

Ireland's Offshore Wind Resources Delivering Renewable Energy

Stephen Wheeler,
Managing Director SSE
Ireland

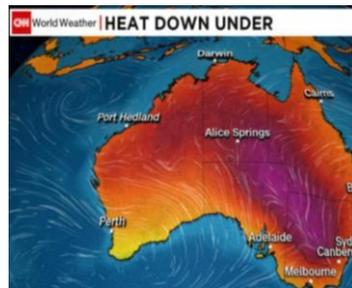
March 2019



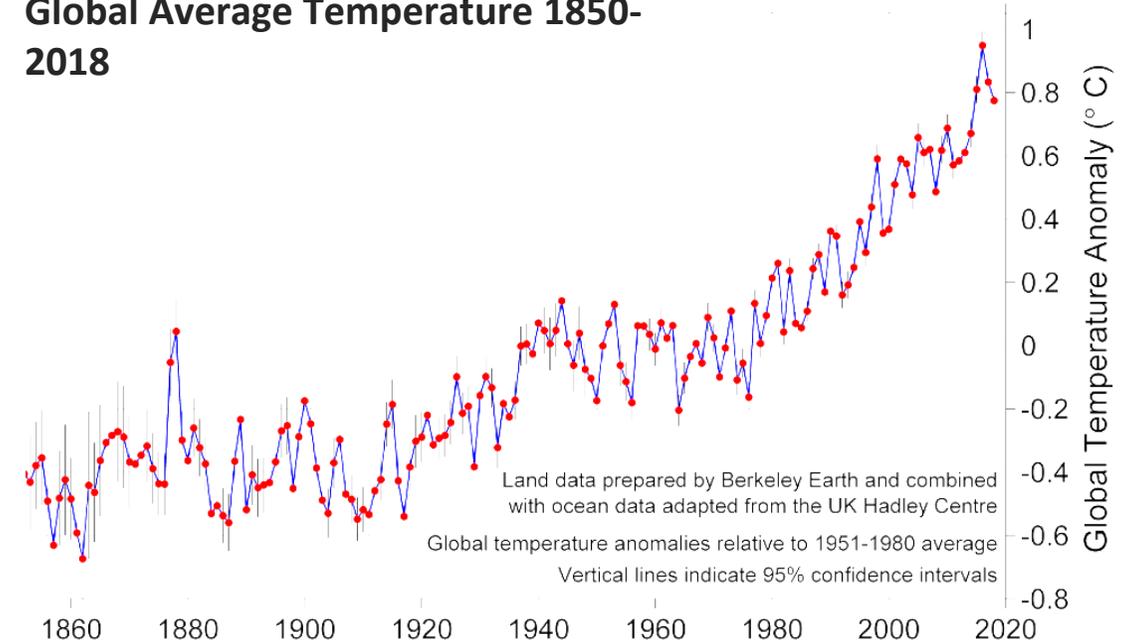
Our story so far...



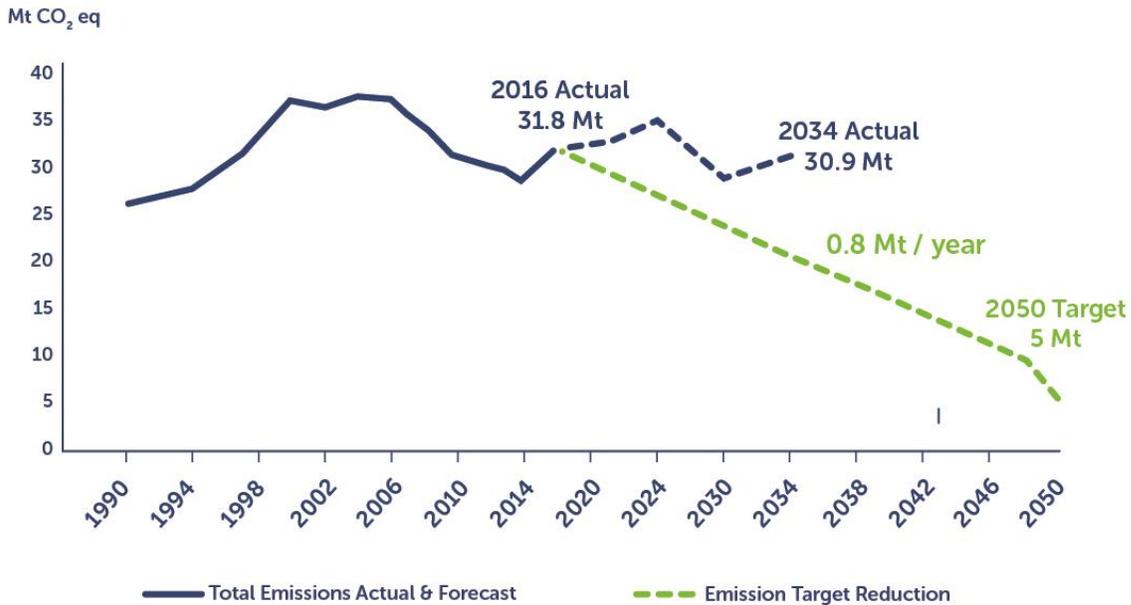
The effects of climate change are being felt already



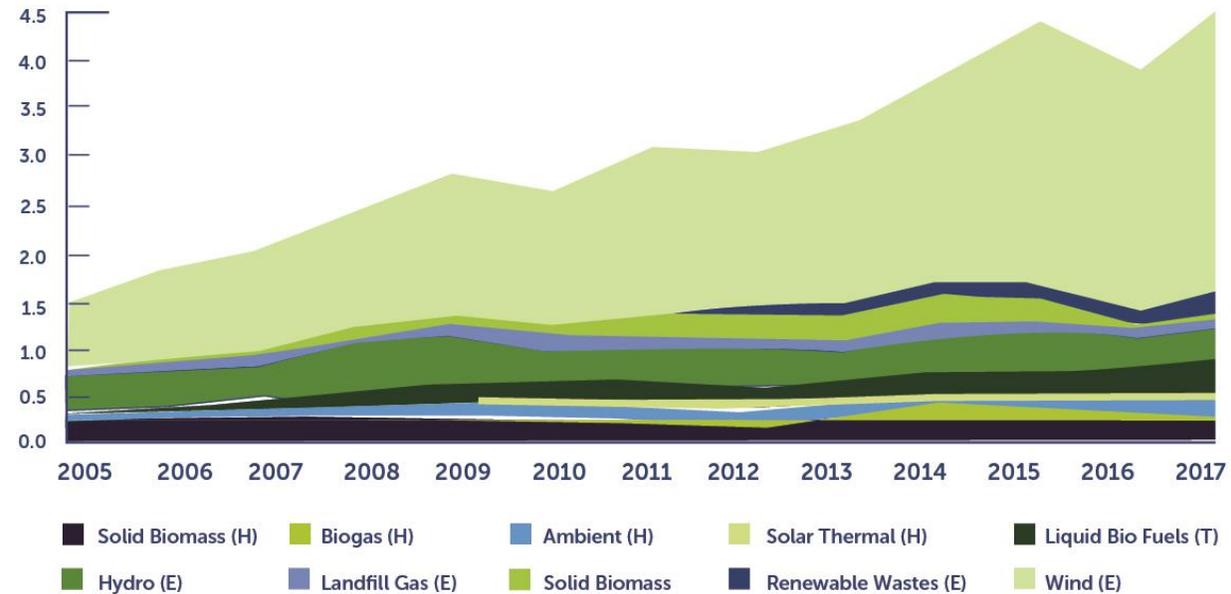
Global Average Temperature 1850-2018



We need to decarbonise power, while keeping the lights on



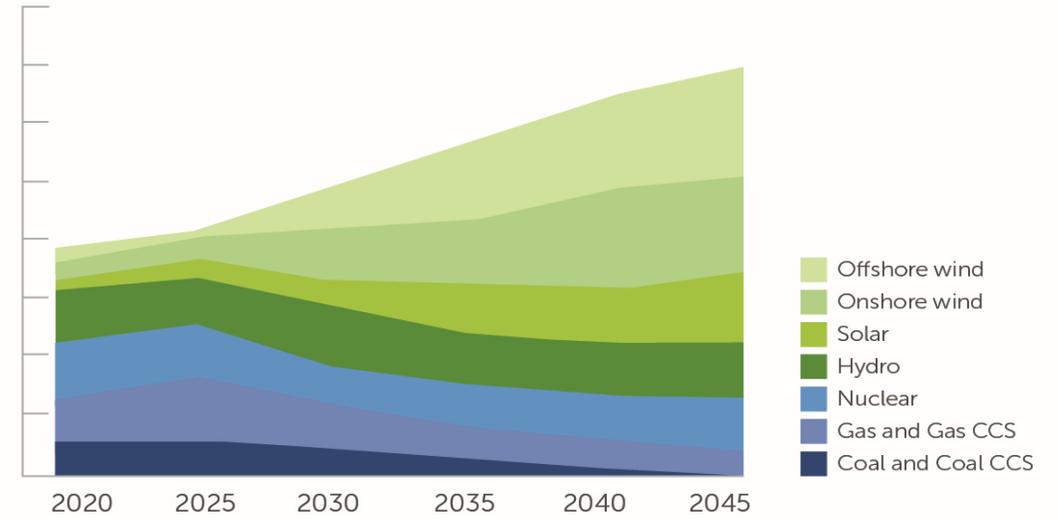
Abated carbon dioxide emissions (MCO₂)



The future is bright, the future is electric



Eurelectric decarbonisation pathways
Generation by fuel type 2020-2045, TWh



95% EU economy decarbonisation
with cost breakthrough

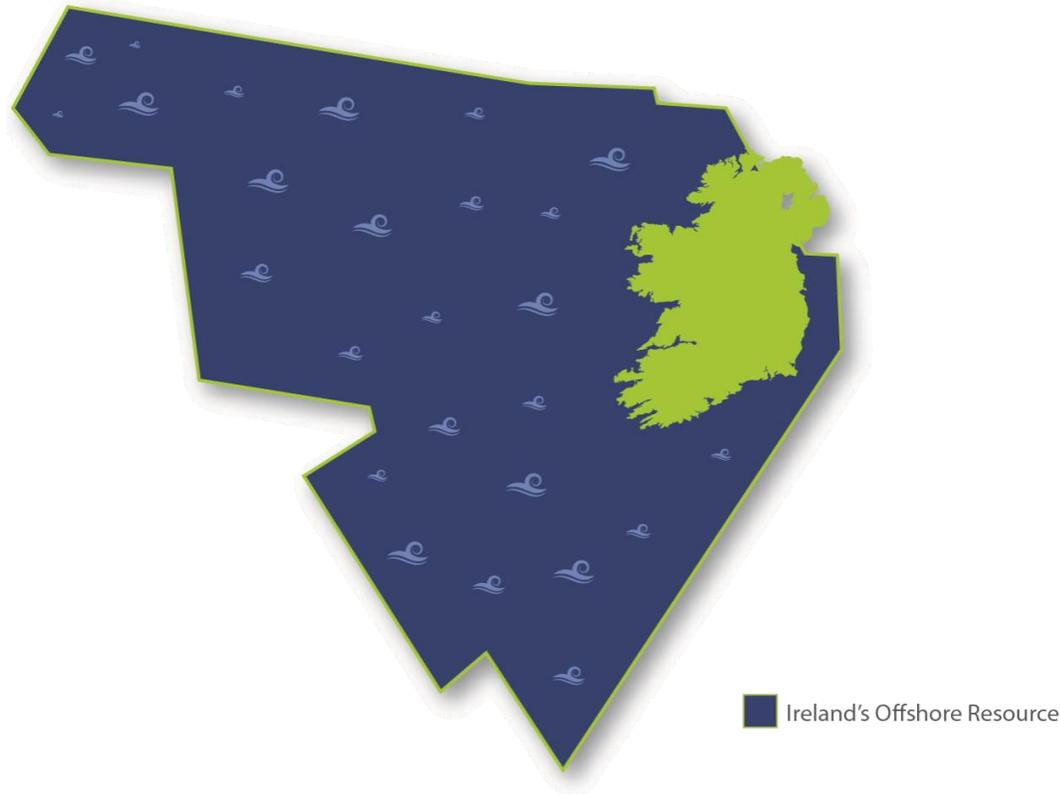
Decarbonisation of heat, transport and industry likely to require major electrification of the economy...

...and reliable electricity is critical to the economy and well-being

Resource and capability to power Ireland's future

IRELAND'S OFFSHORE RESOURCE

IRELAND'S OFFSHORE CAPABILITY



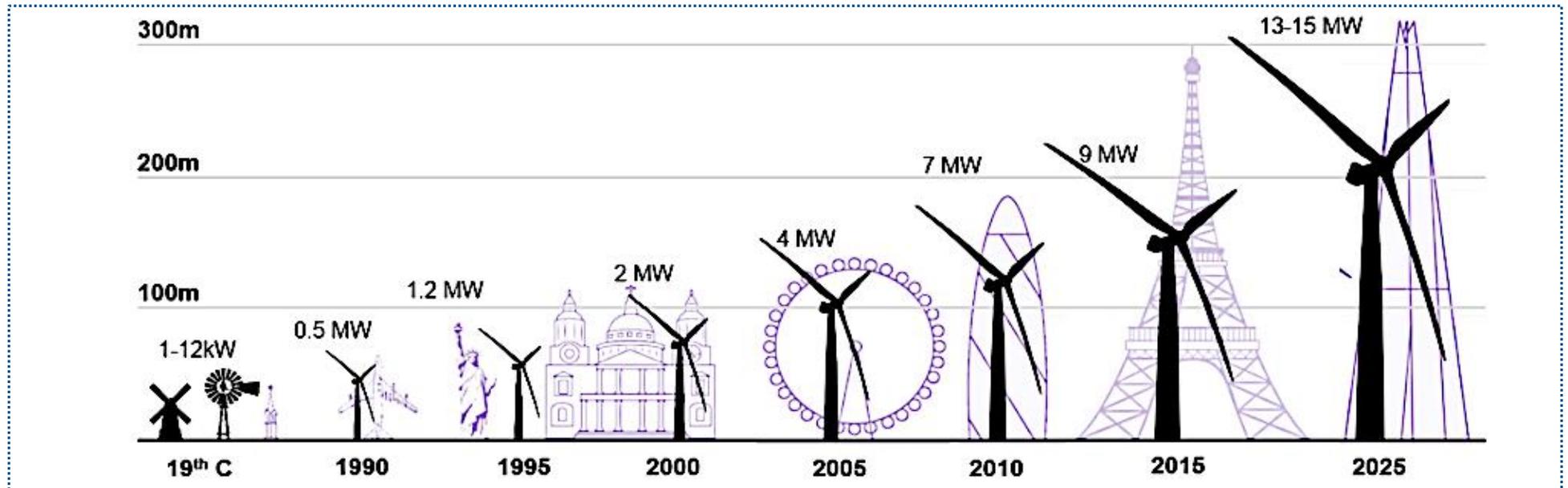
Irish Maritime Development Office

IPORES 2018

A Review of Irish Ports
Offshore Renewable
Energy Services

Technology is taking us to a better world of energy

Evolution of wind turbine heights and outputs



TECHNOLOGY IS MAKING THE LOW-CARBON TRANSITION MORE AFFORDABLE AND ACHIEVABLE...

Building on the experience of those who have gone before

Existing capabilities

-  Offshore wind resource ✓
-  Availability of capital ✓
-  Developer / Utility capabilities ✓
-  Cost of deployment falling ✓
-  Skills base ✓
-  Government policy* ✓

Headline benefits

-  Economic opportunity
-  FDI benefits
-  Grid efficiency
-  Electrification of transport
-  Social and community benefits
-  EU 2020 / 2030 Targets

Beatrice Offshore Wind Farm



<https://vimeo.com/322862272/96f47bb844>



Offshore wind is Ireland's enabler to meet the climate challenge



KEY REQUIREMENTS

- **A strong signal of intent from Government** – to be delivered through a higher RES-E target of 70% in the NECP, establishing an IFSC model for offshore wind to develop on a clear ambition
- **Ensure a facilitative policy environment is in place** – through the design of the new RESS, grid connection policy and consents regime
- **Provide certainty to stimulate the investment market and supply chain to enable offshore wind** – a clear vision for the next decade will encourage investors to Ireland.

Thank You

