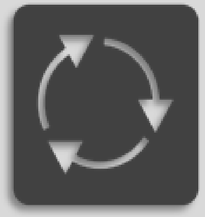
SUSTAINABLE ENERGY WEEK

Smart Regions – Smart Solutions

ENERGY DAY
SHAPING EUROPE'S ENERGY FUTURE
#EUSEW19

SUSTAINABLE ENERGY WEEK

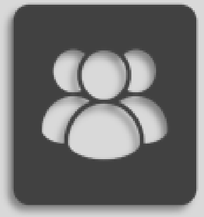
Scotland's energy strategy



A Whole System View,

covering power, heat and transport…

- Taking an integrated approach that recognises the effect that each element of the energy system has on the others; and
- Engages a broad range of stakeholders across the private, public and community spheres to address the challenges and opportunities of the energy transition in the best possible fashion.



A Just Transition,

creating employment and tackling poverty…

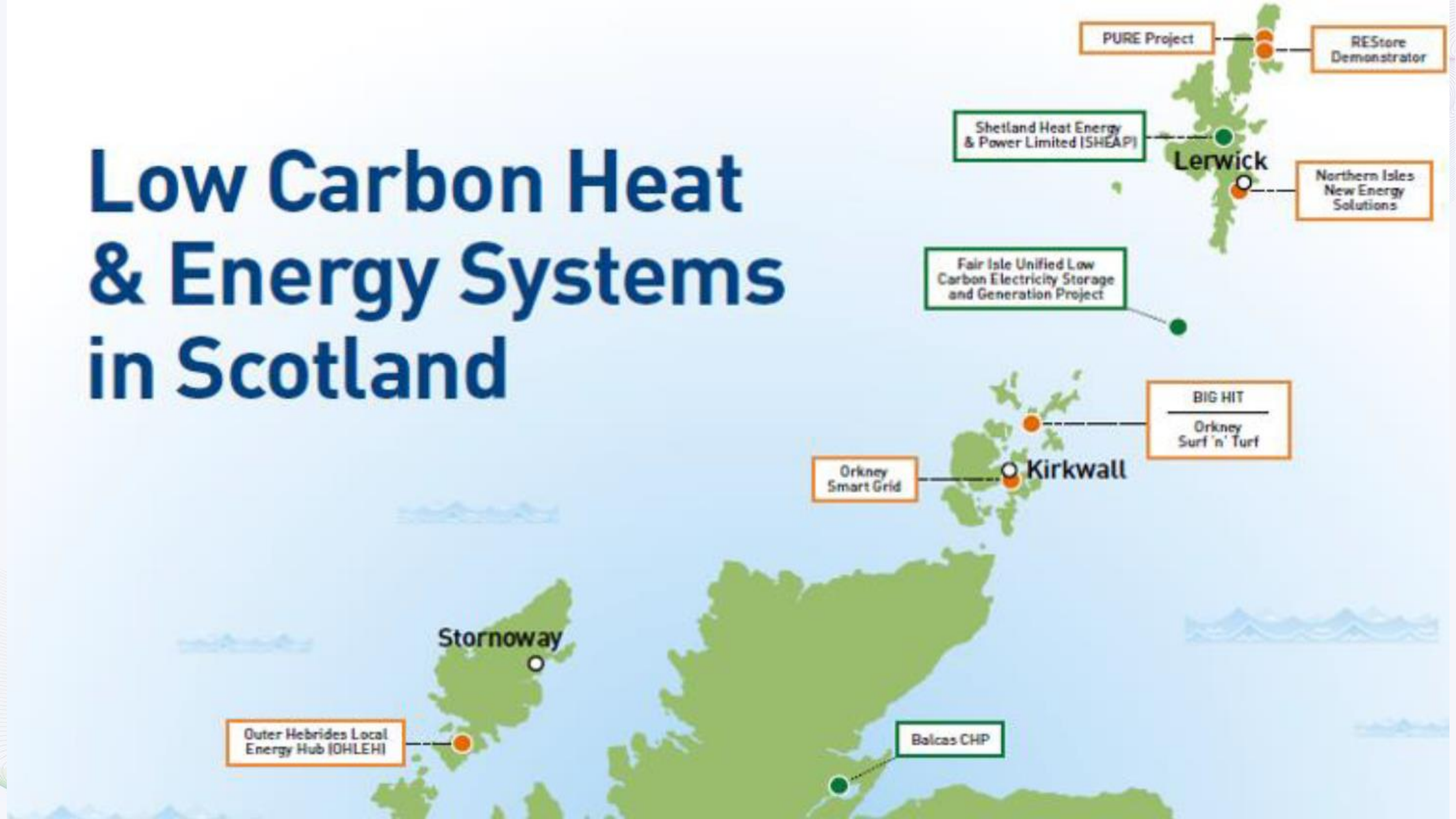
- That seeks to capture the economic benefits of developing and implementing innovative energy solutions across Scotland; and
- Supports investment in energy efficiency measures, which will help to tackle fuel poverty and improve business productivity by making energy more affordable for all consumers.

A Smarter Local Model,

that better meets local energy needs....

- Taking a more coordinated approach to planning and delivering local solutions that link local generation and use; and
- Supporting the creation of vibrant local energy economies (both rural and urban) through the piloting and rollout of innovative local solutions that prove effective and represent good value for money.

Low Carbon Heat & Energy Systems in Scotland




Inverness
Foyers Pumped Storage
Aberdeen
H2 Aberdeen (Hydrogen Bus Project)
AIMAP - Aberdeen District Heating
Eigg Electric
Abernethy Project
Keithick Biogas Plant
Assisting Communities to Connect to Electric Sustainable Sources (ACCESS)
SMART for Fintry
Low Carbon District Energy Hub Dundee
Cruachan Pumped Storage
Hillpark Drive Heat Pump Project
Guardbridge Energy Centre
Fife Energy Park
CalMac Hybrid Ferries
Edinburgh
Levenmouth Hydrogen Project
Hunterston Energy Storage Project (HESP)
Glasgow
East Heat Thermal Storage
Accelerating Renewable Connections (ARC)
Viridor Recycling & Renewable Energy Centre
Power Networks Demonstration Centre
National HVDC Centre
Borders College SHARC Project
Key
Energy Systems Project
Low Carbon Heat Project

SUSTAINABLE ENERGY WEEK

Orkney ‘out of the box’

Orkney has 90 islands and islets

20 are currently inhabited

Population: 21,000 people

Total coastline: about 500 miles

Capital: Kirkwall

ENERGY DAY
SHAPING EUROPE’S ENERGY FUTURE
#EUSEW19

Local energy systems in Orkney

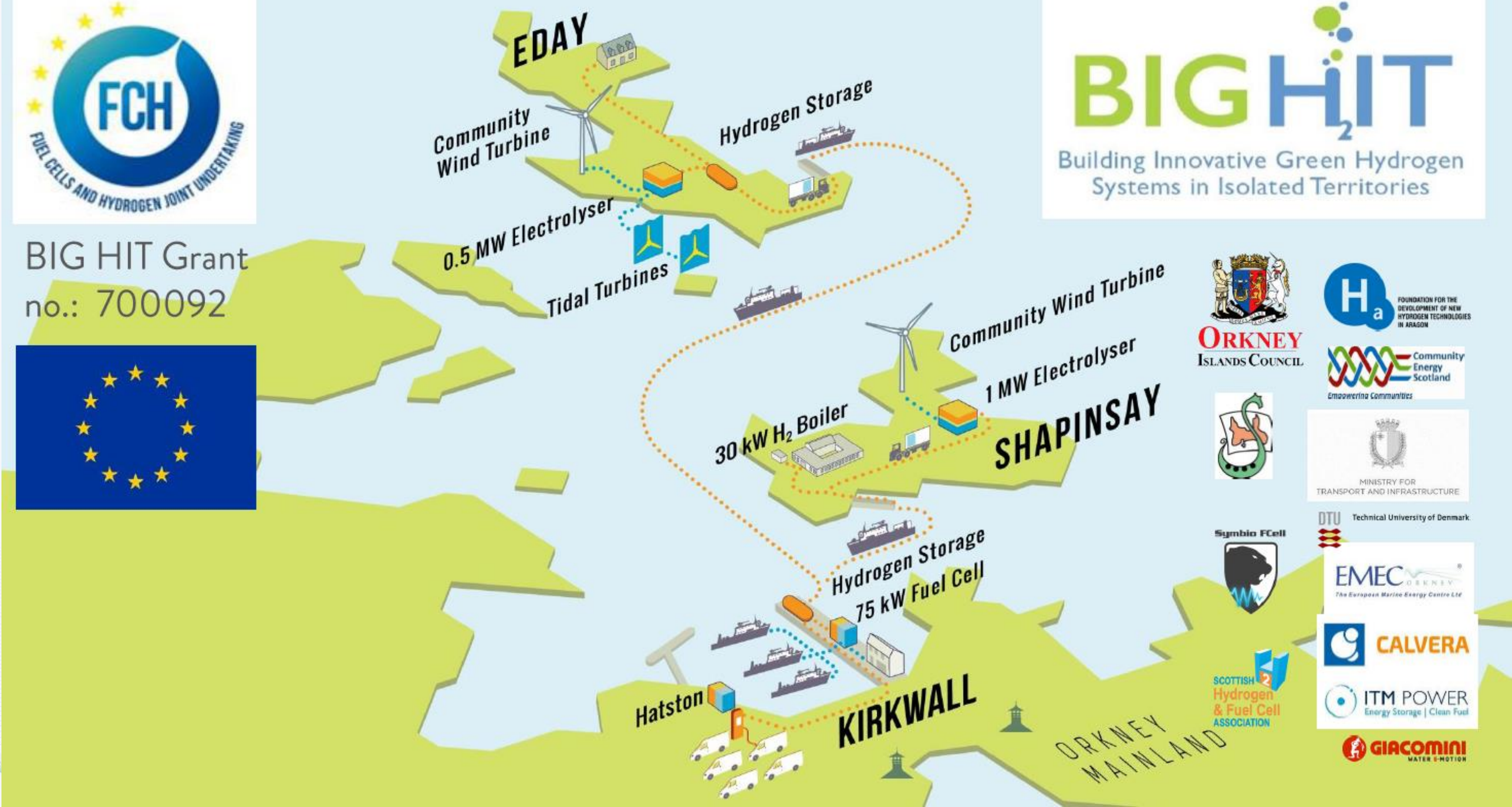
Renewables generate more than 100% of Orkney's electricity
Over 50MW of installed renewable capacity
1000 renewable installations for 10,000 households
But challenges and grid constraints…
Multi-stakeholder response – **Orkney Islands Council** a key driver
Orkney Renewable Energy Forum, EMEC and many others


EINAR

BIG H_2IT

Building Innovative Green Hydrogen Systems in Isolated Territories

BIG HIT Grant no.: 700092



ORKNEY ISLANDS COUNCIL

FOUNDATION FOR THE DEVELOPMENT OF NEW HYDROGEN TECHNOLOGIES IN ARAGON

Community Energy Scotland
Empowering Communities

MINISTRY FOR TRANSPORT AND INFRASTRUCTURE

DTU Technical University of Denmark

Symbio FCell

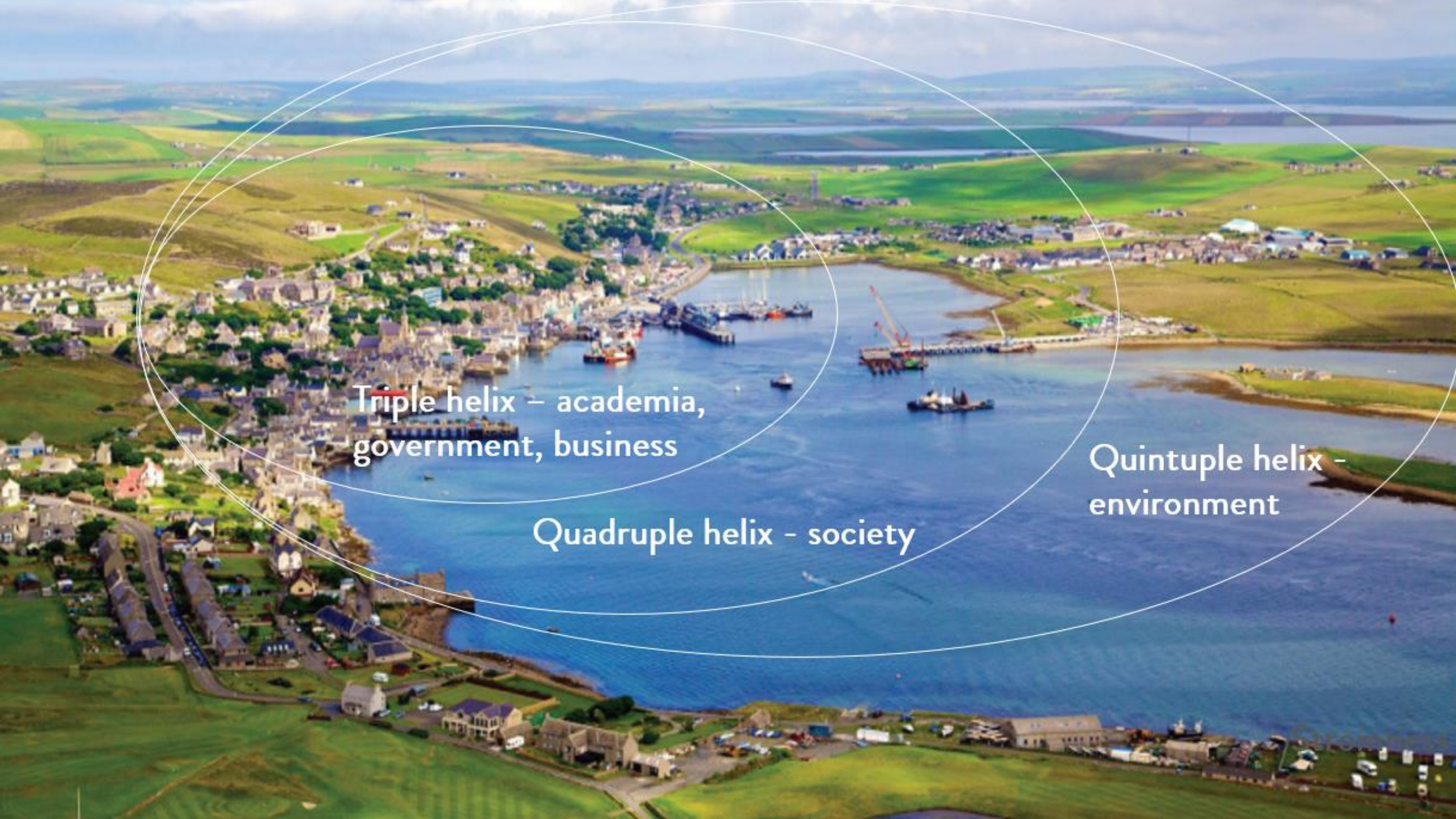
EMEC ORKNEY
The European Marine Energy Centre Ltd

CALVERA

ITM POWER
Energy Storage | Clean Fuel

SCOTTISH Hydrogen & Fuel Cell ASSOCIATION

GIACOMINI
WATER E-MOTION


Triple helix – academia, government, business
Quadruple helix - society
Quintuple helix - environment