

THE ROAD FROM COP26: HOW INNOVATION IS LEADING THE WAY



Prof. Laura Harkness-Brennan

Steve Rotherham

Metro Mayor of the Liverpool City Region

Led the regional delegation to the 2021 UN Climate Change Conference in Glasgow



Dan McGrail

CEO Renewables UK

Renewables UK is a Trade Association representing 450 companies (primarily wind and tidal)



Prof. Anthony Hollander

Pro-Vice Chancellor for Research and Impact University of Liverpool

we must take action now!!!

led the University's delegation to COP26 and leads N8 - Net zero North



Prof. Andy Plater

Environmental Sciences University of Liverpool

UoL Academic lead for ECO-INNOVATORY and ECO-1 NORTH WEST



Support the development of low carbon innovation and skills

Liverpool was the first City Region to declare Climate emergency



Seeking to achieve net zero carbon by 2040



HOW?



Growing Liverpool City Region's reputation in leading action to tackle Climate change

Geopolitical Conflict Energy Security Climate Change
DRIVERS IN RAPIDLY CHANGING ENERGY POLICY

Investment in renewable energy technologies to meet ambitious targets... 50GW offshore wind energy X5 current output

Innovation is required to **scale UP**

- 1 Hydrogen power emergent technology
- 2 Floating offshore wind (utilising deeper water)
- 3 Use of sustainable materials
- 4 Digitally enabled demand management
- 5 Net zero maritime industry

Climate Futures
new research theme established in 2020
Interdisciplinary focus on climate, environment and energy research across the University
160+ staff responded to contribute to this theme

Theme facilitates partnerships and optimises ability to respond to funding opportunities



Some Examples
Funding to design and build six prototype houses
→ carbon zero
→ plastic-free
→ environmentally sustainable

£13m investment to develop low carbon chemistry laboratory for the future

University pledge to achieve net zero by 2035



Some Examples
Farm Urban (local social enterprise)
Hydroponic technology to grow food for local businesses (4 mile radius)
Uses 90% less water no pesticides
EcoInnovatory developed a strategic tool to support vertical farming

