

BERWICK BANK & MARR BANK

OUR DIGITAL EIA JOURNEY

12 May 2021

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Consent Team Manager



AGENDA

Berwick Bank and Marr Bank

1. SSE Group and Renewables - overview and vision
2. Berwick Bank and Marr Bank wind farms - overview
3. Digital EIA focus – data management, information events and reporting
4. Digital EIA - Challenges and opportunities
5. Digital EIA progress to date and future vision

OVERVIEW OF THE SSE GROUP

Our vision is to be a leading energy company in a net zero world

Our purpose is to provide energy needed today, while building a better world of energy for tomorrow.

We create value for shareholders and society in a sustainable way through successful development, efficient operation and responsible ownership of energy infrastructure and businesses.

Ambitious goals for 2030 relating to decarbonisation and electrification

GOAL #1

Cut our carbon intensity by 60%



Reduce the carbon intensity of electricity generated by 60% by 2030, compared to 2018 levels, to around 120gCO₂/kWh*.



GOAL #2

Treble renewable energy output



Develop and build by 2030 more renewable energy to contribute renewable output of 30TWh a year.



GOAL #3

Help accommodate 10m electric vehicles



Build electricity network flexibility and infrastructure that helps accommodate 10 million electric vehicles in GB by 2030.



GOAL #4

Champion Fair Tax and a real Living Wage



Be the leading company in the UK and Ireland championing Fair Tax and a real Living Wage.



SSE RENEWABLES

A leading developer, owner and operator in the UK and Ireland

ONSHORE WIND

Operational c. 2,000MW
Development c. 1,000MW



OFFSHORE WIND

Operational c. 600MW
Development c. 6,000MW



HYDRO & PUMPED STORAGE

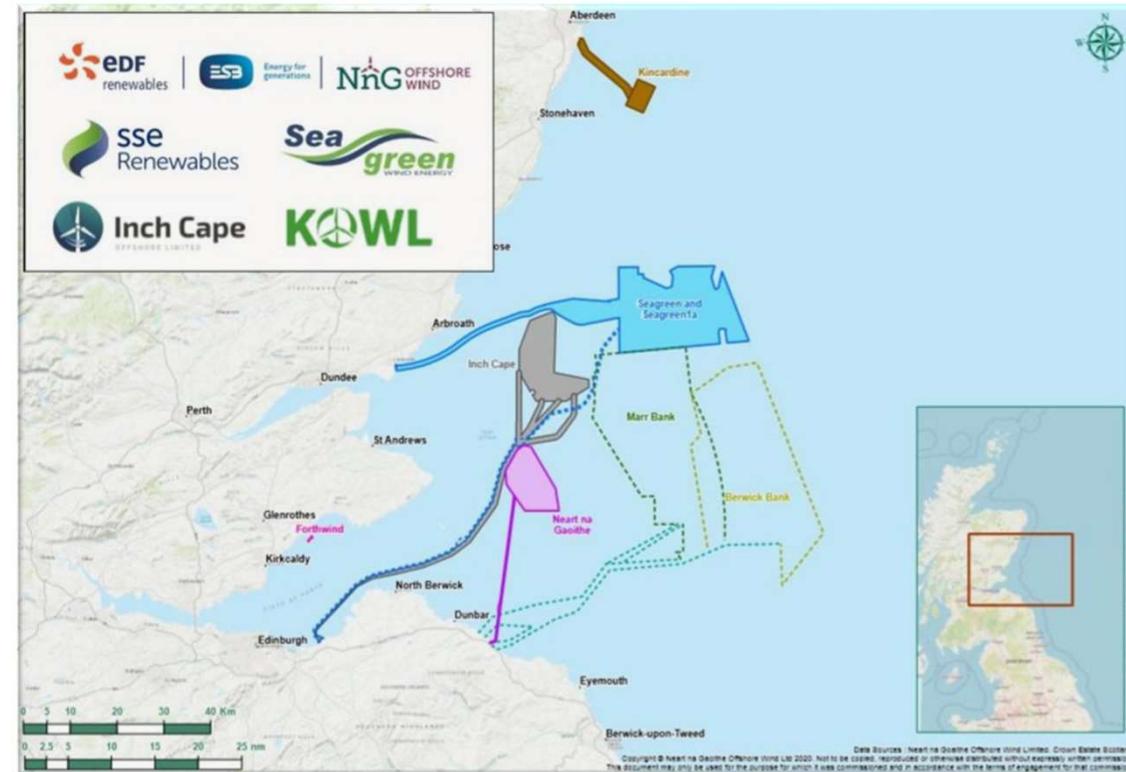
Operational c. 1,450MW
Development c. 1,500MW



PROJECT OVERVIEW

Berwick Bank and Marr Bank

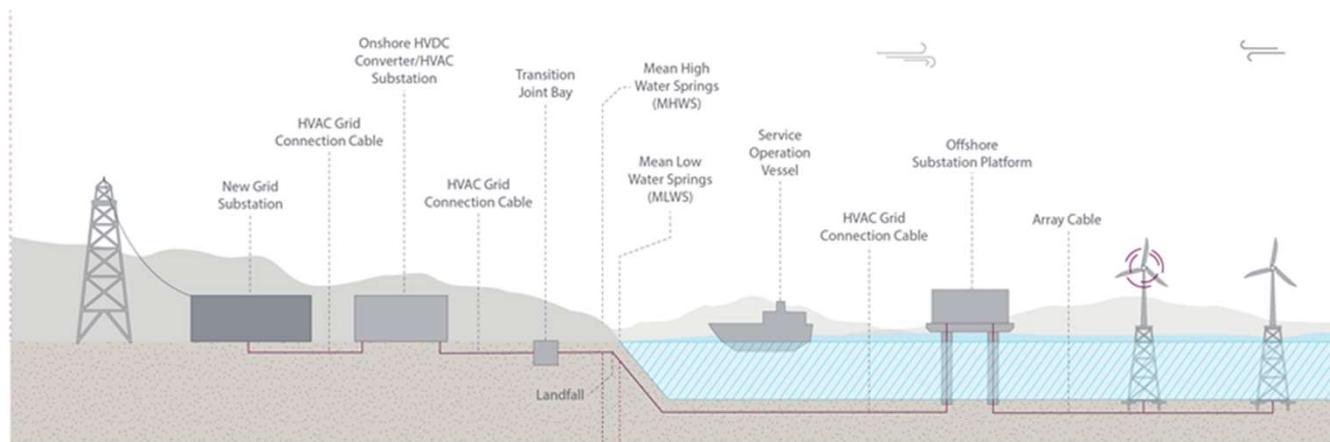
- Outer Firth of Forth
- Berwick Bank & Marr Bank (up to 4.1GW)
- Development area ~8 times size Glasgow City
- 10 % of the UK Govt's 40GW by 2030
- 37 % of Scottish Govt's 11GW by 2030
- Consent Submission by **2022**
- Operational by **2030**
- Growing team ~ 50 FTE
- Working with many environmental consultants: ITPE, RPS, Xodus, Hi Def and others



The area of MB & BB combined envelope is: 1442 sq. km
Area of City of Edinburgh – 263 sq.km
Glasgow City - 175 Sq.km

PROJECT OVERVIEW

EIA approach

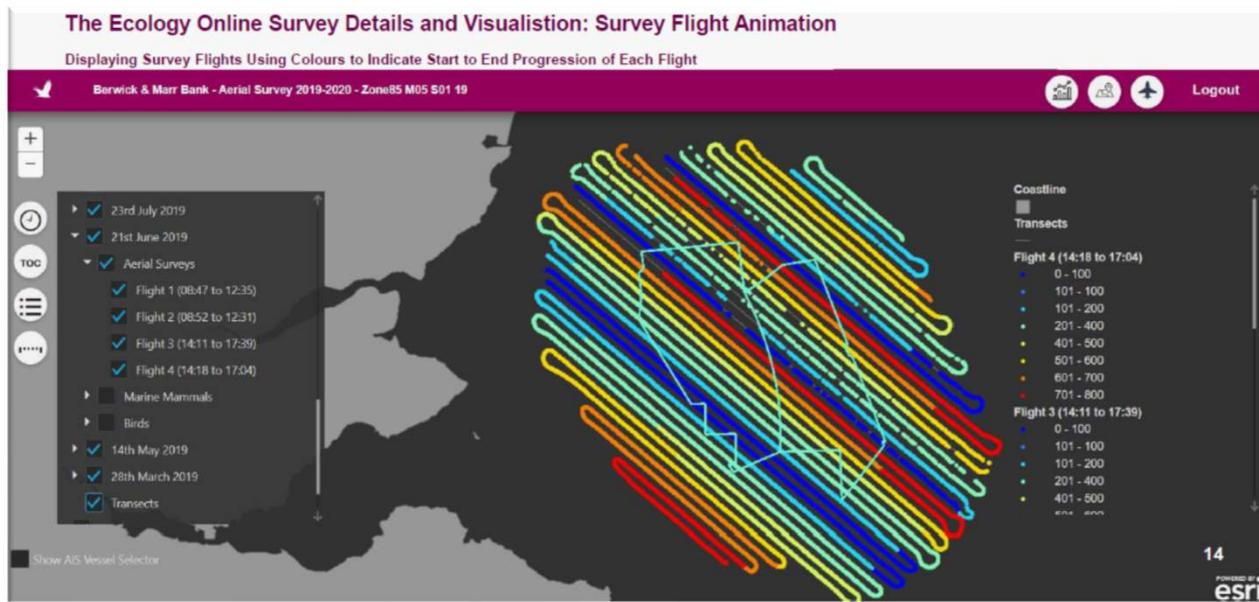


Onshore EIA Report	Physical Environment	Geology, Hydrology, Soils and Flood Risk	Physical Processes	Offshore EIA Report
	Biological Environment	Ecology and Ornithology	Subsea Noise	
			Airborne Noise	
			Air Quality	
	Human Environment	Traffic and Transport Cultural Heritage Landscape and Visual Land Use, Tourism and Recreation Socio-economics Noise	Benthic Ecology	
			Fish and Shellfish Ecology	
			Marine Mammals	
			Ornithology	
			Commercial Fisheries	
			Shipping and Navigation	
		Aviation, Military and Communications		
		Marine Archaeology and Ordnance		
		Seascape and Visual Resources		
		Infrastructure and Other Users		
		Socio-economics and Tourism		
		Addressed in offshore physical environment topics		

DIGITAL EIA

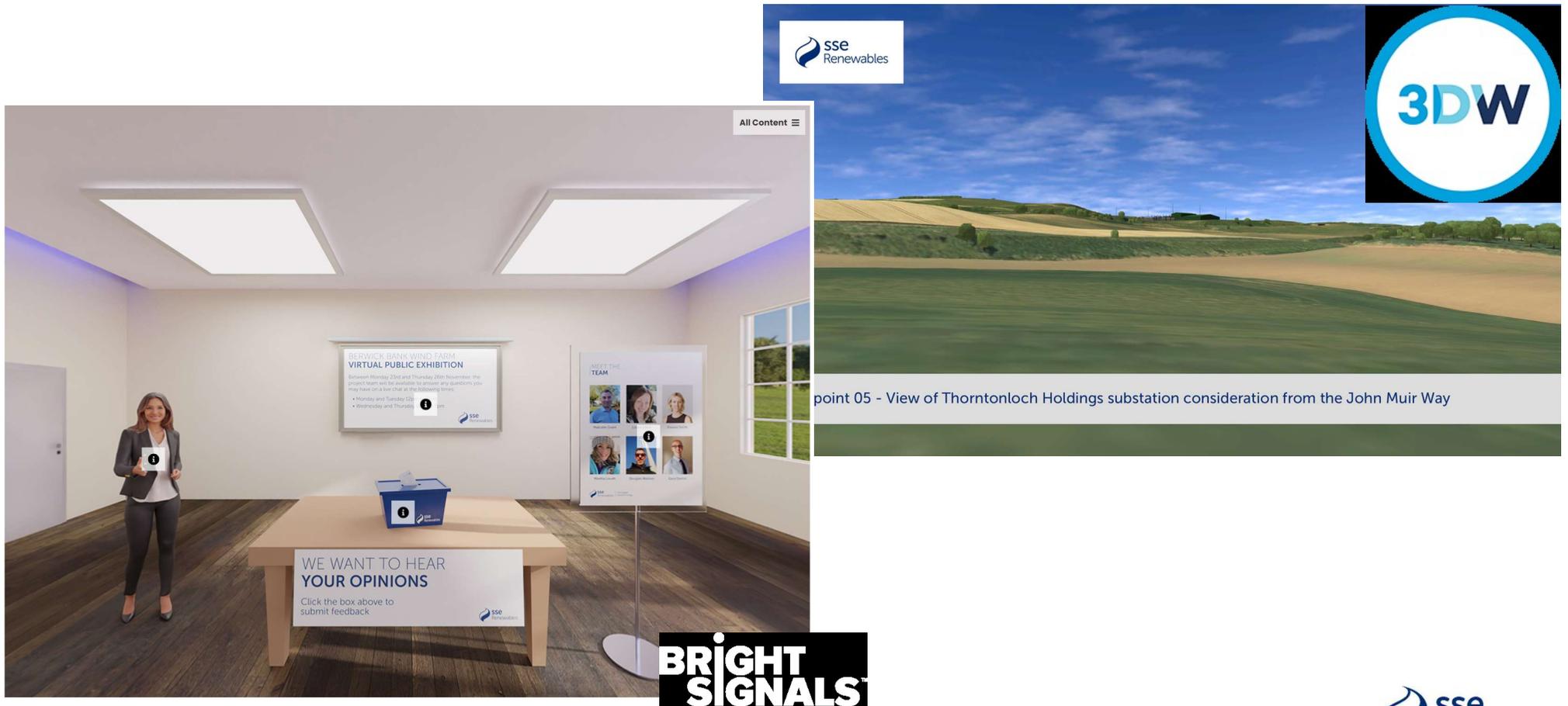
Ornithology and mammal data management

- **Ornithology and marine mammals** – largest aerial survey in world - 30 million footage frames were recorded over two years!
- **‘Osprey’** interactive digital viewing platform by **rps**



DIGITAL EIA

Virtual Public Information Event



DIGITAL EIA

Reporting

RPS Contents ▾

Introduction

Statutory Framework... Need for EIA Content of ES

The Applicant The Assessment Team

This Environmental Statement (ES) has been prepared by RPS on behalf of the Applicant. The ES reports on the findings of the Environmental Impact Assessment (EIA) process and accompanies the planning application for the proposed development (referred to hereafter as the 'project').

The project site is located in England. The project site occupies an area of approximately 30 ha. The project location is shown below.

The project would comprise the following:

- ✓ dwellings up to two storeys in height and affordable housing (at 35% of the total housing provision)
- ✓ natural greensapce
- ✓ demolition of existing buildings
- ✓ commercial development (including B1 use classes) and a single storey café
- ✓ a range of wider multi-user Public Rights of Way (PRoW) connections
- ✓ off site highway improvements

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RPS Contents ▾

Ecology and Nature Conservation

Introduction Assessment Methodology

Baseline Environment Mitigation Measures

Assessment of Construction Effects Assessment of Operational Effects

Assessment of Cumulative Effects Inter-Relationships

Summary of Effects

10 Statutory designated sites within 5km 15 Non-statutory designated sites within 2km 3 Species of wintering bird found 7 Species of bat detected

INTRODUCTION

This chapter of the Environmental Statement (ES) assesses the likely significant effects resulting from the construction and operation of the project on ecology and nature conservation. The methods and criteria used to assess potential effects on ecology and nature conservation have been described. The opportunities to provide appropriate mitigation are also outlined within this chapter.

The aims of the ecology assessment are to:

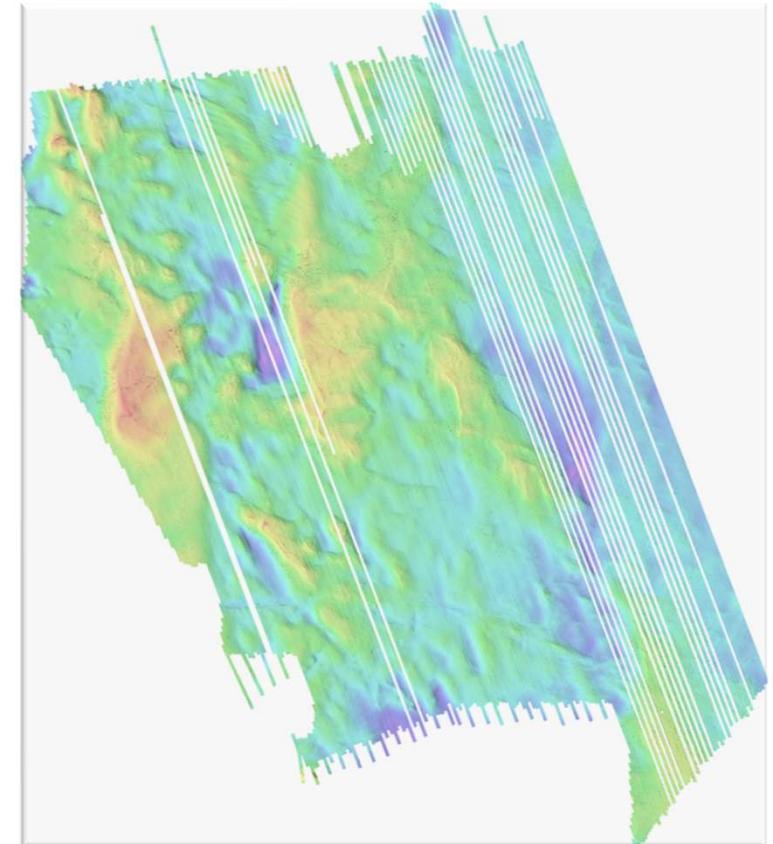
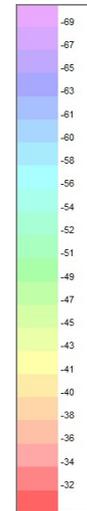
- ✓ identify relevant ecological features (i.e. designated sites, habitats, species or ecosystems) which may be impacted by the project.

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DIGITAL EIA

Challenges

- Data platforms and users – many
- EIA reporting – many software platforms, no standard
- Data – scale, size, portability – geophysical data **3.94TB!**
- Accessibility – is it accessible to all?
- Data security
- Duplication of effort in EIA reporting – EIA regulations



Bathymetry model from Geophysical Survey data – used to inform archaeology and benthic EIA surveys

DIGITAL EIA

Opportunities

- Interactive and easy to use EIA reports for all stakeholders
- Less environmental impact – HS2 EIA 49,000 pages long, cost over £15,000 to print one copy
- Common, interactive data platform for many data sources and users
- Ability to more effectively use the EIA process throughout development design to reduce environmental effects



CONCLUSION

Berwick Bank and Marr Bank – our digital EIA journey

- We have started and continue our journey with Digital EIA
- Virtual events, interactive data management and digital EIA reporting
- There are internal and external challenges with moving to a digital only EIA, not least project scale
- There are opportunities to work with stakeholders to present digital EIA in the right way
- Future goals include full digital EIA and thinking about common data platforms

THANK YOU

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