TDM	729.89	915.51	185.62 - 25.43%	FLR	660.27	745.28	85.01 4 12.88%
HUM	749.73	924.29	174.56 4 23.28%	UVD	155.59	181.57	25.98 4 16.70%
DMW	833.72	1004.01	170.29 \$ 20.43%	QUV	440.55	540.21	99.66 4 22.62%
YZJ	903.49	1127.46	223.97 - 24.79%	HZT	285.51	344.98	59.47 - 20.83%
GLY	982.07	1219.39	237.32 - 24.17%	PCW	811.44	1029.66	218.22 - 26.89%
VDA	113.74	143.41	29.67 4 26.09%	AIK	361.77	451.39	89.62 424.77%
UVV	468.08	535.41	67.33 A 14.38%	ZJJ	858.36	994.57	136.21 4 15.87%
HJS	545.49		113.56 - 20.82%	RHJ	894.79	1046.68	151.89 4 16/97%



CARBON NEUTRAL BATTERIES ISOEC/SOFC

Investing into a more sustainable and economical future

Company Information

NVH is a 5-year-old UK based Research & Development (R&D) commercialising small to medium scale high performance Solid Oxide Electrolyser Cell (5kW to 100kW) for green hydrogen production and storage.



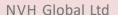
Our mission is to embracing the circular economy, optimise resource efficiency in driving down carbon emission.



Our goal is to work as part of the supply chain to provide technology to produce and store carbon-zero, cost- effective off-grid energy.







Executive Investor Summary

NVH Team with industrial and research expertise working together for 5 years

NVH has invested over £1,000,000 in its sustainable water and carbon- neutral energy Know -How

Low- cost Phosphorus and Nitrogen recovery process developed via a £1m Newton Grant with University of Surrey

Close partner network with trusted partners in China, Nigeria and India

Open to collaboration with company with similar interests Languages spoken in the company: English, German, Hindi, Nigerian, Chinese and Mandarin

INVESTMENT CALL

- 4% Equity for sale against £400,000
- To commercialise optimised Solid Oxide Electrolyser cell
- Laboratory cells were independently valued at £11m to £15m
- Experienced team to refabricate within six month for commercial accreditation
- Manufacturing agreement using NVH staff organised

- NVH has invested £400,000 in the research and optimisation
- Cost to source materials, fabrication £150,000
- Stack integration into four 5kW systems for industrial testing £250,000
- During optimisation develop manufacturing licencing agreements
- Selling stack 5kW for £2000 to 100kW system for £50,000

Problems / Opportunities

Problem to be solved with NVH SOECs:

- To produce safe carbon-neutral green hydrogen on-site
- To store excess energy from solar and wind to be released when required
- To support Micro- Combined Heat and Power (CHP) system to be designed for buildings to use excess heat to produce on-site electricity.
- Increase availability of efficient sustainable small to medium SOEC stacks for integration into the supply line for off-grid energy production.

Opportunities for NVH SOEC Stacks



Reversible SOEC /SOFC offering Fuel Flexibility operating on a variety of fuels. Including hydrogen, natural gas, biogas and some liquid fuels



Remote and off grid Power



Microgrids and Distributed generation



Backup and emergency Power



Specialised Applications for micro –cogeneration systems

Identifying Early Adopters



Target

Target Solar Companies to integrate into the energy value chain



Start

Start with pilot-ready customers (construction, solar farms, transport)



Focus on

Focus on long-duration and distributed projects with high diesel costs and intermittent energy supply

Our Value Proposition

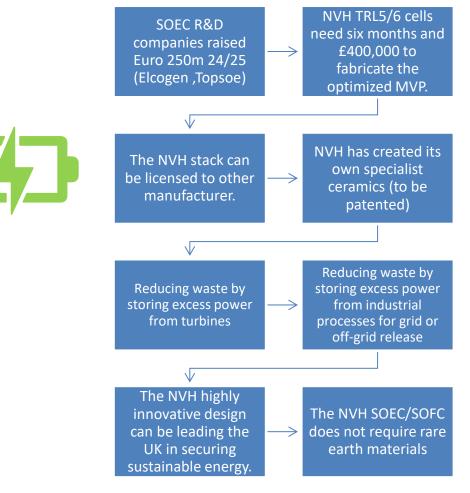




Green energy goes to waste due to lack of storage. In 2023 58.7TWh lost to power 24 mn household FT Feb 2025



Local Impact of datacentres and growing consumption pose challenges at local level



NVH Global Ltd

Market Drivers for Small to Medium size SOEC

- The global green hydrogen market was valued at approximately \$4.1 billion in 2022 and is projected to grow at a CAGR of 39.5% to reach over \$100 billion by 2030 (Allied Market Research) 2025).
- This growth is driven by decarbonization targets, energy security initiatives, and rising renewable energy generation.
- Solid Oxide Electrolyser Cells (SOECs) are a next-gen technology segment within this market, gaining attention due to their high efficiency and ability to use waste heat in hydrogen production.
- India, the EU, China, and the US have all committed to hydrogen roadmaps, with billions earmarked for production, storage, and deployment infrastructure, including off-grid and mobility-based hydrogen use cases.



SOEC'S COMPETITIVE ADVANTAGE OVER OTHER ELECTROLYSER CELLS

Proton Exchange Membrane (PEM) operational challenge is the systems acidity, which means very scarce and costly noble metals are required for the electrocatalysts and coating layers. The cells can not produce ammonia nor methanol capital costs of a PEM plant for These materials Hydrogen. significantly Benefit of PEM operations is its fast increase the start- up and low temperature 70°-Operational efficiency between 40%

- Solid Oxide Electrolysis (SOEC) operational challenge is the systems high temperature start-up of 600°–800°C. NVH SOEC operate at less than 500°C.
- NVH SOEC uses less electricity to produce hydrogen, ammonia, methanol or syngas. Its high operating temperature, taking in waste heat makes the process commercial.
- NVH SOEC produces hydrogen at nearly 90 percent electrical efficiency without excess heat and can reach 100 percent efficiency when using waste heat from industry.
- NVH SOEC does not require noble metals or rare earths.

NVH Global Ltd NVH GLOBAL LTD



Revenue Growth Driven by Scalable Tech and Licensing



Year 1: Certification, smallscale sales Spent £500,000



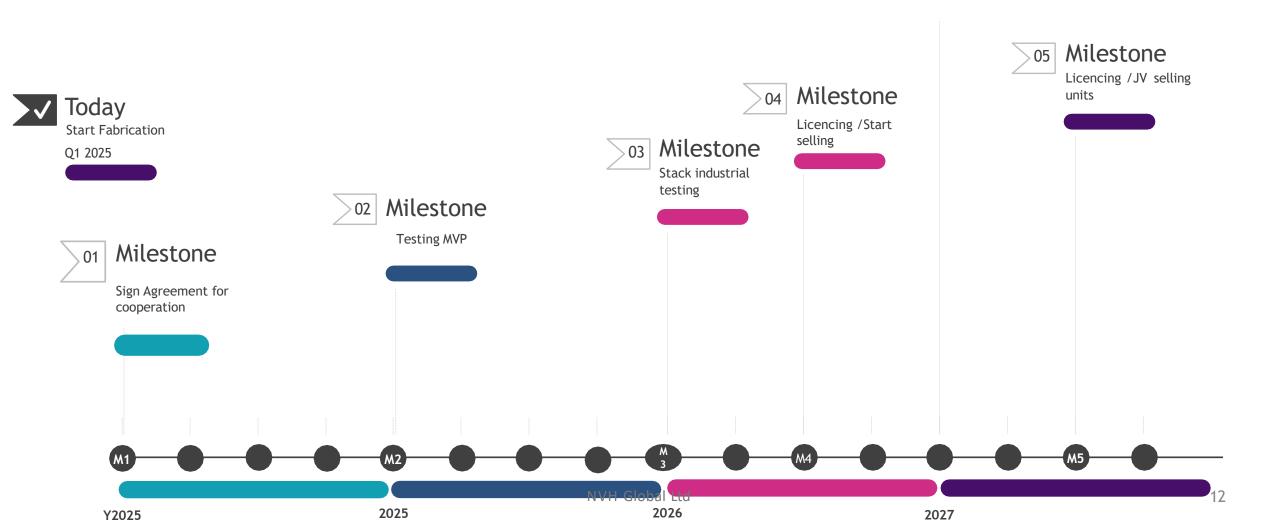
Year 3+: Global expansion and manufacturing scaleup
Estimated sales
£2.6 m



Year 2: Strategic licensing
Estimates sales £1m



NVH SOEC roadmap





Why This Team Wins



Deep domain expertise in energy tech, commercialization, and policy.



International network across Europe, Asia, and Africa.



Built around a shared mission: scaling sustainable hydrogen solutions with unique IP in SOEC and microbial electrolysis.



The team is already global, already building, and already plugged into public and private capital flows.

Detail Team Structure



Dr Hannah Simcoe-Read (Founder and CEO)

Has successfully taken spin outs to market over 20 years in Germany , UK and India Dr Junbin Huang has 4 year industrial experience in the China and UK working in water industry.

His expertise is CO2 sequestration and water treatment and microbial electrolysis.

Dr Aastha Sahai has 10 years project leading experience as grant funded genetic biologist.

However her commercial experience is in the biotech sector.

Dr Jing Li has just completed her PhD is SOEC s at University of Surrey ,but worked previously in the industry in China. She will supervise the development and fabrication of the SOEC in Beijing Dr Yuheng Lui has 3 years industrial experience in cell design working in the foremost Fuel cell company in China and now completing his PhD. He is working 20 hours with NVH

FCO: Mayur Sanchet FCA

Thomas Hergenhahn , has taken several companies to commercialisation and sale .

Investment banker

NVH Adviser s

Prof Nigel Brendon OBE FREng FRS, Dean of Faculty of Engineering Imperial College and Professor of Sustainable Energy Dr Paul Boldrin of the School of Mining, Imperial College NVH has an MOU with a team of 26 highly qualified engineers in India (Jesvid Cryo technical Services) as part of development and



Leadership Team Overview

Our team

Dr. Hannah S.R. – Founder & CEO: 30+ yrs in development & policy

Dr. Jing L. – Materials

Lead: SOEC PhD.

industrial exp.

Junbin H. – Technical Officer: CO₂ sequestration expert

Dr. Yuheng L.– Fuel

Cell Design: Industrial

+ academic fuel cell

expertise

Dr. Aastha S. – COO: Business development

Mayur S. – FCO: FCAqualified, financial controller

Thomas H.
CCO / Go-to-Market
Lead

Prof Nigel B. & Dr Paul B. NVH Advisor

Policy / Regulatory Lead

Strategic Roles

CEO Visionary

CTO / Technical Depth

COO / Operations

Product Lead for Materials

Product Lead for Fuel Cell Design

CFO / Finance

CCO / Go-to-Market and Head of Market Development.

Policy/Regulatory Lead: Optional but Strategic as it helps shape the market and remove policy risks

Lean Rollout Strategy for Accreditations

Build

 Build: Deliver pilot units with monitoring tools

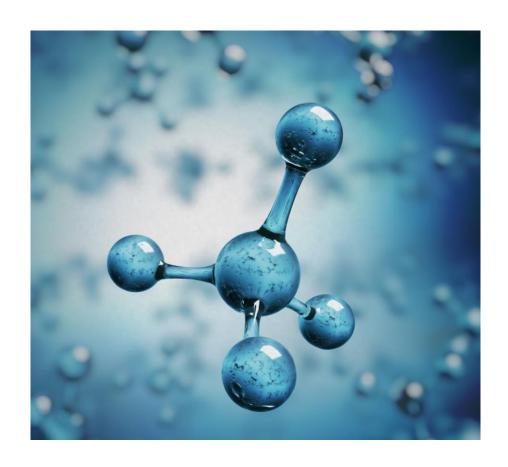
Measure

• - Measure: Track cost, uptime, emissions, customer feedback

Learn

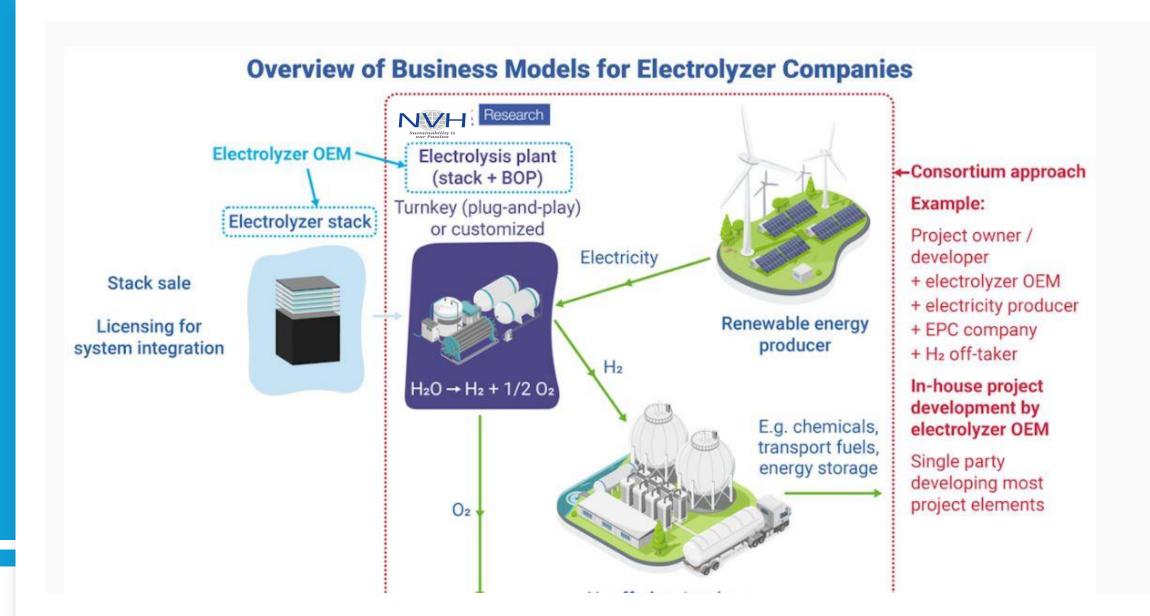
 - Learn: Iterate product design & GYM based on real usage





THANK YOU

APPENDIX Slides to follow



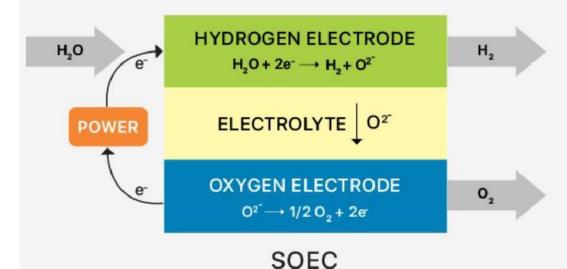


The NVH SOEC/SOFC

The surplus energy from renewable sources can be effectively stored in the form of chemical energy using our Solid Oxide Electrolyser Cells(SOEC).

SOFCs are reversible solid oxide fuel cells that use ceramic electrolytes and are also referred to as Regenerative Solid Oxide Fuel Cells (R-SOFCs)







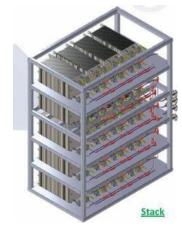


Cost and Tiem schedule for MVP

Activities	February to May 2025 develop test cell		June to December 2025	
R&D	Material To build Cell	£ 15,000.00	Building materials industrial size 3 plants 5KW	£50,000.00
	Fluor Ltd	£ 10,000.00	Staff cost	£182,000.00
	Staff cost China and UK	£ 130,000.00	Laboratory	£30,000.00
	Subsistance	£ 16,000.00	Travel & Subsistance	£25,000.00
		£ 171,000.00	Accrediation	£35,000.00
			Optimisation of cells	£30,000.00
				£352,000.00

Decision time October 2025

- 1) To sell IP Unit to Chinese company
- 2) Do JV with Chinese compnay



NVH Global Ltd



Sales region	Clients NVH Global in discussions with trials and sales
India	HCL re datacentres and offices , direct contact with CEO
	Basic Sanitation pyt Ltd selling to Government clients and Automobile
India	contacts charging point/ close partnership with TATA
India	Corrtech Pvt Ltd selling high tech equipment to Defence Sector
	Anant Design University Mr Dhaval Monani Director & Mc Kinsey , Director of REALL UK needs
India	for off-grid housing development support by Habiat for Humanity UK
	H2 Energy Sdn Bhd provision of moving away from PEM Alkaline units
Malaysia	to SOEC for distributed energy
	Ms Sandra Hon, Merk Life Science and elected to driving green
Malaysia	innovation in Singapore
	EKTI Government Nigeria has asked for an initial 6 100k for trialling , to
Nigeria	ramp up to 10 units 1MW
	Niphu Ltd contacts working with Oil and Gas industry in Nigeria , will
Nigeria	road show
	Welsh Centre of Printing and Coating with direct contacts to TATA and Welsh
Wales	Government - Distributed energy hubs to store hydropower
	Prof Adel Sharif (previously Head of Department UOS now adviser to
Iraq	Iraq PM re Green Energy.
	NVH Director -family owns many Crematoria . Heat has to be wasted and can not be used to
Germany	heat housing, but can be used to produce energy using electrolyser
	PCC and Ministry of Agriculture in Science City seeking safe
Philippines	uninterrupted power source
	NVH Adviser Prof Nigel Brandon Imperial using his contacts once the
UK	fabricated cell is available
	Phil Morris Crawley County Council responsible for green hydrogen distributed
UK	green energy to trail at Manor Royal ;

NVH sales enquiries

NVH Global Ltd 15

110111 4 2	oss and B		neet (Jui	· · · · · · · · · · · · · · · · · · ·	
ar	1	2	3	4	5
	2024	2025	2026	2027	2028
	2027	2023	2020	2027	2020
venue					
Total revenue	£0	£136,000	£1,730,000	£3,600,000	£4,070,000
st of sales					
Total cost of sales	£0	(£68,000)	(£865,000)	(£1,800,000)	(£2,035,000)
oss margin Total gross margin	£0	£68,000	£865,000	£1,800,000	£2,035,000
Total green mengin				,	
her operating income					
R&D tax credits	£21,889	£36,000	£40,000	£40,000	£40,000
Grant income	£0	£0	£0	£0	£0
EIS Income	£400,000	£0	£0	£0	£0
Tatal	£421,889	£36,000	£40,000	£40,000	£40,000
Total perating expenses Total operating expenses	(£258,419)	(£634,100)	(£600,600)	(£632,500)	(£634,000)
perating expenses Total operating expenses	(£258,419)	(£634,100)	(£600,600)	(£632,500)	(£634,000)
perating expenses					
perating expenses Total operating expenses	(£258,419)	(£634,100)	(£600,600)	(£632,500)	(£634,000)
Total amortisation and depreciation	(£258,419) £163,470	(£634,100) (£530,100) (£2,500)	£304,400 (£7,333)	(£632,500) £1,207,500 (£9,583)	(£634,000) £1,441,000 (£13,833)
perating expenses Total operating expenses EBITDA	(£258,419) £163,470	(£634,100) (£530,100)	(£600,600) £304,400	(£632,500) £1,207,500	(£634,000) £1,441,000
Total amortisation and depreciation	(£258,419) £163,470	(£634,100) (£530,100) (£2,500)	£304,400 (£7,333)	(£632,500) £1,207,500 (£9,583)	(£634,000) £1,441,000 (£13,833) £1,427,167
Total amortisation and depreciation EBIT Interest	£163,470 £0 £163,470	(£634,100) (£530,100) (£532,600) (£532,600)	(£600,600) £304,400 (£7,333) £297,067	(£632,500) £1,207,500 (£9,583) £1,197,917	(£634,000) £1,441,000 (£13,833) £1,427,167
Total amortisation and depreciation EBIT EBIT EBIT	£163,470 £163,470	(£634,100) (£530,100) (£2,500) (£532,600)	£304,400 (£7,333) £297,067	(£632,500) £1,207,500 (£9,583) £1,197,917	(£634,000) £1,441,000 (£13,833) £1,427,167
EBITDA Total amortisation and depreciation EBIT Interest Retained profit	£163,470 £163,470 £0 £163,470	(£634,100) (£530,100) (£532,600) (£532,600)	(£600,600) £304,400 (£7,333) £297,067	(£632,500) £1,207,500 (£9,583) £1,197,917 £0	(£634,000) £1,441,000 (£13,833) £1,427,167
Total operating expenses EBITDA Total amortisation and depreciation EBIT Interest Retained profit	£163,470 £0 £163,470	(£634,100) (£530,100) (£532,600) (£532,600)	£304,400 (£7,333) £297,067 £0	(£632,500) £1,207,500 (£9,583) £1,197,917	(£634,000) £1,441,000 (£13,833) £1,427,167 £0
EBITDA Total amortisation and depreciation EBIT Interest Retained profit lance Sheet Cash at bank Total assets	£163,470 £163,470 £0 £163,470	(£634,100) (£530,100) (£532,600) (£532,600)	£304,400 (£7,333) £297,067 £0	(£632,500) £1,207,500 (£9,583) £1,197,917 £0	(£634,000) £1,441,000 (£13,833) £1,427,167
EBITDA Total amortisation and depreciation EBIT Interest Retained profit lance Sheet Cash at bank	£163,470 £163,470 £163,470 £163,470	(£634,100) (£530,100) (£532,600) (£532,600) (£532,600)	£304,400 (£7,333) £297,067 £0 £297,067	(£632,500) £1,207,500 (£9,583) £1,197,917 £0 £1,197,917	£1,441,000 (£13,833) £1,427,167 £0 £1,427,167 £4,053,020 £4,053,020
EBITDA Total amortisation and depreciation EBIT Interest Retained profit lance Sheet Cash at bank Total assets	£163,470 £163,470 £163,470 £163,470	(£634,100) (£530,100) (£532,600) (£532,600) (£532,600)	£304,400 (£7,333) £297,067 £0 £297,067	(£632,500) £1,207,500 (£9,583) £1,197,917 £0 £1,197,917	£1,441,000 (£13,833) £1,427,167 £0 £1,427,167 £4,053,020 £4,053,020
Total operating expenses EBITDA Total amortisation and depreciation EBIT Interest Retained profit lance Sheet Cash at bank Total assets presented by Equity Loans	£163,470 £163,470 £163,470 £163,470 £163,470	(£634,100) (£530,100) (£532,600) (£532,600) £1,130,870 £1,130,870	£304,400 (£7,333) £297,067 £0 £297,067	(£632,500) £1,207,500 (£9,583) £1,197,917 £0 £1,197,917 £2,625,853 £2,625,853	£1,441,000 (£13,833) £1,427,167 £0 £1,427,167 £4,053,020 £4,053,020 £4,053,020
Total operating expenses EBITDA Total amortisation and depreciation EBIT Interest Retained profit lance Sheet Cash at bank Total assets presented by Equity	£163,470 £163,470 £163,470 £163,470 £163,470 £163,470	(£634,100) (£530,100) (£532,600) (£532,600) £1,130,870 £1,130,870 £1,500,000	£304,400 (£7,333) £297,067 £0 £297,067 £1,427,937 £1,427,937 £1,500,000	£1,207,500 £1,207,500 (£9,583) £1,197,917 £0 £1,197,917 £2,625,853 £2,625,853 £1,500,000	(£634,000) £1,441,000 (£13,833) £1,427,167 £0 £1,427,167



NVH is looking for £500,000 to fabricate and start selling the 5kW SOEC

The Balance Sheet shows the intention to raise £1.5m once the MVP is accredited for manufacturing.

On Accreditraion NVH can licence manufacturing or start fabricating in China.

The Profit and Loss is only showing the development of the SOEC, not other income.