









The Future of Clean Energy

Green Hydrogen, Power To X

An opportunity to Decarbonise our world

Presented by- Mr. Siddharth Mayur Founder and CEO

h2e Power Systems Private Limited





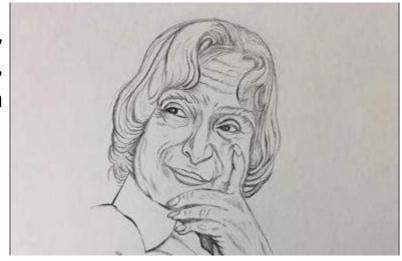
For, each man can do best & excel in only that thing over which he is passionately fond, in which he believes, as I do, that he has the ability to do it, that he is in fact born & destined to do it.

- Dr. Homi Jehangir Bhabha

The Startup Inspiration

Unless India stands up to the world, no one will respect us. In this world, fear has no place. Only strength respects Strength.

- A P J Abdul Kalam









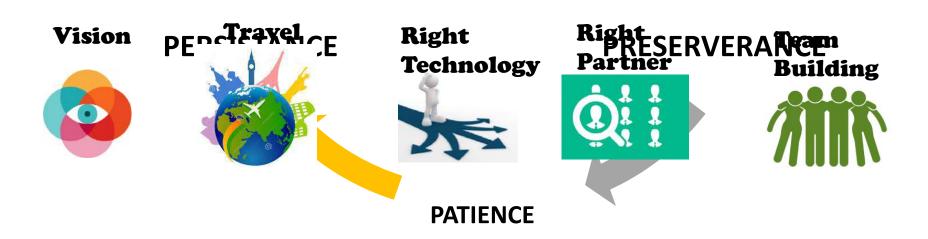


MY JOURNEY AS AN Startup ENTREPRENUER

PURPOSE

Path to becoming a Social Entrepreneur

PASSION



The Climate Catastrophe

- World's BIG Dilemma
 - Save the Planet
 - Grow & Develop





Startup's in Hydrogen; Hydrogen itself is a Startup

NetZero is not a Software Startup

We are not a Zero to Hundred in 6 Second Industry

Innovation is the KEY







Refineries



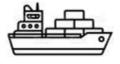
Aviation Industry



Fertilizers



CHP Buildings and Industry



Shipping



Agriculture Farm to Fork "BJ-UJRA"



Chemical



H2 Gensets



Component Manufacturing





Electrolyser

We are manufacturing all types of Electrolyser AWE, PEM, AEM , SOE



Hydrogen Compressor



Balance of Plant (BoP)

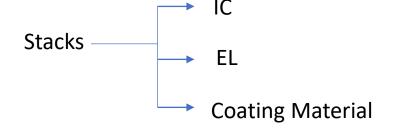


Cylinders



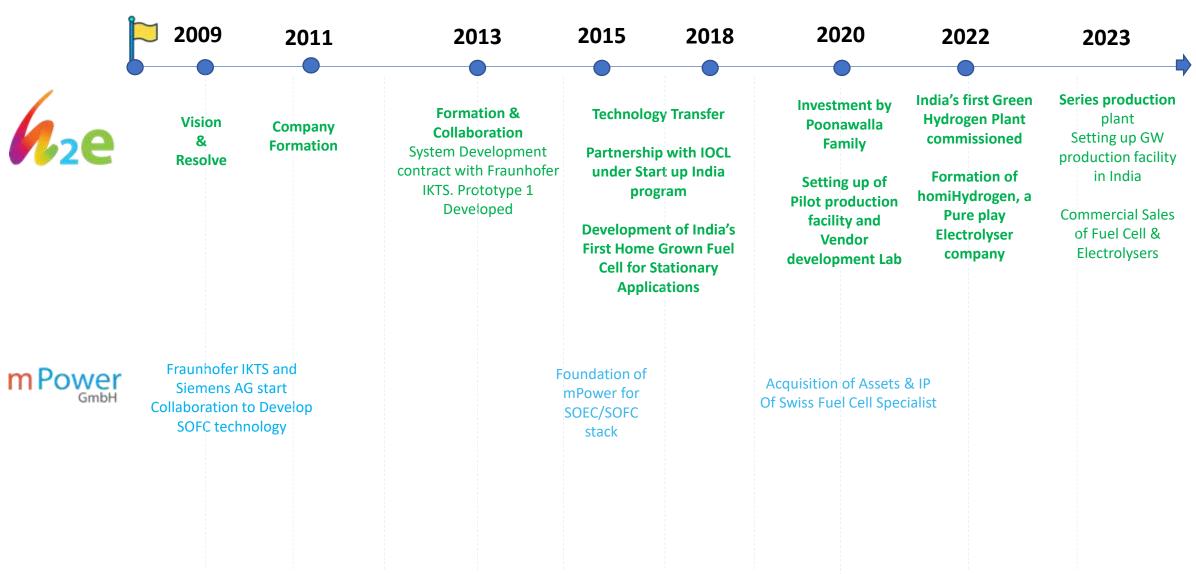
Waste to GH2





TIMELINE





h2e's Business Profile **Green Solutions E-Fuels Products Industry Solutions GH2 & Derivatives** homiHydrogen **KalamFC Power Solutions** GH2, NH3 SAF, GH2, NH3, Steel, Agriculture, **Production** Fuel Cell Electrolysers **EPC** Methanol Shipping **AWE** SOFC Micro-Grids Green Steel Production & Sale of Co-Electrolysis (Syngas) AEM GH2, NH3 for Power Back-up Sugar to SAF **PEMFC AMSE** SAF from Syngas domestic & export End to End value chain Ammonia SOFC for PEM NH3 markets MFC (EPC) Shipping SOE Confidential @h2ePower2023 9

H2e's contribution to India's H2 dream





India's First Electrolyser Manufacturing Company





Fuel Cell Energy Solution from 1kW – MW (Stationery and Mobility applications)







Ohm Cleantech Private is Greentech company focused last mile NetZero Solutions for zero emission mobility & clean cooking.

Zero Mobility Solutions



Clean Cooking-Annapurna Multi-Purpose Energy Pod



H2E IP CREATION AND DEVELOPMENT TIMELINE **TIMELINE** Commercialization and mass production **Patents** Catalyst, 2 • Prototype development **Fuel Cell** • Product & Solutions system, 8 development Reformer, 4 Proof of Concept • h2e Technology hunt Patents: 30+ • Technology Transfer **Key Patents description** • SOFC Technology INTEGRATED **THERMALLY ADAPTIVE ELECTRICAL HEATER Development by Siemens HOTBOX WITH PASSIVE DEVICE FOR FUEL CELL SYSTEMS** and Fraunhofer. INTEGRATION OF MULTIPLE POWER SOURCE WITH OPTIMIZATION OF POWER SOURCE AND LOAD CONDITION

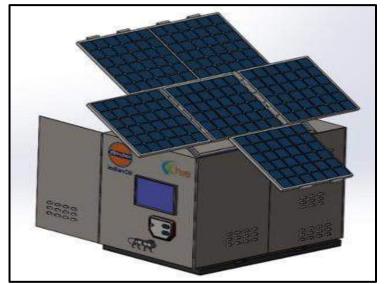


Group's Engagement towards building the Hydrogen Value Chain in India





- India's first SOFC for electricity/heat installed at IOCL R&D
- India's first Hydrogen based forklift: PEM fuel cell zero emission forklift, a challenge undertaken and delivered by team h2e.
- Fuel Cell Hybrid for off-grid EV charging infrastructure as part of startup program. Charge2GO will provide independent power infrastructure for EV charging using Biogas. City's waste to Power City's Vehicles
- h2e has filed 6 Joint Patents with Indian Oil
- h2e is currently building a Solid Oxide electrolyser for Indian Oil, to be commissioned in April 2023









Group's Engagement towards building the Hydrogen Value Chain in India





- Successfully commissioned India's first Green Hydrogen and Blending plant at PS3, Jorhat
- 100KWh of renewable energy to produce 10Kg of Green Hydrogen per day with capacity to scale up to 30Kg per day with a Blending Skid for Blending GH2 with NG
- Hydrogen Fuel Cell Bus flagged off by the Honorable Prime Minister
- Development of LOHC as part of SNEH, Startup Initiative of OIL



Urja Udhyami Program

. An integrated skill development program for developing energy entrepreneurs.

. A 9-month end-to-end program on the functional training for on ground implementation of NetZero Solutions.

. We target creating 100,000 Urja Udhyami, thus creating > 1 Million Green Jobs & a billion NetZero Indians. Climate change "vaccine"

LEANER







NetZero Solutions

- . Mini / Micro Grid
- Residential, Industry
- . PTX
- . Green Agriculture
- . Green Steel
- . Storage LOHC, Metal hydrite cylinders

Green Hydrogen

- . Electrolysers
- AWE, PEM, AEM, SOE
- . e- fuels
 - Ammonia
 - SAF
 - Methanol



E-Mobility

- . EV Charging Infrastructure
- . ZEV
- -- Fuel Cell 3-wheeler -- Fuel cell bus



Fuel Cell

- . SOFC (Input- NG, Methanol, H₂, NH₃)
- . PEMFC (Input- H₂)





Race to Zero

. NetZero Advisory Service .EPC/BOO

Our Brands

"Local, Yet Global"

Global Partners























NUVERA"















Best time to be an Indian Startup, but are we ready to set Benchmarks?

- My German Experience and the praise for India in Germany
- Handholding Support by DPIIT & InvestIndia: Never felt so pampered ©
- Ecosystem in place Proactive Ministers, Hyper active Ministries
- India's image Globally Thanks to India's Brand Ambassador, Our beloved Prime Minister
- Are we Ready?
 - We are still not an innovator
 - Failure is still a Crime
 - How much you have, and not how much you know, gets business
 - Ethical Codes



A Startup's Big Opportunity in GH2 in India (Challenges for company)

- The China+ opportunity
- Honorable Prime Ministers Vision of making India, Energy Independent (Zero Imports) by 2047 & NetZero by 2070
- The National Green Hydrogen Mission backed by action on ground opens up a Billion \$ opportunity
- Startup's best positioned to deliver the leadership position in GH2 to India
- Greater the Opportunity, bigger the Challenge
 - Green Hydrogen's L1 Curse
 - Walk the Talk, easier said than done
 - Is India serving European Interests?
 - Banking Infrastructure for Startup's
 - How many Indian companies in Top 10 GH2 startups? Zero (Germany: 2, Canada: 3, UK: 2, USA: 1, Estonia: 1, Israel: 1)



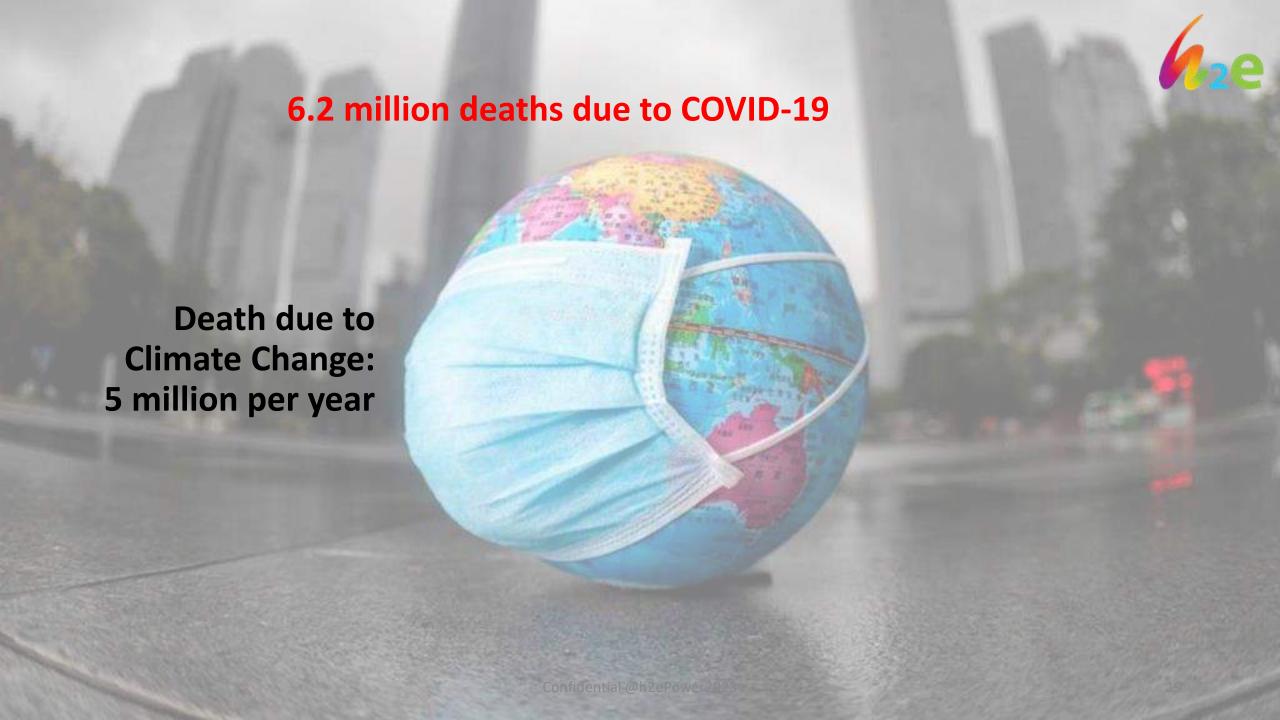
How do we save our Planet & Make Good Business

Conserve

Converge

Collaborate

- To become Climate Responsible
- To Build a Climate Change Vaccine



The Climate Change Vaccine





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Swing for the Fences

When you swing for the fences you're putting every ounce of strength into hitting the ball as far as possible. You know that your bat might miss the ball entirely – but that if you succeed in making a contact, the rewards are huge.

The goal just isn't incremental progress.

It's to put the full force of our efforts and resources behind the big bets that, if successful, will save and improve lives.