



Western Porth y
Gateway Gorllewin

The Western Gateway Partnership

Your powerhouse working together for
greener, fairer growth

Hydrogen Ecosystem

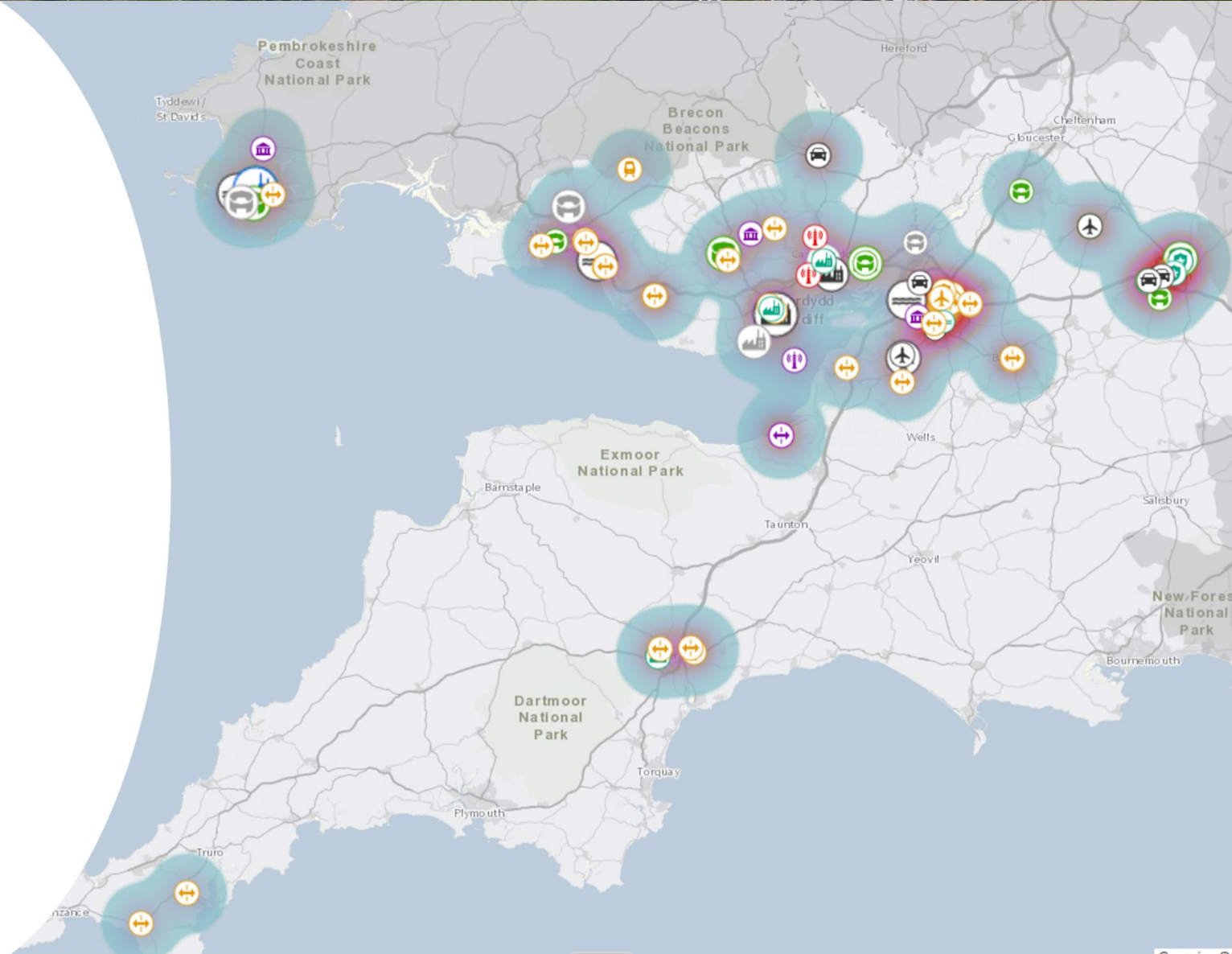
Debby Skellern, 29 Sept 2022



Western Gateway
Porth y Gorllewin

Collaborate: Hydrogen

We have launched the **Western Gateway Hydrogen Ecosystem** to turbocharge the development of low carbon energy to help reach net zero goals.





Western Gateway Porth y Gorllewin



Aviation: Airbus, ZeroAvia, Dragonfly



Maritime: Bristol Port, Associated British Ports



Rail and Road: Riversimple, hydrogen refuelling



Heating: WWU and ABSL, Science Museum Group



Industry and industrial processes: South Wales Industrial Cluster, Johnson Matthey



Research and Innovation: Universities, IAAPS, NCC

Western Gateway Hydrogen Ecosystem



Western Gateway Porth y Gorllewin

The Western Gateway Hydrogen Ecosystem

Providing the nation with a testbed for developing the UK hydrogen economy.

Powering a greener, fairer future

The Western Gateway Hydrogen Ecosystem

The Rt Hon. Greg Hands MP Minister of State for Energy, Clean Growth and Climate Change

"Developing a thriving UK low carbon hydrogen sector is a key part of our government's plan to build back better with a cleaner, greener energy system. It's great to see the Western Gateway leading the way, developing a Hydrogen Ecosystem to highlight investable assets, encourage collaboration and drive innovation across the many areas of our economy that could decarbonise through use of this abundant fuel."

"This pan-regional partnership between south Wales and western England is a key part of our plans to create growth across the union whilst working together to reach net zero. I look forward to working with them to help reach our climate change targets and capitalise on their ambition to build a Green Energy Super Cluster."



The Rt Hon. Greg Hands MP

The Western Gateway Hydrogen Ecosystem

The Rt Hon. Robert Buckland KBE QC MP Secretary of State for Wales

"South Wales and Western England are already leading the way in developing Hydrogen as a clean fuel to help the world decarbonise to reach Net Zero. Through the Western Gateway Partnership, this new Hydrogen Ecosystem is helping to bring together the best of what these areas have to offer across the wide range of potential uses and helping to supercharge this work to meet the challenges we face."

"The Western Gateway Partnership is a key part of the government's plans to level up communities, using cross-border collaboration to deliver those big opportunities which can transform lives. I look forward to working with them to take this work to the next level in the future."



The Rt Hon. Robert Buckland KBE QC MP



Western Gateway Porth y
Gorllewin

[The Western Gateway's
Hydrogen Ecosystem
interactive map](#) brings to life
the scale of our rapidly
evolving Hydrogen
Ecosystem.

Our area is perfectly
placed to deliver on the
Government's ambition for at
least half of the 10GW 2030
hydrogen production target to
be from electrolytic hydrogen





Find address or place

ABSL is working with Wales and West Utilities to deliver the UK's first hydrogen blend in to the gas system. Plans to trial 20% blend

CCM technology used to produce green hydrogen. Use in electrolyzers could reduce the cost of the stack by up to 25%

Refuelling station

Pebley Beach

Arval

Wales and West Utilities

Siemens

Siemens' industrial hydrogen fuel cell system for the National Grid's Viking Link construction project. Potential regional benefits.

Johnson Matthey hydrogen fuel cell R&D and skills facility on site. Hosted the refuelling facility. UK Hydrogen Champion is from JM.

Science Museum's Science & Innovation Park. Renewable energy generation and feasibility for green hydrogen production, Net Zero 2033

SMG Feasibility study

Info Summary



Regional Hydrogen Assets

11


- ABSL Limited Swindon - Hydrogen production
- Arval Swindon - Road
- CCm Technologies Swindon - Industrial
- Hyundai Pebley Beach - Road
- ITM - Equipment manufacturer
- Johnson Matthey - Equipment manufacturer
- Johnson Matthey (Refueling) - Hydrogen production
- Panattoni - Road
- Science Museum Wroughton - Hydrogen production
- Siemens - Equipment manufacturer
- Wales and West Utilities (Swindon) - Utilities

Loss of two refuelling stations at the Panattoni and Johnson Matthey sites impacting lease cars at Arval, Pebley Beach and the Science Museum Group



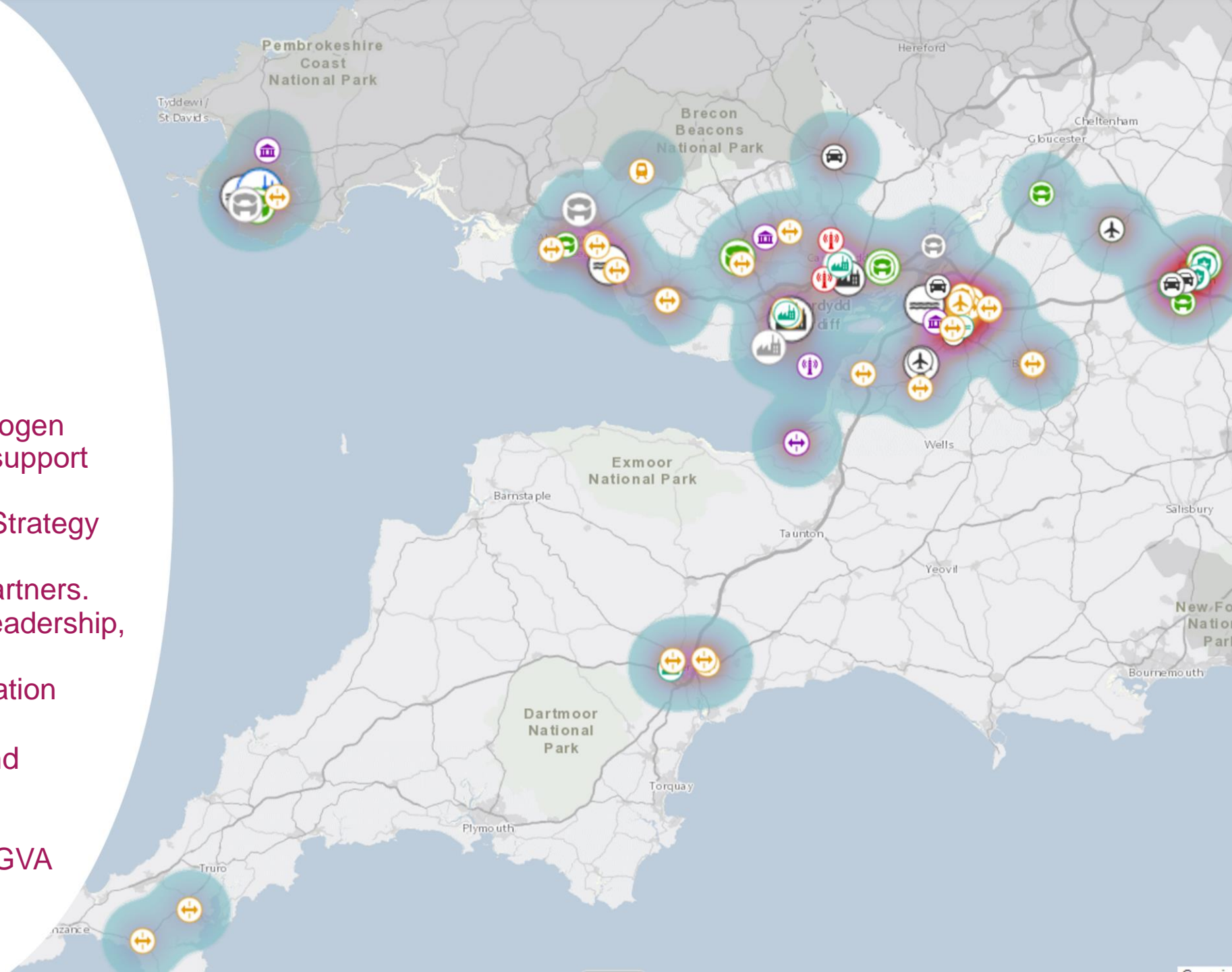
Western Gateway Porth y Gorllewin

Hydrogen Workstream 2022/23

- Launch Western Gateway Hydrogen  Ecosystem in Aug '22 with the support GW4 and SWLEP
- Development of the Hydrogen Strategy and Delivery Pathway to 2050
- Share best practice amongst partners.
- Signpost information, thought leadership, webinars and events
- Foster networking and collaboration

Hydrogen Steering Committee and Working Group

Attracting investment, innovation, GVA and new jobs





Western Gateway Hydrogen Interface

Overarching Strategy

Contribute to the development of the strategy and delivery pathway collectively or individually to help steer the direction of travel to 2050

Hydrogen Scheme Delivery

Stakeholder support and information sharing: raise awareness of programmes and consortia, and projects to develop and deliver hydrogen demonstrators on the ground. Offer letters of support, try and secure ministerial visits to open facilities.

Business awareness

Signposting: from our website to hydrogen related materials e.g. webinars and thought leadership pieces that delivery partners produce which are freely available as a resource for partners and businesses.

Community

Celebrate good news and success stories. Champion issues which need to be addressed which fit with our remit.



Western Gateway Porth y Gorllewin



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Contact us



@WesternGateway_



Western Gateway



**Western
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**Bath & North East
Somerset Council**
Improving People's Lives

