

HYDROGEN H/AFLLOATM

Fuel cell domestic power for boats

Nick Swift - Director

Canals, Boats and Hydrogen



Canal Network

- 6,500 + miles of canals and rivers
- Built from 1770s to 1900s
- Enabled first industrial revolution
- Innovative at their time
- Now re-purposed for leisure

Question

Motorways or canals – which did we open more of in last five years?



Canal as home



Canal as home

- 35,000 live aboard
- 2,500 in London
- Diverse community
- Low carbon life style (mostly)

Answer

Yes it is mostly warm
and snug in winter



Canal as home – the rules

- 14 days any one place
- Tow-path side for mooring
- Move between “districts”
- Make a purposeful journey

Not everyone follows the rules...



Why Hydrogen?

- Climate crisis – need solutions
- Electrification difficult
- Low risk entry for technology
- Gas competent users
- First step towards end to diesel

It works now ...



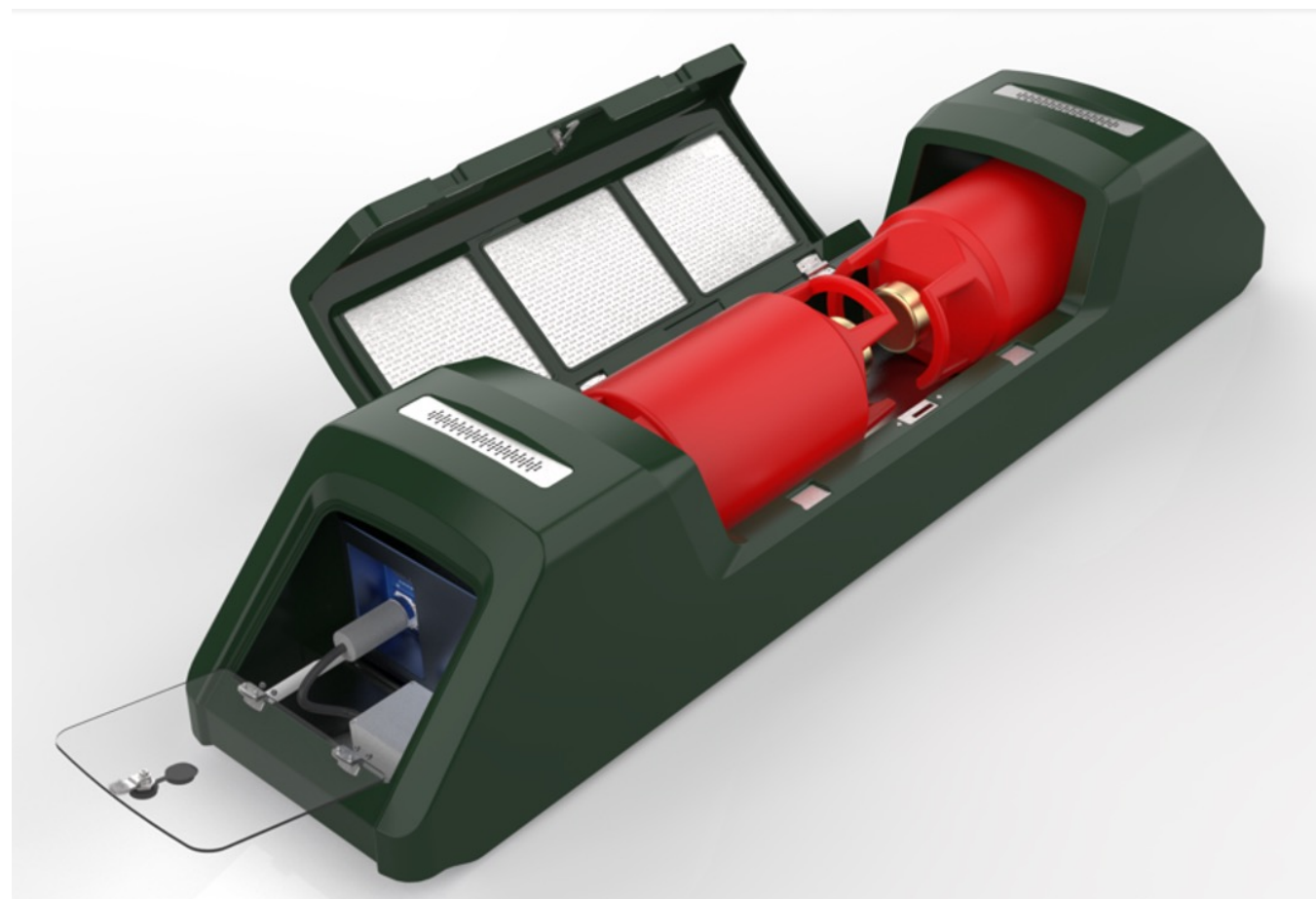
HyArk – the atoms go in two by two...

HYDROGEN
HAFLOAT



Specification

- 200 Watts DC power
- 6.5kWh per cylinder of H₂
- 300 bar. 454g of H₂
- Manual or Auto mode
- Modular and secure housing



HYDROGEN HAFLOAT™

A year of Hydrogen Afloat



Prototype tested

HYDROGEN AFLOAT™

A year of Hydrogen Afloat



Prototype tested

3D model machined

A year of Hydrogen Afloat



Prototype tested

3D model machined

Housing formed

A year of Hydrogen Afloat



Prototype tested

3D model machined

Housing formed

Product finished for boat show

A year of Hydrogen Afloat

Our first advertising



Birdsong
or
Genny ?



What would you rather listen to on a Sunday morning?

We prefer the bird song. Our domestic power system for boats uses a hydrogen fuel cell to creates silent on-board power. Enjoy a peaceful Sunday and learn more www.Hydrogenafloat.com



Be part of the green hydrogen revolution

Hydrogen Afloat Ltd, Mortimer House, 49 Church Street, Theale, Reading, RG7 5BX Company Reg 13756478



A year of Hydrogen Afloat

HIL Online magazine – Nov 2022



UK New Package of Climate Support Announced at COP27



The Clean Hydrogen Accelerator Helping to Secure UK's Energy Supply



Planning Permission Secured for Manchester's First Hydrogen Fuel Hub



Cadent: Hydrogen Ten Point Plan



BOC: Powering Narrowboats with Hydrogen



Lhyfe Launches the World's First Offshore Renewable Green



Hydrogen Trade coverage

A year of Hydrogen Afloat

“Spotted” by
Financial Times

Pro / Briefings

\sifted/ backed by FT
FINANCIAL TIMES

Hydrogen

**Early stage
startup to watch**

A year of Hydrogen Afloat

Exhibited at NEC
next to JLR H2 project



A year of Hydrogen Afloat

Visit from Sir Alok Sharma
MP Chair of COP 26



A year of Hydrogen Afloat

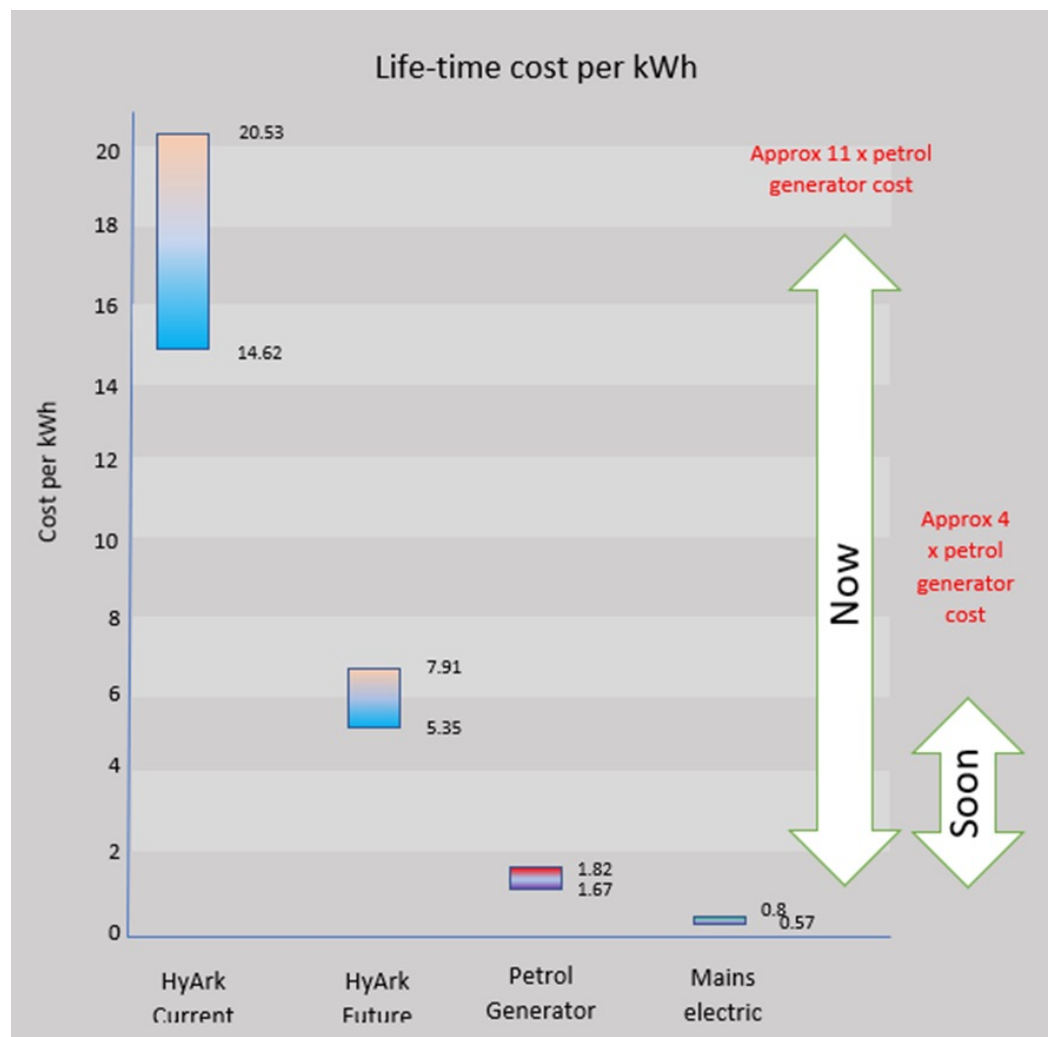


**HYDROGEN
AFLOAT**

Parliamentary Briefing
at Westminster



What next?



Need to improve the economics of operation.

Need cheaper gas.

Develop a second gas supplier with others.

What next?



HyCityLiving

Green living aboard for London

Sponsored scheme for early adoption in London.

Consortium formed.

Grant opportunities being pursued

What next?



Canalside stocking of hydrogen.

Potential for local H2 creation

Hydrogen for propulsion ...

HYDROGEN HAFLOAT™

Thank you for listening

