

# Indo-German Green Hydrogen Task Force

Deliverables under Subworking Group 1

On behalf of:



GOVERNMENT OF INDIA  
MINISTRY OF NEW  
AND RENEWABLE ENERGY







Federal Ministry  
for Economic Affairs  
and Climate Action

Implemented by:

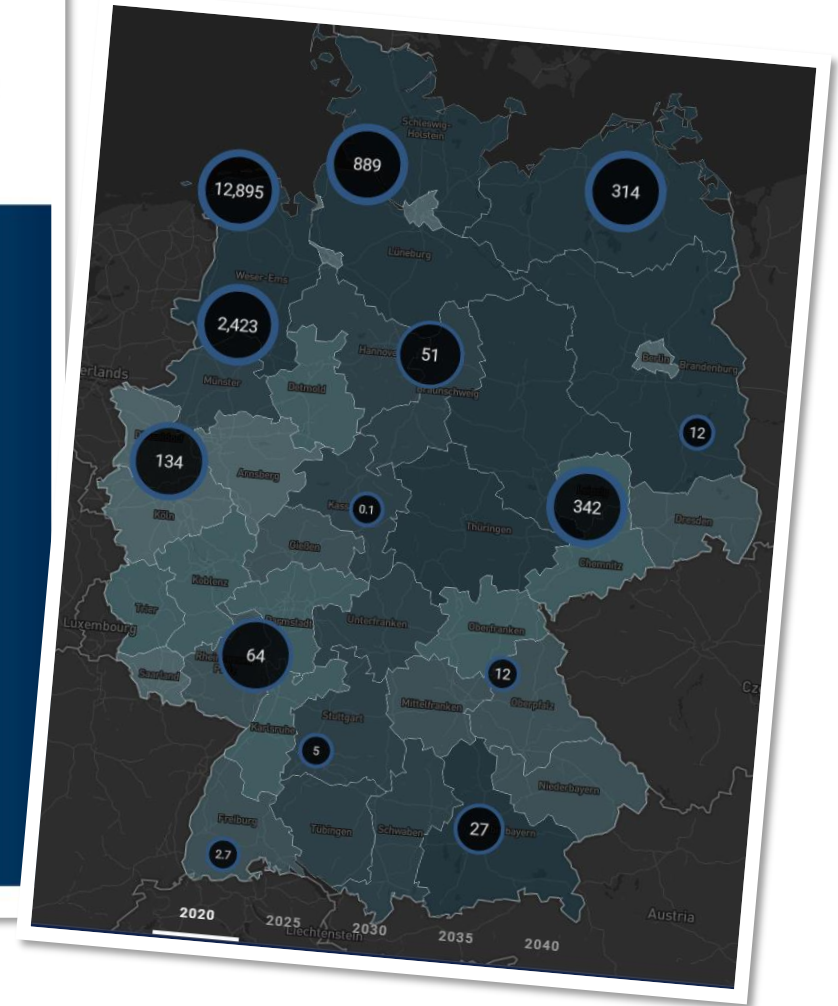
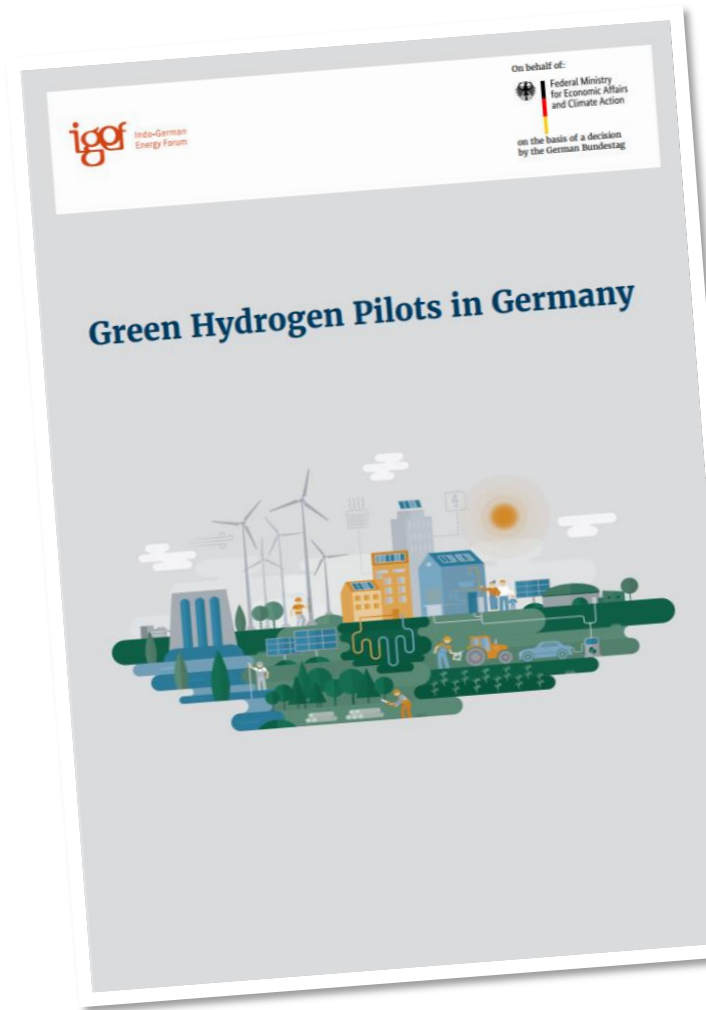


# List of green hydrogen projects in India

   					
Name	Status	Location	End Use	Capacity (MW)	Project Capacity (Tonnes H2 per Annum)
NTPC - Green Hydrogen from solar	Announced	Gujarat - Khavda, Rann of Kutch	NA	NA	NA
NITK Surathkal - Seawater electrolysis pilot	Announced	Karnataka - Surathkal	NA	NA	NA
NHPC - Green Hydrogen Production Pilot	Announced	Himachal Pradesh - Chamba	Mobility and others	NA	NA
L&T - Green Hydrogen Plant	Commissioned	Gujarat - Hazira	NA	0.800	16.400
IOCL - Kochi Airport Green Hydrogen Production	Announced	Kerala - Kochi	Hydrogen buses	NA	NA
IOCL - Jodhpur Refinery Green Hydrogen Production	Announced	Rajasthan - Jodhpur	NA	NA	NA
Hygenco and Jindal Stainless Limited - Green Hydrogen Plant	Announced	Haryana	Steel production	NA	250.000
Hero Future Energies and Ohmium - Green Hydrogen Partnership	Announced	NA	NA	NA	NA
GH2 Solar (Unecops Technologies) - Green Hydrogen Pilot	Announced	NA	NA	0.050	7.870
GAIL - Green Hydrogen Plant	Announced	Madhya Pradesh - Vijaiapur	Hydrogen blending	10.000	1570.000
BPCL - Green Hydrogen Plant plans	Announced	Odisha	NA	NA	NA
Avaada Energy - Green Ammonia Plant	Announced	Rajasthan - Kota	Ammonia production	NA	180000.000
Advik Hi-Tech and Pure Hydrogen - Hydrogen Supply JV	Announced	NA	NA	NA	NA
Adani and Maire Tecnimont - Green Hydrogen Projects JV	Announced	NA	NA	NA	NA
ACME - Green Hydrogen and Green Ammonia Project Tamil Nadu	Announced	Tamil Nadu - Thoothukudi	NA	1500.000	min. 198000.000
ACME - Green Hydrogen and Green Ammonia Project Karnataka	Announced	Karnataka - Mangaluru	NA	NA	NA
Avaada Energy - Green Hydrogen and Ammonia	Announced	Madhya Pradesh	Ammonia production	NA	NA
BPCL - Electrolyser and Blending	Announced	Maharashtra - Ahmednagar/Aurangabad	City gas blending	5.000	NA
MAHAPREIT - Green Hydrogen Production	Announced	Maharashtra	City gas blending	1.000	NA
Reliance Industries - Green Hydrogen Ecosystem Gujarat	Announced	Gujarat - Kutch	NA	NA	NA
Jakson Green - Green Hydrogen and Ammonia	Announced	Rajasthan	Ammonia production	NA	65700.000
Keppel Corp & Greenko - JV Green Ammonia	Announced	NA	Ammonia production	NA	NA
Avaada Energy - Green Ammonia Production	Announced	Karnataka - Mangaluru	Ammonia production	NA	180000.000
ABC Cleantech - Green Hydrogen and Ammonia	Announced	Karnataka - Mangaluru	Ammonia production	NA	200000.000
Petronas - Green Ammonia Production	Announced	Karnataka - Mangaluru	Ammonia production	NA	90000.000
JSW Green Hydrogen - Green Hydrogen/Ammonia	Announced	Karnataka - Mangaluru	Ammonia production	NA	NA
O2Power - Green Hydrogen/Ammonia	Announced	Karnataka - Mangaluru	Ammonia production	NA	NA
I2HA - Kochi Green Hydrogen Hub	Announced	Kerala - Kochi	Transport	150.000	22000.000
CPCL - Green Hydrogen Production at Chennai Refinery	Announced	Tamil Nadu - Chennai	Refinery	NA	NA
NLCIL and GRIDCO - Green Hydrogen Project	Announced	Odisha	NA	NA	NA
WBPCL - Green Hydrogen Plant Durgapur	Announced	West Bengal - Durgapur	NA	NA	NA
Greenko and John Cockerill - Green Ammonia Plant HP	Announced	Himachal Pradesh - Una	Ammonia production	140.000	NA
Petronas - Green Hydrogen and Ammonia Tamil Nadu	Announced	Tamil Nadu	Ammonia production	NA	NA
Suzuki and Yamanashi Hydrogen Manesar Project	Announced	Haryana - Manesar	NA	NA	NA
Aditya Birla Renewables and Green Hydrogen	Announced	Rajasthan	NA	NA	NA
Ociar - Gov of Gujarat MoU Green Hydrogen and Ammonia	Announced	Gujarat - Kutch	NA	NA	100000.000

[List of green hydrogen projects in India](#) is continuously updated and provided to members of the Indo-German Green Hydrogen Task Force.

# List of green hydrogen projects in Germany



If not received yet, please access overview on Green Hydrogen Pilots in Germany [here](#).

# Supplier directories for green hydrogen and fuel cell technology by VDMA



If not received yet, please email us via [hydrogen@energyforum.in](mailto:hydrogen@energyforum.in).

# Long term purchase agreements with suppliers outside EU



- +4.3 bio EUR grant earmarked for suppliers from countries outside EU
- Current value: 900 mio. EUR
  - Deadline for Green Ammonia ended on 28 Feb. 2023
  - **Deadline Green Methanol + SAF is 11 April 2023**
- More info: <https://www.bmwk.de/Redaktion/EN/Dossier/market-consultation-H2Global.html>



**22 March 2023 @ 16:00 hr IST/ 11:30 hr CET:** Task Force Meeting on Financing Options for Green Hydrogen Projects. For more information, mail us at [hydrogen@energyforum.in](mailto:hydrogen@energyforum.in).

# Webinar on Carbon Finance Revenue for Green Hydrogen Projects



- 2,2 – 6,7 Mio. EUR annual revenue from green H2 certificate sales estimated for a 100 MW green H2 project with certificate prices projected to range between 10 and 30 EUR per tonne CO2
- First contracts foreseen to be signed in 2023
- More info: [www.hydrogenfornetzero.org](http://www.hydrogenfornetzero.org)
- Webinar took place on 15 February 2023. Recording can be found [here](#).

# List on upcoming business delegations, trade fairs and events



- 22.03. Online Session on [German funding schemes and credit lines for Green Hydrogen projects in India](#)
- 22.03. Webinar on [Hydrogen Clusters around ports](#)
- 28. - 29.03. [Berlin Energy Transition Dialogue](#), Berlin, Germany
- 04.04. - 05.04. [Green Steel World](#), Essen, Germany
- 11.04. Webinar on EU Sustainability Criteria for GH2
- 17.04. - 21.04. **Indian Business Delegation to [Hannover Messe](#) (+100 exhibitors) with India Side Event, Germany**
- 18.04. - 19.04. [5th Edition of Green Hydrogen in India](#), by India Infrastructure
- 18.04. Webinar on Green Shipping for Hydrogen
- 09. - 11.04. **Indian Business delegation to [World Hydrogen Summit 2023](#), Rotterdam, Netherlands**
- 11.04. Indo-German Green Hydrogen Dialogue, Berlin, Germany
- 28. - 29.04. Trade Fair and Conference [RenewX](#), Hyderabad, India
- 01. - 05.05. Conference and Trade Fair [India Energy Storage Week](#), Delhi, India
- 14. - 16.06. **Indian Business delegation to [Intersolar Europe](#), Munich, Germany**
- 03. - 04.08. Conference [Green Hydrogen India 2023](#), Greater Noida, India
- 04. - 06.10. **German Pavilion at trade fair and conference [Windergy India 2023](#), Chennai, India**
- 04. - 06.10. **German Pavilion at trade fair and conference at [Renewable Energy Expo 2023](#), Greater Noida, India**

If not received yet, please access upcoming events [here](#). Any additional events to be considered kindly let us know [hydrogen@energyforum.in](mailto:hydrogen@energyforum.in)

**Thank You**