



# GeoPura



Matt Barney,  
Chief Hydrogen Business  
Officer



Sustainable  
Power  
Now

ZERO EMISSION FUEL

GREEN POWER GENERATION

# Making Hydrogen A Reality

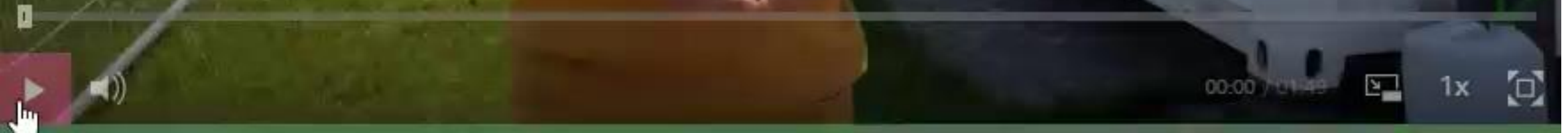


It's thought that hydrogen atoms we use today are generally about 15 billion years old.

Most of the atoms in our bodies are hydrogen, and humans have been using it/burning it about as long as we've existed.

We've often tended to use hydrogen without bothering to take it out of its 'packaging'.



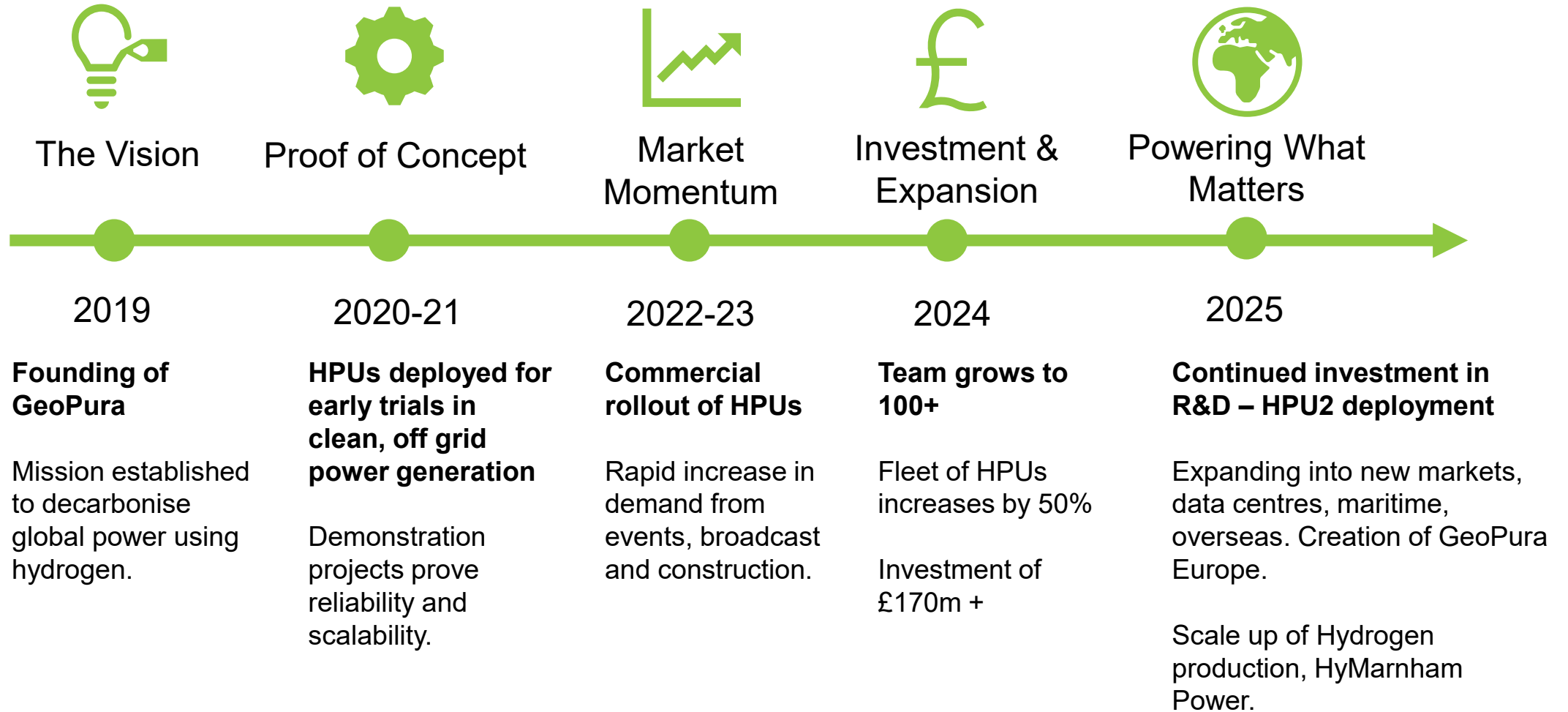




# GeoPura – The Story So Far



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# Our Partners – Driving Regional Investment

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To date GeoPura has raised over **£175m** of funding to invest in zero-emission fuel and energy infrastructure.



# Energy as a Service



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Operating an Energy as a Service model, GeoPura makes transitioning away from traditional diesel sources effortless for off-grid, supplementary and back up applications.



1

## Hydrogen Production

Utilising renewable energy to generate green hydrogen via electrolysis.

2

## Delivery & Refuelling

Full fuel management system – including delivery and refuelling.

3

## Plug & Play Solution

Set up and operated by GeoPura engineers.

4

## Fully Monitored & Maintained

To optimise performance and energy use.

# Our Technology – Hydrogen Power Unit (HPU)

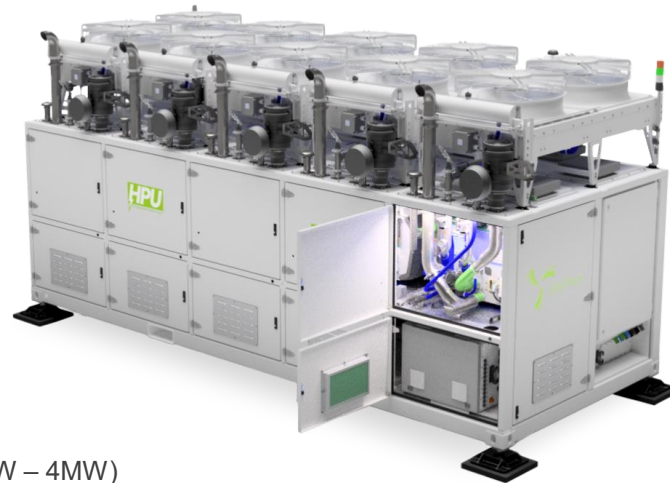


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HPU (250kW)

Zero-emission  
solution.  
The only output is  
water!



HPU2 (500kW – 4MW)



HPU-M (250kW)

Collaborating with **SIEMENS**  
energy

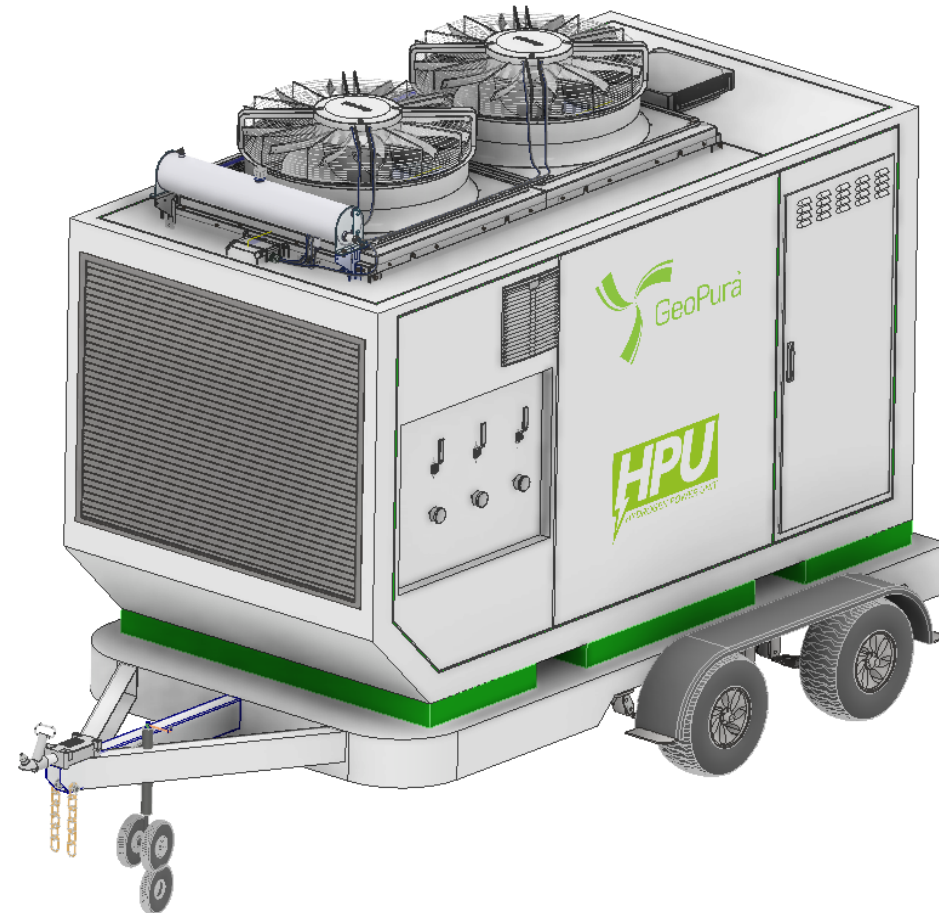
# What's Next – HPU Agile-H



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## Small mobile power systems:

- 80kW zero-emission, critical power
- Lightweight, towable HPU, designed by General Motors and manufactured by Siemens Energy
- Low noise - <65 dB at 1 metre for quiet operation.
- Smart connectivity - remote monitoring with cloud dashboard







- Former coal-fired site at High Marnham
- Production, Storage & Transport Hub
- 15MWe capacity
- 1 of 11 HAR 1 projects



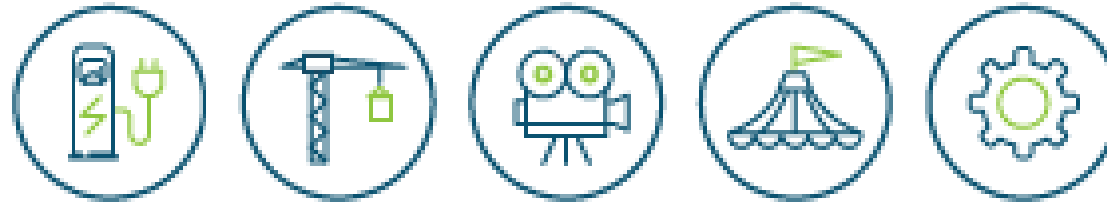


# Our Customers



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- Ideal for EV charging & transport, construction, film & TV production, outdoor events and more bespoke solutions.



- Proven by a wide range of high-profile commercial customers, including:



# Some Recent Deployments



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## Events and Festivals:

### HPU2 at Big Church Festival



### Lido Festival – second stage and site infrastructure



### Main stage at BST in central London





# Some recent deployments



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## Construction and utilities:

National Grid: South Shields



Balfour Beatty – 5 year framework



Northumbrian Water





# Some recent deployments



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## Film and TV:

Plus lots more under NDA...



Unit Base on Downton Abbey  
(Universal)



Production Base on The Diplomat  
(Netflix)



Production Base on Bridgerton (Netflix)

Live broadcast of Amgem  
Irish Open with ESB



A promotional image for the TV show 'Downton Abbey: The Grand Finale'. Four men are standing in front of a white shipping container. The container has a large green 'HPUI' logo and a smaller 'GeoPura' logo with a green leaf-like symbol. The men are dressed in a mix of casual and business-casual attire. The background shows an outdoor industrial setting with a clear sky and some distant structures.

# DOWNTON ABBEY

THE GRAND FINALE

OFFICIAL FEATURETTE



# Hydrogen by Rail



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- Historic first shipment of hydrogen by rail in Britain
- Collaboration across rail and energy sectors
- Rail as a future hydrogen distribution network
- Decarbonisation impact



Vanguard

Rail  
Operations  
Group



# Hydrogen Power at RAF Waddington



- **Zero-emission power demo at RAF Waddington** – reliable off-grid hydrogen power to a semi-permanent hangar.
- **Strong Defence engagement** – RAF, MOD, local government and defence partners
- **Wider decarbonisation** - supported EV charging and the world's first hydrogen-powered Christmas tree.

 **ROYAL  
AIR FORCE**

  
Ministry  
of Defence



# Our People



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# Thank you