

SCOTLAND IS A LAND OF ENERGY OPPORTUNITY

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Scotland's Energy Strategy: Local Energy Systems and the Low Carbon Transition

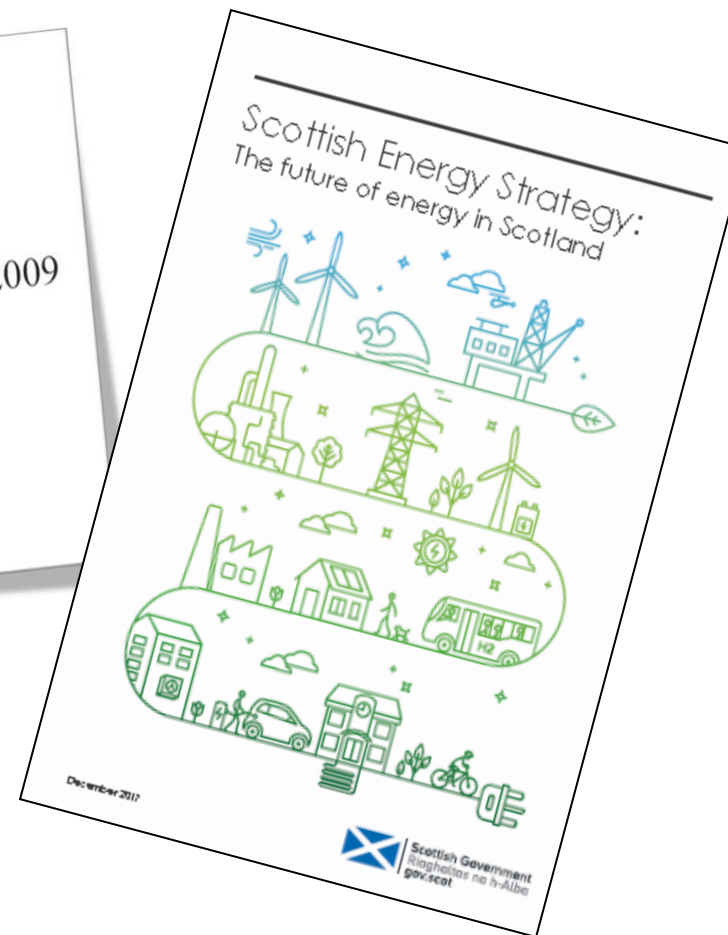
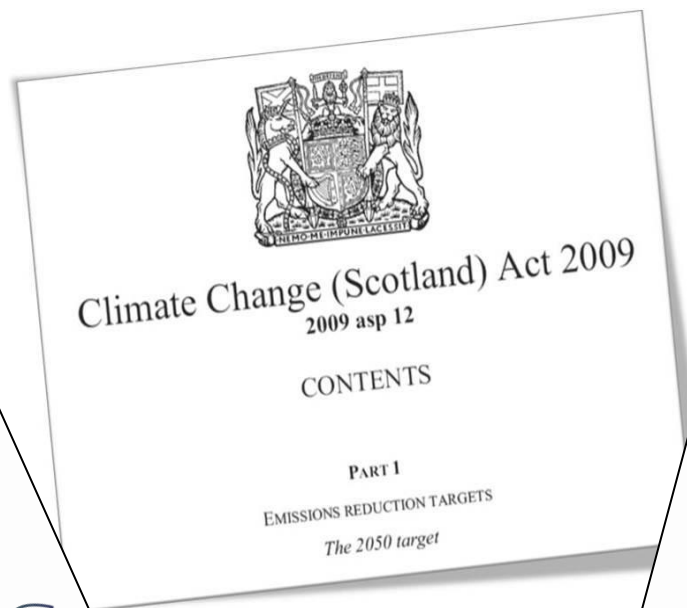
Craig Egner
European Energy Adviser
Scottish Government



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Scotland's climate change targets



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Developing a system view

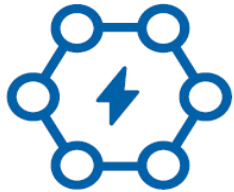
Scottish Energy Strategy - Six energy priorities



Consumer engagement
and protection



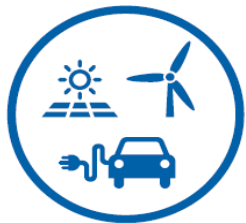
Energy efficiency



System security and
flexibility



Innovative local
energy systems



Renewable and low
carbon solutions



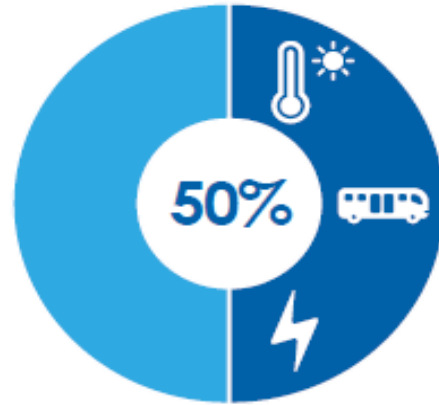
Oil and gas industry
strengths



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The Strategy sets two new and ambitious targets for 2030:



THE EQUIVALENT OF
50% OF THE ENERGY
FOR SCOTLAND'S
HEAT, TRANSPORT
AND ELECTRICITY
CONSUMPTION TO
BE SUPPLIED FROM
RENEWABLE SOURCES



+30%

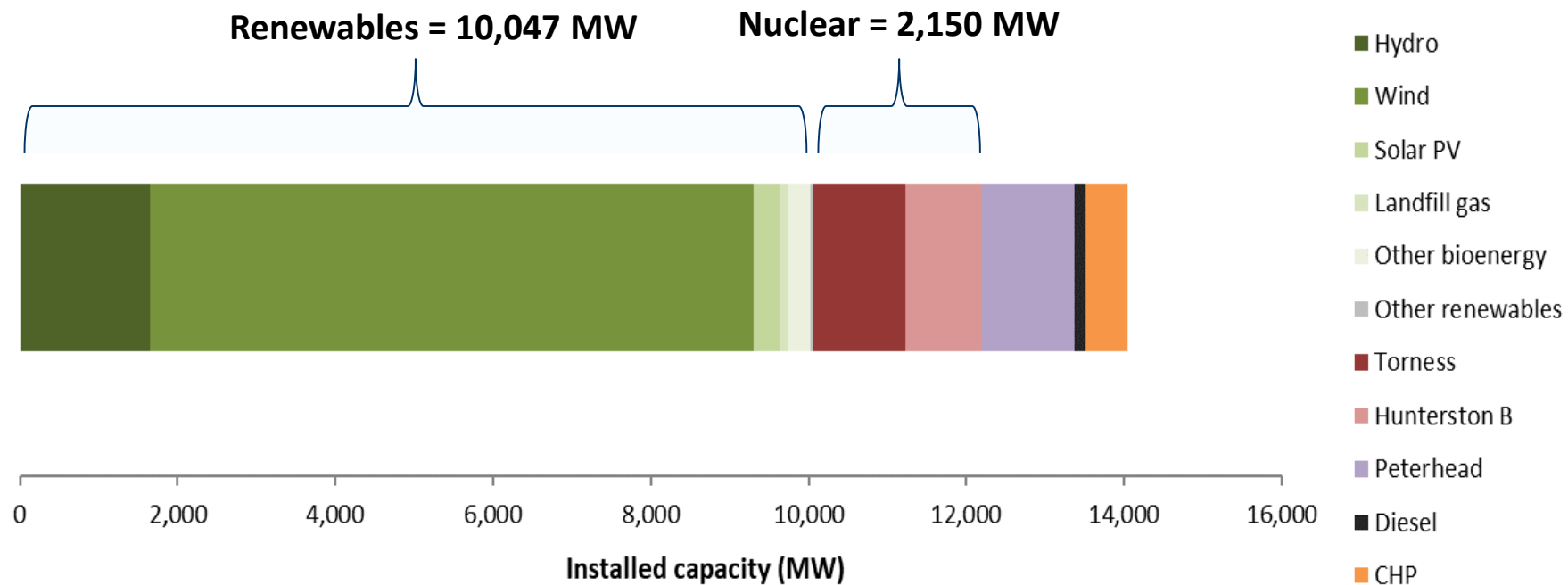
AN INCREASE BY **30%** IN THE PRODUCTIVITY
OF ENERGY USE ACROSS THE SCOTTISH
ECONOMY



Developing a system view: Where are we now?

Scottish generation capacity, 2017

Scotland has installed capacity of 14 GW.
2017: 70.1% of gross Scottish electricity consumption met from renewables. 100% target by 2020.

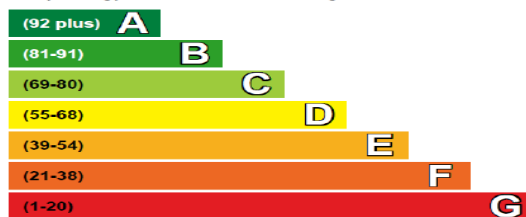


The Built Environment: Energy Efficiency and Heat Decarbonisation

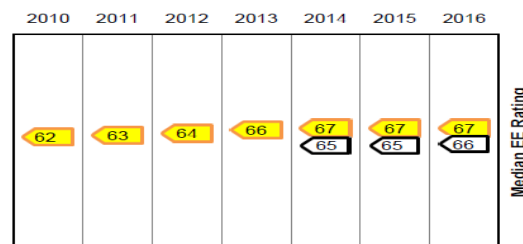
ENERGY EFFICIENT SCOTLAND

- All Scottish homes achieve a EPC rating of C or above by 2040
- Integrated approach to reducing demand, improving energy efficiency – and decarbonising heat
- Consultation on district heating regulations and local heat and energy efficiency strategies
- Consultation on energy efficiency standards for private rented homes
- Proposal for phased regulation and standards for existing buildings
- Consultation on appropriate incentives to secure private investment
- Review of energy performance of non-domestic buildings regulations

Very energy efficient - lower running costs



Not energy efficient - higher running costs



Yellow arrow: SAP 2009
Black arrow: SAP 2012

PROMOTING DECARBONISATION OF HEAT

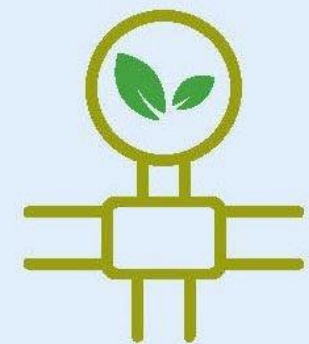
EMISSIONS FROM ALL BUILDINGS IN SCOTLAND WILL NEED TO NEAR ZERO BY



OUR CLIMATE CHANGE PLAN¹⁴ SETS OUT A TRAJECTORY TO 2032 WHICH REQUIRES:

35% OF DOMESTIC AND
70% OF NON-DOMESTIC BUILDINGS

HEAT TO BE SUPPLIED BY LOW CARBON TECHNOLOGIES



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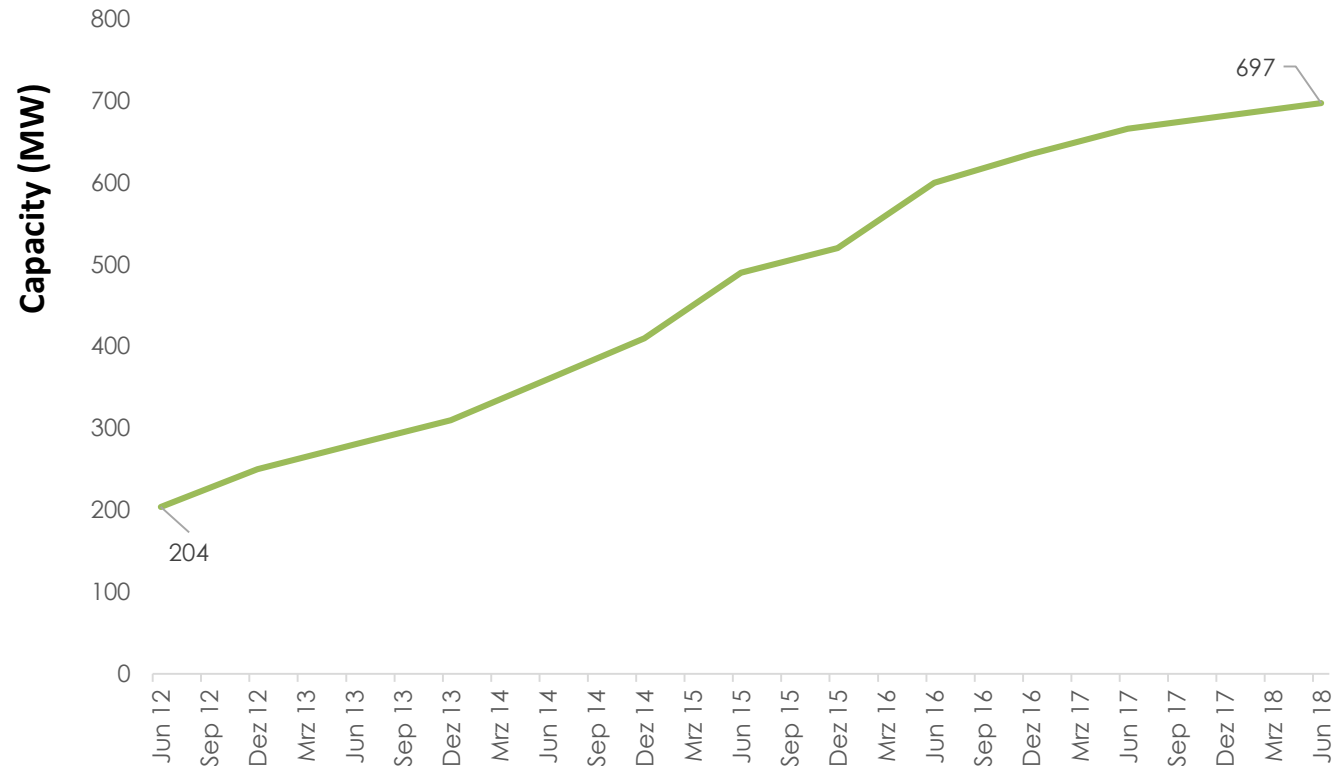
Transport ambitions and challenges

- To phase out the need for new petrol and diesel cars and vans by 2032
- Promote the use of ultra-low emission vehicles
- Introduce LEZs into our four biggest cities by 2020
- An EV charging infrastructure in place across Scottish cities
- Challenges include pace of uptake and consumer behaviour, grid capacity and management....



Community and Locally Owned Renewables in Scotland: 2018

Community and locally owned renewables, 2018

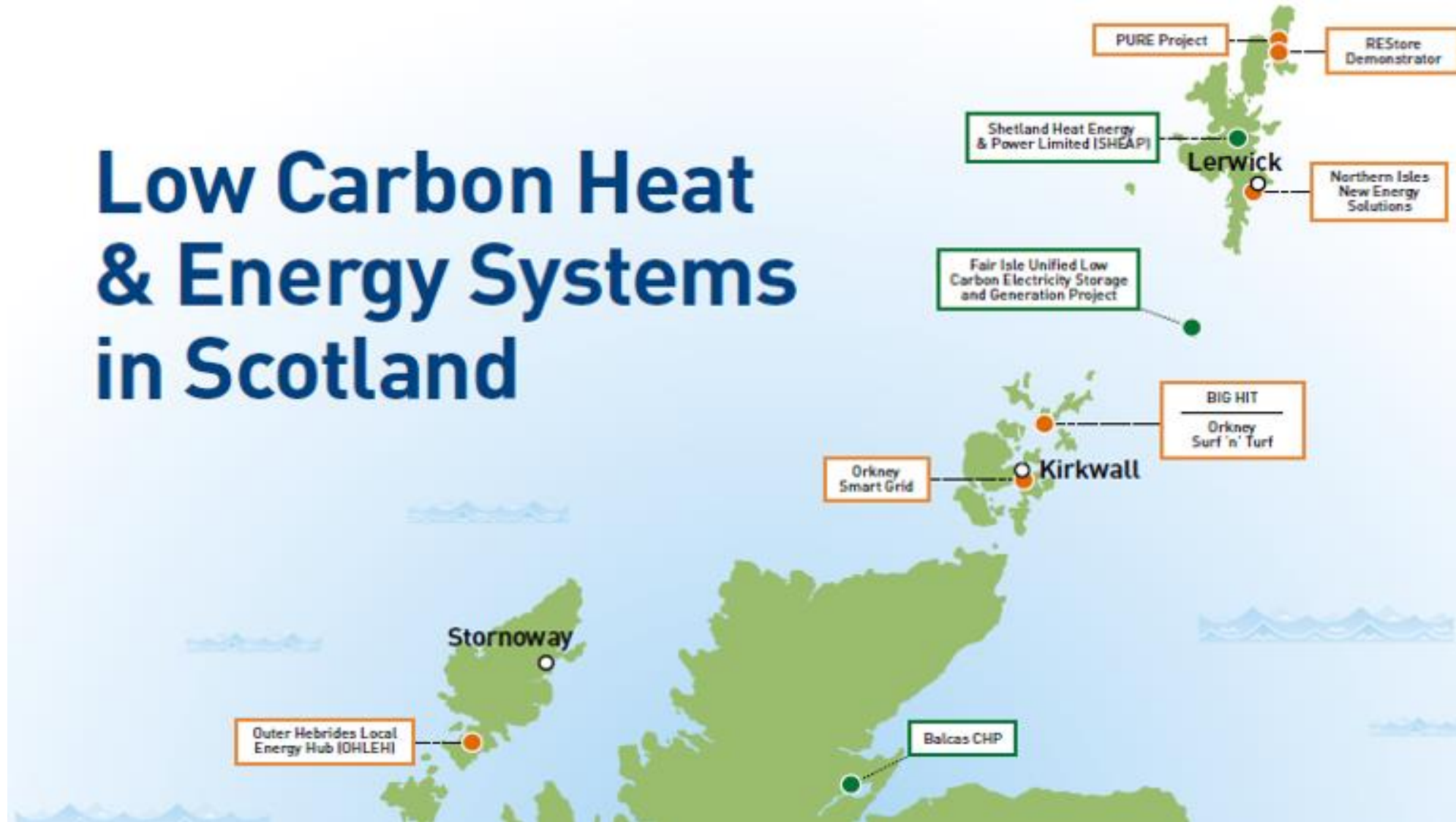


Capacity of community and locally owned renewables has more than tripled to 697MW in the last six years...

...and there's approximately 882MW's worth of projects in the pipeline



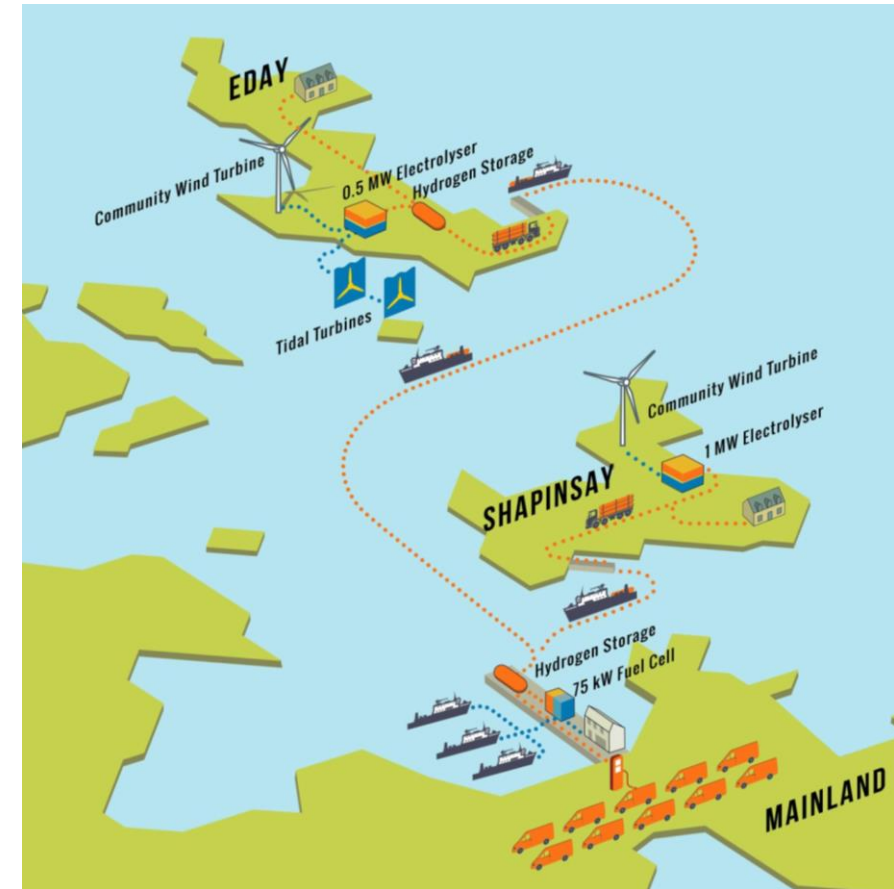
Low Carbon Heat & Energy Systems in Scotland



Local Energy Systems Projects in Scotland (2)



Orkney's Energy Eco-system



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Thanks for Listening!

Scottish Government EU Office

craig.egner@gov.scot

@ScotlandHouse Brussels @craieegner1



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