


# THE CHALLENGES OF DEVELOPING A WINDFARM

## NAVITUS BAY STORY, SO FAR

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# OUTLINE

- ▶ Introduction
  - ▶ Wind park, proposed site and options
  - ▶ Regional economic benefits
  - ▶ Navitus Bay challenges
  - ▶ Concept to delivery
  - ▶ Navitus Bay challenges ahead
  - ▶ Key dates for delivery
  - ▶ Q&A
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# NAVITUS BAY WIND PARK

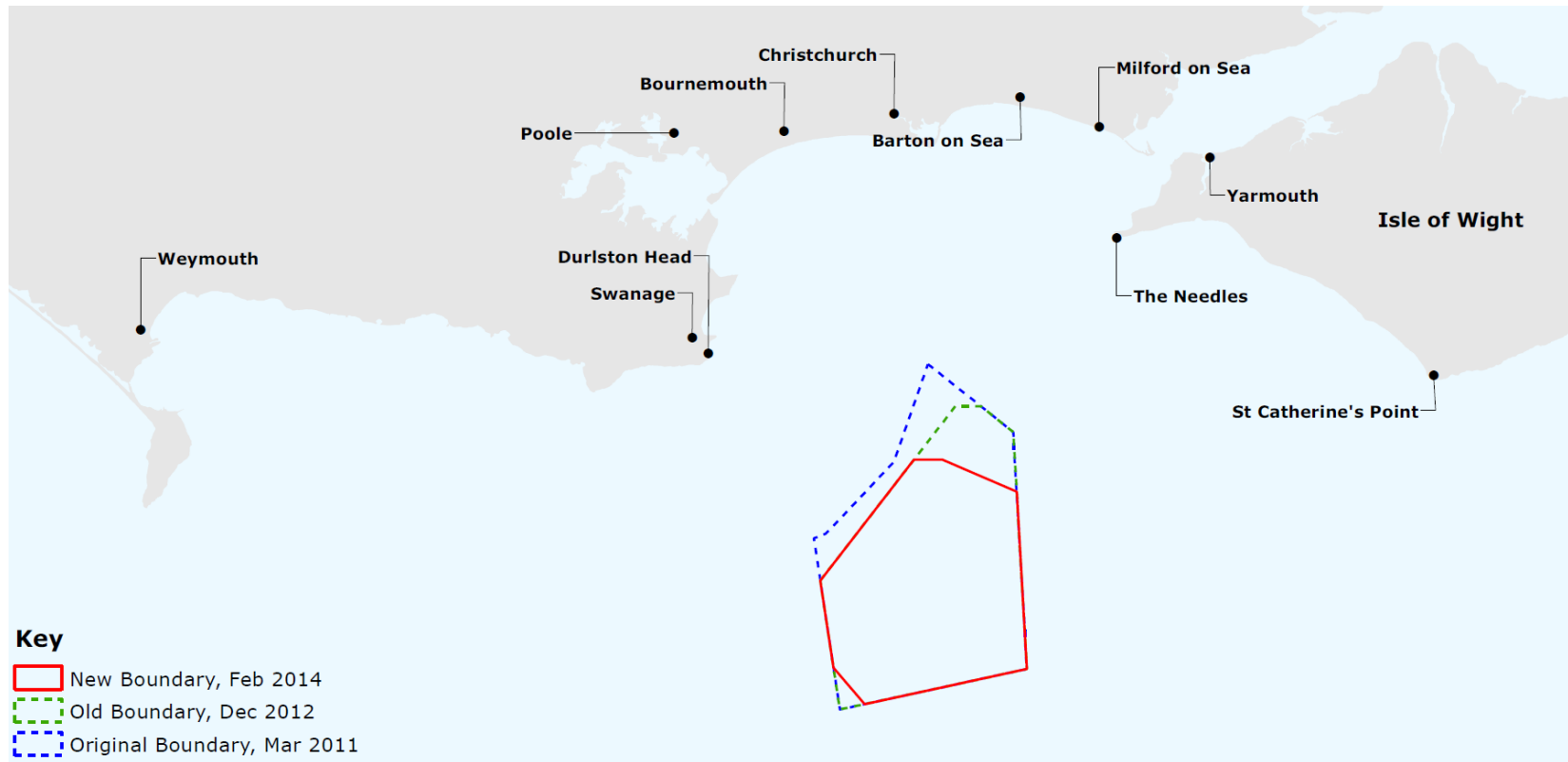


The concept:

- ▶ An exciting renewable energy project for the south coast to help build a secure energy future from clean, sustainable sources
- ▶ Generate enough electricity for around 700,000 homes each year
- ▶ Offset 1,290,000 tonnes of CO<sub>2</sub> emissions each year

50:50 Joint Venture between Eneco Wind UK Ltd and  
EDF Energy Renewables

# PROPOSED WIND PARK SITE



# WIND PARK OPTIONS



## Option One - Preferred

- Max installed capacity 970MW
- Up to 121 wind turbines (was 194)
- Seabed area 153<sup>2</sup> km
- Nearest distance to shore (Durlston Head) 14.3km
- Nearest distance to Isle of Wight 17.3km/  
Bournemouth & Poole 21.6km

## Option Two

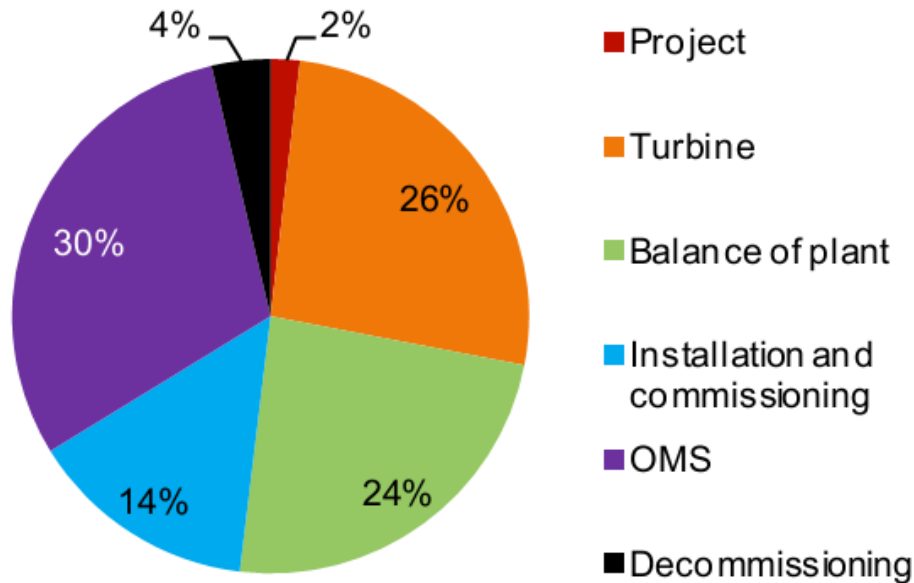
- Max installed capacity 630MW
- Up to 78 wind turbines (was 105)
- Seabed area 79<sup>2</sup> km
- Nearest distance to shore (Durlston Head) 18.8km
- Nearest distance to Isle of Wight 22.2km/  
Bournemouth & Poole 27.3km



# REGIONAL ECONOMIC BENEFITS



- **£2.9 billion** to construct
- **£2.1 billion** to operate & maintain
- **£0.4 billion** to decommission



Total forecast discounted expenditure on the proposed Navitus Bay Wind Park

# REGIONAL ECONOMIC BENEFITS



- ▶ Potential economic value to the **region** of up to **£1.62 billion** over the project life cycle (25 years)
- ▶ **1,700 jobs** during peak construction
- ▶ Local O&M base – potential economic value to the **region** of up to **£590 million** over the project lifetime, as well as **140 permanent jobs** (Poole, Portland or Yarmouth)
- ▶ Navitus Bay has **already spent about £8m in the local area** since the project began
- ▶ Navitus Bay is **committed to a local and regional supply chain** for all stages of the project's life cycle from development, through construction and into operations and maintenance





# NAVITUS BAY CHALLENGES 1



## ➤ **Nature of National Infrastructure Projects**

- The 'process' – like Democracy – works slowly
- Requires substantial up-front private sector investment at risk

## ➤ **Political**

- Pressure to drive down costs
- General and local elections 7 May 2015
- Role of local MPs and councillors

## ➤ **PR & community engagement**

- Timing
- Myths, exaggeration and prejudice
- Vocal and well organized opposition groups e.g. Challenge Navitus & Poole and Christchurch Bays Association

# NAVITUS BAY CHALLENGES 2



## ➤ **Engineering**

- Scale of project and technical challenges
- Use of advanced technology/innovation e.g. 8MW WTG, design of foundations and electrical transmission systems

## ➤ **Planning Inspectorate Examination**

- 6 month forensic examination of our Planning Application (18,000 pages)
- 2200 Relevant Representations submitted
- Section 106 Agreement

## ➤ **Procurement and supply chain**

- Securing UK and local content

## ➤ **Skills legacy**

- Workforce skills and employment opportunities

# CONCEPT TO DELIVERY 1



- ▶ January 2010 – Crown Estate awards Eneco development rights
- ▶ February 2011 – Eneco announce most suitable site for wind park off the Dorset, Hampshire and Isle of Wight coasts
- ▶ November 2011 – Eneco releases Statement of Community Consultation (4 rounds ending in October 2013)
- ▶ April 2012 – 50:50 Joint Venture between Eneco Wind UK Ltd and EDF Energy Renewables announced to hold exclusive development rights
- ▶ December 2012 – Navitus Bay reduces the size of the wind park in response to public feedback (333 to 218 WTGs)

## CONCEPT TO DELIVERY 2



- ▶ June 2013 – Navitus Bay announces short-list of 3 local ports to host the wind park's O&M functions
- ▶ February 2014 – Navitus Bay announces it will scale back the wind park (218 to 194 WTGs) in response to local feedback
- ▶ March 2014 – Navitus Bays signs MoU with 3 local ports committing them to invest £100k into feasibility studies
- ▶ May 2014 – Navitus Bay submits wind park application (970MW) to PINS
- ▶ November 2014 – In response to PINS enquiry Navitus Bay submits Turbine Mitigation Option proposing a smaller wind park (630MW)

# CONCEPT TO DELIVERY 3



- ▶ January 2015 – PINS accept Turbine Mitigation Option
- ▶ March 2015 – PINS completed Examination
- ▶ May 2015 – Navitus Bay selects MHI Vestas on Isle of Wight as preferred WTG supplier
- ▶ June 2015 – PINS recommendation sent to Secretary of State (not published)
- ▶ September 2015 – Decision from Secretary of State due
- ▶ October 2015 – End of period for possible Judicial Review

# CHALLENGES AHEAD



## ➤ **Supply Chain Plan**

- Due August 2015

## ➤ **Community benefit**

- Under consideration

## ➤ **Contract for Difference application**

- Due by Autumn 2015, subject to development consent

## ➤ **Secretary of State decision**

- Due 11 September 2015


## ➤ **Final Investment Decision (Phase 1)**

- Due by end of 2016

## ➤ **Wind park delivery**

- Construction start 2017

## KEY DATES FOR DELIVERY

- ▶ 2015/16 – Main contractors selected
  - ▶ 2017 – Onshore construction starts
  - ▶ 2018 – Offshore construction starts
  - ▶ 2019 – Wind park begins generating electricity
  - ▶ 2020 – Wind part becomes fully operational
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# CONTACT DETAILS

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# Q&A

