



First-Generation Green H2 Project Development & Funding 2023-25



# Building India's Hydrogen Economy

Proposed 25/25 Development Plan for National Green H2 Projects, Hubs

# National 25/25 Green H2 Development Plan – 25 H2 hubs + projects by 2025

First-Generation National Green H2 Projects to accelerate commercialisation, learning rates, induce demand at critical scale

Scalable, Co-located National Green H2 Hubs, Projects using RE-Electrolysis, Gasification across RE-rich coastal states

**18 GH2 Bharat Hubs (with RE-Electrolysis)**  
Industrial, Heavy-Duty Transport Offtake, each potentially scalable to GW capacity

**7 Green H2 Bharat Cities - Waste-to-H2 Municipal Projects (with Gasification)**  
Local Industrial, Municipal Transport Fleets

**25 National Green H2 Bharat Projects by 2025**  
150 MW Installed Electrolyser Capacity  
Green H2 Use in Industrial, Heavy Duty Transport  
Future Coastal Shipping, Land Transport (Liquid, Gas)

## Five Key Enablers



National Green H2 Dev Corp (NHDC) & Public-Private Taskforce



State Green H2 Plans, Nodal Office



Project Dev SPVs, Consortia



Public Funding/ Infra, National Innovation Status



National Testing/ Certification, Standards, Skilling

# First-Generation National Projects (Phase I) – 18 Green H2 Hubs, 7 H2 Cities

26K+ tonnes Green H2 Induced Demand pa. with USD 360 mn Public Spend over 3 years, 2.6 Mmt CO2 reduction in a decade

Twelve 10-MW Green H2 Industrial Hubs– USD 240 mn public finance (USD 120mn Electrolyser CAPEX\*+ USD 36mn pa OPEX price subsidy @USD 2/kg) for 18,000 tonnes pa

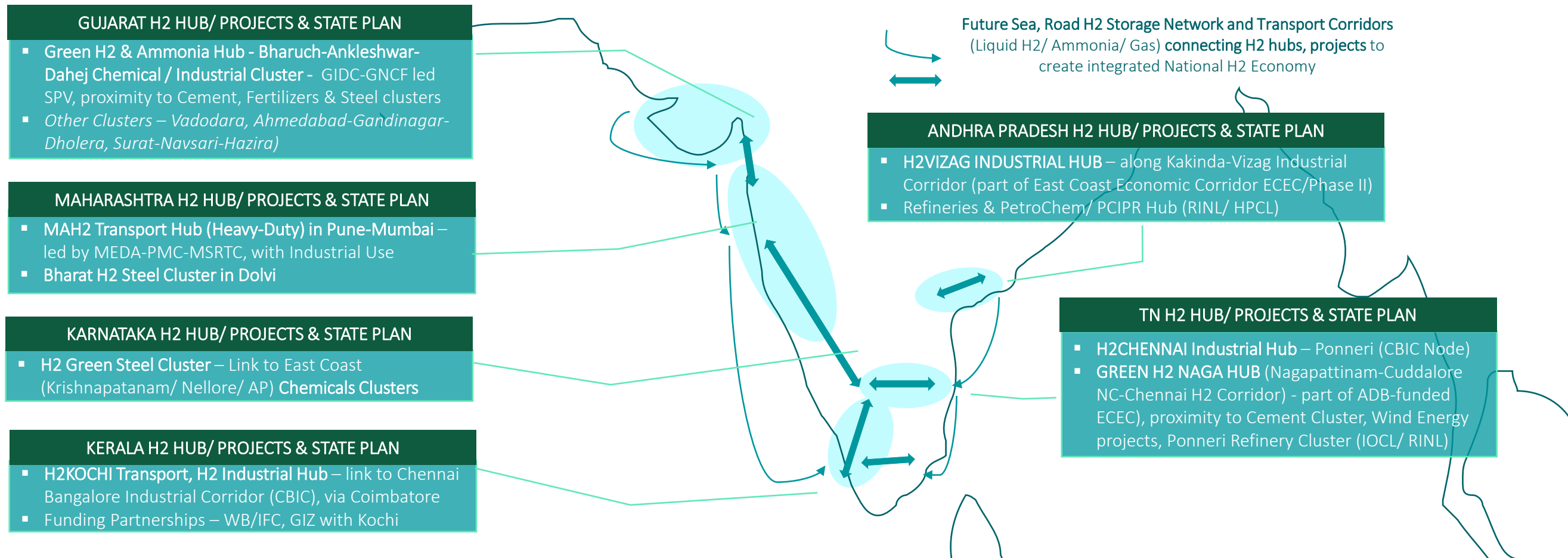
Three 5-MW Green H2 Transport Hubs– USD 30 mn public finance (USD 15mn Electrolyser CAPEX Support + USD 4.5 mn pa OPEX price subsidy @ USD 2/kg) for 2250 tonnes pa

Three 5-MW H2-CGD Network Hubs – USD 30 mn public finance (USD 15mn Electrolyser CAPEX Support + USD 4.5 mn pa OPEX price subsidy @ USD 2/kg) for 2250 tonnes pa

Seven Distributed Waste-to-H2 Projects – USD 56 mn public finance (USD 35mn for 25% Capex Support^ + USD 7 mn pa OPEX price subsidy @ USD 2/kg) for 3500 tonnes pa

PHASE I	150 MW Green H2 production capacity by 2025; 26,000 tonnes pa. industrial offtake; scalable	PHASE II	500 MW+ Green H2 production capacity
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*\*est. USD 1mn per MW Electrolyser + BoP costs (based on Electrolyser tech chosen at project-level); ^est. USD 20 mn for 30 tonnes/day Waste-to-H2 plant*

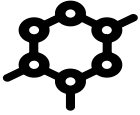






# Five Key Enablers - National 25/25 H2 Development Plan

Accelerating H2 commercialisation – priority actions

## KEY GOVT ACTIONS

## KEY INDUSTRY ACTIONS

 <p>National H2 Dev Corp (NHDC), Public-Private Bharat H2 Taskforce</p>	<p><b>NHDC as Public-Private, Non-Profit; National H2 Development Roadmap &amp; Implementation</b>          10% equity Central Govt, State Govts, Industry Champions (akin to NPCI)  <b>Align Commercialisation Plan, 2030 Mission Document to National RE, EV Plans</b></p>	
 <p>State Green H2 Plans, Projects Nodal Office</p>	<p><b>State Green H2 Policy and Hub Dev Plans</b>          Nodal Office, CMO support for First-Gen H2 Projects</p>	<p><b>Industrial ‘Producers-Offtakers’ Matching</b>          State-Level Champions, Govt identify first-gen Green H2 hubs/projects at local level</p>
 <p>Project Dev - SPVs, Consortia</p>	<p><b>‘National’ Status, Incentives for 25 H2 Hubs, Projects</b>          Guaranteed Offtake (public and private); Value Chain Focus across Production, Storage, Uses; State Govt Support</p>	<p><b>Project Consortia/ SPV Formation</b>          Industry Champions lead on Project Scoping, Pre-Feasibility - with Industrial Dev, Energy Departments</p>
 <p>Public Funding, National Infra Innovation Project status</p>	<p><b>3-yr USD 360 mn, ‘Green H2 Project Dev’ Public Funding</b>          Tax Incentives, VGF, USD 2/kg price support for 25 First-Generation projects</p>	<p><b>Investments into First-Gen National Projects</b>          Electrolysers, Components, BoP, Storage, RE-Integration, Transport, Compression/Liquification &amp; Dispensing</p>
 <p>National Standards, Testing/ Certification, Skilling</p>	<p><b>Green H2 Safety Certification &amp; Testing Agency</b>          Production, Storage &amp; Transport (LH2, Gas), Compression/Liquification, Dispensing, Handling/Training – First-Gen National H2 Projects for improving ‘learning rates’; Project Risk Assurance/ Insurance (link to technical standards)</p>	



# Proposed USD 360 mn National Green H2 Public Spend over 3-years

How does it compare with global jurisdictions

USD 360 mn Public Spend for CAPEX (Electrolyser, BoP), Green H2 Pricing Support (USD 2/kg) next 3 years (2023-25) enables **national innovation and learning**.

GREEN H2 PUBLIC FUNDING – HUBS/ LARGE PROJECTS	
JAPAN	USD 19 BN
GERMANY	USD 10 BN
FRANCE	USD 8.2 BN
UNITED STATES/ USA	USD 8 BN
KOREA	USD 2.4 BN
AUSTRALIA	USD 1.4 BN

- Public funding of first-gen projects critical for **1) inducing Green H2 demand, 2) create matching supply-side linkages** – enable national hydrogen economy.
- Domestic manufacturing (Make-in-India)** ambition for Electrolysers, Balance-of-Plant (BoP), Storage/ Transport (Liquid, Gas H2) and Dispensing Equipment.
- Global climate finance/ funds, sovereign green bond allocation to be dedicated for 25/25 National Green H2 Commercialisation & Hub Dev Plan.**

India public funding commitments for Green-H2 Industrial Decarbonisation Project Development should be increased progressively, target **USD 1 bn National Green H2 Decarbonisation Funding, post first-phase (first-gen)** i.e. within 2025-30 period

First-Generation  
**25/25 National  
 Green H2 Project  
 Development Plan**

**25 National Green H2 Hubs<sup>^</sup>**

12 Industrial Hubs (across  
 Chem/Fert, Steel, Refineries), 3  
 Transport Hubs, 3 CGD Networks, 7  
 Municipal Projects

**150 MW Electrolyser Capacity<sup>^</sup>**

**USD 360 mn, 3-year Public  
 Finance Support**

**NHDC, Bharat H2 Taskforce**

Project Dev National Learning  
 Metrics, Milestones Sharing



**40MW National Green Chem Hubs**

Four 10MW Green H2, NH3/Fert. Hubs  
 Ankleshwar-Bharuch-Dahej/GUJ\*  
 Pune-NhavaSheva/ MAH  
 Nellore OR Vizag/ AP  
 Chennai/ TN



**40MW H2 Bharat Steel Plants**

Four 10MW GreenH2 Steel Plants  
 Bellary/KAR\*  
 Hazira/ GUJ  
 Dolvi/ MAH  
 Vizag/ AP



**40MW H2 Refineries**

Four 10MW GreenH2 Refineries  
 Jamnagar or Vadodara/GUJ  
 Mumbai/MAH  
 Kochi/KER  
 Vizag/ AP



**15MW Green Transport Hub\***

Three 5MW Heavy-Duty Transport  
 MAH2 Mumbai-Pune/MAH\*  
 KochiH2-Coimbatore/KER-TN  
 Vizag/ AP



**15MW H2-CGD Networks\***

Three 5MW H2-CGD Networks  
 Indore CGD/ MP\*  
 Pune CGD OR Nagpur CGD/ MAH  
 Vadodara CGD/ GUJ



**Waste-to-H2 City Projects**

Seven Municipal Projects  
 Pune\*, Nagpur, Mumbai, Delhi,  
 Bangalore, Chennai, Ahmedabad



**H2 Storage & Transport Supply Chain Network**

Storage-Transport-Regeneration Network at Ports - sea,  
 land transport corridors (in Phase II)

*\*indicative project SPV structures; project locations in following slides, SPV contracting and pre-feasibility to include RE-Integration, transmission  
<sup>^</sup>over and above individual private sector project development and investments*

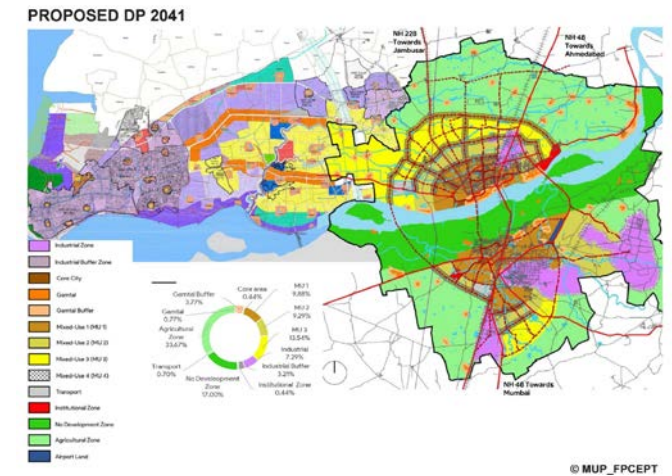
# A. 10 MW GUJ GREEN CHEM HUB - INDUSTRIAL GREEN H2 & NH3

H2 replacement by Chem/ Fert Industrial Units in Bharuch-Ankleshwar-Dahej – Production-Storage-Use SPV

**Decarbonize Industrial Chemical /Fertilizer Hub (replace Grey H2) with USD 20 mn public finance (USD 10 mn CAPEX (Electrolyser + BoP), USD 3 mn pa OPEX Green H2 price subsidy @USD 2/kg), delivering 1500 tonnes/annum, saving 15,000 tonnes CO2/annum over 3 years - with Govt of Gujarat support**

## GUJARAT GREEN CHEM HUB / INDUSTRIAL GREEN H2 AND AMMONIA – PUBLIC-PRIVATE PARTNERSHIP/ SPV

- Decarbonize Chemical/Fertilizer Industrial Units, with GIDC (Ankleshwar Industry Association, AIA) – with Green H2 infra, offtake and production master dev plan, to reduce emissions, improve AQI (136)
- BAUDA Industrial Decarbonisation Economic Research and Demand Projection study to be undertaken, as part of pre-feasibility and chemical/fertilizer decarbonisation study
- Decarbonizing targets/metrics of participating units, through GIDC, and provide incentives to units that opt-in
- State Green H2 and Ammonia Plan – align to State Industrial Decarbonisation and RE-EV-H2 plan
- Target 10MW Electrolyser Capacity, scalable to 20 MW – Joint SPV Ownership by Producers, Offtakers with Pricing Subsidies; potential to scale up to cater to industrial clusters in Vadodara, Surat-Hazira-Navsari, replicable format for 12 national clusters



### GUJARAT GREEN CHEM H2 & AMMONIA HUB – STATE GOVT PARTICIPANTS



### GUJARAT GREEN CHEM H2 & AMMONIA HUB – INDUSTRY PARTICIPANTS



### DEMAND SIDE ACTORS - INDUSTRIAL/ CHEMICALS OFFTAKERS

- FERTILIZER/ GREEN AMMONIA - IFFCO, Deepak Nitrate/ Fert & Chem, Guj NarmadaVal Fert & Chem(GNFC), UPL
- GREEN H2/CHEMICAL INDUSTRY - Kanoria Chem, Khaitan Chem, Rallis, SRF, Atul, Arihant Chem, Bharat Rasayan

### SUPPLY SIDE ACTORS - RE-H2, AMMONIA PRODUCTION-STORAGE

- RE PLAYERS - Borosil Renewables, ONGC Solar, Azure Solar, Rallis Solar, KP Solar, Tata Solar
- STORAGE PLAYERS – Chart Industries

\*names are indicative and for reference only

# B. 10 MW H2BHARAT STEEL PROJECTS

H2Bharat Steel Production – H2-DRI/ EAF, DirectH2-BFs in Integrated Steel Plants (Karnataka, Gujarat, Maharashtra)

**Decarbonize Steel (replace Grey H2) with USD 20 mn public finance support (USD 10 mn CAPEX (Electrolyser + BoP) and USD 3 mn pa OPEX Green H2 price subsidy @USD 2/kg) for 1500 tonnes H2 per annum, saving 15,000 tonnes CO2 per annum over three years, replace Coking Coal imports**

## H2BHARAT STEEL PROJECTS

- H2Bharat Steel Cluster Development & Research Institute – affiliated to School of Mines, Dhanbad/ IIT-Mumbai/IIT-Chennai, with support from Indian Steel Association (ISA), Steel Majors (JSW, Tata Steel, SAIL, ArcelorMittal, Rashtriya Ispat), Ministry of Steel
- Four National H2Bharat Steel Demonstration plants – JSW, SAIL, RINL, Tata Steel, AM – identified as First Generation Green H2 projects, supported by incentives, pricing support/subsidies for 3-year Green H2Bharat Steel support plan
- Progress of all four plants, H2Bharat Steel outputs reviewed annually, by NHDC, H2 Bharat Taskforce; eligible for production-incentives
- Resource/investments to be incurred by Finalized Majors Steel Players, eligible for incentives (production/investment-linked, price subsidies), estimated to be located in Karnataka, Maharashtra and Gujarat

### H2BHARAT STEEL PROJECTS – GOVT PARTICIPANTS



### H2BHARAT STEEL PROJECTS – INDUSTRY PARTICIPANTS



*\*names are indicative and for reference only*



# C. 10 MW H2BHARAT REFINERY HUBS

H2Bharat Refineries – Green H2/ Ammonia Use-Production in Integrated Refineries (Guj, Maharashtra, AP, Kerala)

**Decarbonize Refineries (replace Grey H2) with USD 20 mn public finance support (USD 10 mn CAPEX (Electrolyser + BoP) and USD 3 mn pa OPEX Green H2/ Ammonia price subsidy @USD 2/kg) for 1500 tonnes H2 per annum, saving 15,000 tonnes CO2 per annum over three years**

## H2BHARAT REFINERY PROJECTS

- Decarbonize Identified Refinery Units, with MoPNG – with Green H2/Ammonia infra, offtake and production master dev plan, to reduce emissions
- Refinery Decarbonisation Economic Research and Demand Projection study to be undertaken, as part of pre-feasibility and refinery decarbonisation study; track decarbonizing targets/metrics of participating units, through GIDC, and provide incentives to units that opt-in
- Target 10MW Electrolyser Capacity, scalable to 20 MW – Joint SPV Ownership by Producers, Offtakers with Pricing Subsidies; potential to scale up to cater to refineries, replicable format across all refineries over time
- Four National H2Bharat Refinery plants – RIL, Nayara, ONGC, BPCL, HPCL, IOCL – identified as First Generation Green H2/Ammonia projects, supported by incentives, pricing support/subsidies for 3-year Green H2Bharat Refinery support plan
- Progress of all four plants, H2Bharat Refinery outputs reviewed annually, by NHDC, H2 Bharat Taskforce; eligible for production-incentives
- Resource/investments to be incurred by Finalized Majors Refiners, estimated to be located in Gujarat, Maharashtra, Kerala and Andhra Pradesh.

### H2BHARAT REFINERY PROJECTS – GOVT PARTICIPANTS



### H2BHARAT REFINERY PROJECTS – INDUSTRY PARTICIPANTS



# D. 5 MW MAH2 GREEN TRANSPORT HUB

Green H2 Offtake - Heavy-Duty Truck, Forklift Fleets (Public-Private) – 5 MW H2 Production-Storage-Use SPV

**Decarbonize 150-strong Heavy-Transport Fleet to cut vehicular emissions,– with USD 10 mn public finance support (USD 5 mn CAPEX (Electrolyser + BoP) and USD 1.5 mn OPEX Green H2 price subsidy USD 2/kg) for 750 tonnes pa, for 3 years - with support from Govt of Maharashtra**

- MAH2 TRANSPORT WORKGROUP – PUBLIC-PRIVATE PARTNERSHIP**
- Pune H2 Cluster Development & Research Institute – affiliated to NCL, MEDA (akin to Automotive Cluster Dev and Research Institute)
  - Engineering Research and Skills/Capacity Dev, and Zero-Emission Transport (FCEV+EVs) – with IIT-Mumbai, MIDC-units in Mumbai-Pune region
  - H2 Storage & Handling/Skilling CoE (Liquid H2, Compressed Gas) – with Safety/Certification Unit – NCL (proposed)
  - Add Heavy-Duty FCEVs Trucking to State EV Policy – akin to California Zero Emission Vehicles (ZEV) policy; RE-EV-H2 inclusion in State Clean Air Programme – to cut emissions
  - State Green H2 Plan – align to State Industrial Decarbonisation and RE-EV-H2 plan, replicable across industrial clusters - Economic Research and Projections/ State Targets
  - Target expansion to 10 MW – Joint SPV Ownership by Producers and Users/ Offtakers, with Green H2 Price Subsidies; potential to scale up to cater to industrial clusters + heavy-duty transport in Navi Mumbai, Mumbai, Nhava Sheva

**MAH2 WORKGROUP – STATE GOVT PARTICIPANTS**



**DEMAND SIDE ACTORS – HEAVY DUTY TRANSPORT**

- HEAVY DUTY TRANSPORT OEMs/ FLEETS - Tata Group, Mahindra, KPIT, Toyota Kirloskar, Bosch

**MAH2 WORKGROUP – INDUSTRY PARTICIPANTS**



**SUPPLY SIDE ACTORS - RE-H2, PRODUCTION**

- RE PLAYERS - Maha GenCo, Mytrah, Powercon, JSW Energy

*\*names are indicative and for reference only*

# E. 5 MW GREEN H2 - CGD BLENDING PROJECT

5-15% H2 Blending in CGD Network – with existing CGD pipeline infrastructure - 5 MW H2 Production-Storage-Use SPV

H2-Blending in CGD Network (5-15%), with USD 10 mn public finance support (USD 5 mn CAPEX (Electrolyser + BoP), USD 1.5 mn Green H2 OPEX price subsidy (USD 2/kg) for 750 tonnes pa, for 3 years

- GREEN H2 BLENDING IN CGD NETWORKS – PUBLIC-PRIVATE PARTNERSHIP**
- Scaling up GAIL Indore Pilot – current pilot at Indore with GAIL (1% blending/ 100 kg/day to be scale subsequently to 5-15%)
  - Target 5 MW Electrolyser Capacity expansion to 10 MW – by CGD Operators, Incentives to purchase from co-located Green H2 production facilities (captive, RE players)
  - Expand H2 Blending in CGD Network to at least 3 CGD Networks within 3 years

## BHARAT H2-CGD BLENDING PROJECT – GOVT PARTICIPANTS



## BHARAT H2-CGD BLENDING PROJECT – INDUSTRY PARTICIPANTS



*\*names are indicative and for reference only*

## F. NATIONAL ‘GREEN H2CITIES’ – MUNICIPAL WASTE-TO-H2 PROJECTS

Ahmedabad, Pune, Mumbai, Nagpur, Kochi, Bangalore, Indore - Waste-to-H2 plants, guaranteed waste feedstock and offtake

**GREEN H2CITIES** (Clean H2 classification with Waste-to-H2 plants) with **USD 8 mn/city or USD 56 mn public finance support** across 7 cities for 3-years (USD 5 mn CAPEX @ 25% 30-tonnes/day waste processing plant; USD 1 mn pa price subsidy per city), with guaranteed offtake of 500 tonnes pa

### NATIONAL GREEN H2CITIES INITIATIVE – PUBLIC-CIVIC/PRIVATE COLLABORATION IN IDENTIFIED CITIES

- Distributed Green H2 production at city-level for public awareness and support, initiative on addressing Clean Air issue
- 2-3 Use-Cases to be identified, executed with Municipal Bodies – showcased as part of National Green H2Cities Programme during G20 Presidency 2023
- Safety certifications/ testing from central/technical agency, prior to use
- Programme to be reviewed and incentivised – recognition of municipalities that achieve/cross Green H2 production and use in respective municipalities
- Oversight by Ministry of Urban Affairs (MUA) - with city/municipal stakeholders, civil society, industry champions at local level

#### GREEN H2CITIES INITIATIVE – GOVT PARTICIPANTS



#### GREEN H2CITIES INITIATIVE – INDUSTRY PARTICIPANTS





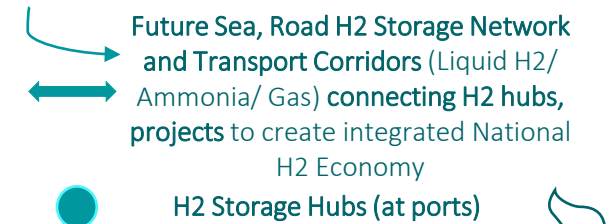
# G. NATIONAL H2 STORAGE & TRANSPORT – SUPPLY CHAIN NETWORK

Port-Linked H2 Storage, Transport and Re-Generation Network (to be taken up in Phase II)

**H2 STORAGE NODES AT KEY PORTS – connected BY SEA/LAND TRANSPORT CORRIDORS - WITH RE-GENERATION FACILITIES – flexible, national H2 supply chain and economy to cater to different H2 in its forms (Liquid H2, Compressed Gas, Ammonia, LOHC)**

## NATIONAL H2 STORAGE – TRANSPORT – RE-GENERATION NETWORK

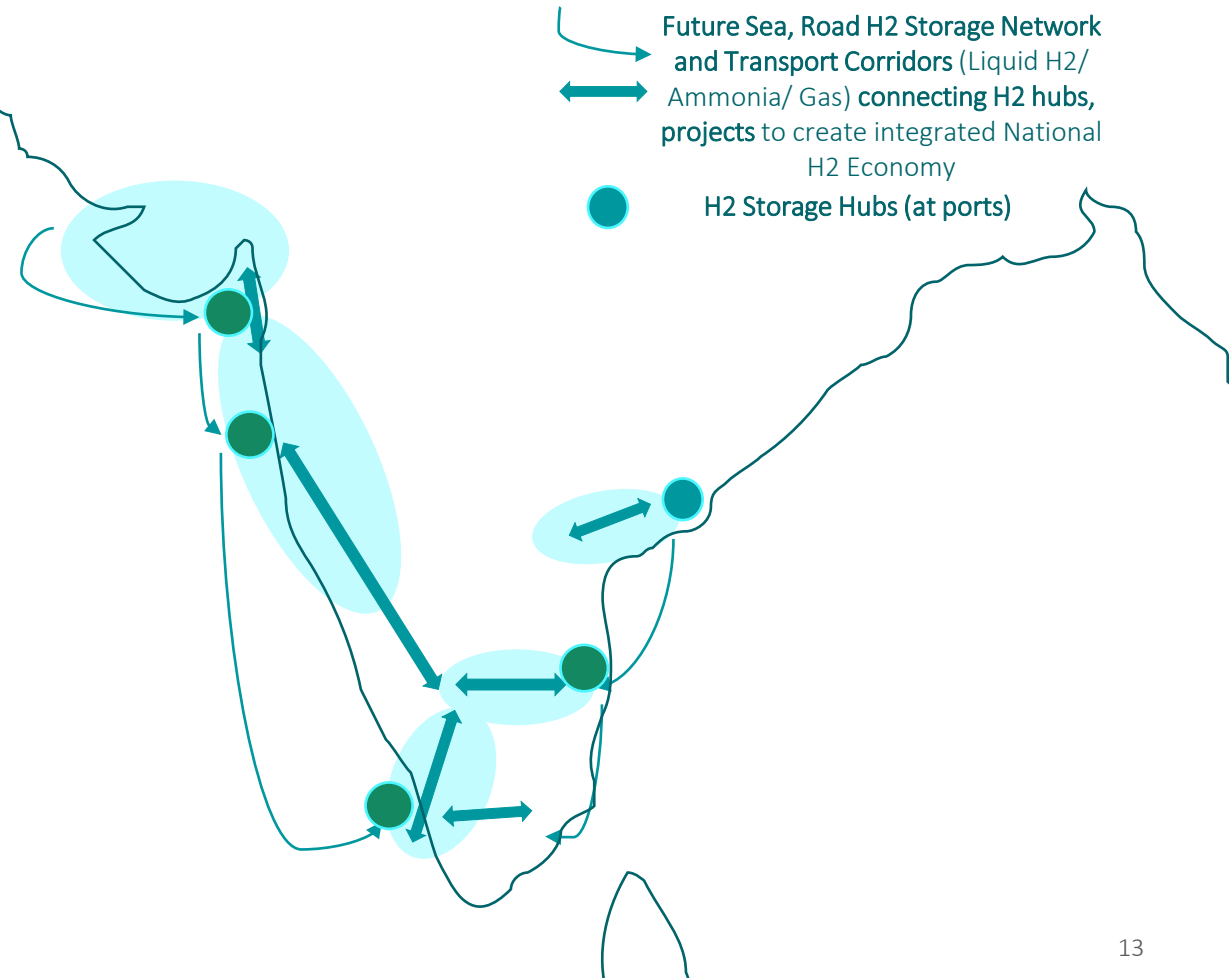
- National H2 Storage and Transport Network – plan for national H2 supply chain
- Allows for flexibility across different forms of H2 (compressed gas, liquid H2, ammonia, LoHC), and improved learning curves
- Create national H2 economy and market, enabling scale economics
- Storage/ transport facilities to be supported as National H2 Projects
- Coordination across multiple ministries/agencies – MNRE, Chemicals, Shipping, Road & Highways, Railways, MoPNG, Steel and Heavy Industries



### H2 STORAGE & TRANSPORT – GOVT PARTICIPANTS



### H2 STORAGE & TRANSPORT – INDUSTRY PARTICIPANTS



\*names are indicative and for reference only

State-Level  
**Five National Green H2 Hubs**  
 (alternate structuring)

Multi-use/offtake SPVs

Co-located Production-Use

150 MW Electrolyser Capacity

USD 360 mn, 3-year Public Finance Support

Oversight by NHDC, Bharat H2 Taskforce & State-Level Green H2 Advisory Groups

**40 MW GREEN H2GUJ**

**National Chem-Steel-Refinery-CGD Hub**

Ankleshwar-Vadodara-Hazira (GUJ)

USD 78 mn public spend, c8000 tonnes pa Green H2 production & offtake, cut 8 Mmt CO2 in a decade



- 10MW Green H2, NH3/ Fertilizer Hub (Ankleshwar)
- 10MW GreenH2 Steel Plant (Hazira)
- 10MW GreenH2 Refinery (Vadodara)
- 5MW H2-CGD Networks (Vadodara)
- 5MW Heavy-Duty Transport/ Forklifts (Vadodara)
- Waste-to-H2 City (Vadodara/ Dahej/Hazira)

**30 MW GREEN H2KAR-AP**

**National Steel-Chem-CGD Hub**

Bellary-Nellore-Krishnapatnam (KAR-AP)

USD 68 mn public spend, c5000 tonnes pa Green H2 production & offtake , eliminate 5 Mmt CO2 in a decade



- 10MW GreenH2 Steel Plant (Bellary)
- 10MW Green H2, NH3 Hub (Nellore)
- 5MW H2-CGD Networks (Nellore)
- 5MW Heavy-Duty Transport/ Forklifts (Krishnapatanam)
- Waste-to-H2 City (Nellore)

**30 MW GREEN MAH2**

**National Steel-Refinery-Transport-CGD Hub**

Mumbai-Pune-Dolvi (MAH)

USD 68 mn public spend, c5000 tonnes pa Green H2 prodn & offtake, cut 5 Mmt CO2 in a decade



- 10MW GreenH2 Steel Plant (Dolvi)
- 10MW Green Refineries (Mumbai)
- 5MW H2-CGD Networks (Pune/Mumbai)
- 5MW Heavy-Duty Transport/ Forklifts (Nhava Sheva)
- Waste-to-H2 City Projects (Mumbai/ Pune)

**30 MW GREEN H2VIZAG**

**National Refinery-Steel-Transport-CGD Hub**

Vizag (AP)

USD 68 mn public spend, c5000 tonnes pa Green H2 prodn & offtake , cut 5 Mmt CO2 in a decade



- 10MW Green H2 Refinery (Vizag)
- 10 MW Green Steel (Vizag)
- 5MW H2-CGD Networks (Vizag)
- 5MW Heavy-Duty Transport (Vizag)
- Waste-to-H2 City Projects (Vizag)

**20 MW GREEN H2KOCHI**

**National Chem – Transport -CGD Hub**

Kochi (KER)

USD 45 mn public spend, 4000 tonnes pa Green H2 prodn & offtake, cut 4 Mmt CO2 in a decade



- 10MW Green H2 Refinery (Kochi)
- 5MW H2-CGD Networks (Kochi)
- 5MW Heavy-Duty Transport/ Forklifts (Kochi)
- Waste-to-H2 City Projects (Mumbai/ Kochi)

*\*indicative project SPV structures in following slides; project locations, SPV contracting & award to be done by NHDC, Bharat H2 Taskforce  
 ^over and above individual private sector project development and investments*

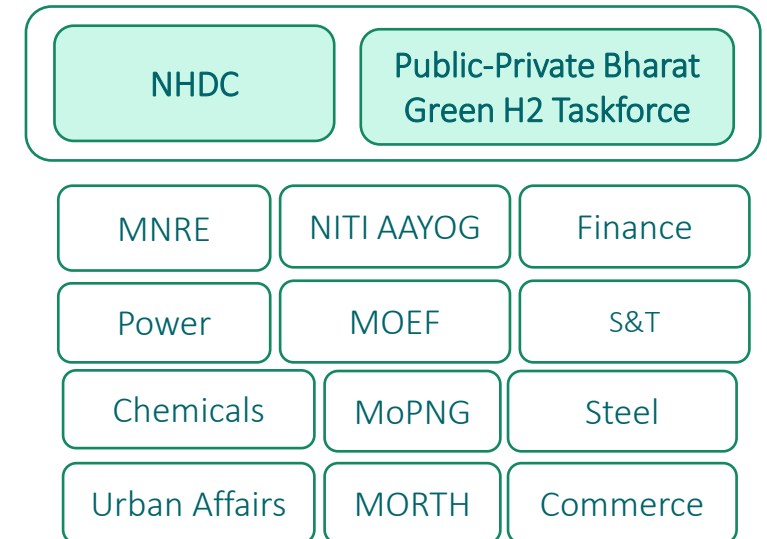
# Green H2 Hubs Development Framework – State Level

Develop Five National Green H2 Hubs with State-Industry Collaboration (CMO-IH2A)

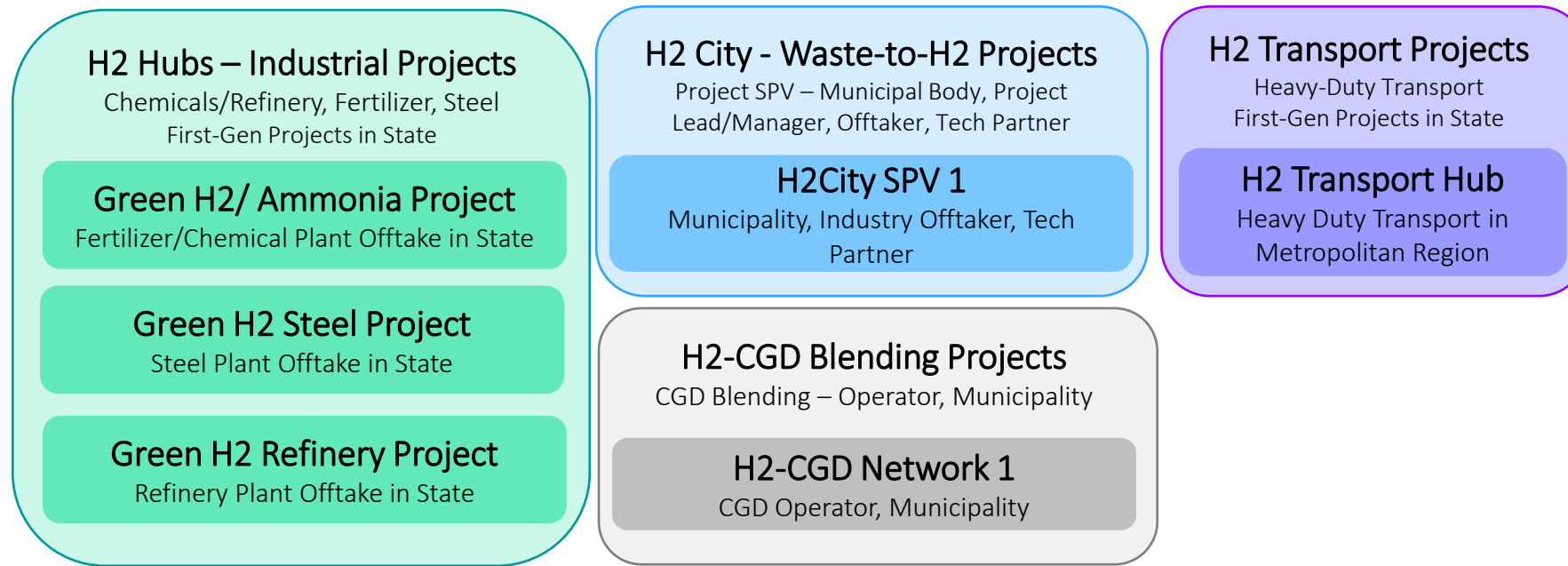
Draft State H2 Policy and H2 Hub Development Plan; oversee implementation with public-private advisory group



Coordination with central agencies/ ministries



Five National Green H2 Hubs Planning and Implementation – Scalable, Multi-Use-Case Hubs



## Next Steps

1. NHDC, Public-Private Taskforce Formation – *collaboration with the govt (proposal)*
2. Public Finance Support for USD 360 mn 3-year Green H2 Dev Plan - *workshop/discussion planned*
3. Commitments from Industrial Offtakers, SPV/ Consortia Leads – *interest to join hub consortia, sign offtake agreements*
4. State Governments Support, Nodal H2 Officer in State – *proposals to with State Govts*
5. Pre-feasibility studies of first-generation projects – *in-principle funding support*



 Thank you  
