purpose of meeting electricity demand with the least cost with a set of tech-economical inputs and system operation constraints (e.g. max grid build-out per year), while achieving the net zero target by 2050. The model analysis is conducted in collaboration with Energi-Analyse

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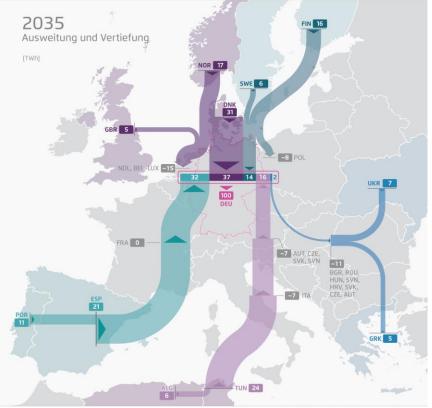
Possible H2 pipeline import routes to Germany

Findings of Agora Energiewende study "Wasserstoffimporte Deutschlands" (2024)

Mögliche Importe Deutschlands an erneuerbarem Wasserstoff per Pipeline im Jahr 2030



→ Abb. 1 Mögliche Importe Deutschlands an erneuerbarem Wasserstoff per Pipeline → Abb. 3 im Jahr 2035 (Szenario Ausweitung und Vertiefung)



Agora Energiewende und Guidehouse (2024). Anmerkungen: Schematische Darstellung der Korridorverläufe. Rundungsbedingte Abweichungen sind möglich. Keine Betrachtung der zu erwartenden künftigen Rolle Deutschlands als Transitland für europäische Wasserstoffflüsse. Einige Korridore können auch für kohlenstoffarmen Wasserstoff genutzt werden.

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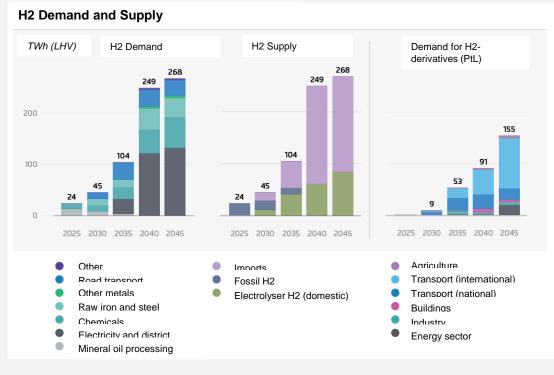
Roles and synergies between planned hydrogen projects in the BEMIP region

 Notel: Hydrogen Rater Boh: Sach Hydrogen Cardiac Boh: Sach Hydrogen Cardiac	 Baltic Sea Hydrogen Collector (BHC) New build pipeline system for transmission of green hydrogen from Finland and Sweden to Germany and Central Europe To be connected to Åland, Gotland and potentially also Bornholm Unlocks the significant renewable potential in the Nordic and Baltic Sea region 	 Nordic Hydrogen Route Bothnian Bay (NHR) New build onshore bidirectional pipeline along the Bothnian Bay dedicated for green hydrogen transmission Doing Hydrogen Hydrogen infrastructure in East Germany directly linked to the Nord-Baltic Hydrogen Corridor at the Polish border 	 Nordic-Baltic Hydrogen Corridor (NBHC) New build and repurposed transportation corridor to unlock the potential of H2 production in the Nordic and Baltic regions Hydrogen storage in Damastawek Hydrogen storage services for the purpose of hydrogen transmission along the NBHC and the Polish Hydrogen Backbone
	 Project Flow Distribution of hydrogen produced on- and offshore in the Lubmin region and Baltic Sea Conversion of existing infrastructure 	 Polish Hydrogen Backbone Infrastructure Distribution of hydrogen delivered via the NBHC Nation-wide hydrogen grid. The backbone is expected to be implemented following market signals 	Hydrogen seasonal storage in Latvia Underground hydrogen storage in aquifer reservoir to serve hydrogen transmission along the Nordic-Baltic Hydrogen Corridor as well as regional domestic consumption



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Germany: Agora expect power and heat to account nearly half the H2 demand by 2045



Source: Agora Energiewende KNDE

(2024)

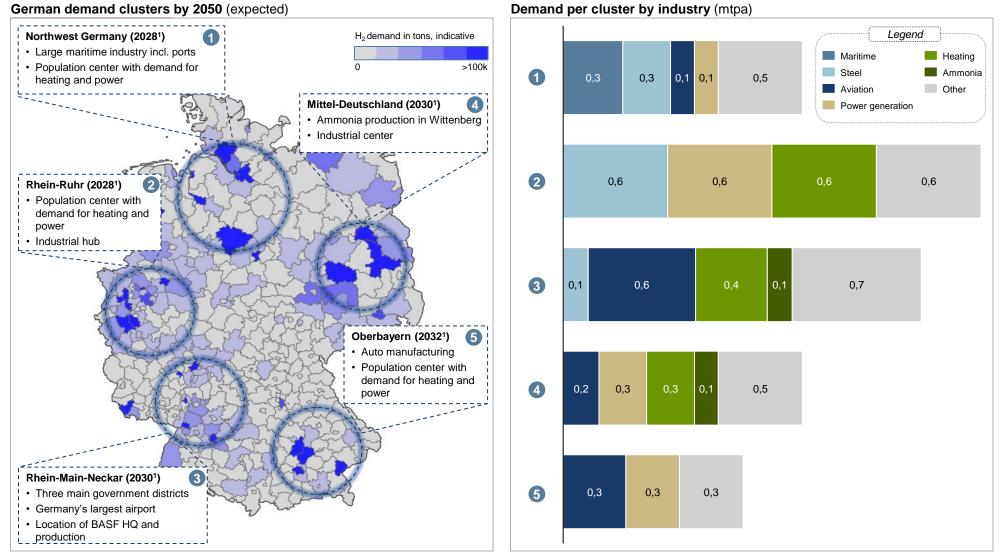
- The modelled power and heat demand in 2045 stems from dispatchable H2-power plants as well as H2-CHP plants
- The second largest demand driver is the industry where steel production using the DRI pathway is ramped up next to H2 demand from the chemicals industry
- Around two-thirds of the total H2 demand in 2045 is assumed to be met by imports
- Another 155 TWh of H2 derivative demand is expected in 2045 stemming mostly from the transport sector, including international maritime and aviation traffic

KNDE 2024 vs KNDE 2021

- Lower demand in 2030 (-28%) and 2035 (-24%)
- Higher demand in 2045 (+11.5%)
- H2 use in the power sector is delayed from 2030 to 2035, overall volumes are lower.

German H2 demand is concentrated in 5 clusters, accounting for ~80% of total demand

Overview of German H2 demand clusters and breakdown by industry



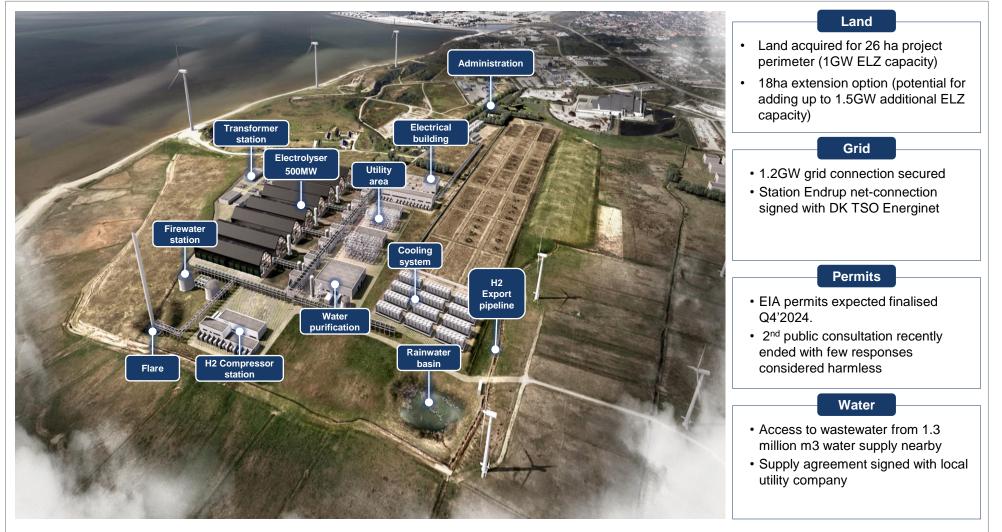
Note: 1) Expected year from when Uniper can supply hydrogen to this region through the pipeline Sources: McKinsey analysis

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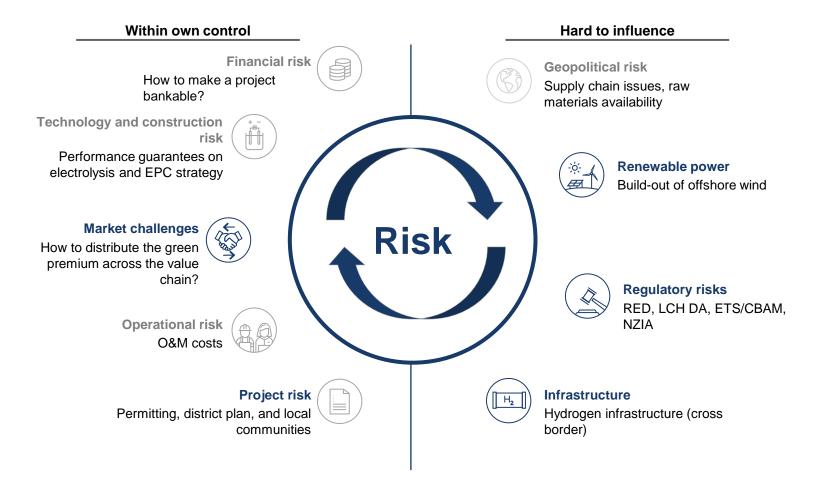
Visualization of the HØST project site

Land, grid connection, and water supply secured. Permits expected within months

General overview of project site



360° Developer risk profile



Society needs to store renewable energy

PtX is the perfect partner for optimum usage of renewable energy

