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GREEN HYDROGEN ECOSYSTEM

accelerating Green Mobility

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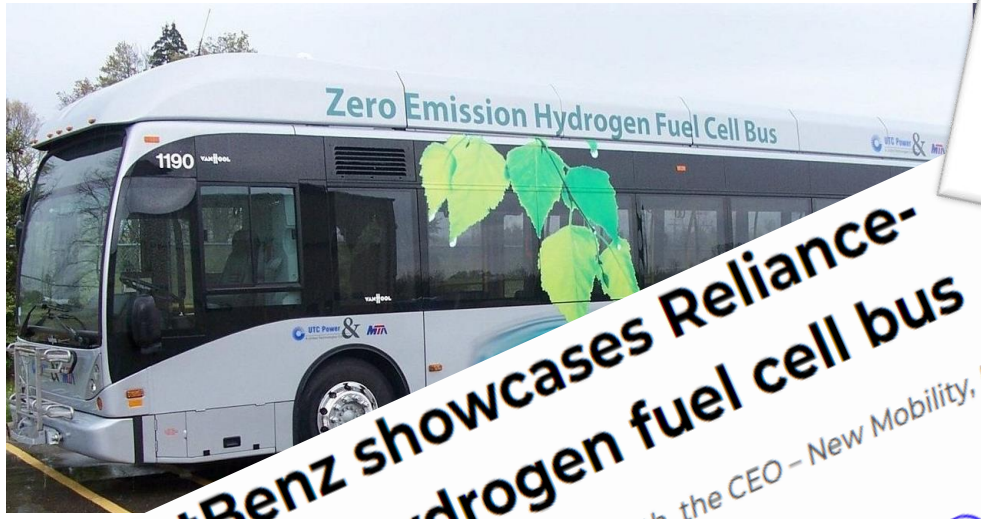
Hydrogen in Mobility Sector - Recent Developments in India



BharatBenz showcases Reliance-developed hydrogen fuel cell bus

The post was shared on LinkedIn by Nitin Seth, the CEO – New Mobility, Reliance

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India's First Hydrogen Fuel Cell Bus Service In Ladakh To Transform Transportation

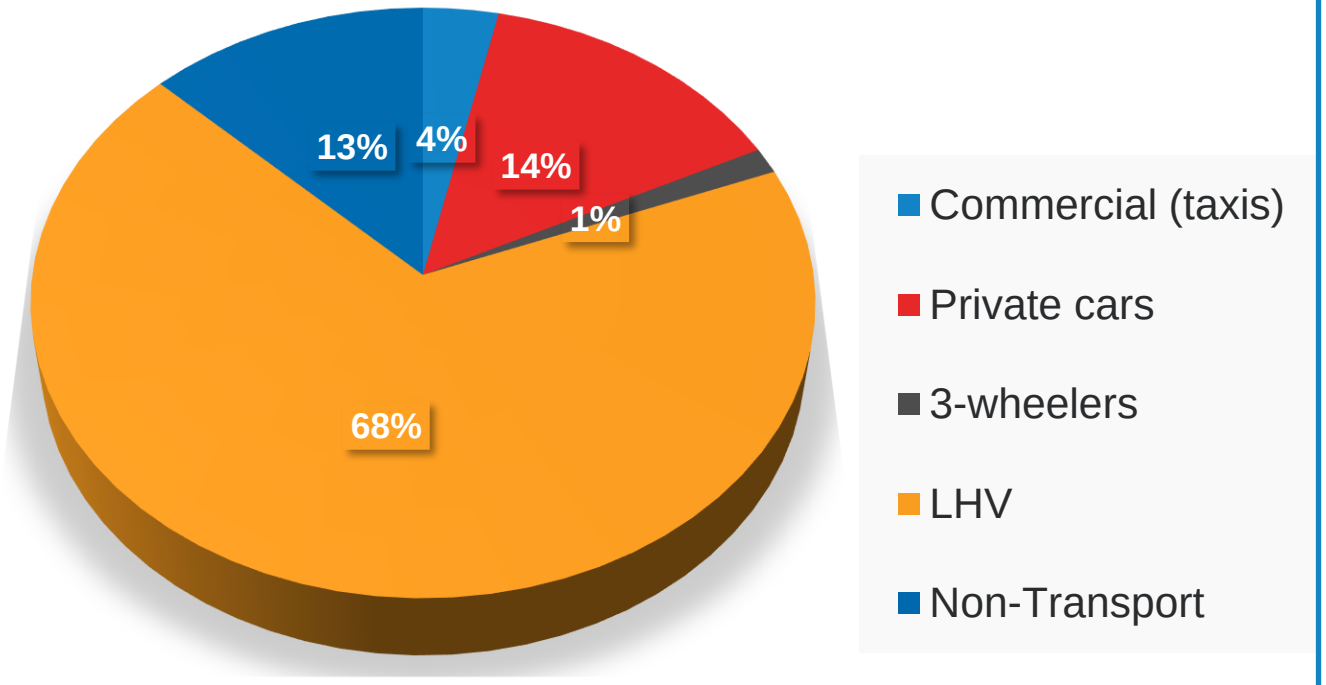
India's first green hydrogen fueling station likely to be commissioned in Leh by May next year

Ashok Leyland and Reliance unveil heavy-duty truck with hydrogen ICE technology

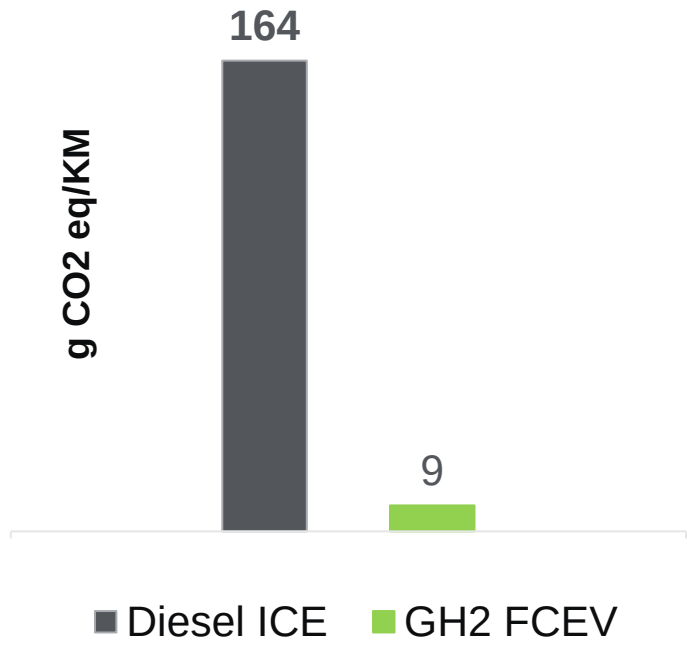
Why Hydrogen is necessary in the Mobility Sector?

India consumed 86 MMT of diesel in 2022-23 which amounted to 210 MMT of carbon emissions. Of this, long haul vehicles contributed 163 MMT.

Segment-wise breakdown of Diesel consumption (retail sales)



Transition from Diesel ICE to Green Hydrogen FCEV shall result in 95% CO2 reduction



Source: https://ppac.gov.in/uploads/rep_studies/1666932000_ExecutiveSummarySectoralConsumptionStudy.pdf

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Why Hydrogen is best fuel option in Long Haul Vehicles?

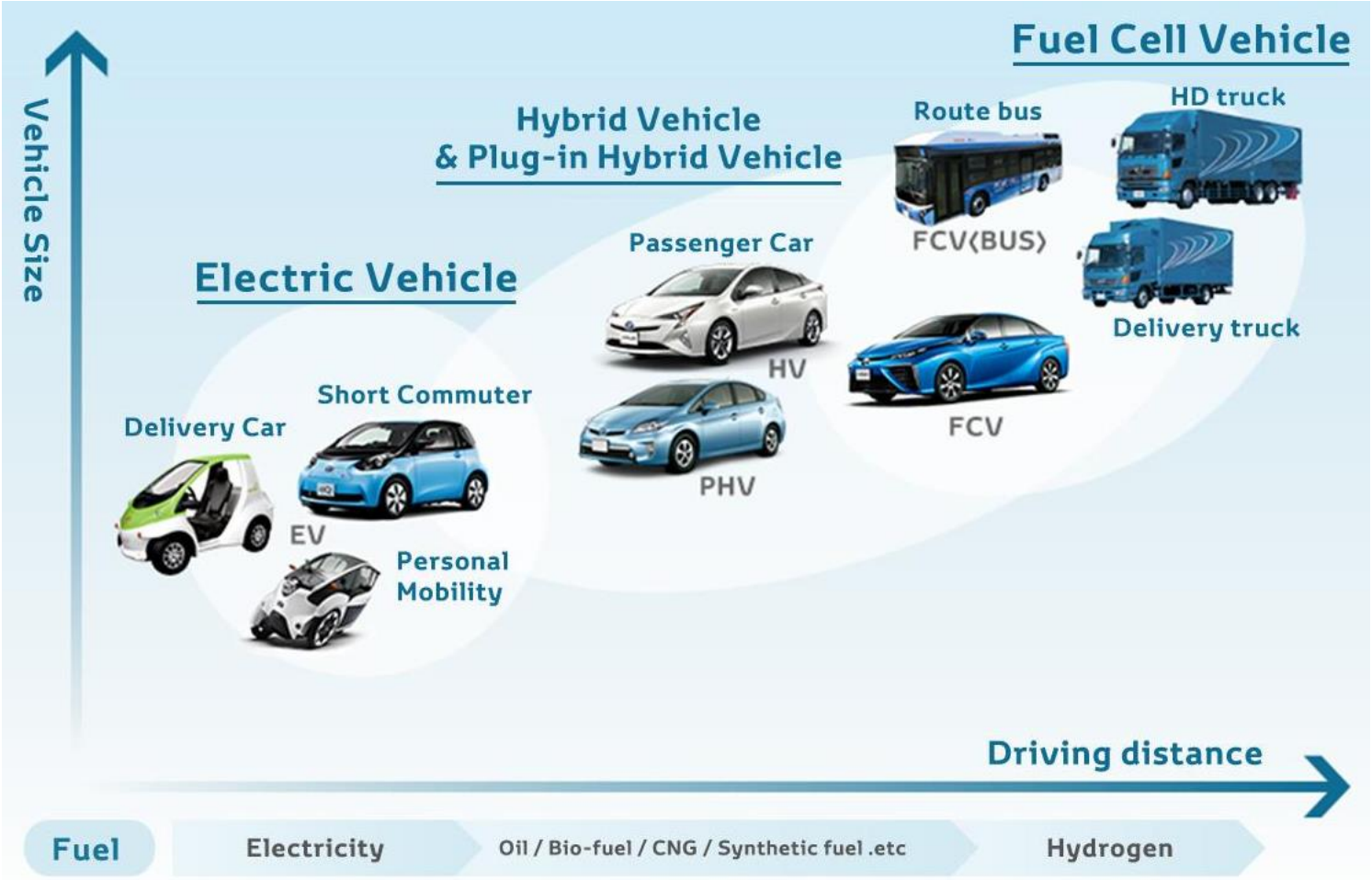
Long distances, unpredictable routes, high uptime requirements, strict driving-time regulations, and the importance of high payloads have made it particularly hard to decarbonize the LHV sector through battery storage.

Green Hydrogen FCEV:

- Faster refueling
- Greater range
- Lower weight
- No grid upgrade required

Battery EV:

- Too heavy
- Charging speeds are too slow
- Infrastructure is not yet available to directly electrify trucks on particularly challenging routes



Source: https://seekingalpha.com/article/4018696-toyota-to-produce-battery-electric-vehicles-fuel-cell-hydrogen-cars-still-alive

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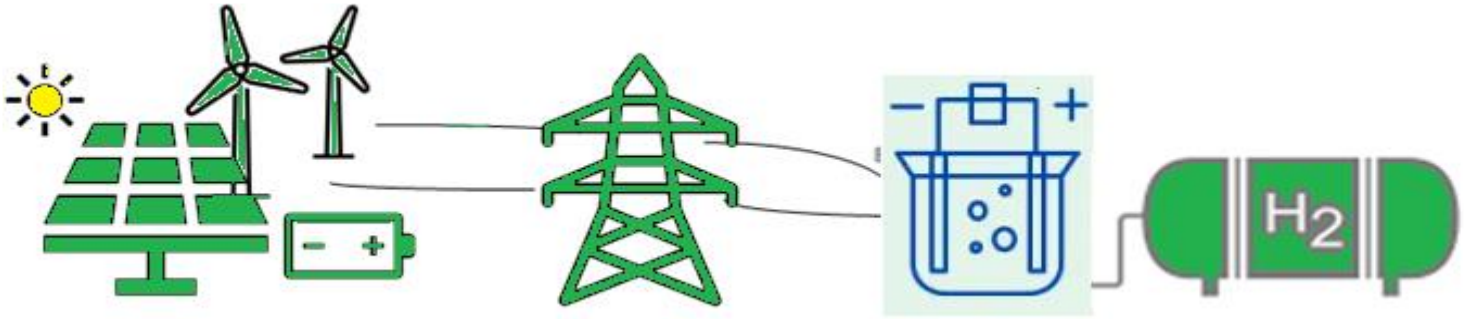
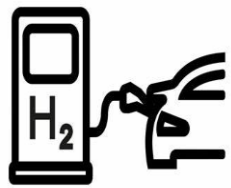
How will it be available to mobility sector?



Renewable Power

Electrolysis Process

Hydrogen Cascade/Tube-Trailer



Hydrogen Refueling Station

Hydrogen Fuel Cell

Trucks/Buses/Passenger Cars

Will use of Hydrogen make commercial sense?

Cost Break up	Notation	UoM	Values
LHV Average Daily Run	A	Km	300
Hydrogen Tank Capacity	B	Kg	8
Kilometers travelled during testing	C	KM	100
Mileage	D=C/B	Km/kg	13
Levelized cost of Hydrogen Cost (LCOH) @ 4 $/Kg	E=4*83*D	₹	332
Mileage in Diesel	F	Km/Lt	3
Diesel Requirement @ 13 KM	G=D/F	Ltrs	4.17
Diesel Cost @ 90 ₹/ltr	H=90*G	₹	375
Savings in Hydrogen per 15 Km	I=H-E	₹/13 Km	43
Savings in Hydrogen per Km	J=I/D	₹/KM	2.87
Savings per Year	K=J*A*365	Lakhs	3.01

LCOH shall decrease with Electrolyser efficiency while the Diesel price can be expected to only increase due to various carbon tax mechanism being implemented to dis-incentivise fossil fuel usage

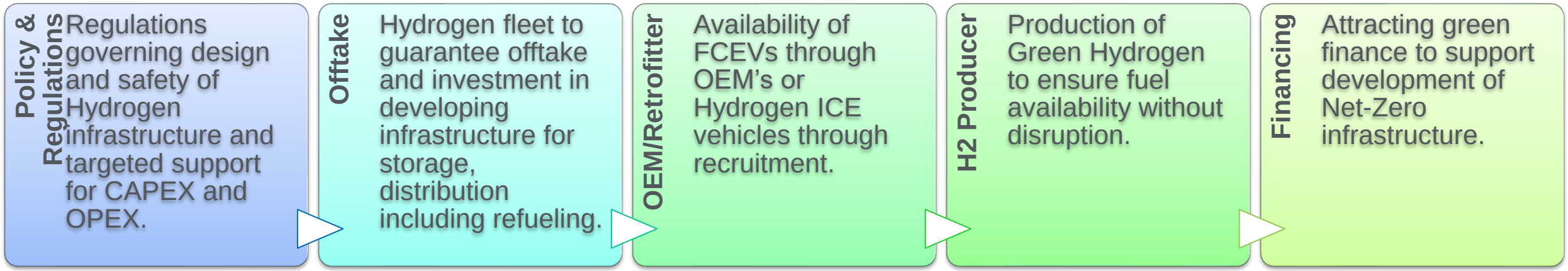
Source: Unlocking hydrogen's power for long-haul freight transport | McKinsey

What are the Challenges and Way Forward?

Major Challenges

- **Green Hydrogen availability and sourcing cost** shall determine the vehicle demand and development of refueling station
- **Develop corridor for refueling infrastructure** to ensure Point-to-Point movement of Hydrogen Fueled vehicles
- **Technology development** shall help reduce the Total Cost of H_2 Fueled Vehicle Ownership of fleet operators
- **Investment** in ramping up refueling infrastructure shall be determined by gradual increase in availability of LHVs and Buses

Way Forward: Green Hydrogen Ecosystem



ACME Group: A history of Disruption in Telecom & Energy industry

Period	2003-2009: **Telecom Infra**	2010-Present: **Solar Business**	2020-Present: **Green Fuel**
Disruption	✓ Invented fit for market products in telecom passive infrastructure space including Power Interface Unit (PIU) and Phase Change Material (PCM)	✓ India's first IPP to achieve, build and operationalize a solar power plant with subsidy free tariff of INR 2.44 INR/kWh (~3 cents/kWh)	✓ Commissioned World's first Green Hydrogen and Green Ammonia in Bikaner, Rajasthan in 2021 producing 5TPD of Green Ammonia
Impact	✓ Up to 70% reduction in telecom tariffs on account of energy savings contributing to lowering calling rates from $0.20/minute to $0.07/minute 	✓ ACME's $0.03/kWh tariff broke the grid parity barrier for renewable power making it cheaper compared to average cost of thermal power by around 25% and accelerated adoption in solar power in India with 60 GW of present capacity and another 100 GW under-development 	✓ Proof of concept as allowed for regulatory and policy push for adoption of Green Ammonia/Hydrogen in India ✓ Execution experience enabling optimisation of design and operations for large scale Green Ammonia/Hydrogen plants 

Vision — Top 3 Green Energy producers in the World, portfolio of 10 MTPA of Green NH3/ H2 by 2030

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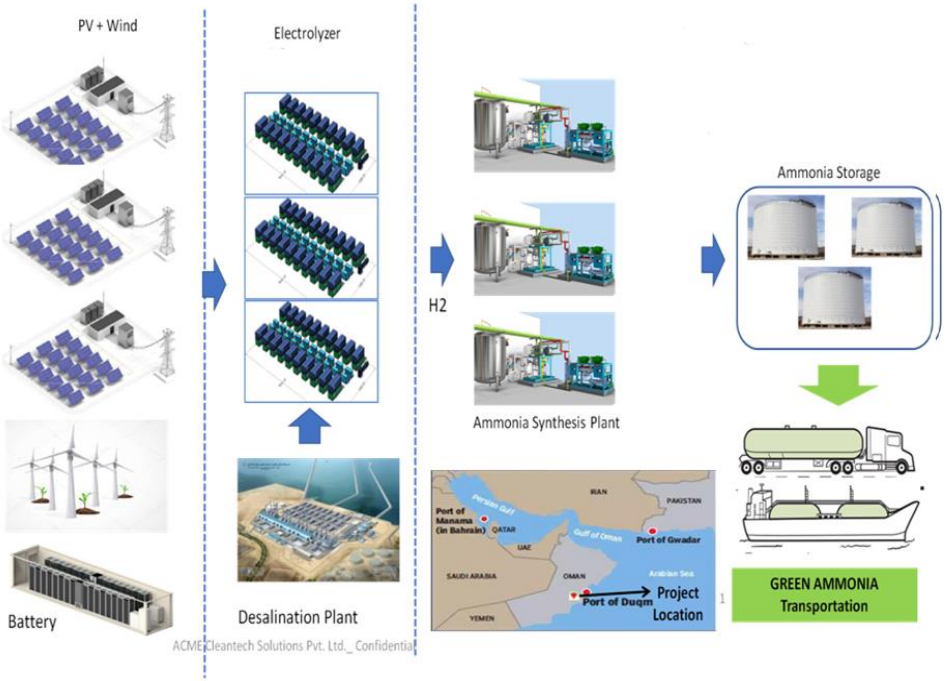
Green Ammonia Projects Pipeline: Oman – First Commercial Scale Project

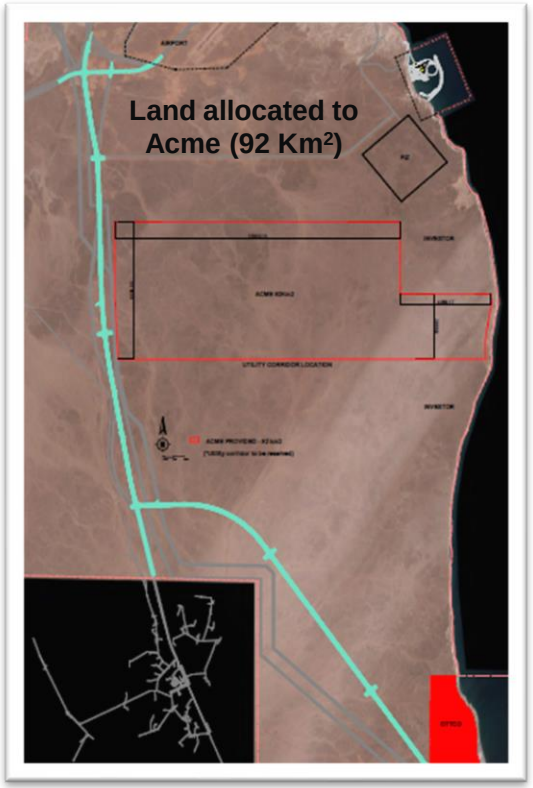
ACME is developing one of the World's earliest Green Ammonia project in port of Duqm, Oman

- Land Acquired ✓
- Statutory Approvals ✓
- Off-take Term Sheet ✓
- Offtake Agreement: Final Stage
- Ammonia Technology: Order Placed
- Jetty: Order Placed
- Ammonia Storage Tank: Order Placed
- ESIA: Approved
- Construction Permit: Granted
- Construction of Basic Infrastructure: Stated

✓ FC achieved: Jul'23
✓ COD: Dec'24 – Jun'25

Green NH3 – ~ 1.2 MTPA (Phase 1 and 2) | Investment – USD 6 billion





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Green Ammonia Projects Pipeline: Other Geographies

Tamil Nadu

Project Capacity – 1.1 MTPA

- MoU signed in July 2022
- The project will be set up at the port town of Thoothukudi
- The project will comprise 5,000 mw of solar PV plant, 1.5 GW of the electrolyser and 1.1 million tons of ammonia synthesis loop

- ✓ Government Benefits and Grants
- ✓ Land Identified, due diligence in progress
- ✓ Under development

Odisha

Project Capacity – 1.1 MTPA

- MoU signed in 2022
- To set up a 1.2 MTPA Green Hydrogen & Green Ammonia project.

- ✓ Government Benefits and Grants in progress
- ✓ Land Identified, due diligence in progress
- ✓ Under feasibility

USA

Project Capacity ~1.1 MTPA

- Focus on Texas
- Multiple Options identified for RE / Process Plant Land
- Pre - Feasibility Studies under process

- ✓ Land Identified, due diligence in progress
- ✓ Under feasibility

Egypt

Project Capacity – 2.1 MTPA

- MoU Signed in August 2022
- Total production capacity: up to 2.1 MTPA of Green Ammonia at Ain Sokhna, Egypt

- ✓ MOU Signed
- ✓ Land Identified, due diligence in progress
- ✓ Under feasibility

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Thank You