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# **Gujarat**

## **A Pioneering State**

Presented by Himanshu Godara,  
Founder - EasyBookz.com



## Speaker's Profile



**Himanshu Godara**  
Founder, EasyBookz.com  
IIM Indore | IIT Roorkee

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Himanshu is a **founder of EasyBookz.com**, a new-age accounting and consulting startup to support forward-thinking companies by granting them access to advanced capabilities typically available to organizations with large finance teams and resources.

With more than **15 years of expertise in cross-border advisory**, he brings a wealth of experience right from the identification of high-value business opportunities, preparing and executing a strategic and financial roadmap to the commencement of actual business operation. Throughout his career, he has played **integral roles in numerous M&A and investment transactions**, offering valuable support in areas such as commercial and financial due diligence, go-to-market strategy, growth strategy formulation, and greenfield projects. Over the years, he has **built a strong network of 100+ corporates, foreign trade bodies**, industry associations, banks, law firms and consulting firms in **India, Japan and Singapore**.

Currently, he also holds the position of a **non-executive director at the Indian subsidiary of SATORI Electric, a Japanese company**. In this role, he offers strategic and financial insights to enhance the operations of the Indian entity.

**Education:** He holds an MBA from **Indian Institute of Management (IIM)**, Indore and B.Tech in Civil Engineering from **Indian Institute of Technology (IIT)**, Roorkee.

**Business skills:** India entry strategy, go-to-market, financial planning, commercial and financial diligence, market research, strategic alliances and business development, client relationship management, negotiation, key account management, location planning, feasibility study.

# How We Can Support

## Market Assessment

Interact with key stakeholders of the value chain – customers, competitors, suppliers, distributors, importers, government agencies to assess the current market scenario and to identify high-value opportunities in alignment with the organization’s vision and mission.

## Competition and Customer Analysis

Conduct in-depth customer and competition assessment to understand existing gaps and expectations in terms of price, quality, service level and other parameters.

## Tax and Regulatory Assessment

- Capital Structuring
- Indirect and Direct Tax Advisory
- Jurisdiction Analysis
- Transfer Pricing

## Recommendation on India Entry Options

- Greenfield Set-up
- Acquisition
- Alliances / Joint Venture
- Liaison office, branch office
- Indirect presence through distributorship, licensing, franchising, etc.

## Implementation Support

- Company formation
- Accounting and bookkeeping
- Statutory compliances
- Greenfield Setup Support
- Transaction support service

# GUJARAT





## LOOKING FOR ANSWERS?

- Is it the right time to invest in India?
- What are the potential business opportunities?
- Will our business model work?
- What is a best way to enter India?
- How India will complement our global strategy?

# Key parameters to evaluate best location to start business in India

## Cost Parameters

Talent Acquisition Cost

Utility Cost

Office Rental

Other Indirect Costs

## Sustainability Parameters

Talent Availability and Quality

Infrastructure Scalability

Maturity of IT related ecosystem

Presence of other IT companies

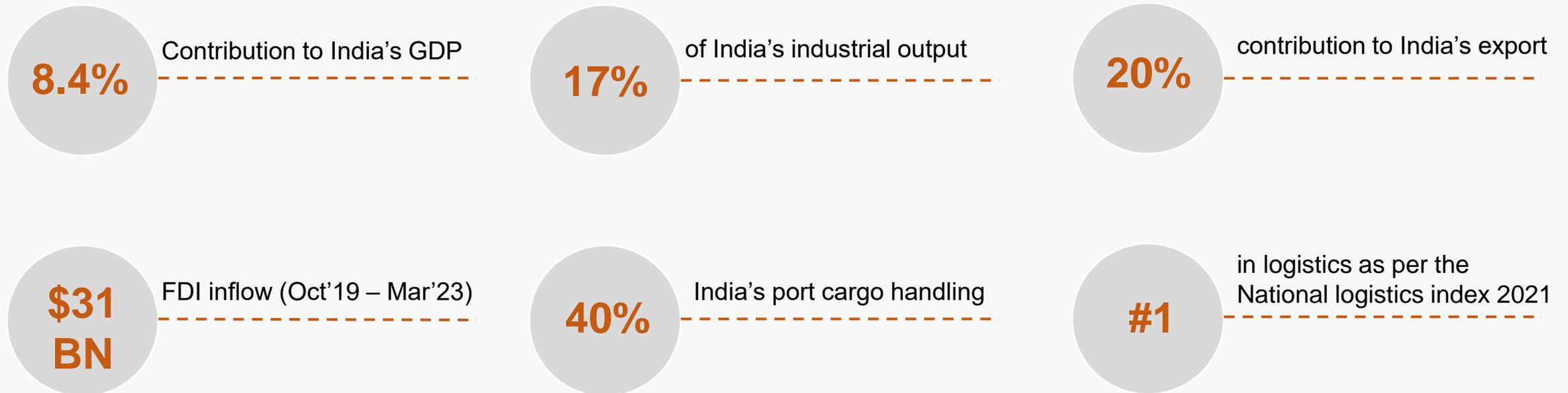
FDI Trends and Major Investments

Social Infrastructure

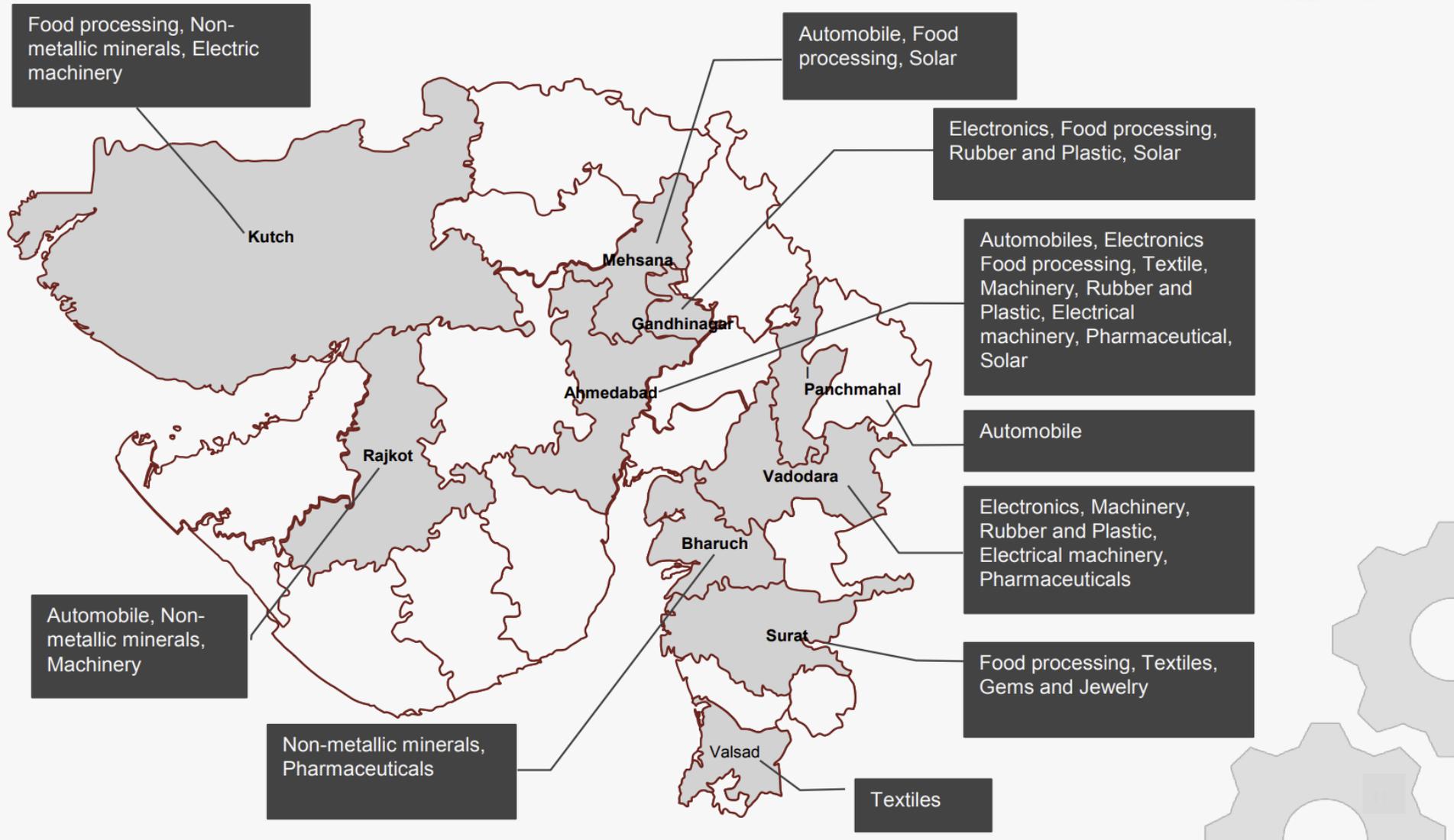
# Gujarat – A Pioneering State

Located on the western coast of India, Gujarat is one of the most sought out investment destinations in the country. The extremely business friendly policies of the state have paved the way for other states to follow Gujarat's lead. The state has direct international flight connectivity to cities across Europe, Middle East, East Asia and America.

Gujarat also has a coastline of 1600 km with 42 ports connecting to major sea-based trade routes and trade centers such as Middle East, West Europe, Asia and upcoming destinations on the African Continent. Gujarat acts as a gateway to landlocked states of India connecting to them by road, rail and air – thereby providing a boost to trading opportunities.



# Gujarat: Strong manufacturing and industrial ecosystem



# Presence of major domestic and multinational companies

### Engineering and Automotive

MARUTI SUZUKI Way of Life! TATA MOTORS

Hero Ford HONDA

apollo MAXXIS®

SAIC

CEAT

SKF

Rexroth Bosch Group

SCHAEFFLER

CHROMENI STEELS PVT. LTD.

TOYOTA TSUSHO MITSUBISHI

### Chemicals, Petrochemicals Oil and Gas

Reliance Industries Limited ROSNEFT CAIRN WE FUEL AMAZING

PETRONET LNG LIMITED GSPC

ONGC Shell TOTAL

IFFCO

Bayer BASF The Chemical Company

TATA CHEMICALS TRAFIGURA NIVEA

台灣中油股份有限公司 CPC Corporation, Taiwan Hanwha Chemical

Perstorp KUKDO

### Pharmaceuticals

torrent PHARMA CADILA PHARMACEUTICALS LIMITED

SUN PHARMA Zydus Cadila

P&G Abbott

### Ports and Maritime

adani Adani Ports & Special Economic Zone Ltd.

Lifting Global Trade. APM TERMINALS

ABG ABG Shipyard Limited

### Textiles

WELSPUN THE ARVIND STORE you. by you.

ADITYA BIRLA NUVO ADITYA BIRLA GROUP unicharm

nandan aarvee DENIMS & EXPORTS LTD. An ISO 9001:2008 Certified Company

### Food Processing

Amul adani wilmar For a healthy growing India

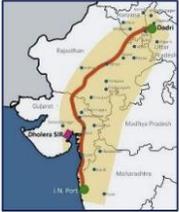
McCain ConAgra Foods Food you love

Nestle Vadilal

Source: Invest India

# Mega Projects driving growth

## DMIC & DFC



38% of the USD 100 billion Dedicated Freight corridor between Delhi and Mumbai passes through Gujarat

## GIFT City



India's greenfield financial hub with world class infrastructure for offshore & international transactions

## High Speed Rail



India's first high speed rail project between two mega cities – Ahmedabad & Mumbai

## DREAM City



Construction of Diamond Research and Mercantile City (DREAM) city is completed

## Dholera SIR



- India's largest greenfield spread over 900 sq. km
- 500 acres of land earmarked for defence aviation hub

## Mandal Becharji SIR



Home to some of the world's largest automobile & auto component companies. TP schemes developed.

## Greenfield ports



New ports at Nargol, Chhara, Jafrabad & Bhavnagar LNG Terminal

## Unconventional Energy



30,000 MW hybrid wind-solar park in Kutch

DMIC – Delhi Mumbai Industrial Corridor, DFC – Dedicated Freight Corridor, GIFT – Gujarat International Finance & Tec City, SIR – Special Investment Region

# Gujarat: Leader in Green Transition

 **Dedicated Climate Change Department** under the Govt of Gujarat; first at the sub-national level in Asia

 **World's largest hybrid solar-wind park** under development across 72,000 hectares

 **36 GW** of offshore wind energy potential off the coast of Gujarat

 Specific **sectoral policy for Green Hydrogen** manufacturing; land earmarked as a **“Renewable Energy park”**

 **Gujarat International Finance Tec-City (GIFT City)**, an international financial services center with the potential to be used as a **vehicle for green financing**

# Gujarat Industrial Policy 2022

 MSME	Category of Taluka	Fixed Capital Incentive (Max)	Interest Subsidy (Max)
	Category 1	25% on term loan of INR 35L	7% on INR 35L for 7 yrs
	Category 2	20% on term loan of INR 30L	6% on INR 30L for 6 yrs
	Category 3	10% on term loan of INR 10L	5% on INR 25L for 5 yrs

 Large Scale Industries	Category of Taluka	Interest Subsidy (Max)	Net SGST Reimbursement
	Category 1	7% on term loan for 10 yrs (Max: 1% eFCI p.a)	100% of net SGST for 10 yrs (Max: 7.5% of eFCI p.a)
	Category 2	7% on term loan for 8 yrs (Max: 1% eFCI p.a)	90% of net SGST for 10 yrs (Max: 6.5% of eFCI p.a)
	Category 3	7% on term loan for 6 yrs (Max: 1% eFCI p.a)	80% of net SGST for 10 yrs (Max: 5% of eFCI p.a)

 Thrust Industries	Category of Taluka	Interest Subsidy (Max)	Net SGST Reimbursement
	Category 1	7% on term loan for 10 yrs (Max: 1.2% eFCI p.a)	100% of net SGST for 10 yrs (Max: 8% of eFCI p.a)
	Category 2	7% on term loan for 8 yrs (Max: 1% eFCI p.a)	90% of net SGST for 10 yrs (Max: 7% of eFCI p.a)
	Category 3	7% on term loan for 6 yrs (Max: 1% eFCI p.a)	80% of net SGST for 10 yrs (Max: 5.5% of eFCI p.a)

 Mega Industry	Category of Taluka	Interest Subsidy (Max)	Net SGST Reimbursement
	ALL	7% on term loan for 10 yrs (Max: 1.2% eFCI p.a)	100% of net SGST for 20 yrs (Max: 0.9% of eFCI p.a)

## Policy Highlights for MSME

### a) EPF Reimbursement

100% of employer's statutory contribution under EPF (ceiling of 12% of the employee's basic salary or INR 1800, whichever is lower) – for a period of 10 years

### b) 1% Additional Interest Subsidy:

Available to differently-abled entrepreneurs, women entrepreneurs, registered startups in manufacturing and young entrepreneurs below the age of 35 years on the date of sanction of term loan

## Policy Highlights for Large, Thrust & Mega Industries

### a) EPF Reimbursement

100% of employer's statutory contribution under EPF (ceiling of 12% of the employee's basic salary or INR 1800, whichever is lower) – for a period of 10 years

### b) Stamp Duty Registration

Eligible industrial units shall be eligible to claim 100% reimbursement of stamp duty and registration charges

### c) Electricity Duty Exemption

100% exemption from electricity duty for first 5 years post commercial production

# Gujarat Thrust Sectors – Driven by Policies

## Green Energy Ecosystem



- Green Hydrogen/ Green Ammonia
- Electrolyser
- Renewable energy equipment
- Battery Storage
- Fuel Cell

## Capital Equipment



- Electrical Machinery
- Industrial Machinery
- Telecom related manufacturing
- Space related manufacturing

## Mobility



- Aviation related manufacturing
- Electric Vehicles
- Auto & Auto Components
- Space related manufacturing

## Metals & Minerals



- Metals
- Mineral Processing
- Ceramics

## Sustainability



- Municipal solid/ liquid waste recycling equipment manufacturing

## Gems & Jewellery



- Gems & Jewellery including Lab Grown Diamond

## Agro Processing



- Agro & Food Processing

## Textile & Apparels



- Technical Textile
- Textile, Apparel & Garments

## Healthcare



- Pharmaceuticals and / or APIs
- Medical devices

# Gujarat : Sunrise sectors

Sectors prioritized by the Government of Gujarat as well as under various central government schemes

Sectors	PLI Scheme	Sector incentivized through various Government schemes	Focus sectors under Vibrant Gujarat 2022	High tech sectors defined under Gujarat SDG Vision 2030
Energy storage sector	✓	✓	✓	✓
High efficiency solar PV modules	✓	✓	✓	✓
Semiconductor	✓	✓		✓
Mobile Manufacturing and Specified Electronic Components	✓	✓		✓
Biotechnology				✓
Telecom and Networking products	✓			✓
Medical Devices	✓			✓
Advanced Chemistry Cell Battery.	✓			✓
Drug Intermediaries & API	✓			
White goods	✓			

Immediate priority

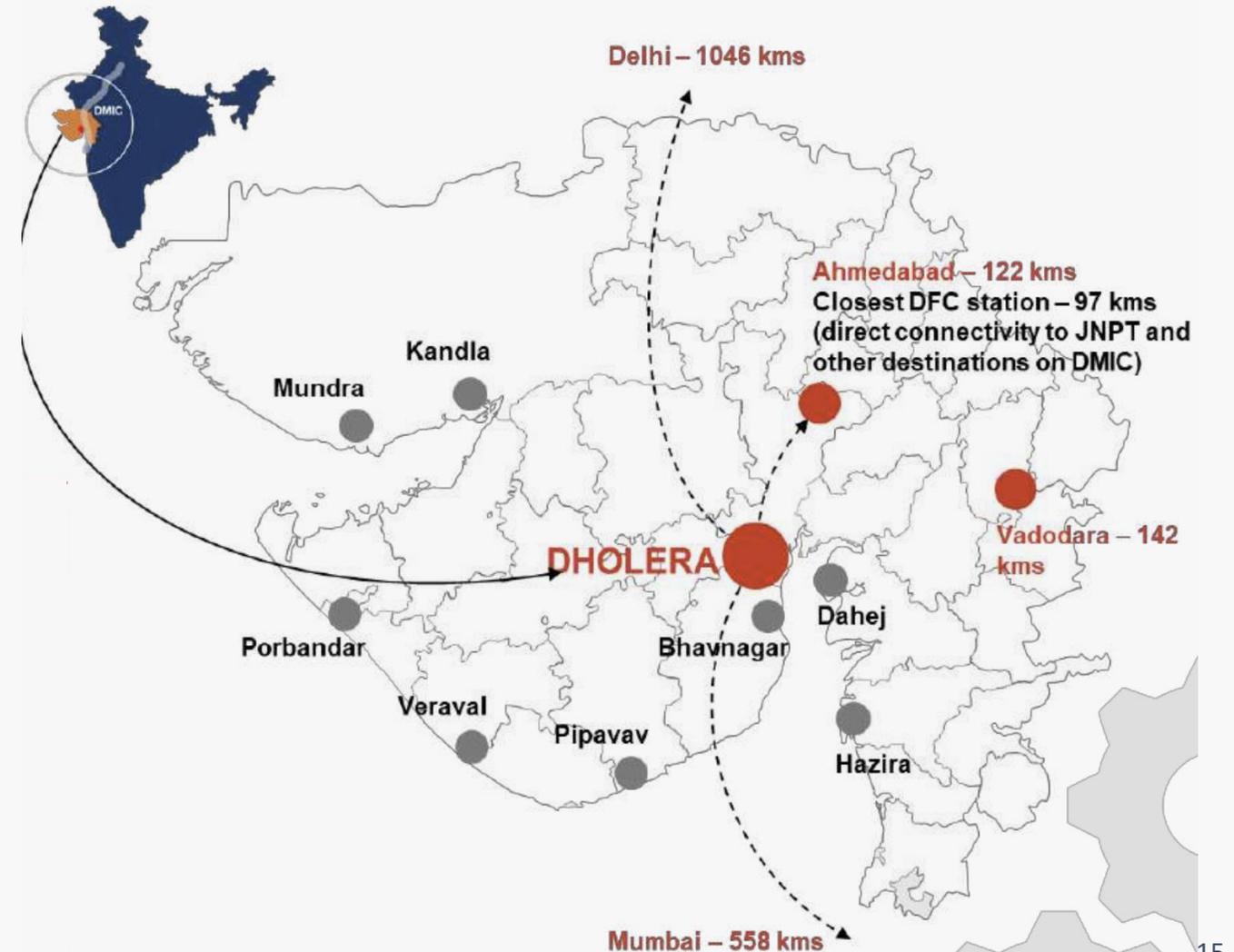
Medium term priority

Long term priority

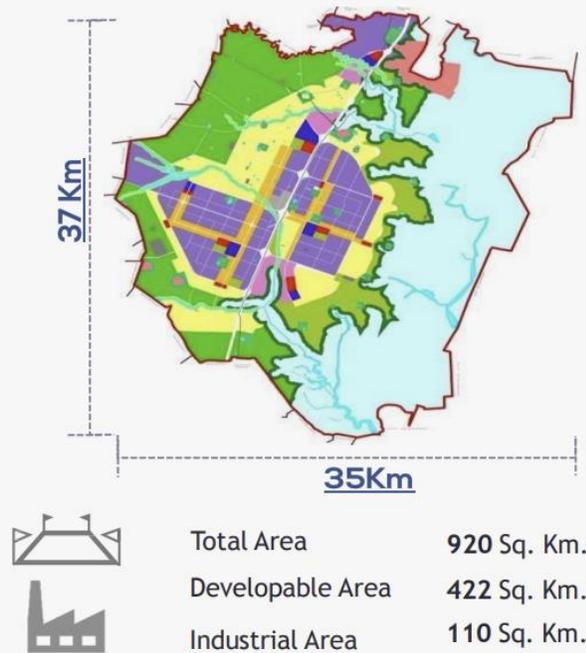
# Dholera, the next big investment and industrial destination (1/2)

Special Investment Regions (SIR) of Dholera is a Greenfield Industrial City, planned developed and managed by an SPV named Dholera Industrial City Development Limited (DICDL). The greenfield city is planned to be developed over 920 sq.km. with access to other proximate major cities like Ahmedabad, Rajkot, Baroda. The city is envisioned as a self sustaining integrated ecosystem of urban and industrial economy. Being located in Gujarat, Dholera SIR has inherent advantages for industrial development.

DSIR is a part of the Delhi-Mumbai Industrial Corridor (DMIC) which is a mega infrastructure project of USD 90 billion (INR 4,23,000 crore) covering a distance of over 1500km between the political capital and the business capital of India (Delhi and Mumbai).



# Dholera, the next big investment and industrial destination (1/2)





**1<sup>st</sup> Greenfield Industrial Smart City in India**  
Certified as **Platinum Rated Green City** by Indian Green Building Council

**State of the Art Infrastructure**  
Rail & Road Connectivity Treated & recycled water, power, CETP, STP etc

**Blanket Environment Clearance**  
Companies to receive blanket environment clearance from DICDL

**Plug & Play Facilities**  
Companies to receive blanket environment clearance from DICD

**Smart & Sustainable Infrastructure**  
Companies to receive benefits of Smart Infrastructure and sustainable energy

**Lowest Power Tariff**  
Local DISCOM to provide provide to companies with the lowest tariff

 <ul style="list-style-type: none"> <li>▪ Under Construction Inter. Airport (Greenfield) in Dholera: <b>15 Kms</b></li> <li>▪ Ahmedabad Int. Airport: <b>120 Kms</b></li> <li>▪ Vadodara Int. Airport: <b>140 Kms</b></li> <li>▪ Bhavnagar Airport: <b>60 Kms</b></li> </ul>	 <ul style="list-style-type: none"> <li>▪ Pipavav Port : <b>200 Kms</b></li> <li>▪ Kandla Port : <b>300 Kms</b></li> <li>▪ Mundra Port : <b>350 Kms</b></li> <li>▪ Bhavnagar Port : <b>65 Kms</b></li> </ul>	 <ul style="list-style-type: none"> <li>▪ Proposed rail connectivity from Bhimnath railway station : <b>60 mins</b></li> <li>▪ Bhavnagar Railway Station: <b>60 Kms</b></li> </ul>	 <ul style="list-style-type: none"> <li>▪ Ahmedabad - Dholera Expressway is under construction</li> <li>▪ Currently, Connected to Ahmedabad through NH 751 &amp; 47</li> </ul>
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# Focused Sectors

Semiconductor

Electric Vehicle

Solar

Green Hydrogen



# Modified Semicon India Program

An Opportunity for Global Semiconductor  
Ecosystem

# Vision for New India

Leading value chain through high-tech manufacturing



Shri Narendra Modi  
Hon'ble Prime Minister of India

“  
India is committed to becoming **the world's reliable partner in global supply chains**. This is the best time to invest in India  
”

“  
India is making **policies keeping in mind the goals of the next 25 years**.  
”

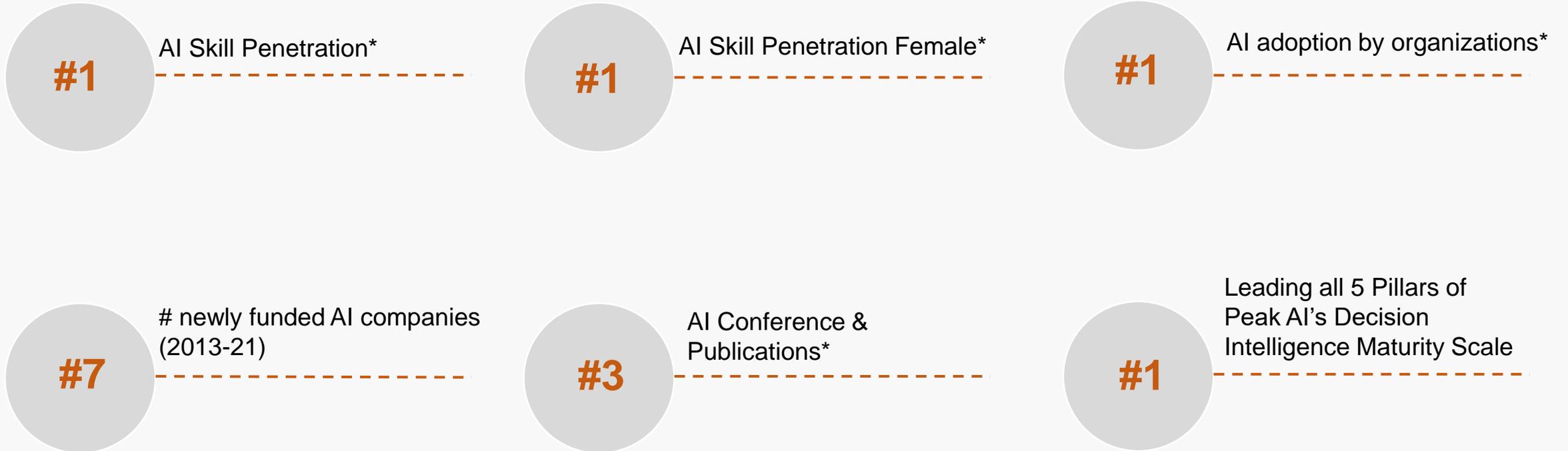
‘State of World’ address World Economic Forum, 2022

“  
**We will work with stakeholders to understand what more can be done to build a vibrant semiconductor ecosystem**.  
”

Semicon India, 2022

# Software global leadership led AI & Hardware

India Leading the Global AI Revolution in Most Parameters



\*Stanford AI Index 2021

# World's 3rd Largest Economy by 2027\*

### Advantage India

- 1 Fastest Growing G20 Economy
- 1 Global Fintech Adopter
- 2 Internet Users
- 3 Start-up Ecosystem

### Tech Start-up Ecosystem

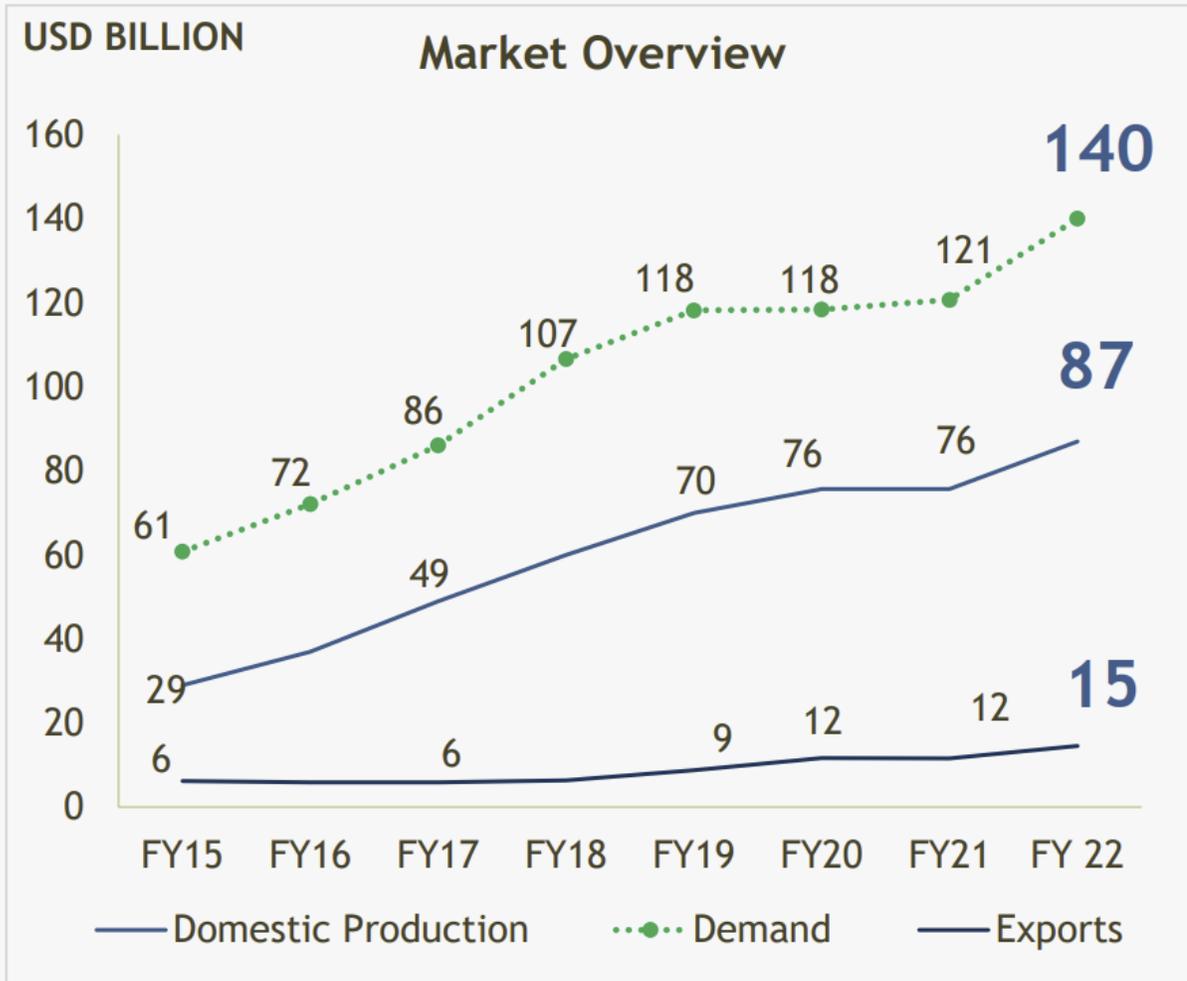
~77,000 Registered Startups	>25k Tech Startups
3000+ leveraging deep tech including AI	\$24 Bn+ Total equity investment received by Indian tech start-ups
108 unicorns with a total valuation of \$ 340.80 Bn	



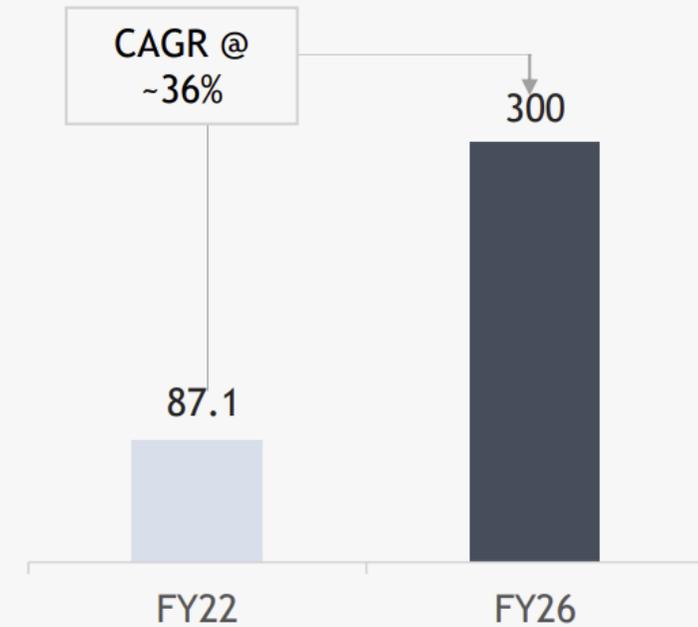
\*Morgan Stanley Report 2022

Confidential

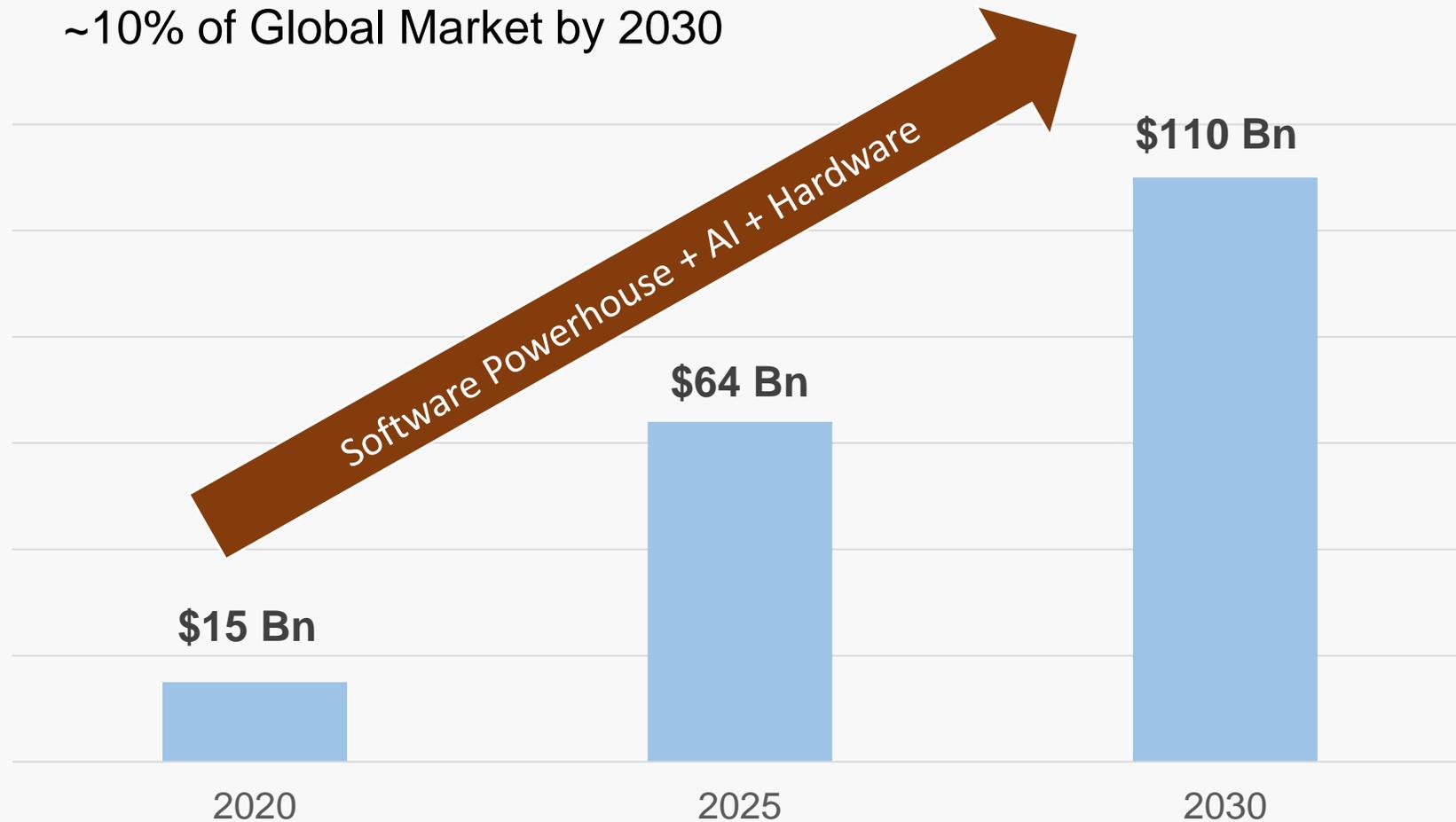
# ~\$300 Bn Electronics Manufacturing by 2026



Electronics Production (USD Bn)



# \$110 Bn Semiconductor Market Opportunity by 2030



# ~US\$30 Bn in Fiscal Support

Support to Make India Global Hub for Electronics Manufacturing

## Incentive Outlay ~\$10 Bn

Support for Semiconductor and Display Ecosystem

1. Semiconductor Fabs and Display Fabs
2. Compound Semiconductor and ATMP
3. Design Linked Incentive (DLI)
4. Modernization of Semiconductor Laboratory (SCL)

## Incentive Outlay ~\$7 Bn

Support for Electronics Manufacturing

1. Production Linked Incentives for Mobile Phones, Components, IT Hardware
2. Capex Linked Incentives for components, sub-assemblies
3. Development of Electronics Manufacturing Clusters

## Incentive Outlay ~\$13 Bn

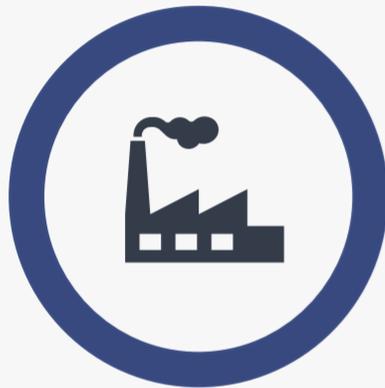
Support for Allied Sectors

Production Linked Incentives for

1. Advanced Chemistry Cell
2. Automobiles & Auto Components
3. Telecom & Networking
4. Solar PV Modules
5. White Goods

# Government initiatives

## Development of High Tech Clusters



Electronic Manufacturing Clusters and Common Facility Centre

## Demand Aggregation



Purchase preference in Government procurement

## R&D, Skill Development and Training



85,000 manpower  
Roadmap for R&D, Skill Development and Training

# ~85,000 Skilled Workforce Development by 2026



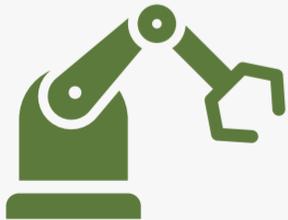
Median Age: 29 yrs.  
*World's Youngest nation (till 2070)*



1K+ Universities



38 Mn Graduates  
*(49% female)*



8.4 Mn UGs

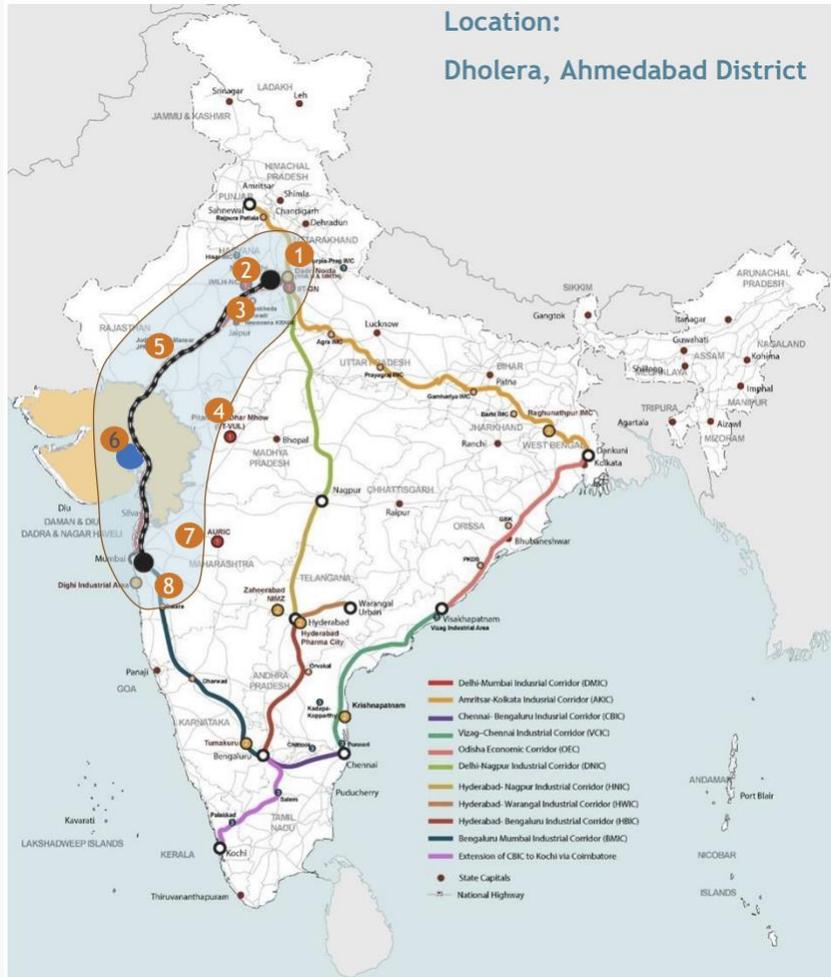


0.7 Mn PGs



0.13 Mn PhDs

# Ecosystem: Semicon City (Dholera, Gujarat)



Location:  
Dholera, Ahmedabad District

**Land: 10K Acre developed, > 100K Land**

**Water: 30 MLD → 100 (2 yrs.) → 300 (5 yrs.)**

**Power (Quality): 5 interconnected Substations**

**International airports by 2025-26**

**High Speed Train from Ahmadabad planned**

**5GW Solar Power under construction (300 MW commissioned)**

**Good Ports connectivity**

NICDC-National Industrial Corridor Development Programme  
DSIRDA-The Dholera Special Investment Region Development Authority

Existing Allotees

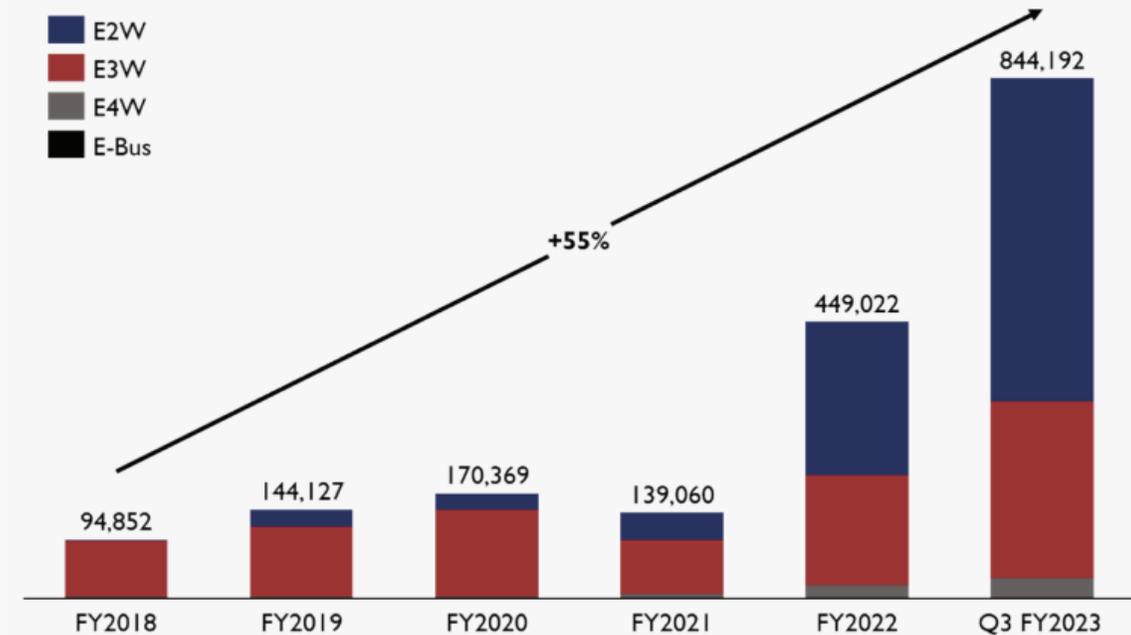


# Electric vehicle



## EV SALES REGISTERED IN INDIA OVER 5 YEARS

**3 million EVs  
by FY25**  
A dream within  
India's reach



Source: Society of Manufacturers of Electric Vehicles

EV sales have grown at an annualized average rate of 55%. Sales in India are driven by the E2W and E3W segments. Between April 2022 and December 2022, E2Ws and E3Ws represented 62% and 34% of all EVs sales, while E4Ws comprised less than 4% of sales. E-bus sales stood at 0.19%, with 1,617 buses sold in the period of 9 months

# INDIAN EV POLICY HIGHLIGHTS

## 49%

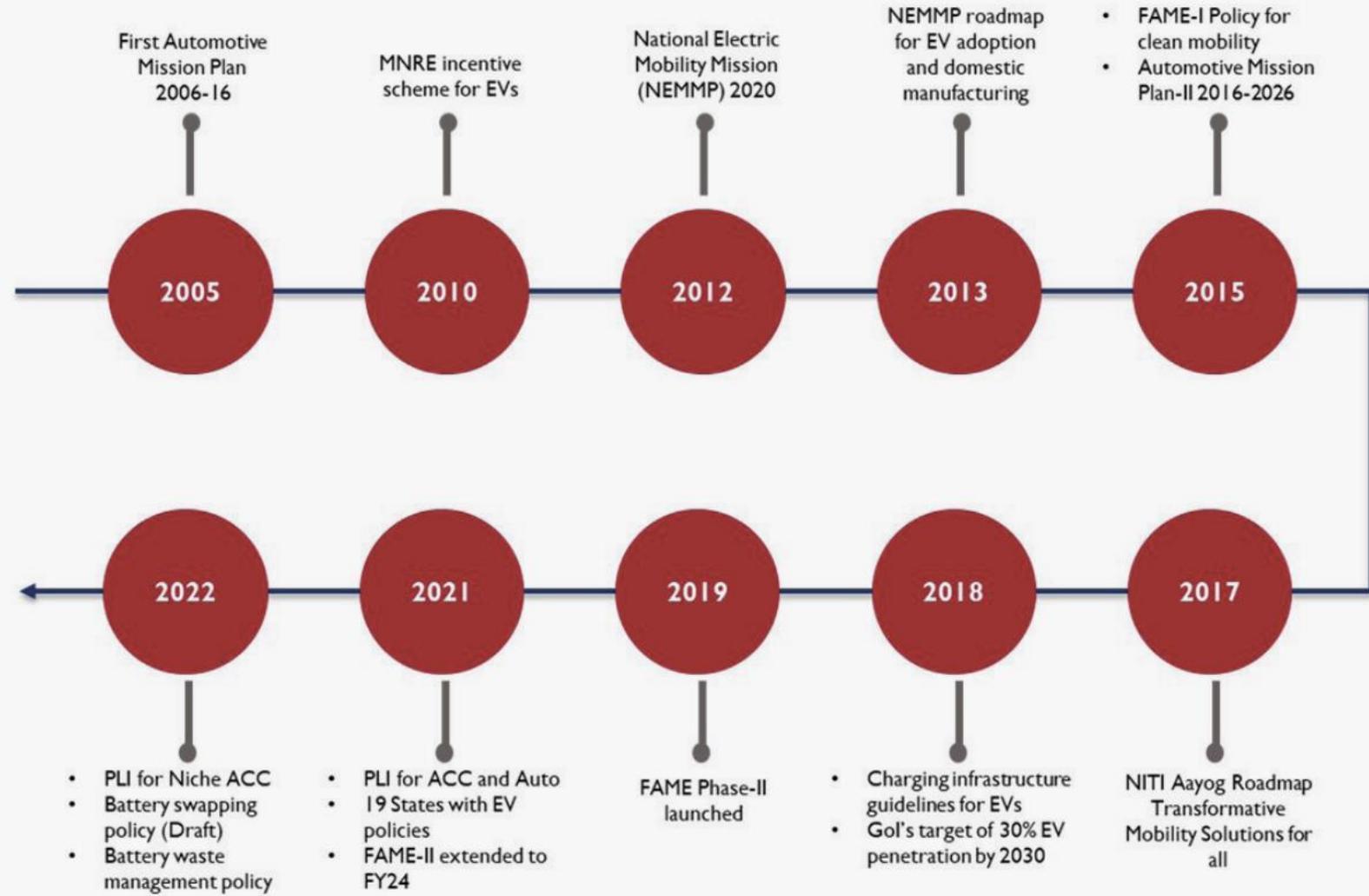
Expected annual growth rate of the **Indian EV market** till 2030

## \$1.4B+

In **policy incentives** from the Government of India

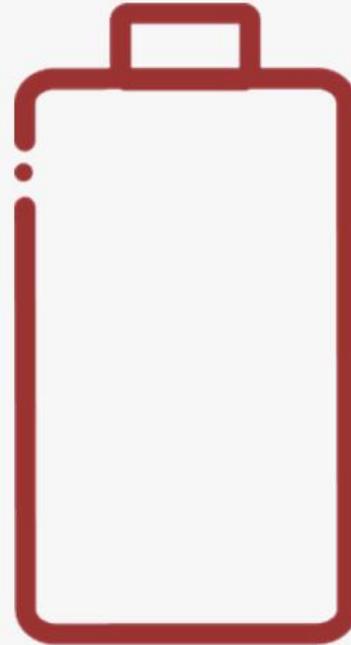
## \$200B+

**Investment opportunity for India** in EVs, charging infrastructure, and batteries till 2030



# Production Linked Incentives (PLIs) for Advance Chemistry Cells (ACC)

The government has allocated approximately **\$2.5 billion** to the incentive scheme which aims to build local manufacturing capacity of **50 GWh of ACC and 5 GWh of niche ACC capacity** (planned). The scheme aims to result in economies of scale and increased exports, assisting major domestic and foreign manufacturers **in establishing competitive ACC battery manufacturing in India.**



- \$5.5 billion of direct investment into ACC battery manufacturing projects
- Net savings of up to \$30.5 billion on account of import bill reduction during the period of the scheme
- Incentive to encourage industry to promote fresh investments in indigenous supply chain and deep localization of the battery manufacturing industry

*Source: Ministry of Heavy Industries*

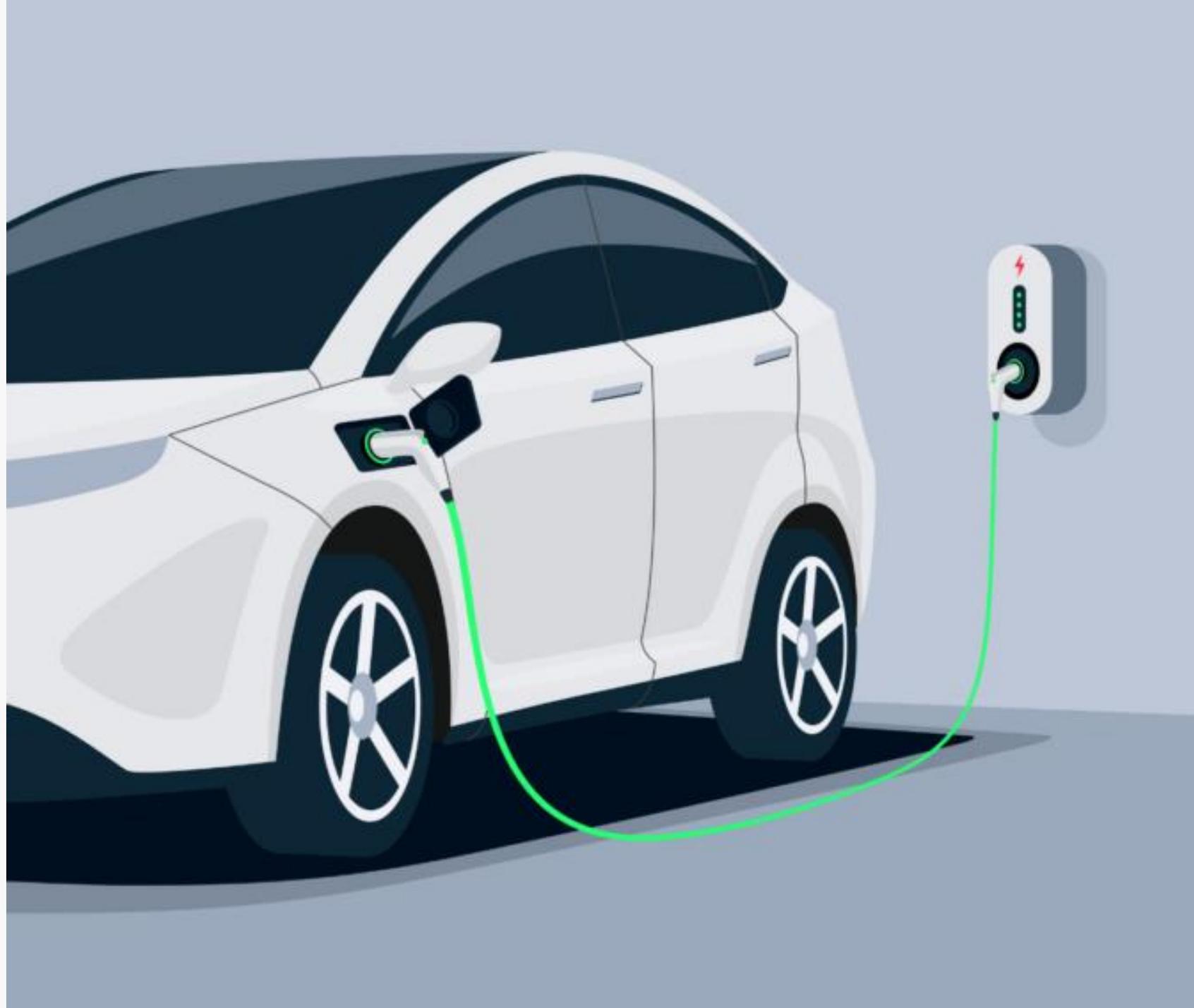
The Niti Aayog predicts that India's EV battery recycling market is set to expand to **128 GWh by 2030** — from a mere 2 GWh in 2023.

## Battery Waste Management Rules

To ensure environmentally appropriate treatment of battery waste, the Ministry of Environment, Forest, and Climate Change announced the Battery Waste Management Rules in 2022.

- Specifically outlines li-ion chemistry batteries used in EVs for recycling.
- Mandates EPR for Indian battery manufacturers with penalties for non-compliance.
- Is likely to offer incentives for entrepreneurs in setting up recycling facilities.
- Outlines a minimum of 90% materials recovery by 2027.
- Mandates the use of 5% recycled materials in new batteries by 2027, which will rise to 20% by 2030-31.

**Foxconn  
aims to make  
India its  
third EV hub,  
eyes 5%  
global  
market share  
by 2025**



# Gujarat: Electric Vehicle Policy 2021

## Objective

- To transition the state's transportation sector towards electric mobility.
- To make Gujarat a manufacturing hub for electric vehicles and ancillary equipment.
- To encourage start-ups and investment in the field of electric mobility and associated support sectors such as data analytics and information technology.
- To improve the quality of the environment by reducing air pollution.

INCENTIVES FOR EARLY ADOPTION OF  
ELECTRIC VEHICLES

INCENTIVES FOR CHARGING  
INFRASTRUCTURE

INCENTIVE FOR MANUFACTURING OF EV AND  
THEIR COMPONENTS

**1475%**  
rise in  
**Electric  
Vehicles in  
Gujarat after  
the EV  
Policy of  
state  
government**



# Tata Group signs \$1.6 billion deal with Gujarat government to set up EV battery plant

Ahmedabad, Gujarat • Edited By: Navya Beri • Updated: Jun 03, 2023, 08:21 PM IST



## ESR acquires 38 acres in Gujarat to leverage EV manufacturing growth

It will be ESR's second investment in Gujarat, the first being Jalisana, a 37-acre project.

## Gujarat goes big on electric vehicles with 1475 per cent surge in registration

*According to government officials, EV charging stations are being built at a rapid pace in several locations throughout Gujarat. In the next few days, 250 more public charging stations will be erected*

Published: 03rd June 2023 05:43 PM | Last Updated: 03rd June 2023 05:43 PM

## Suzuki Motor Corporation signs MoU with Gujarat to make electric vehicles, batteries

Niyati Parikh / TNN / Mar 20, 2022, 13:13 IST

## Shell Energy commits over \$363 million for renewable energy plant, EV charging stations in Gujarat

Shell Energy India has signed a memorandum of understanding (MoU) with the Gujarat government to invest INR 3,000 crore (\$363.24 million) in building a renewable energy generation plant and EV recharge stations in the state.

AUGUST 24, 2023 **UMA GUPTA**

## Gujarat Fluorochemicals to invest ₹5,000 crore in EV batteries, solar and green hydrogen supply chain

GFL's integrated battery chemicals complex coming up at Dahej is nearing completion.

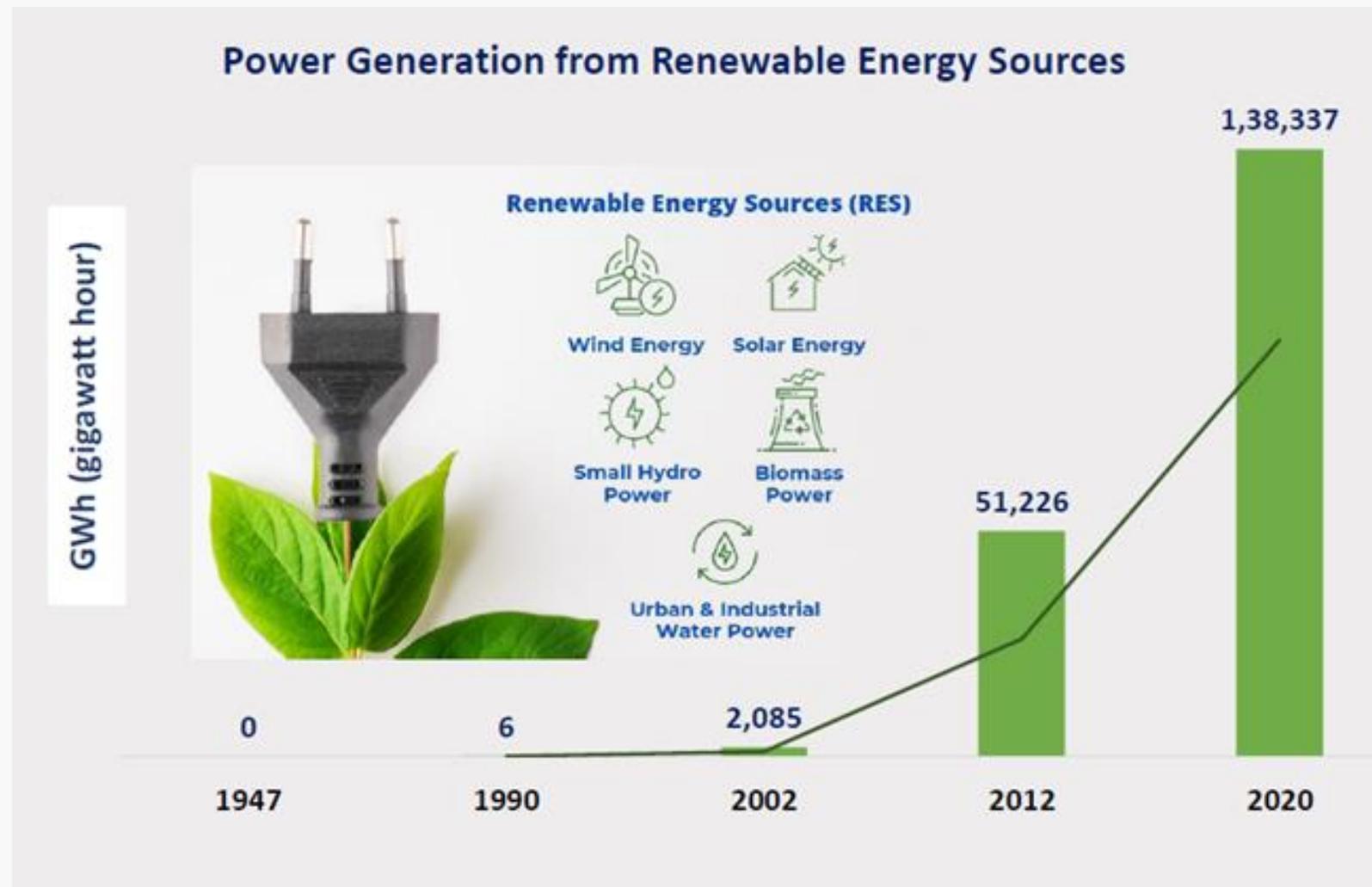
By **P B JAYAKUMAR**, Apr 1, 2023 | 3 min read

# EV battery recycling in India – Opportunities and challenges

# Solar

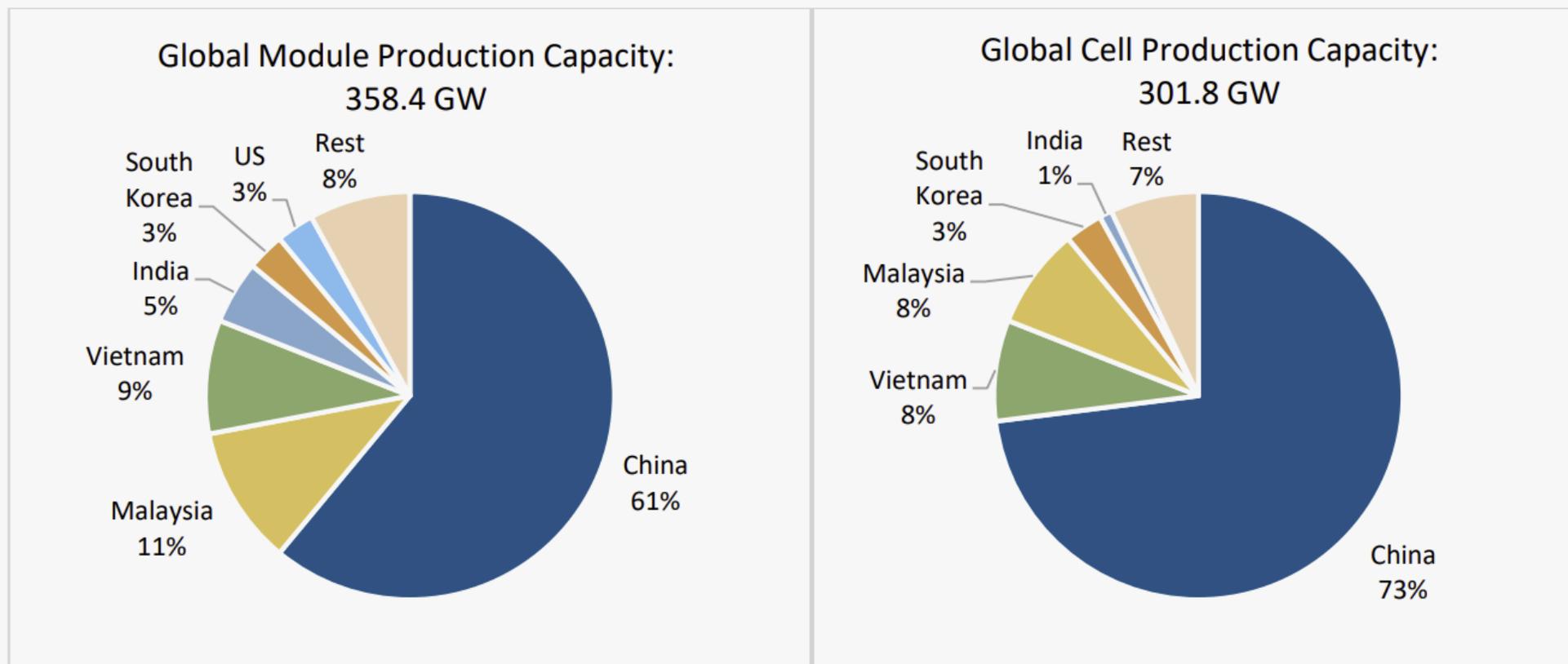


India is the world's third largest producer of renewable energy, with **40% of its installed electricity capacity** coming from non-fossil fuel sources



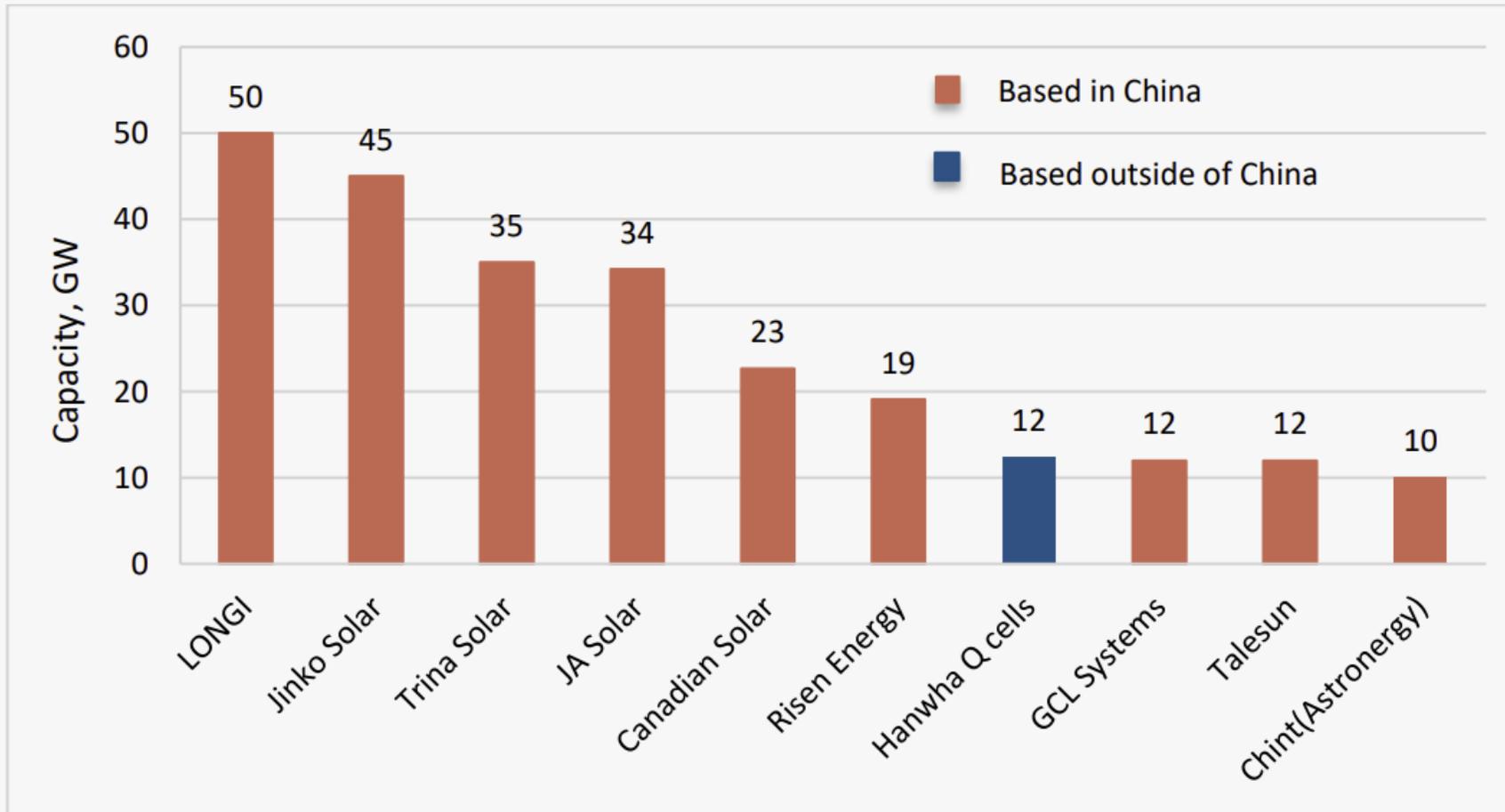
China's share in all the manufacturing stages of solar panels (such as polysilicon, ingots, wafers, cells and modules) exceeds 60%-70%. However, **India is challenging China's dominance in the Solar manufacturing market with the increased manufacturing capacity in the coming years.**

# Global Annual Module and Cell Production Capacity (as of November 2021)



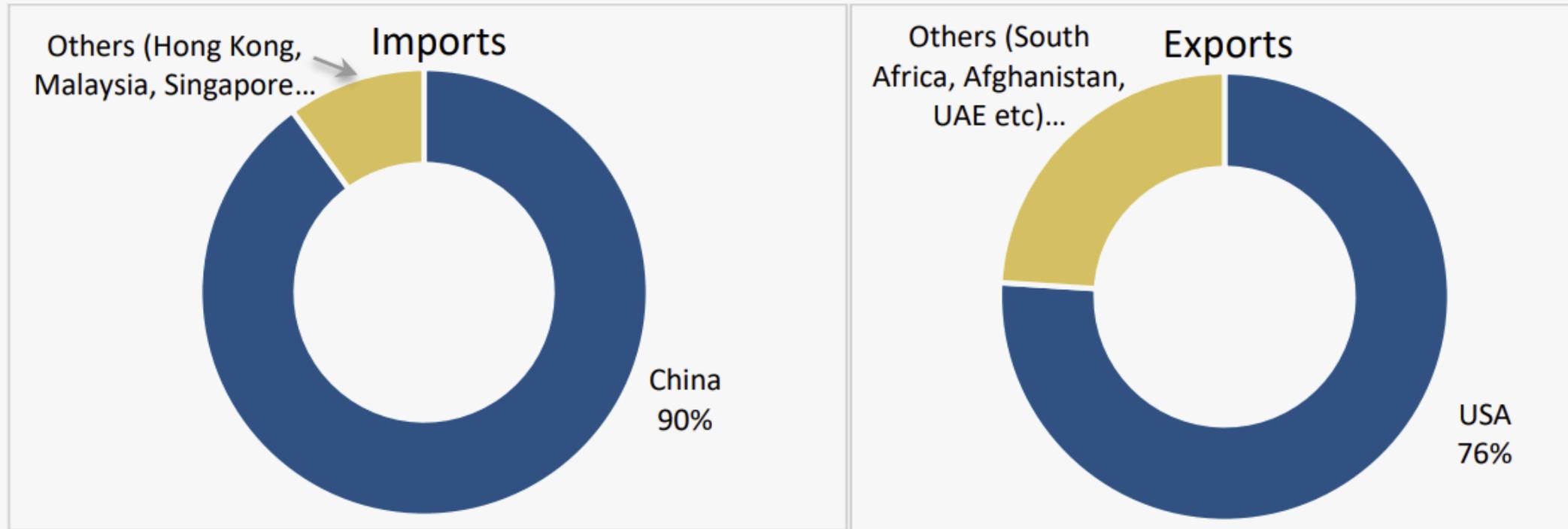
Source: Paula Mints: "Solar's History and Future in Pictures", SPV Market Research, November 2021.

# Leading Module Manufacturers in the World (Basis Production Capacity)



Source: IEA PVPS National Survey Report of PV Power Applications in China 2020; BloombergNEF, 4Q 2021 Global PV Market Outlook, Nov 2021, Industry Interviews.

# India Solar PV Import-Export Scenario - H1 FY2022 (April-November 2021)

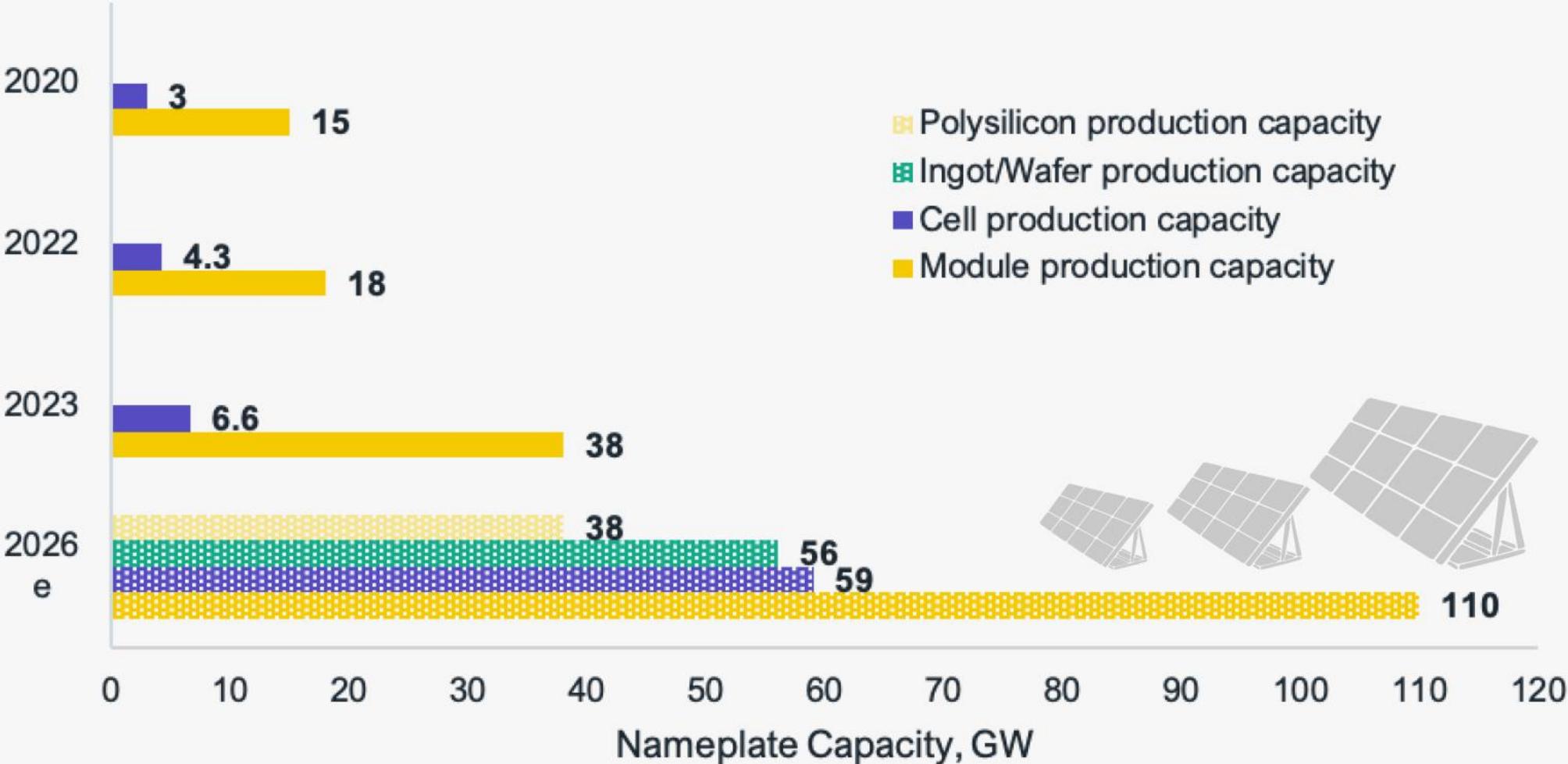


Source: Ministry of Commerce and Industry.

# India could become the world's second-largest solar photovoltaic manufacturer by 2026

“In terms of upcoming PV manufacturing installations, **Gujarat is the leading state in India. It accounts for nearly 57% of all the upcoming PV manufacturing capacity.** Some major reasons manufacturers chose Gujarat for setting up their PV fabrication facilities include cheaper industrial electricity prices and easy access to ports for imports and exports,” she added.

# Growth of Domestic Photovoltaic Manufacturing Capacity in India



Source: ieeefa.org

# Domestic Solar Module Manufacturing Capacity by State



Gujarat is a leading state for solar module manufacturing capacity in India.

Source: JMK Research.

# New Entrants Looking to Explore the Market

Favorable scenarios for solar manufacturing have generated huge interest from several companies and these conducive conditions can make India a solar manufacturing hub in years to come

- **Favourable government policy environment**
- **Augmentation of required demand**
- **Availability of raw materials**
- **Easier financing options**
- **Predicted technological changes**



# GREEN HYDROGEN



# INDIA TO BECOME A GLOBAL GREEN HYDROGEN HUB

India is well positioned to be global hub for green hydrogen production, particularly as announced initiatives are implemented over the upcoming years

**62 GW**

India's solar capacity (2022)

**42 GW**

India's wind capacity (2022)

India has competitive energy costs driven by abundant renewable energy resources and government policies

**60-100 GW by 2030**

Electrolyzer capacity as per National Hydrogen Mission's Target

There is strong push to ramp up electrolyzer supply through local manufacturing

**India's Position in Global Markets (2021)**

3rd Ammonia Consumption

4th Oil Refining Capacity

2nd Steel Production

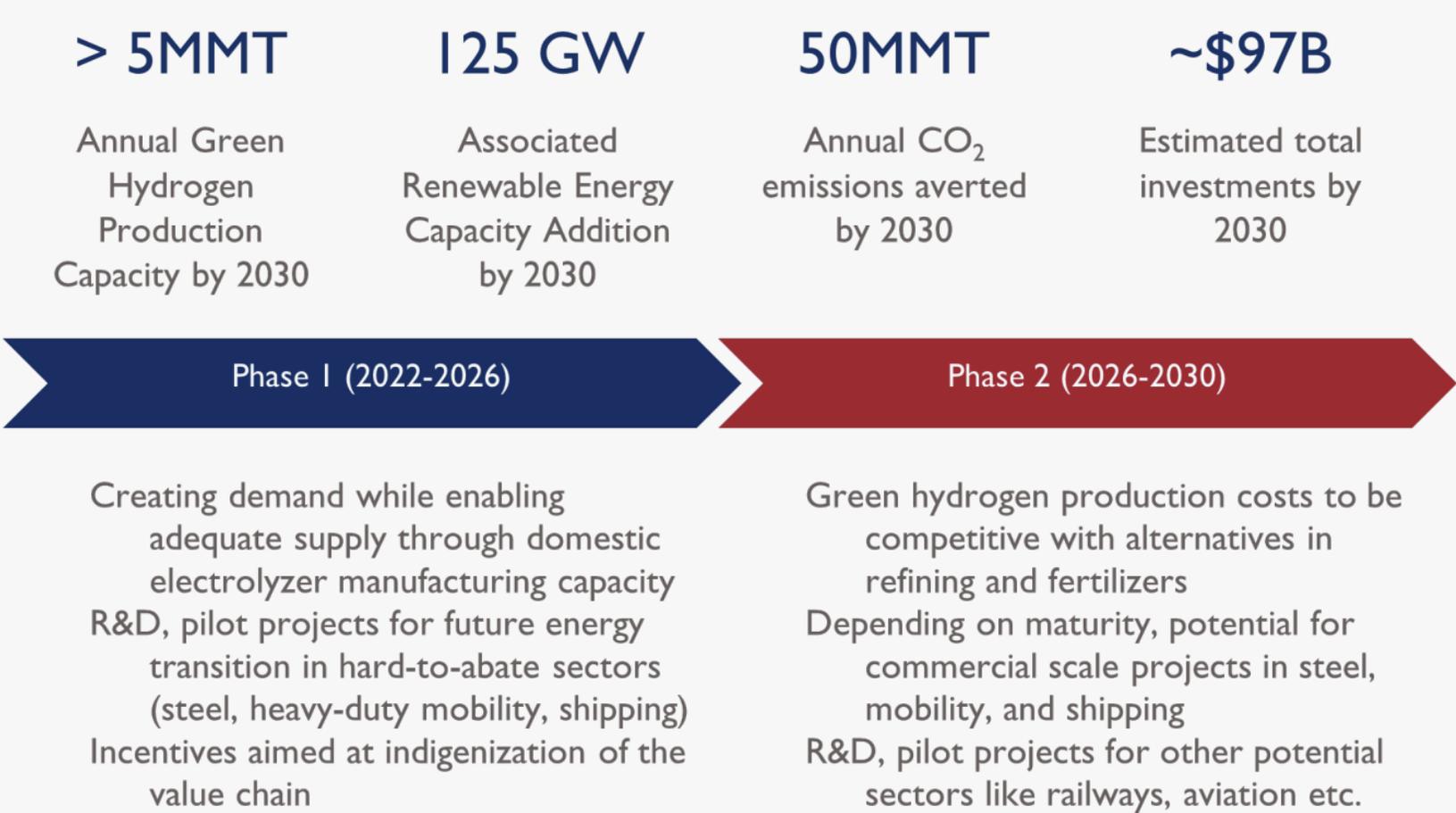
Presence of one of the largest domestic market for hydrogen, though with limited ability to pay a significant green premium

**10 states**

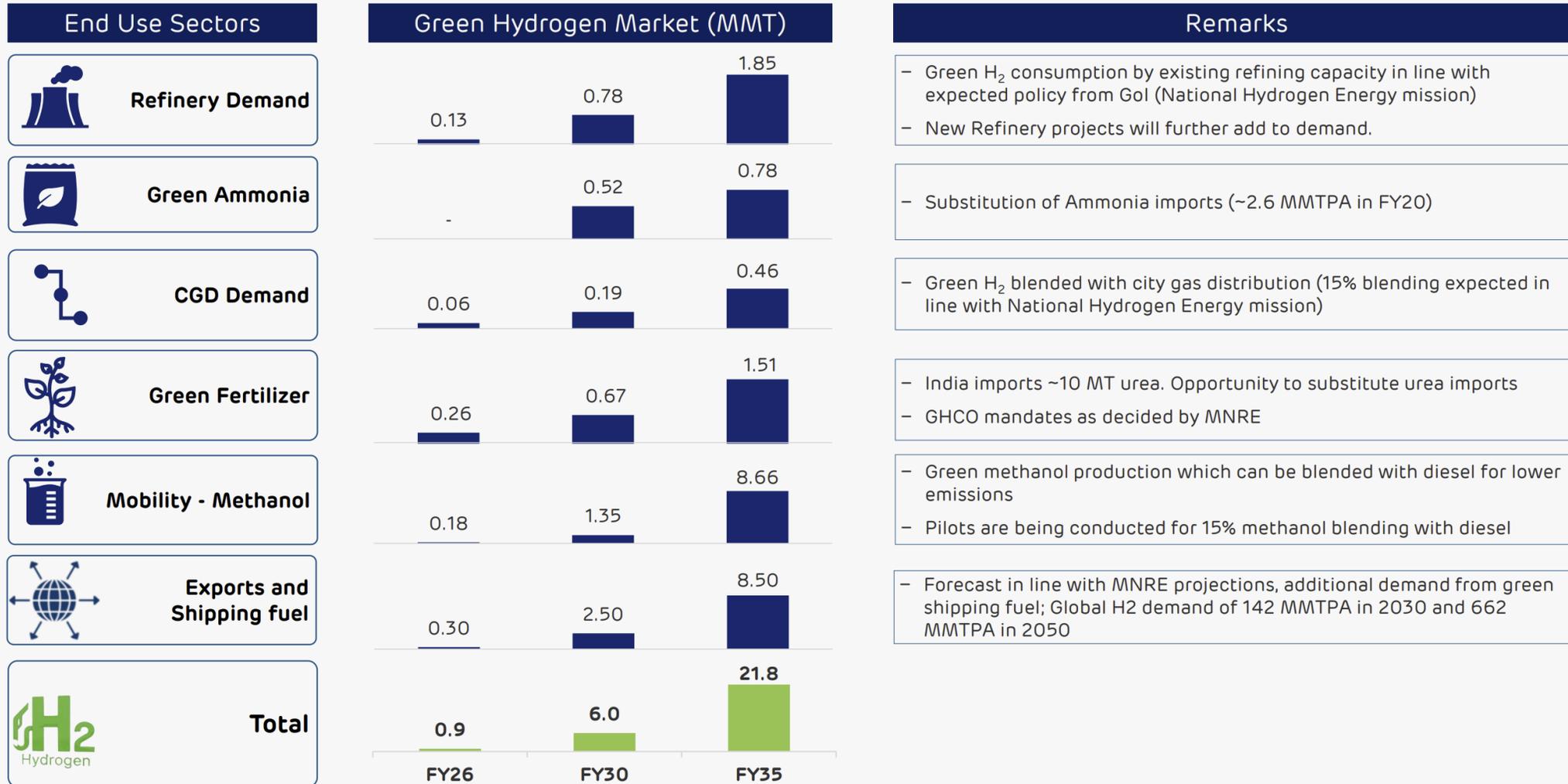
Identified by GOI to become key hydrogen manufacturing enablers

Availability of complementary support infrastructure with initiative for development of dedicated production hubs

INDIA'S GREEN HYDROGEN TARGETS: THE POLICY PUSH

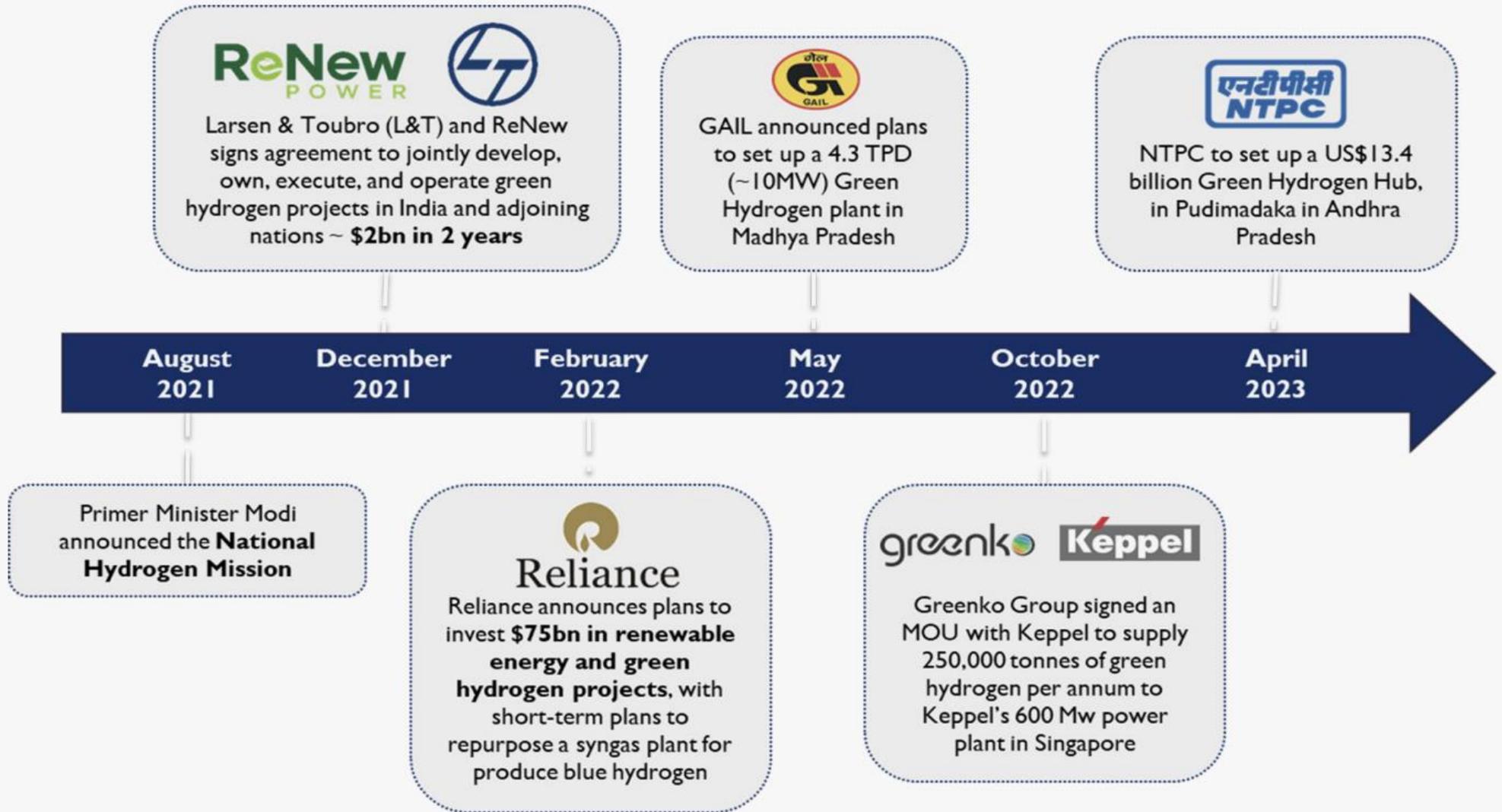


# Green Hydrogen: Massive potential to decarbonize industries



GHCO: Green Hydrogen Consumption Obligation; CGD: City Gas Distribution; MMT: Million Metric Tons; MT: Metric Tons; MNRE: Ministry of New & Renewable Energy; H<sub>2</sub>: Hydrogen; GoI: Government of India

# Some major announcements in the sector



## Some key stakeholders in India's Green H2 ecosystem

## Local Electrolyzer Manufacturers



## Local Green Hydrogen Producers



## Local Green H2 Consumers (Captive / Procured)



## Other Stakeholders

## Distribution Technology



## Automotive Technology



## Ports and Shipping



## Industry Coalitions



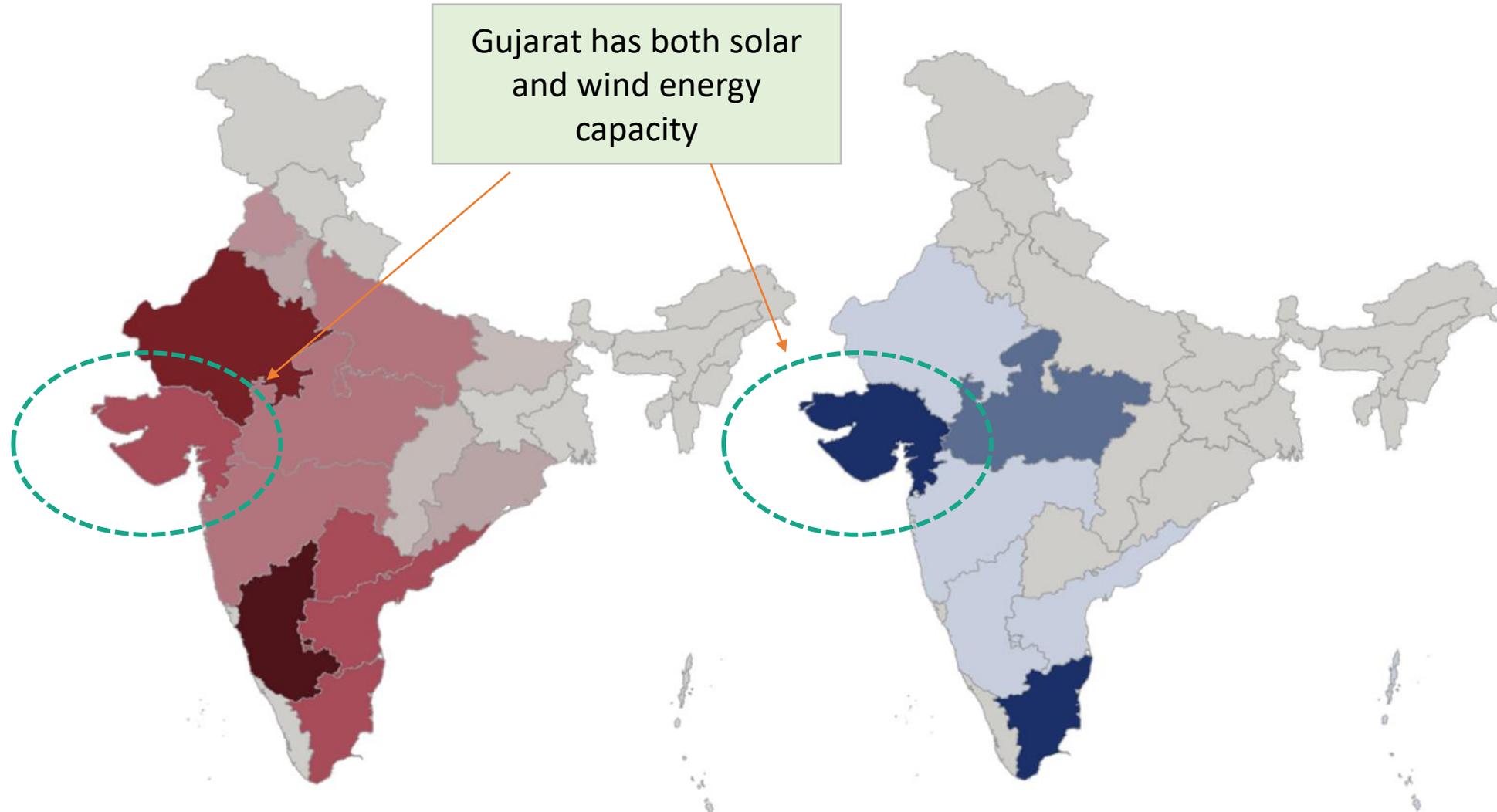
# Key Stakeholders in India's Green H2 Ecosystem

(non-exhaustive list)

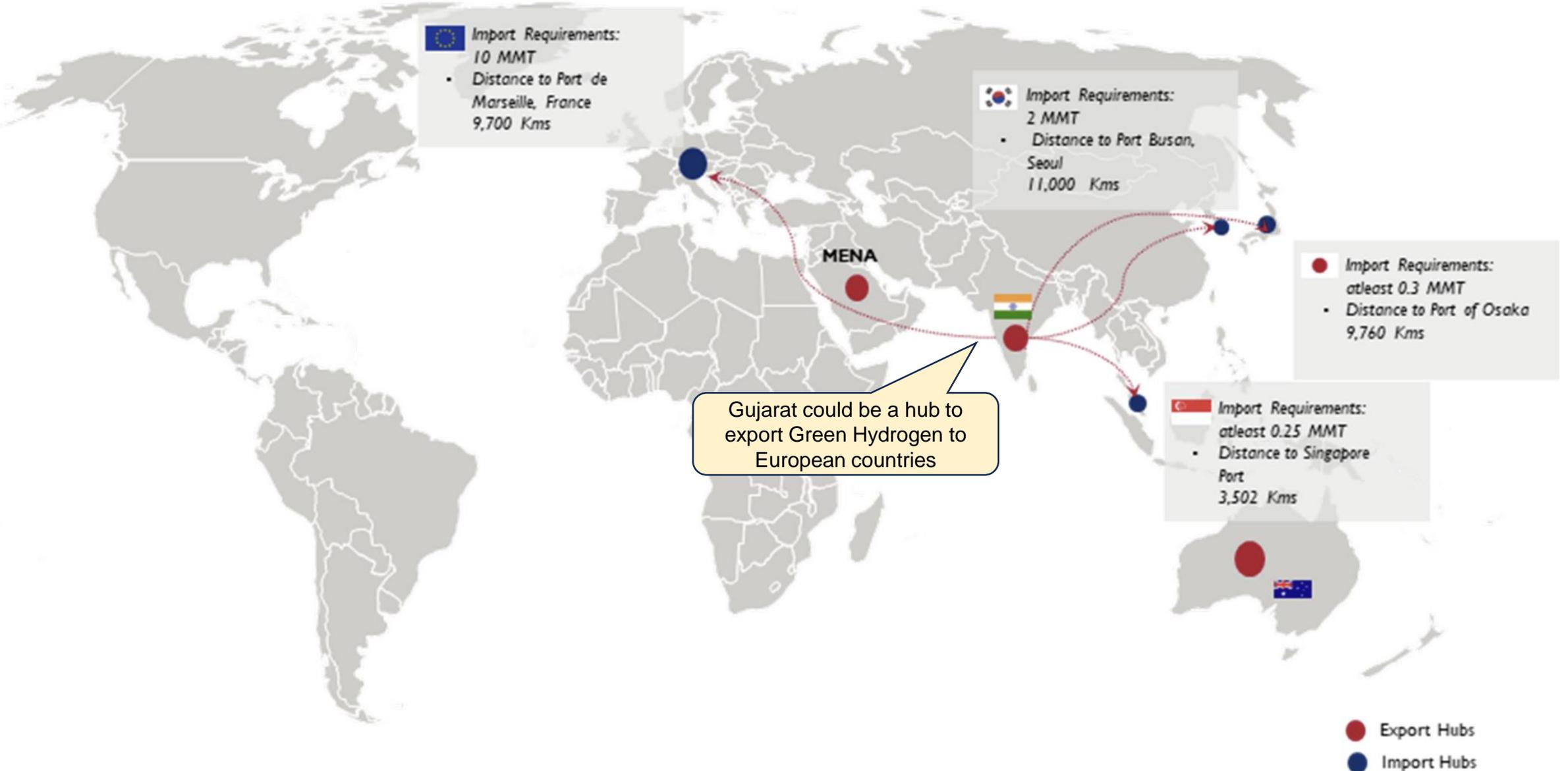
**GUJARAT: AIMING  
TO BECOME A  
LEADING GREEN  
HYDROGEN HUB  
IN INDIA**



# India's solar (left) and wind (right) capacity concentration



# Potential Export Destinations and Distance from India (2030)



# Gujarat government initiatives

MOUs with with several big corporates, including **Reliance, Adani, ArcelorMittal and Torrent**

Aims to install around 8 million tonnes per annum (MTPA) of green hydrogen production capacity by 2035

Launching new green hydrogen policy in keeping with India's target of reducing carbon emissions by 45% by 2030

For more information, please write to

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Thank You