

17-21 JUNE 2019
EU SUSTAINABLE ENERGY WEEK
SHAPING EUROPE'S ENERGY FUTURE



#EUSEW19

Islands as Lighthouses for Europe's Decarbonisation

18 June 2019

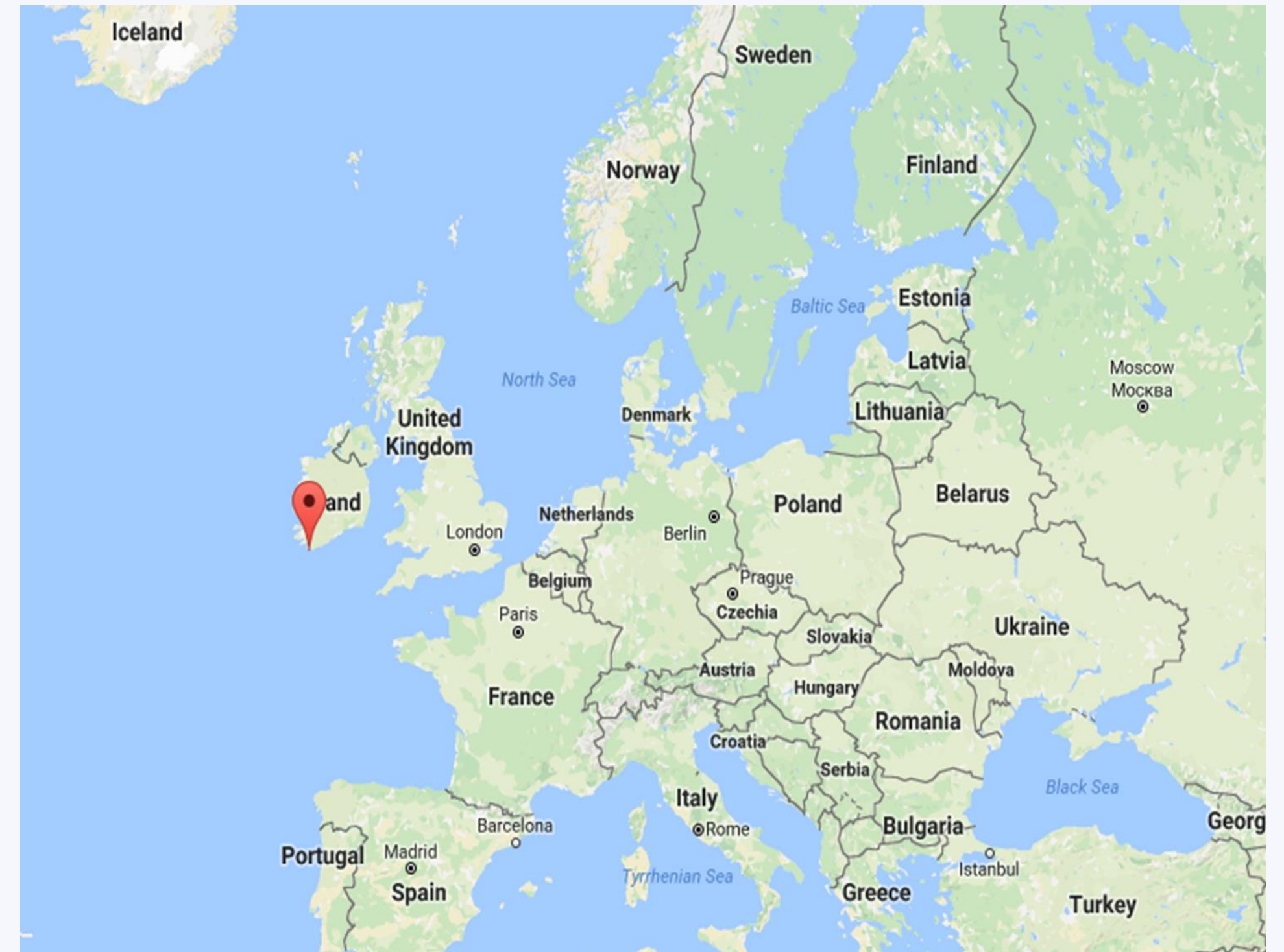
Oileán Chléire/Cape Clear Island

- Comharchumann Chléire Teoranta island development Co-op
- Lead partner in Cape Clear Island Energy Transition
- First founded by islanders to bring electricity to the island in 1969
- Planning to reuse existing wind turbine towers for new green transport initiative utilising redeveloped existing infrastructure
- National Transport Authority providing electric vehicles

A small island!

- Ireland's southernmost island
- 130 permanent residents
- 1MW undersea connection
- Connection to mainland in 1996
- One of 26 EU Clean Energy Pioneering Islands

With a big energy vision!



Our story! Water and Wind as energy elements!



Back to the Future 1986 - 1993

- First integrated wind energy system of its kind in the world
- £500,000 (1987 value)
- Sponsored by German Department of Science
- Integrated 2 x 33kw turbines with diesel generator and battery bank
- Operated for almost seven years until funding ran out

Types of challenges

- The island was too far ahead of its time with technology
- No support from Irish authorities or ESB at that time
- Finance for trial phase of project but not long term
- There was resistance in Ireland to micro generation
- System given to island community after trial phase
- Long term planning for energy transition vital to success!

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