

Oman today

Oman tomorrow





Oil & gas

Green Hydrogen

Road to net zero by 2050



Oman has 5 strategic objectives to move into Green H₂



Ensure energy security for Oman and global demand



Diversify the local economy, onshore the supply chain, forward connect industries and create local longtermiobs



Decarbonize the country to safeguard a sustainable future



Create a Green H₂ sector with a competitive LCOH for export markets and attractive for Foreign Direct Investments



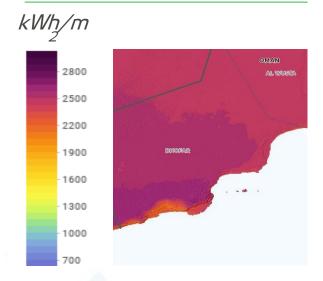
Support innovation and ensure capabilities development for Oman

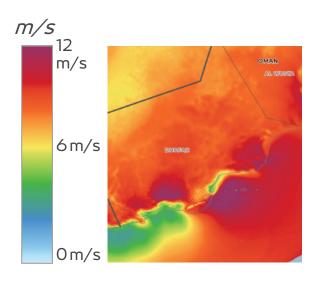


Oman is one of the top countries for renewable resources









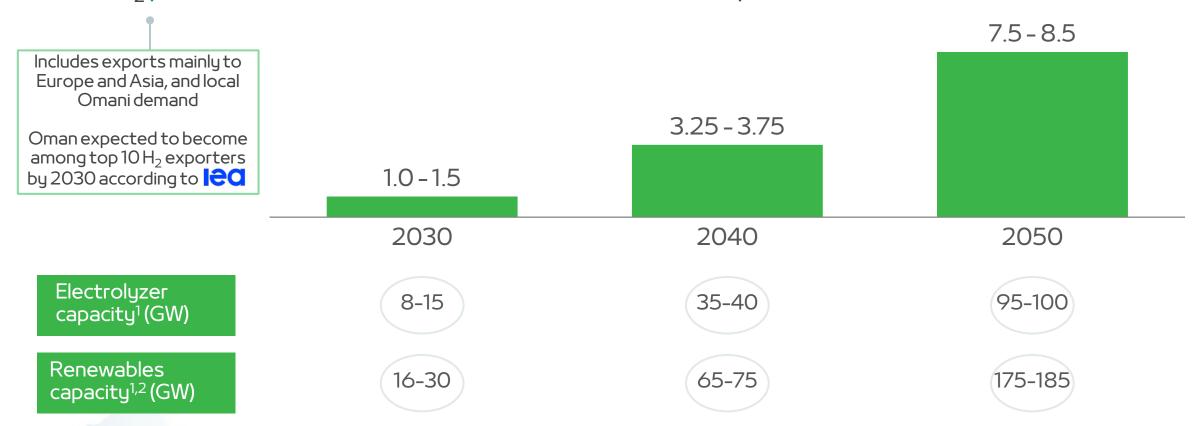
 $>2400 \, kWh/m^2$

Up to 11 m/s

50,000 km² allocated for green H₂ projects Areas for RES development in Oman Sohar Industrial or commercial ports Wind capacity factor (%) Muscat Solar irradiation¹ (kWh/m²) Ad Dhahirah Sur 3 areas selected with a total area Ad Dakhiliyah of ~50'000 km² for green H₂ 48% **4** 2300 Al Jazir 3 **\$53% 2340** Dhofar (2) 46% **=** 2470

Oman has ambitious production targets until 2050, with already >1 Mtpa by 2030

Green H₂ production ambition for Oman in 2030-2050 (Mtpa)



Oman's concrete actions to develop its H₂ economy

50,000 km² of land

Land allocated for gH2 production projects





Oman gH2 Strategy Provided clarity and direction

Shared infrastructure for gH₂

Master planning finalized; pre-feed activities underway

Establishing a gH2 ecosystem in Oman requires the development of multiple elements

Policies and regulations

governing the gH2 economy and operations in the space



gH2 supply

incl. land delineation, auctions of blocks and building and running gH2 facilities

gH2 supply chain

incl. tech, equipment and mtl., sourced internationally & locally



gH2 ecosystem



gH2 infrastructure

incl. structuring and development of shared infrastructure

Demand for gH2

locally and globally, and for downstream industries

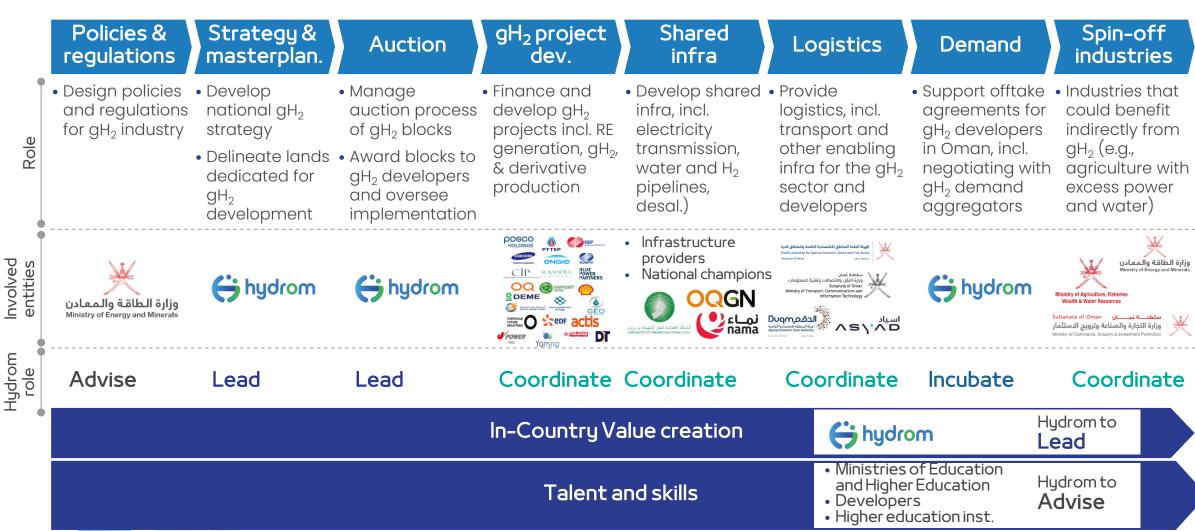




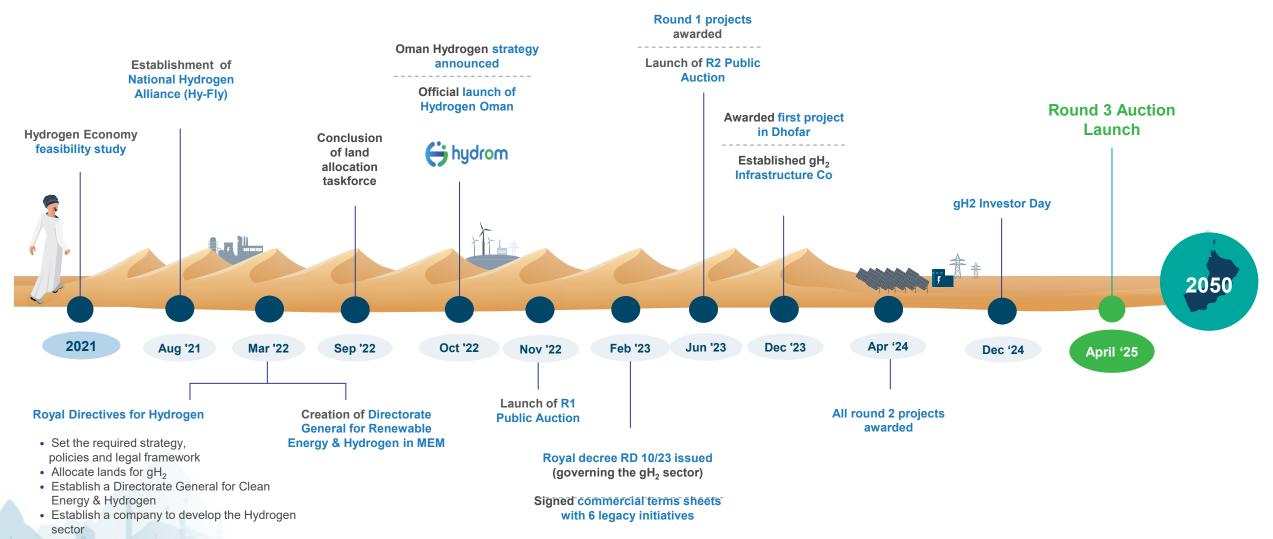
Capacity and skills

needed to run gH2 operations, and conduct R&D work

Clear sector structure and multiple roles needed to drive gH₂ ecosystem in Oman, with Hydrom as central orchestrator



Oman already made significant steps in its H₂ journey





Oman achieved significant milestones across 2 previous gH₂ auction rounds



\$50 Bn

Investment



18 GW

Electrolyzer capacity by 2030



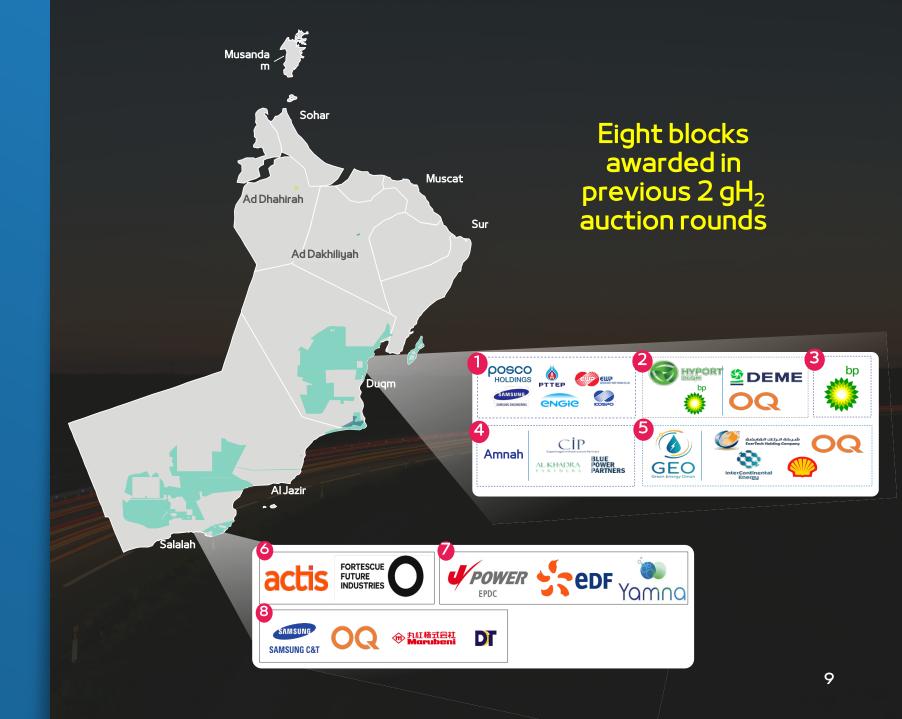
35 GW

Renewables' capacity by 2030



1.4 Mtpa

gH₂ production by 2030



Currently open H₂ public auction:

Round 3

Hydrom makes available up to 300 km² in Duqm region



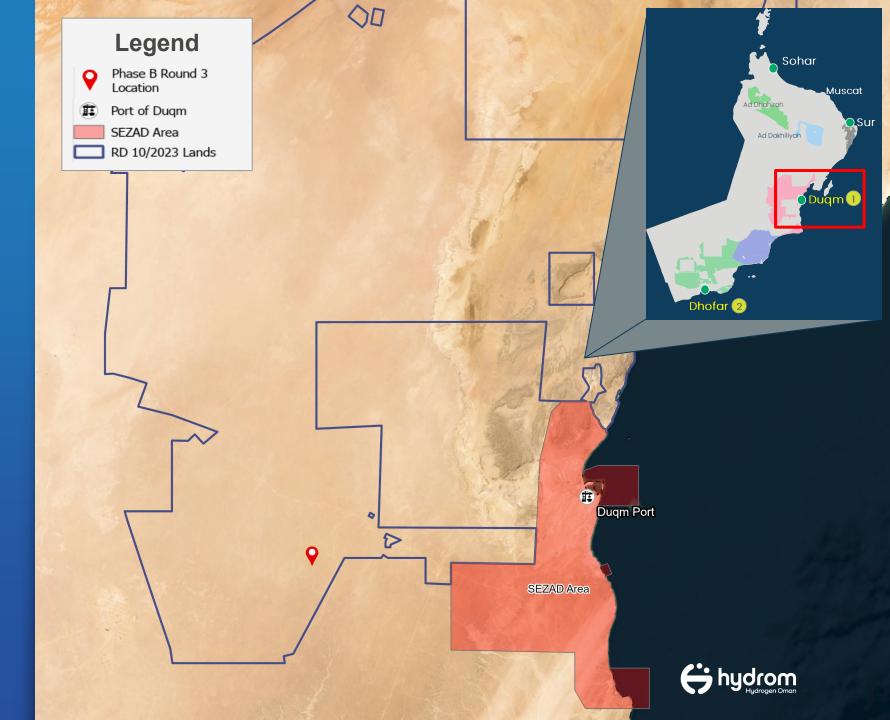
100 km away from Special Economic Zone at Duqm



World-class wind and solar irradiation profiles

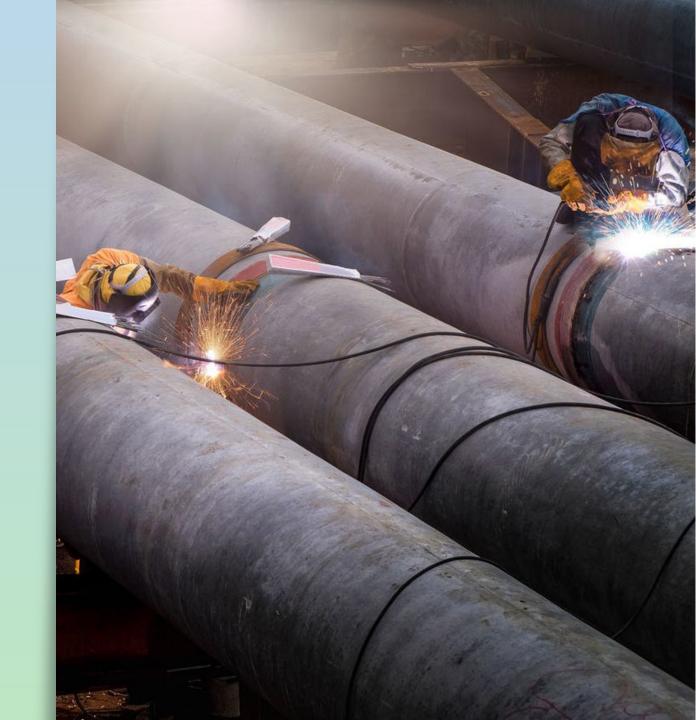


Access to key demand markets in EU and Asia



Oman expects to support gH_2 projects making a shared infrastructure available for common use

- Optimal configuration and conditions being further assessed and defined through technical studies
- Business model and regulatory framework updates will allow gH₂
 Developers to partake in the Shared Infrastructure deployment



Oman will develop a fully integrated hydrogen ecosystem



hydrom SEA OF OMAN Sohar Muscat Sur Dugm ARABIAN SEA Al Jazir YEMEN Salalah

Oman's integrated hydrogen ecosystem

- Key economic and industrial zones of Oman to be connected via an infrastructure network
- Approximately 2000 km of low carbon Hydrogen pipelines spread across Oman
- Spurring localization of key industries and forward connected industries in existing and new industrial zones

______ 2030 | ______ 2040 | ______ 2050

○ Green Hydrogen Hub Wind and Solar plants



ICV & Domestic Industry Development are key goals of Oman in its path to developing a green hydrogen ecosystem

In Country Value (ICV)

Domestic Industry Dev.

Local Employment Education & research

Domestic sourcing¹

Upstream industries development

Downstream industries development





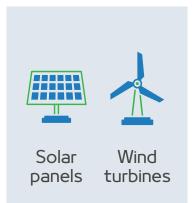


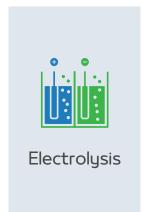




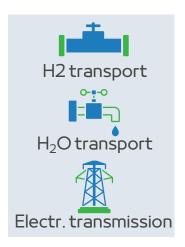
Opportunities exist across green H2 value chain in Oman

Energy generation & H2 Production





CUI



H2 Industrial use



H2 Derivatives and Fuels



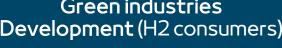


H2 adjacent industry development











Opportunities across H2 value chain

Value chain



Component & equipment manufacturing can be onshored (e.g., electrolyzers)



Respective raw materials production can be developed locally (e.g., glass, steel)



Decarbonized products to be sold for export



Decarbonized products to be utilized locallu



Oman can become a H2 commercial & logistics hub



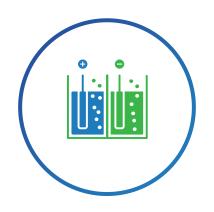
Five potential roles for international players to play in Oman and contribute to the growth of green H₂ economy



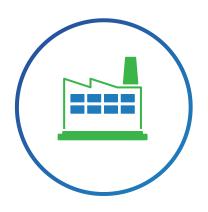
H2 project developers



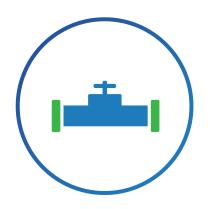
H2 financial partners



H2 equipment providers (OEMs)



H2 industrial off-takers



Infrastructure developers



Production equipment



Technical skillset

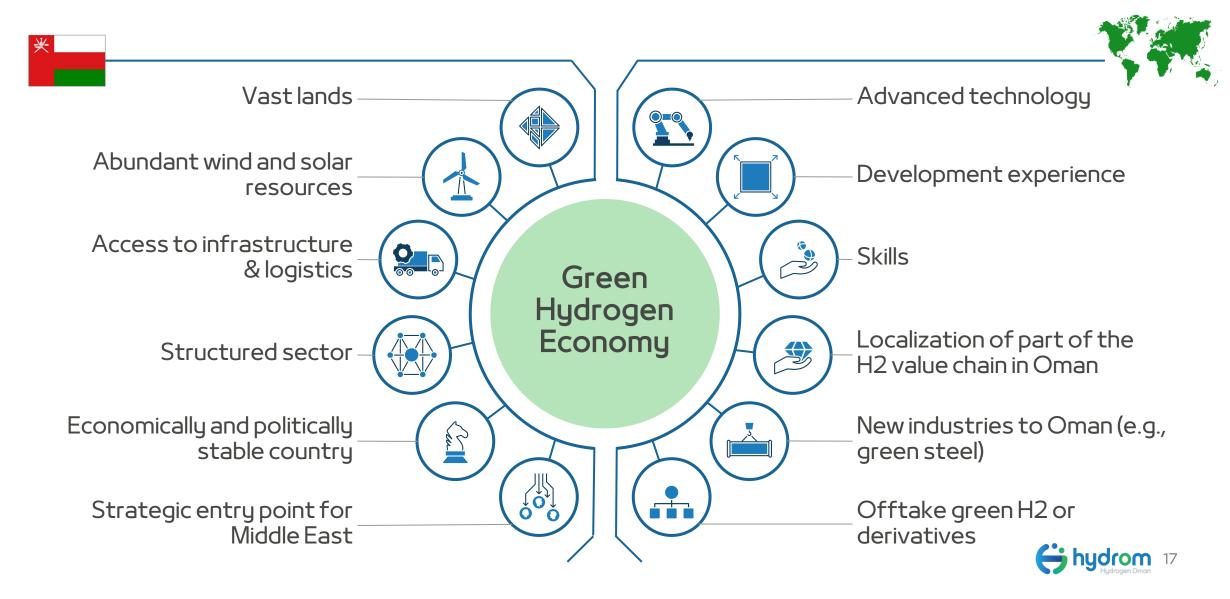


R&D capabilities



Knowledge-based workforce

Oman and Global Partners can have fruitful collaborations to help build a green hydrogen economy



Oman can become a global sustainability leader Mining hub Industrial and technological hub Renewables and gH₂ hub Agricultural Tourism hub hub Electricity transmission Central Grid **Pipelines** Hydrogen Water Bunkering & This map provides a conceptual representation and is intended for illustrative purposes only. It does not depict actual masterplans, layouts, or deliverables logistics hub

Hydrom will be honored to meet international players and provide further information on gH₂ opportunities in Oman



H₂ project developers



H₂ financial partners



H₂ equipment providers (OEMs)



H₂ industrial off-takers





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