



Global Energy Ventures

Green Hydrogen Projects for the Energy Transition

Compression | Simplicity | Efficiency

Investor Webinar

29 October 2021

ASX.GEV

www.gev.com

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\$ refers to Australian Dollars unless otherwise indicated.

This presentation was authorised by the CEO for release on 29 October 2021



Global Energy Ventures (GEV) is an energy transition company enabling the development of a trillion dollar hydrogen market through compressed shipping.

Our mission is to become a leading developer for the production, storage and transport of green hydrogen.

ASX listed company
(GEV), Head Office in
Perth, WA

Management
experienced in energy,
shipping and chemicals
projects

Core IP is
commercialising
compressed shipping
solutions from concept
to construction

Compression delivers a
simple, sustainable and
cost competitive
method to transport
energy

Commitment to ESG
principles and reporting

Clear pathway to become a hydrogen company by leveraging our compressed shipping IP

GEV is implementing three strategies to create value for shareholders through our development of projects with a focus on 'simplicity and efficiency'

Upstream Hydrogen Production

- › Natural extension to integrate with midstream IP
- › Development of green hydrogen export projects for regional export markets using compression
- › **2.8 GW Tiwi Green Hydrogen Export Project announced in October 2021**
 - › Closest export port location to Asian markets
 - › Brownfield development opportunity, no native title, low environmental impact
 - › Land owner and NT Government support
 - › Phased development to benefit from ongoing capex/opex cost reductions & growth in offtake markets
- › **GEV will actively seek additional projects where compression is the logical and competitive alternative**

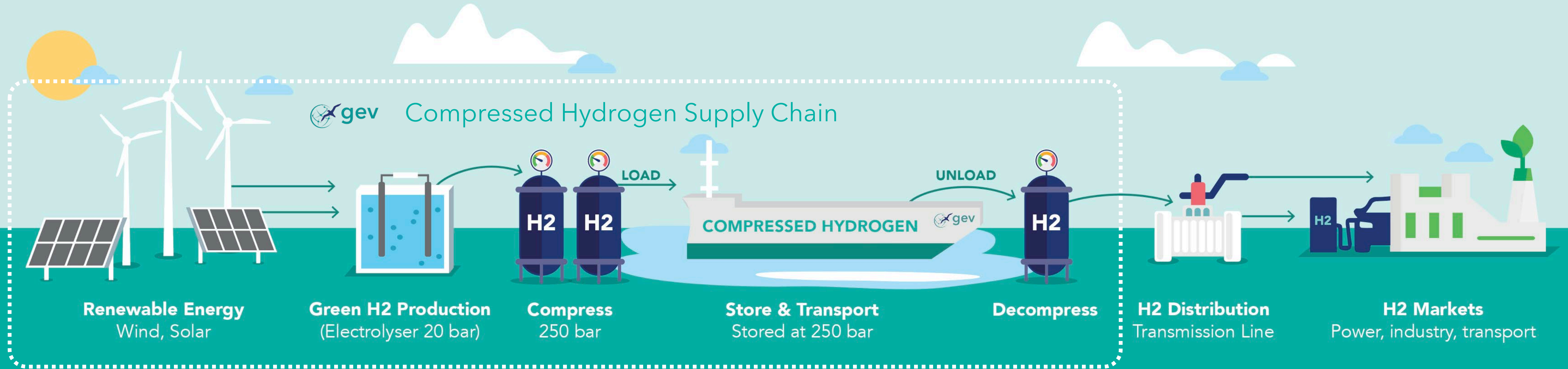
Midstream Hydrogen Transport

- › Collaboration with world-class green hydrogen developers seeking a regional shipping solution
- › Approvals for construction by 2023
- › **HyEnergy Project announced in August 2021**
 - › Large-scale 8 GW Project
 - › Located on the Gascoyne Coastline, WA
 - › Partner includes global energy major with access to customers
 - › GEV supported by WA Government funding for its feasibility
- › **Screening continues on a global portfolio of opportunities that are suitable for compressed hydrogen transport with bankable partners**

Midstream CNG Transport

- › CNG as a transport solution remains relevant given the positive outlook for gas demand and pricing in the transition to green fuels
- › Collaboration with energy majors seeking a low cost, low emission natural gas transport solution
- › CNG Optimum ship fully approved for construction
- › Lowers capex for new projects, reducing time to first gas, maximizing flexibility and facilitating carbon sequestration
- › Efficiency of CNG delivers material reduction in emissions compared with LNG supply chain

Compression provides a simple and energy efficient supply chain for green hydrogen



3 simple steps for a 'pipe to pipe' hydrogen supply chain

1. COMPRESS / LOAD

Hydrogen gas from the electrolyser to 250 bar operating pressure of the ship

2. STORE / TRANSPORT

In its pure gas form, using electric drive propulsion powered by on-board fuel cells

3. UNLOAD / DECOMPRESS

Deliver into a grid/pipeline using the ship's pressure, with minor scavenging to drawdown pressure

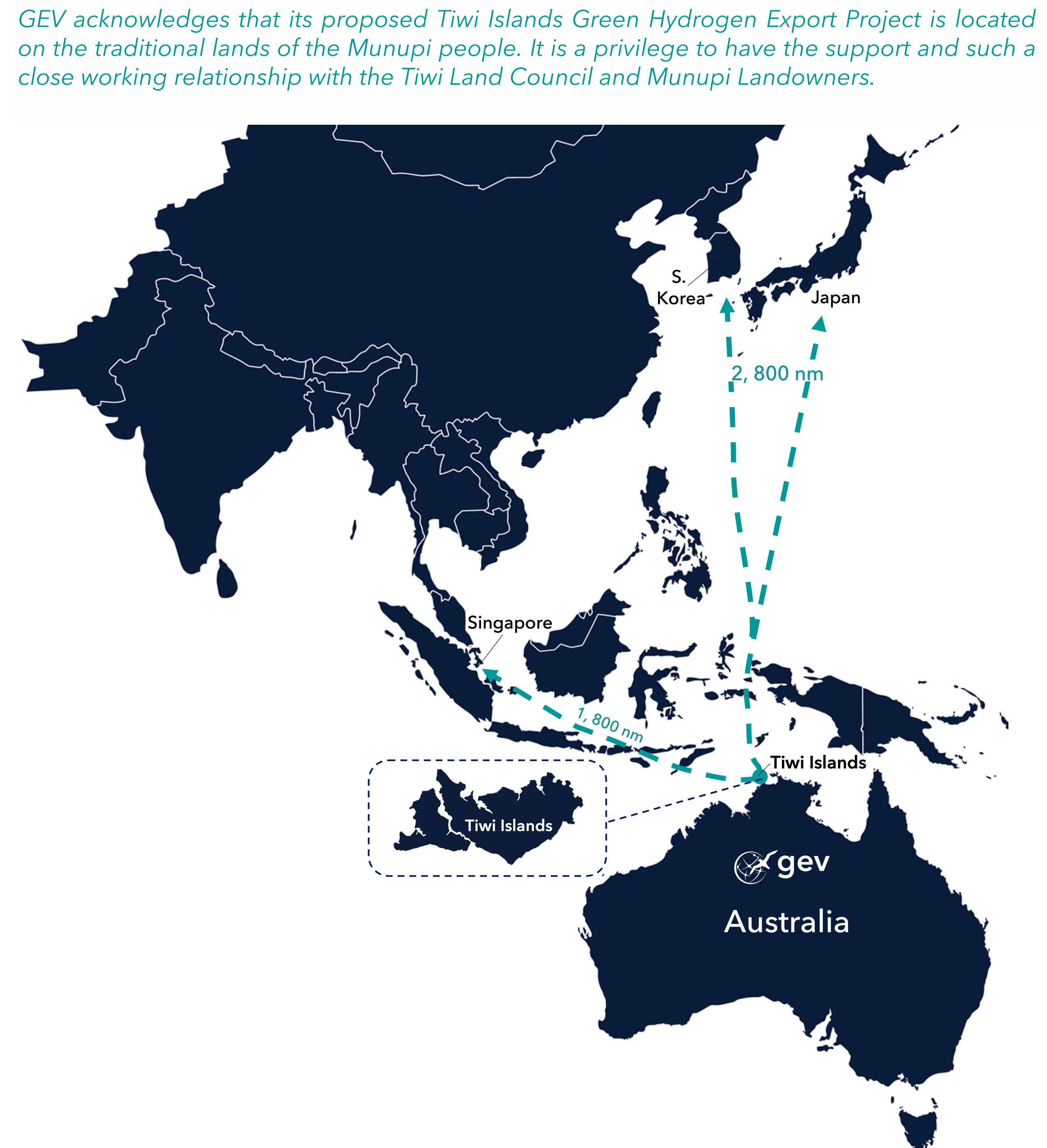
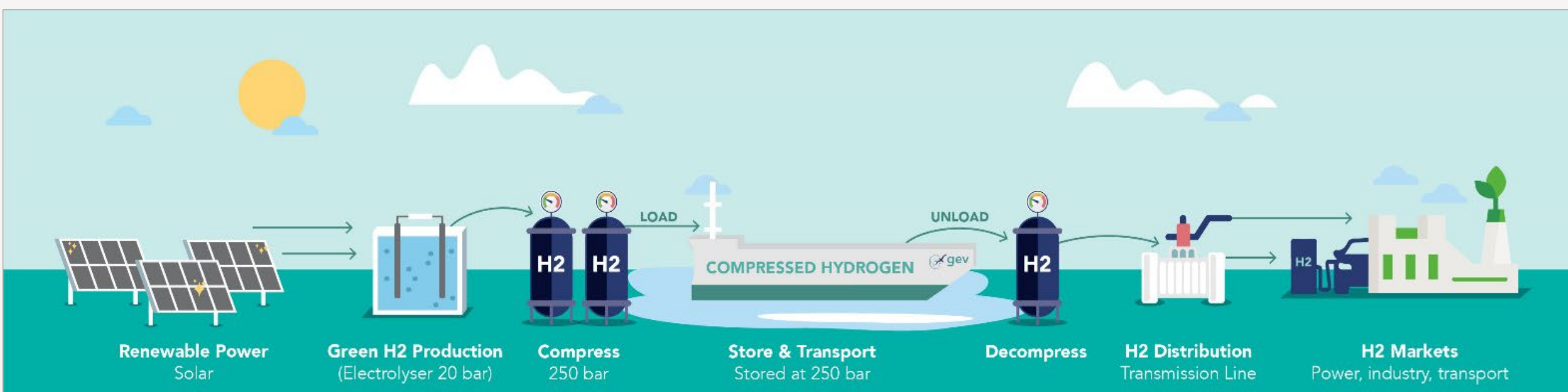
Advantages of compression

- > Proven application of compression to deliver Hydrogen at a competitive cost
- > Commercial at low volumes – does not require economy of scale
- > Small footprint compared to hydrogen liquefaction and/or ammonia facilities
- > Loading via onshore berth facilities or offshore buoy systems
- > Modular development aligns with market growth

Launch of the Tiwi Hydrogen Project is a game-changer for GEV

- > Located along the northern most part of Australia, providing a shorter regional shipping distance to the emerging hydrogen markets across Asia-Pacific, including Singapore, Indonesia, South Korea and Japan
- > Scalable nature of compression allows a staged approach to construction, with an initial development phase of ~0.5 GW of installed solar generation, expanding to 2.8 GW as the regional hydrogen market grows
- > Staged construction allows GEV and customers to benefit from the ongoing cost and efficiency improvements in photovoltaics, electrolyzers and shipping
- > Leverages the unique benefits of GEV's compressed hydrogen shipping solution, meaning no requirement for costly onshore hydrogen storage and minimal battery storage (as the production and loading of hydrogen will "load follow" the daily and seasonal solar generation profile)

Tiwi Hydrogen Project Supply Chain



2.8 GW green hydrogen export project, Tiwi Islands, NT

- > Staged approach to construction, with an initial development phase of ~0.5 GW of installed solar generation
- > Integrated with compressed hydrogen shipping provides an efficient 'pipe to pipe' export demonstration project
- > Feasibility to get underway for a FID decision in 2023 and first export in 2026
- > Support of the Northern Territory Government and Munupi land owners

STRATEGIC LOCATION

Tiwi Islands located along the northern most part of Australia providing shorter regional shipping distance to Asian export markets

TRADITIONAL LAND OWNERSHIP

Ownership has always remained with the Munupi people - a clear process to a commercial lease (Section 19) for operations

LOW ENVIRONMENTAL IMPACT

Existing plantation land for commercial use. Small scale desalination for water use and options for local water catchment

HIGH SOLAR INTENSITY

1,800 hectare solar site has been assessed to have the potential for 2.8 GW of solar generation, in a region of high solar intensity

PORT INFRASTRUCTURE

Availability of existing port capable of berthing pilot-ship and industrial precinct for installation of electrolysis and compression

LANDOWNER SUPPORT

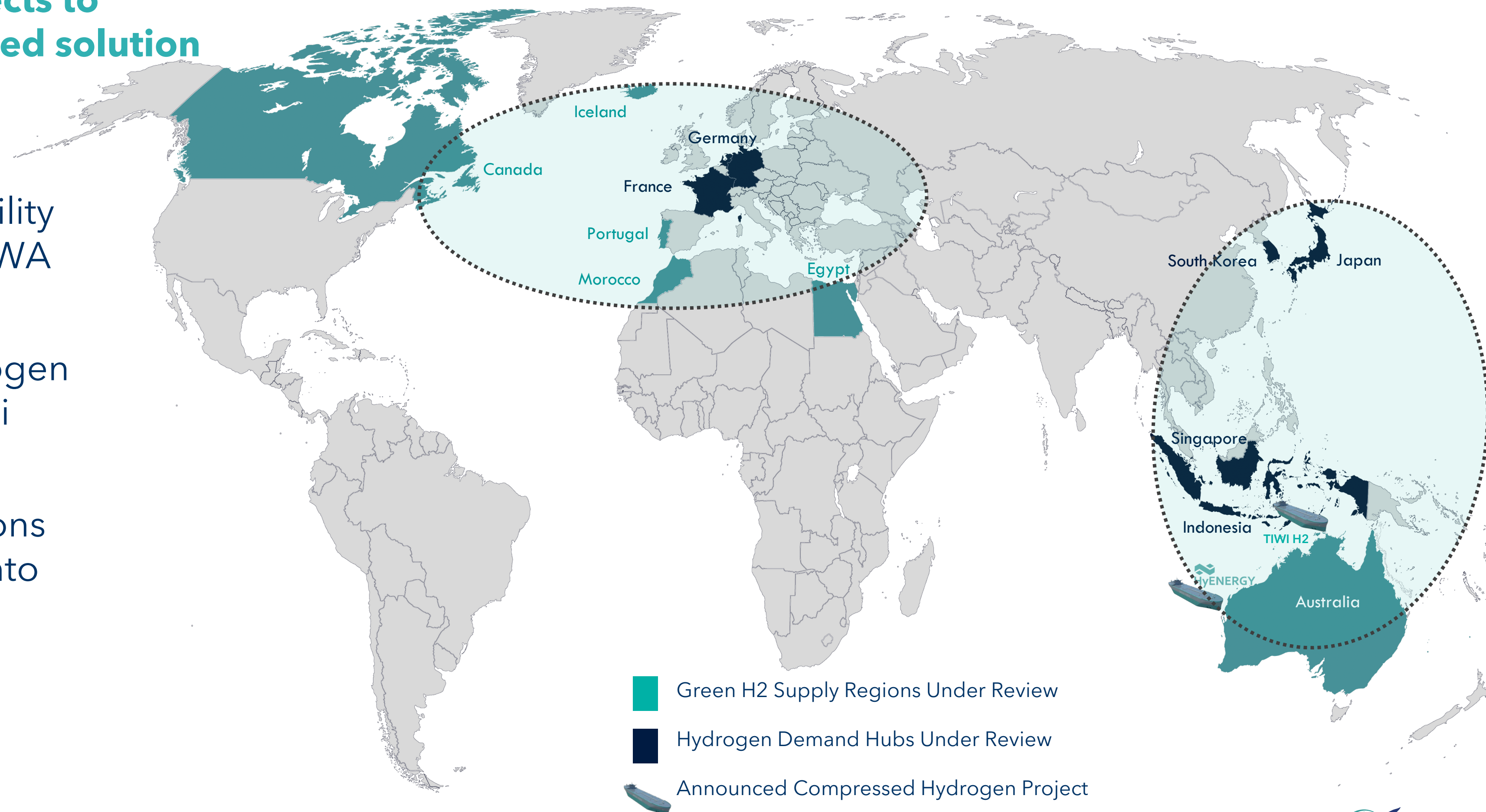
Support of the Tiwi community given new sustainable industry and long-term economic opportunities for jobs and social benefits



Global pipeline of opportunities being screened with bankable partners

Development of a portfolio of projects to position compression as the preferred solution for regional energy transport

- > First Compressed Hydrogen Feasibility announced with HyEnergy Project, WA for markets into Asia
- > Announced GEV's own green hydrogen production and export project – Tiwi Green Hydrogen Export Project
- > Screening continues on collaborations for hydrogen projects for delivery into regional markets globally



Development Timeline and Milestones

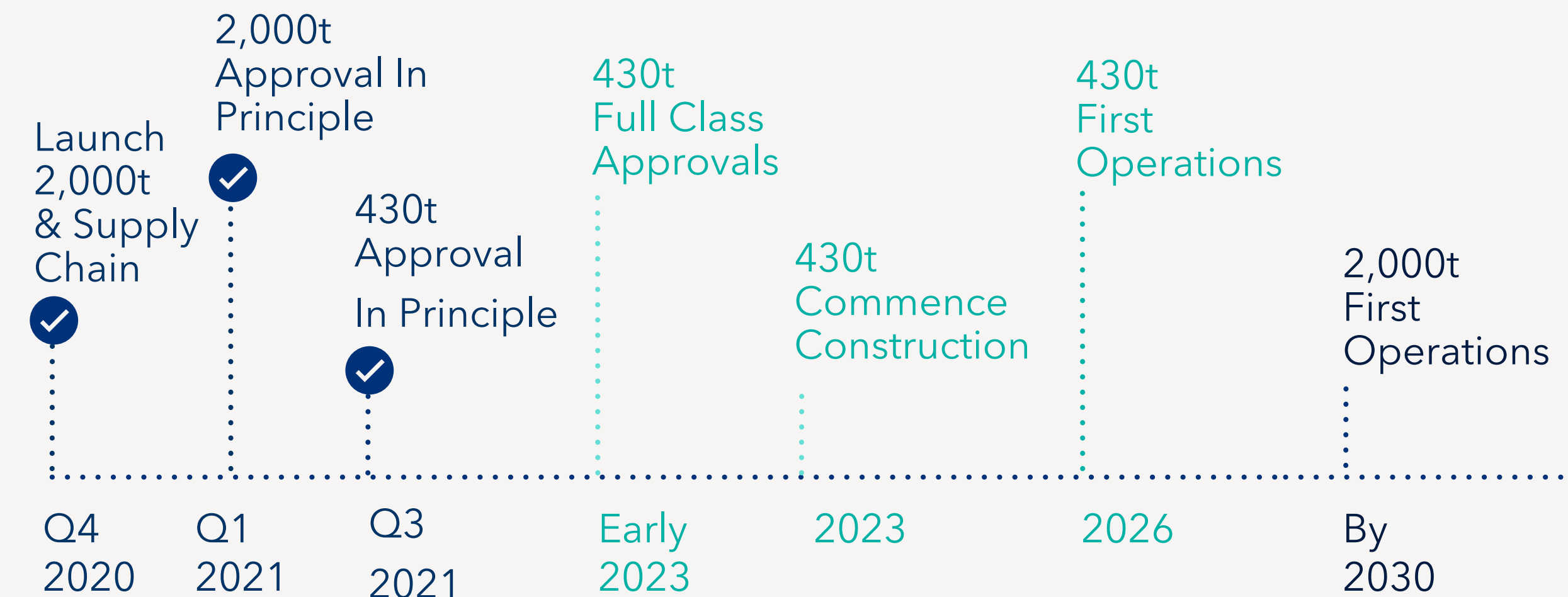
GEV positioned to be first to market for hydrogen exports

- > Targeting ship approvals for a construction decision early 2023
- > HyEnergy Project feasibility completion Q2 2022. Goal: Selection of preferred export carrier
- > Tiwi Hydrogen Project Feasibility end of 2022, for a FID decision in early 2023

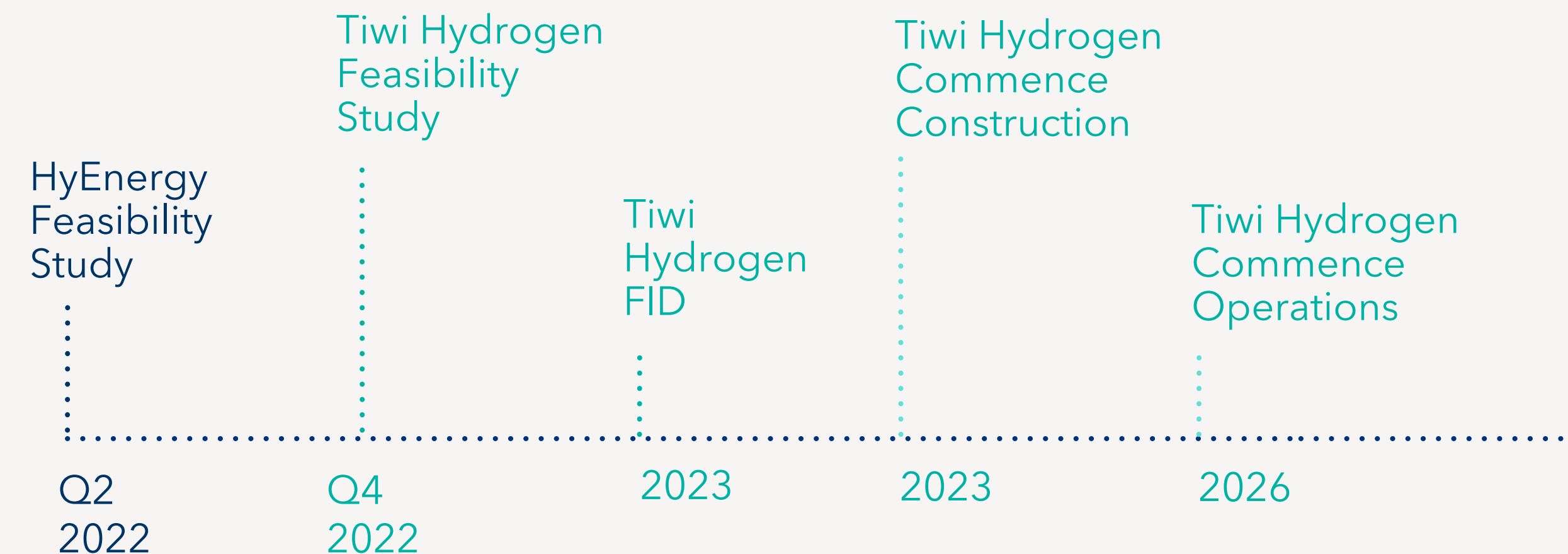
What to look out for...

- > *Collaboration with bankable third party hydrogen export projects suitable for compression*
- > *Corporate partners for the development of shipping fleet and hydrogen projects*

Ship approvals for a construction decision early 2023



Enabling our goal for exports in 2026





Creating the fundamentals for the efficient production and delivery of cost competitive hydrogen

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