

## Decommissioning and Climate Change

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Climate Change is a component of the DECC decommissioning guidelines

Main climate issues for operators:

- Non-stationary metocean conditions
- Decommissioned assets' future liability

How to support North Sea operators to deal with climate change?

<u>Illustration</u>: EU-funded climate project for the energy sector



# Clim4energy Project

- EU funded 2015-2017
- Europe focus
- Energy sector
- Met Office : offshore component
- Industry co-designers

### Outcome Public domain climate data and visualization





# Clim4energy Project

### Academic partners:

CEA	France
SMHI	Sweden
FMI	Finland
Met Office	UK
Meteo-France	
BSC	Spain
GERICS	Germany

#### **Climate Information:**

Historical and future climate (2006-2100; ~10km resolution):

- Air temperature
- Rainfall
- Radiation
- Wind
- Wave
- Sea level





# **Clim4energy Project**

### **Met Office**

- Industry co-designers:
  - EDF
  - EDP
  - Shell and Total
  - RTE
  - Vattenfall
  - Statkraft
  - Nena
  - Fingrid

### • Energy sectors:

- Wind energy providers
- Wind energy traders
- Hydropower
- Grid operators
- Oil & Gas operators
- Energy policy makers



# Clim4energy Project : offshore focus

## **Met Office**

Academic partner: UK Met Office

### **Climate Data:**

- Wave
- Regional sea level rise

### Industry co-designers:

Shell and Total

Met Office Climate Change Risk Screening Tool



Case Study 2017: climate conditions for new asset to be decommissioned in 2065



# Next Step: Call for Action

- Operators specific climate needs for decommissionings EIA or derogations to removal ?
- Operators involvement as co-designer in next EU-funded (2018-2020) CoP for developing the associated operational services:
  - No cost for industry co-designer
  - Shape the deliverables : regions of focus; climate parameters; output format...
  - Attend our end-user workshops:

Copernicus Symposium on Climate Services for the Energy Sector



22-23 February 2017 Barcelona (Spain) – Venue to be confirmed



# Thanks for listening



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