### ORLEN Group Hydrogen Strategy 2030

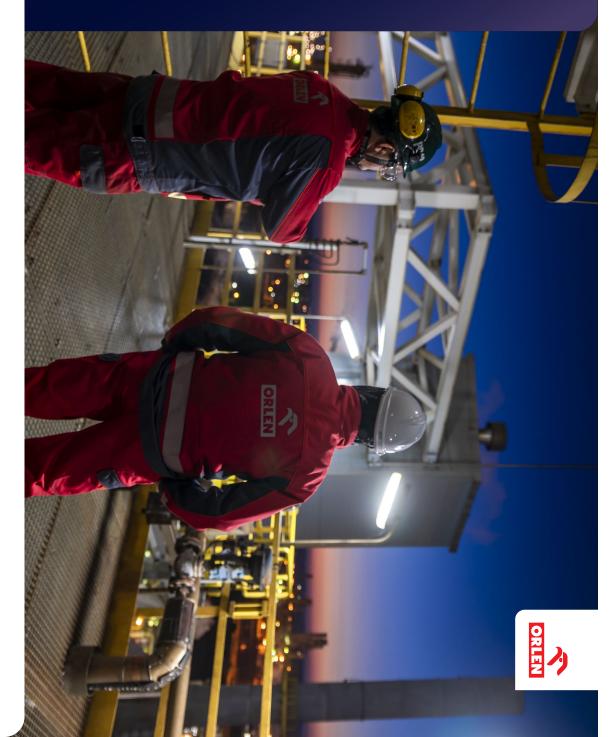
FEBRUARY 2022







### aspirations Our



**Our aspirations** Hydrogen potential Our strategy

Capital expenditure



## of businesses. Hydrogen is part of the plan to invest in the future The ORLEN Group Strategy 2030 seeks to build a sustainable portfolio

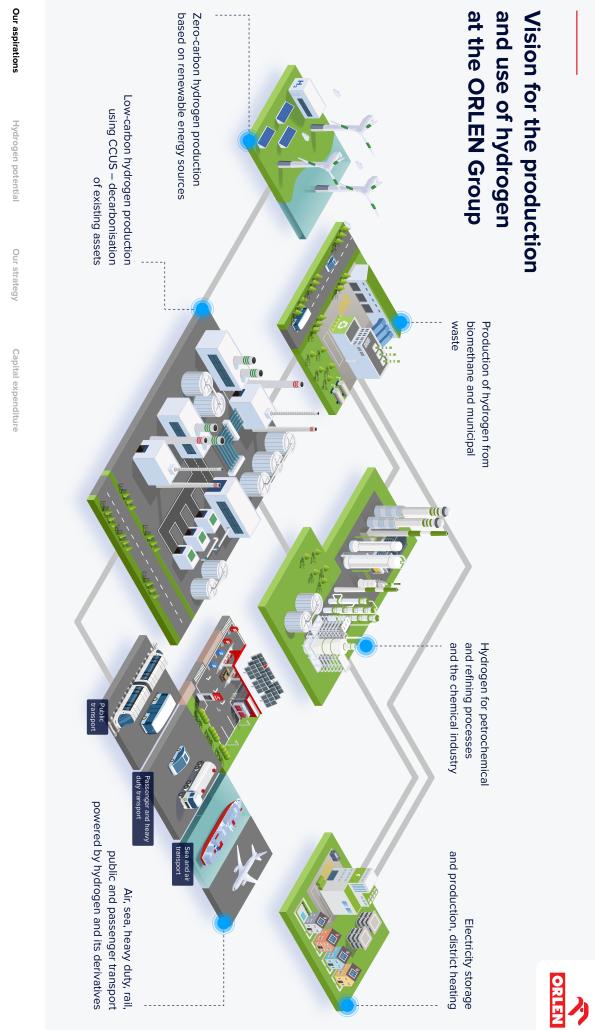


**Our aspirations** 

Hydrogen potential

Our strategy

Capital expenditure





### Hydrogen potential



Hydrogen potential

**Our aspirations** 

Our strategy

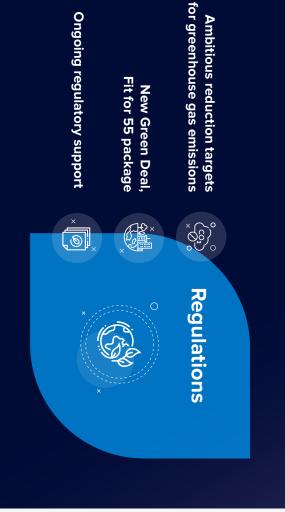
Capital expenditure

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#### Strategies and roadmaps are vital in areas requiring long-term planning



Ambitious goals for developing a hydrogen economy, supported by public and private funding, are included in both the EU Hydrogen Strategy and Poland Hydrogen Strategy<sup>\*</sup>.



#### 40 GW capacity

Strategies and roadmaps are vital in areas requiring long-term planning in electrolysers powered by renewables that can produce up to 10m tonnes of green hydrogen in the EU.

A major factor is a demand-side policy creating new sales markets, particularly in industry and

transport.

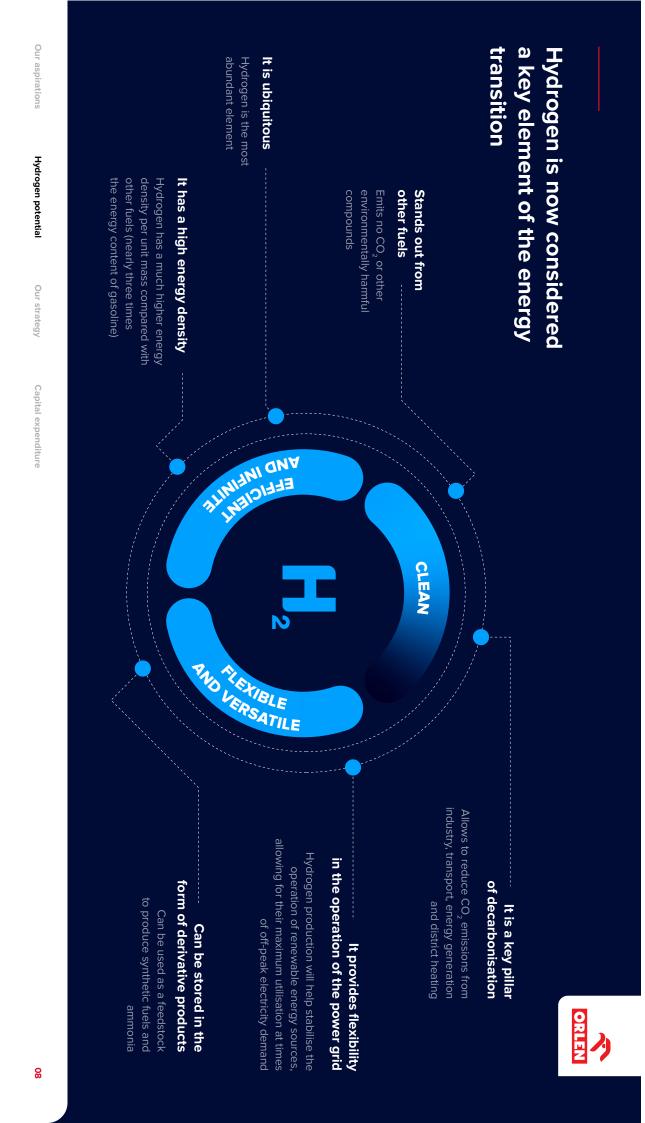
#### 2 GW capacity

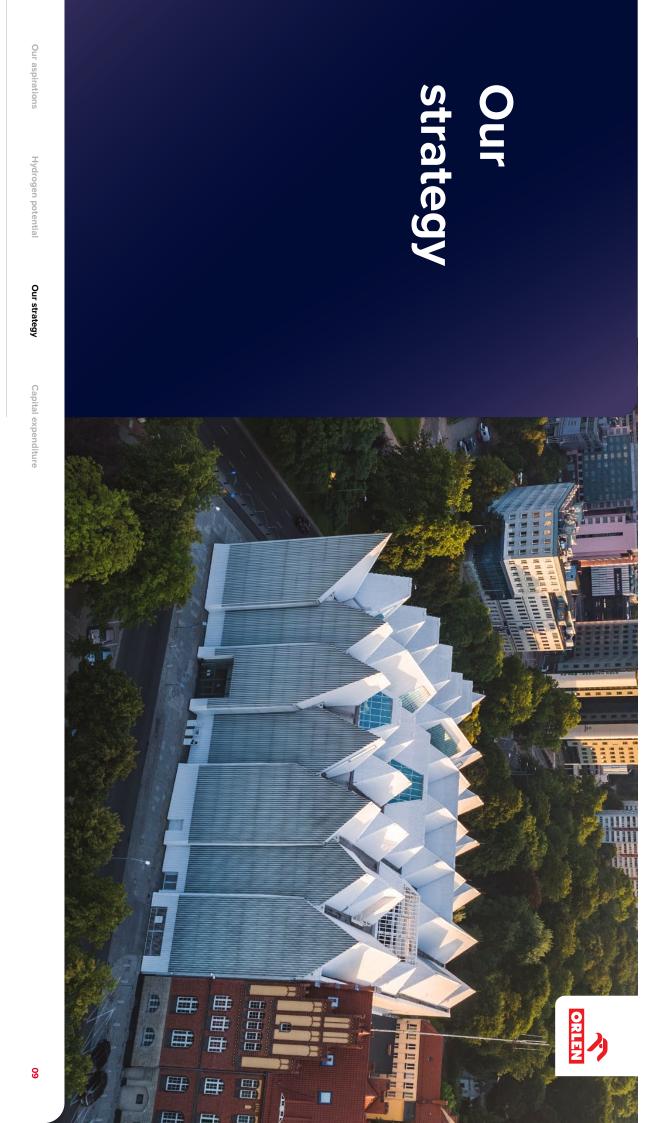
in facilities producing hydrogen and its derivatives from low-carbon sources, processes and technologies, including electrolysis units.

The primary goal is to create and advance a competitive hydrogen industry to achieve climate neutrality.

\* Poland Hydrogen Strategy 2030 with an Outlook to 2040.

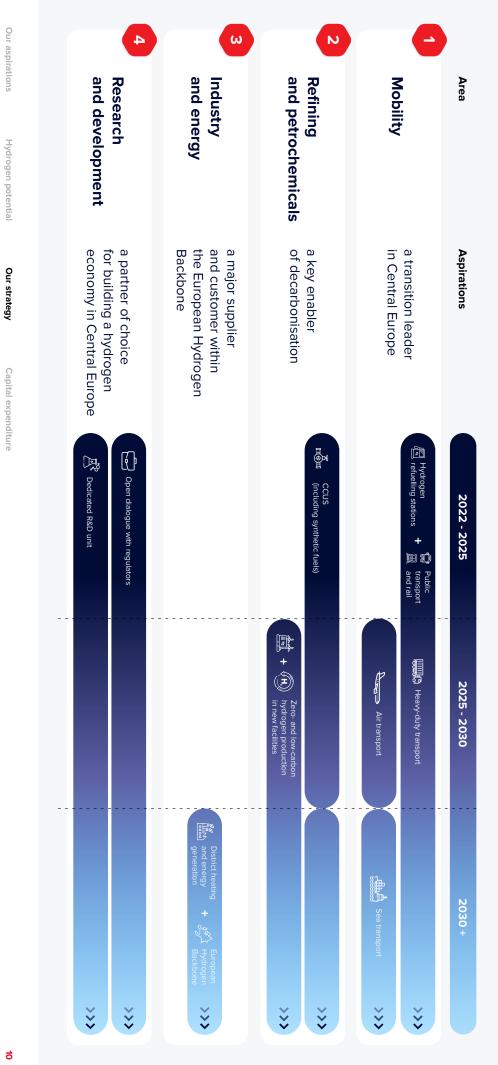
Our aspirations

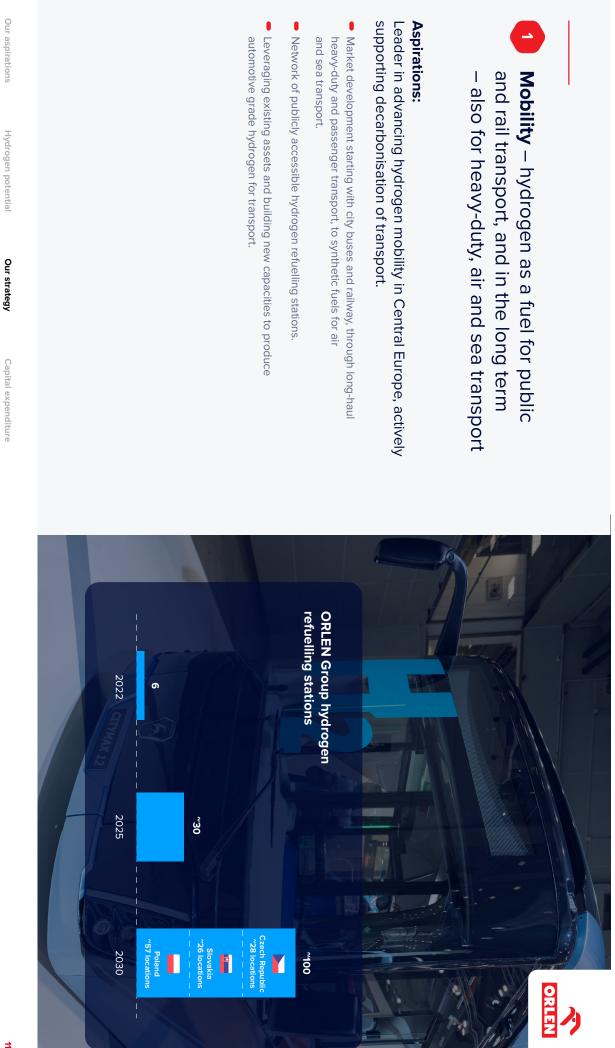


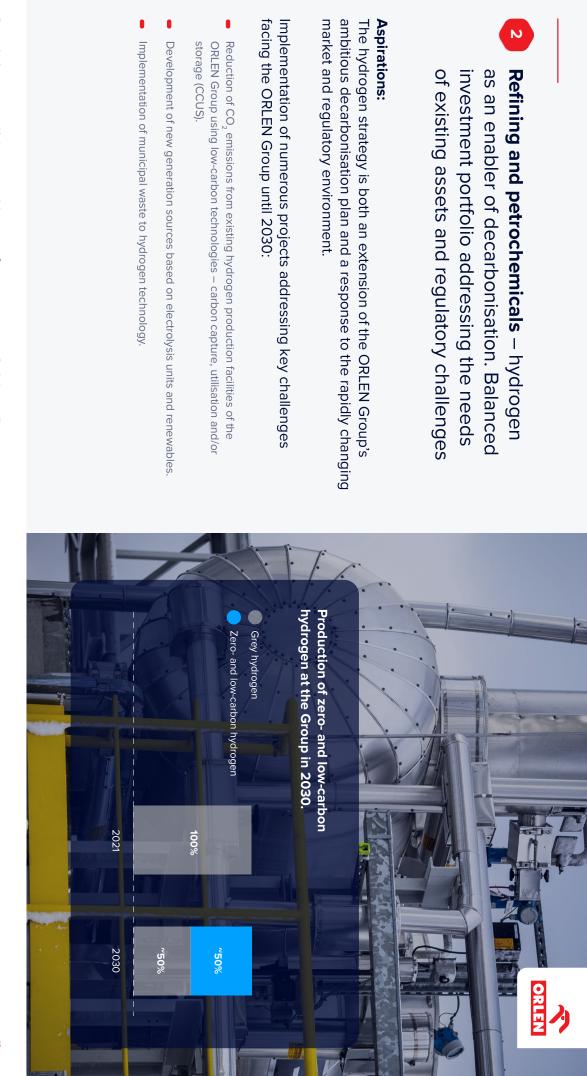


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### Hydrogen economy: our strategy

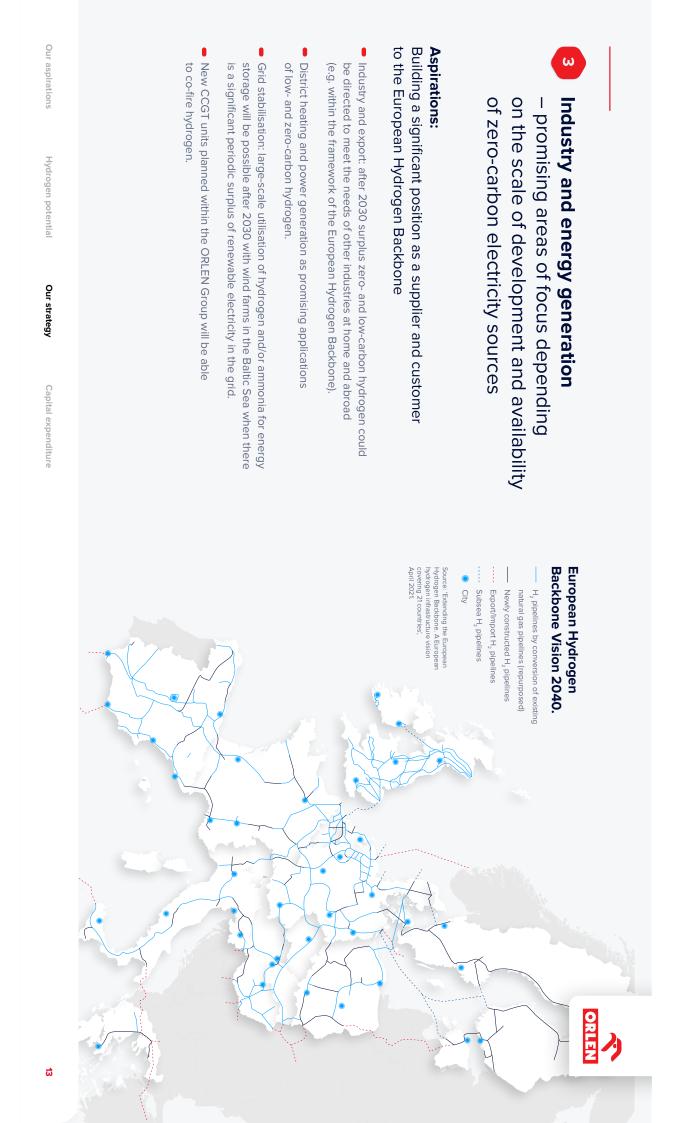


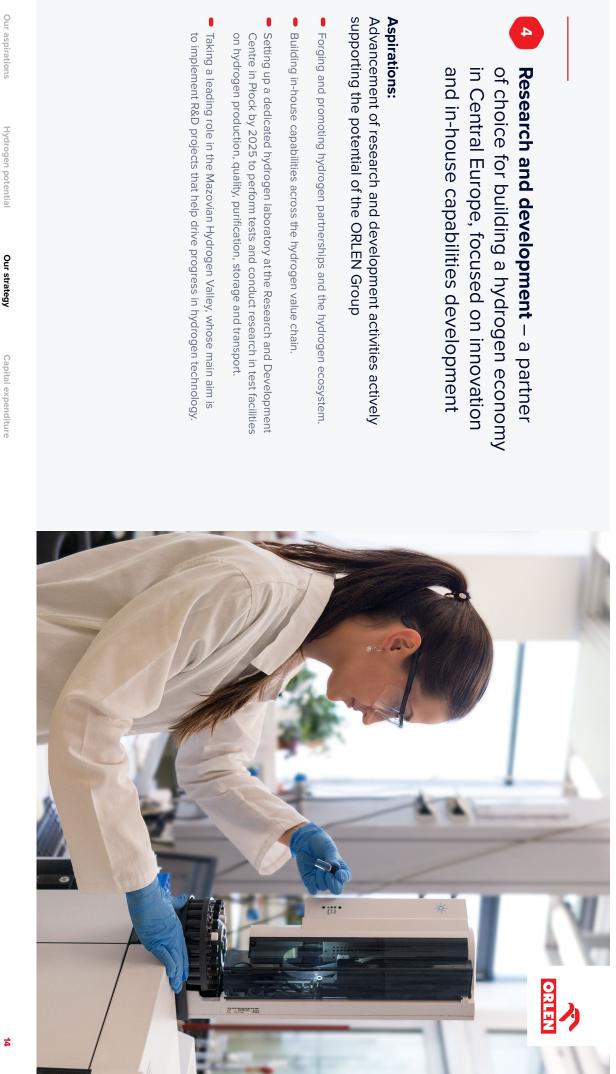




Our strategy Capital expenditure

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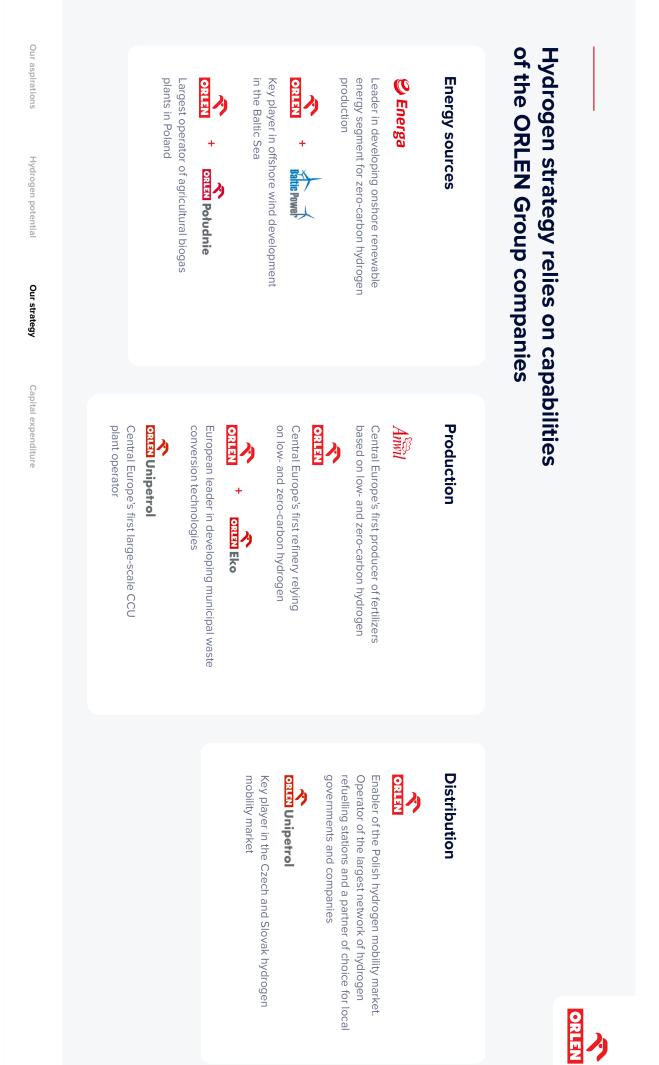
Capital expenditure



Our strategy Capital expenditure

Our aspirations

Hydrogen potential



### Capital expenditure



Our aspirations Hydrogen potential Our strategy Capital expenditure

#### ORIEN

### Planned capital expenditure

### PLN 7.4bn

with an ambition to increase spending in the long term

### **Planned CAPEX to 2030**



\*Including: hydrogen production infrastructure; Incl. RES-powered electrolysers, hydrogen production installations using municipal waste, distribution and storage infrastructure for produced hydrogen and the network of FCV charging ponits

### Our aspirations Hydrogen potential Our strategy

Capital expenditure

#### Key goals:

- Focus on cost-efficient decarbonisation of existing hydrogen production assets.
- Build new low- and zero-carbon hydrogen production assets.
- Expand hydrogen refuelling and supply logistics networks.
- Address the challenges of green transformation.
- Use non-repayable funding efficiently.

funding to finance 40%-80% of the costs. each project has applied for non-repayable comprehensive and cross-border in nature, to come online before 2025. Being innovative, Majority of key capital projects are scheduled



Powering the future. Sustainably.

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# List of abbreviations, acronyms and units used in the Hydrogen Strategy

ccus   Carbon Capture, Utilisation and Storage     co2   Carbon dioxide     Fit for 55   an EU legislation package aiming to reduce greenhouse gas emissions by 55% compared with 1990 levels     GW   Gigawatt	Units Glossary of abbreviations   R&D Research and development   CAPEX Capital expenditure   CCGT Combined Cycle Gas Turbine plants   CCU Carbon Capture, Utilisation	
e greenhouse gas emissions by 55% compared with 1990 levels		



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