HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

PATENT-PENDING TECHNOLOGY

Using Hydrogen Gas to Cut Vehicular Pollution

Up to **50% lower gaseous emissions**

Up to **80% lower particulate emissions**

Up to **25% better mileage**

THE PROBLEM

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

Air Pollution Is a Global Health Emergency



Los Angeles, USA



New Delhi, India



Guangzhou, China



London, England

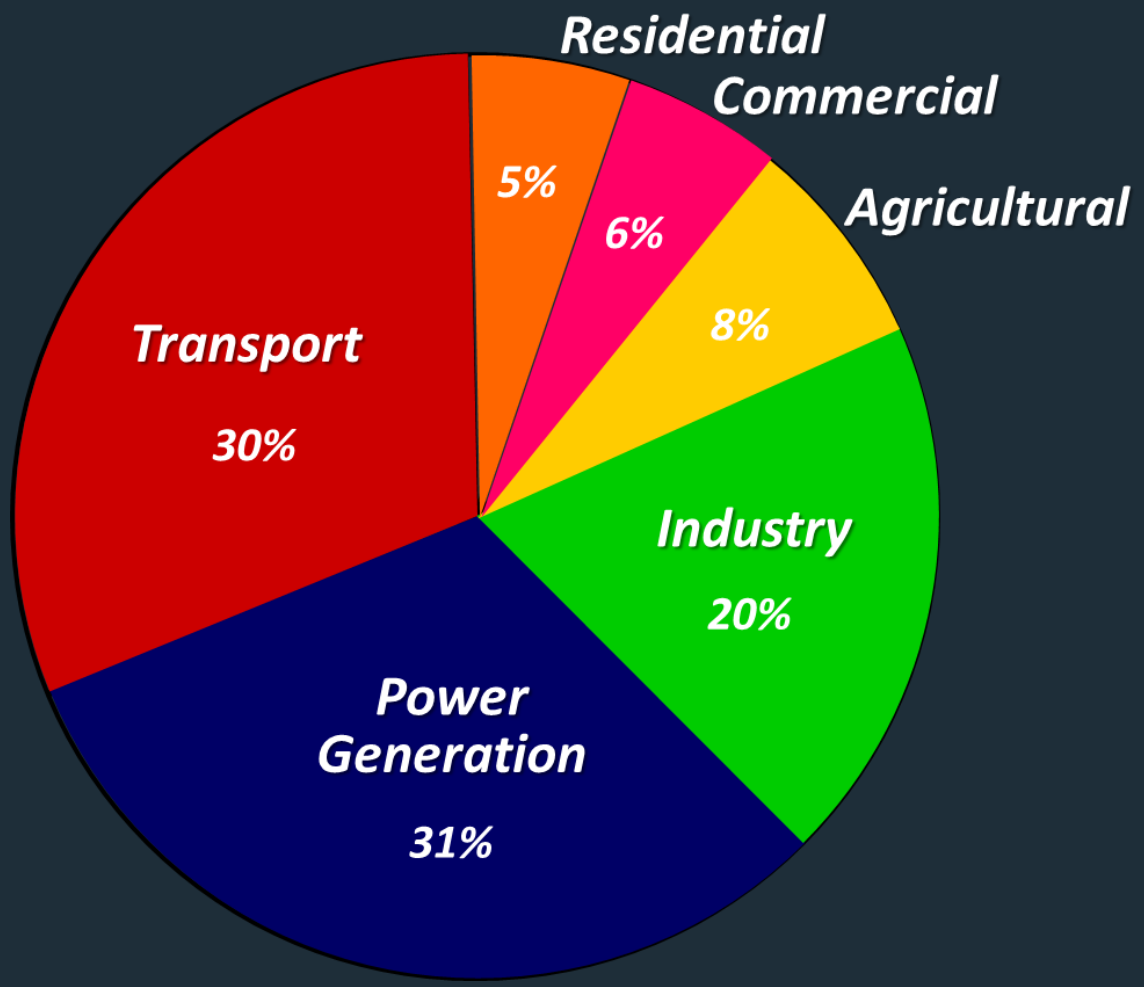
6 MILLION+

premature deaths every year
from air pollution

Air pollution is now the highest cause of premature death in children — claiming more lives than heart attacks, strokes, diabetes and respiratory disease combined.

THE PROBLEM

Transport & Power Generation Drive 61% of Emissions



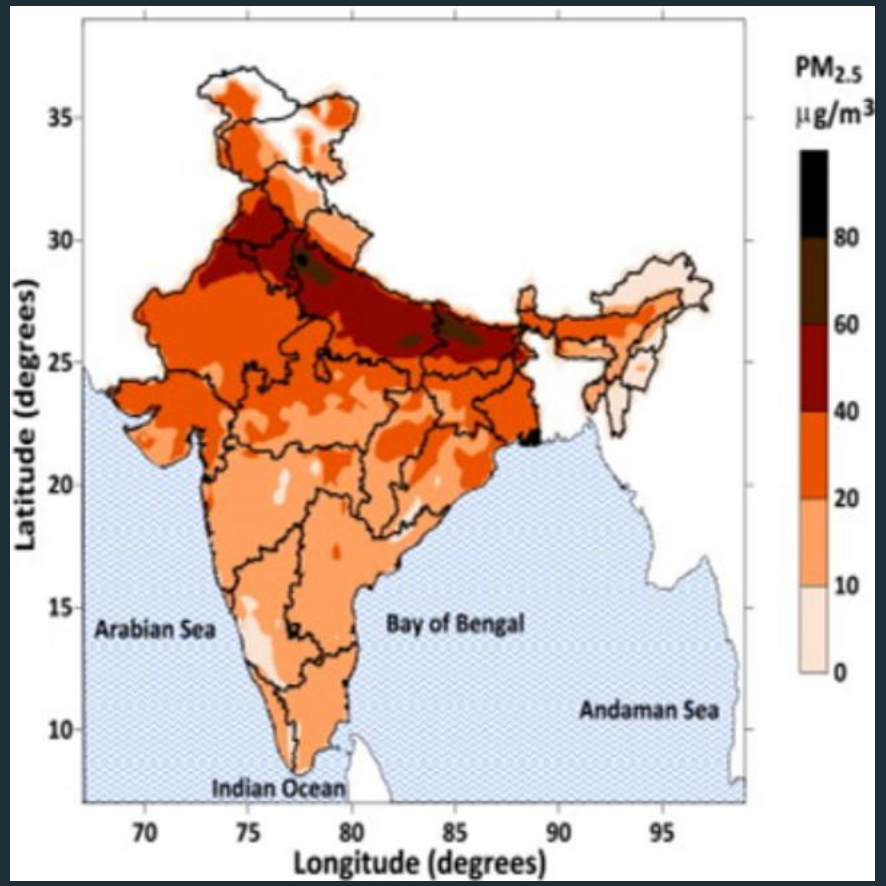
Wouldn't it be wonderful if we could reduce our dependence on oil — the fuel behind 81% of global pollution?

Transport and industry account for the majority of vehicles on the road today — and every hydrocarbon-fuelled engine keeps emitting until it is retired or retrofitted.

HODS targets the 30% share from transport – without waiting for fleets to be replaced.

THE OPPORTUNITY

India's Vehicle Fleet: Too Big to Replace Overnight



PM2.5 concentration across India

280 million hydrocarbon vehicles on Indian roads today

210 million two-wheelers — the vast majority of the fleet

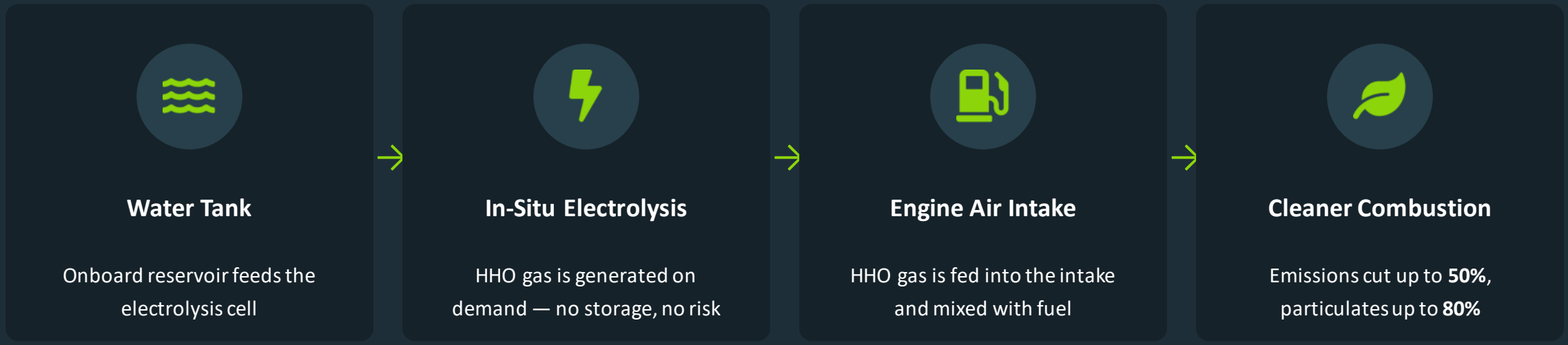
70 million cars & commercial vehicles projected by 2030
cars & commercial vehicles
(projected to increase to 80 million by 2030)

Scrapping BS-IV vehicles for BS-VI helps only marginally — and that transition can't happen overnight. India needs a way to cut emissions from the existing fleet, starting today.

THE SOLUTION

Introducing HODS Technology

Hydrogen-On-Demand Systems technology is based on the in-situ electrolysis of water — developed and perfected over 20+ years.



The ONLY technology available today that reduces emissions from EXISTING hydrocarbon-fuelled vehicles and diesel gensets — ready for implementation now.

OUR EDGE

The F.O.R.D. Advantage: Runs on Plain Tap Water

Traditional electrolysis needs added electrolytes.
Our USP is the Fisher–Oriani Resonance Device (F.O.R.D.
which lets our system work with plain tap water.

Developed and patented by our American collaborators
M/s G&G HODS, LLC, Texas, USA,
building on decades of foundational research.



JOHN C. FISHER
1920 – 2015



RICHARD ORIANI
1919 – 2018

Foundational research behind
the F.O.R.D. resonance principle

Because ferric levels in Indian water are often high, distilled water with a pinch of electrolyte (up to 2g/litre) is recommended to prevent sludge build-up over time — though the system runs just fine on plain tap water.

PRODUCT

The HODS Kit — Field-Tested & Road-Proven



The HODS Kit



Kit Installation



On-Road Test Vehicle



Testing emissions with 5-Gas analyzer

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

Independently Verified: Better Mileage, Cleaner Exhaust

PUC emissions test

Tested with Kit “ON”



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Transport Department, GNCT of Delhi

Date	:	04/03/2023
Time	:	19:01:56 PM
Validity upto	:	03/03/2024

Certificate SL. No.	:	DL0030105001457
Registration No	:	DL2CBA4563
Date of Registration	:	08/04/2019
Month & Year of Manufacturing	:	June-2018
Valid Mobile Number	:	******1921
Emission Norms	:	BHARAT STAGE IV
Fuel	:	PETROL/HYBRID
PUC Code	:	DL0030105
GSTN	:	07AASFD1919K1Z2
Fees	:	Rs.80.00 (GST to be paid extra as applicable)
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm

DL2CBA4563

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	0.3	0.0
	Hydrocarbon (THC/HC)	ppm	200.0	1.0
High Idling emissions	CO	percentage (%)	0.2	0.0
	RPM	RPM	2500 ± 200	2474.0
	Lambda	-	1 ± 0.03	1.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://puc.parivahan.gov.in

Authorised Signature with stamp of PUC operator
60mm x 20 mm

PUC - (Pollution Under Control)

Efficiency test

Up to 25%

Mileage gains reported in the efficiency test.



Kit off



Kit on

INTELLECTUAL PROPERTY

Protected Technology, Clean Structure

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

F.O.R.D. Patent — USA

Filed by HODS, LLC for the Fisher–Oriani Resonance Device, the core enabling technology.

HODS Kit Patent — India

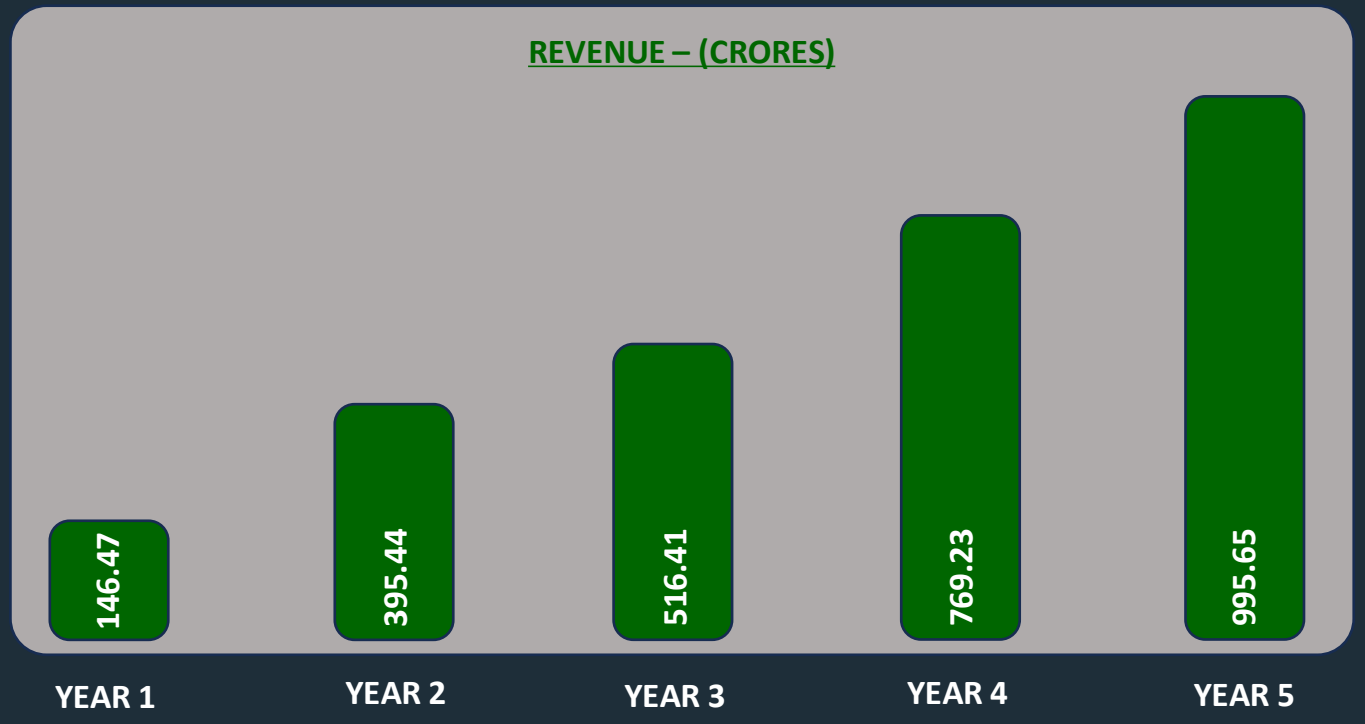
Filed by Hydrogen On Demand Systems Pvt. Ltd. for the complete kit. Now published.

Binding JV Agreement

HODS, LLC and HOD Systems Pvt. Ltd. have a binding JV Agreement for transfer of the F.O.R.D. technology to the Indian entity.

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

Five-Year Outlook: Revenue & EBITDA



YEAR	UNIT SALES	EBIDTA (CRORES)
1	27467	96.29
2	74760	262.80
3	100020	341.52
4	152880	508.29
5	200000	653.80

THE ASK

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

Raising ₹40.00 Crores for 30% Equity

Use of Funds (₹ Crores)

Cost of equity acquisition	4.50
Cost of F.O.R.D. technology	2.41
Cost of HODS technology	7.50
Working capital	25.59
Total	40.00

Pre-money valuation	₹95.00 Cr
Investment	₹40.00 Cr
Post-money valuation	₹135.00 Cr
Equity offered	30%

For ₹ 40.00 Crores, the investor receives 30% equity in the Indian company.

LEADERSHIP

The HODS Team in India



Naresh Sharma

Managing Director

Founder of HODS Pvt. Ltd.; developed the current state-of-art HODS technology in India, designed to work with the F.O.R.D. technology from HODS, LLC, USA.



Siddharth Gupta

Director – Operations & IT

Instrumental in developing the HODS kit alongside the MD. MBA with a specialisation in IT, web design, sales and marketing.



Ishan Nayar

Director – Product Development

Marine engineer with 10 years on tankers. Led the technical design of the final HODS kit since 2018; will join full-time as commercial operations begin.



John A. Hibbert

Overseas Director

Technical and commercial background; built energy-saving technologies in the UK (1979–1983) in the sustainable energy field.

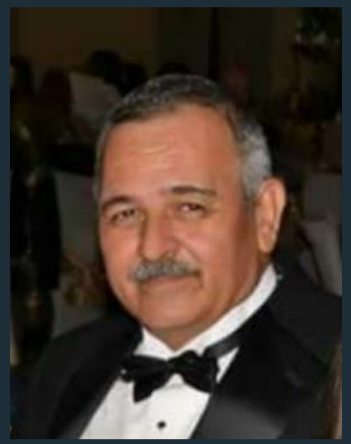
LEADERSHIP

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

Global Collaborators — G&G HODS, LLC (USA)



BEN GRISHAM



JULIO GARLAND

Founding Partners

Met at CarMax; united by a shared interest in mechanical engineering, they founded G&G HODS, LLC in 2006 to pursue solutions for greenhouse-gas reduction.



ARTHUR MILLER

Chief Engineer

B.E. in Mechanical Engineering; postgraduate work at MIT. Built alternate-energy systems at CarMax, including early work on the F.O.R.D. system.



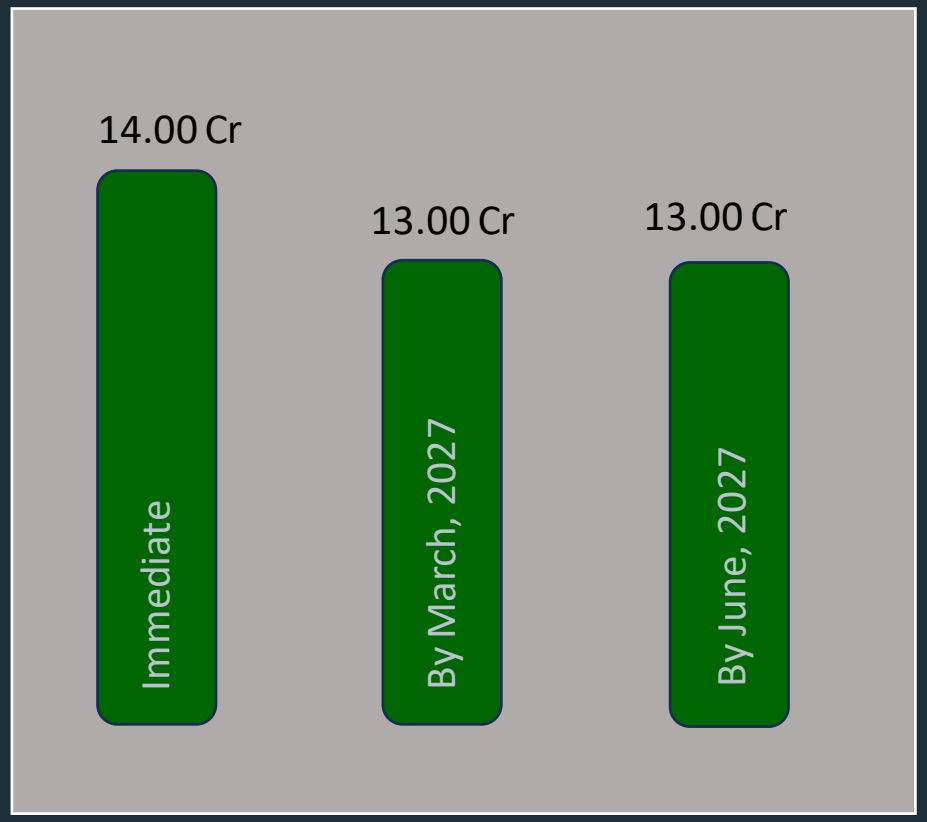
RICHARD MILLER Sr.

HODS Operations – Americas

Leads HODS kit marketing across North and South America and parts of Africa; background in US Navy electronics and non-polluting power systems.

THE ASK

Investment Timeline



₹40.00 Crores

total across three tranches

Shares will be issued on a pro-rata basis as each tranche is received.

SUMMARY

Why HODS, Why Now



Bridges the gap to EVs

The government and auto industry both need years to build EV infrastructure and capacity — HODS cuts emissions from day one.



Only proven retrofit

No other technology reduces emissions from the 280-million existing hydrocarbon fleet without heavy infrastructure spend.



Revenue-ready

First export order of ₹146.47 Cr in Year-1 already secured, ahead of full-scale production.



Government engagement

Secretary- and Minister-level MoRTH engagement, with the factory visited by a High-Powered Committee.

HYDROGEN ON DEMAND SYSTEMS PVT. LTD.

Thank You

Using Hydrogen Gas to Reduce Vehicular Pollution

Hydrogen On Demand Systems Pvt. Ltd. • New Delhi, India