

# Orkney's Community Wind Farm Project - Faray

Environmental Impact Assessment Report – Volume 2

June 2021



# Contents

## Volume 1 – Chapters

## Volume 2 – Figures

### Figure Title

#### Introduction

- 1.1 Site Location Plan
- 1.2 Proposed Development Site Layout

#### Design Iterations

- 2.1 Environmental Designations Outwith the Site Boundary
- 2.2 Site Environmental Constraints and Opportunities
- 2.3 Turbine Layouts A & B
- 2.4 Turbine Layouts B, C & D
- 2.5 Turbine Layouts D, E & F
- 2.6 Infrastructure Layout 1 & 2
- 2.7 Infrastructure Layout 3 & 4

#### Proposed Development

- 3.1 Turbine Elevation
- 3.2 Typical Turbine Foundation
- 3.3 New Extended Slipway and Landing Jetty
- 3.4 Access Track Cross-section
- 3.5 Typical Drainage Design
- 3.6 Indicative Substation Elevation
- 3.7 Typical Met Mast Elevation

#### Planning Policy

- 5.1 OIC Energy Spatial Strategy

#### Ornithology

- 7.1 VP Locations and Viewsheds
- 7.2 Ornithological Designations
- 7.3 Schedule 1 Raptor Flightlines
- 7.4 Curlew Flightlines
- 7.5 Golden Plover Flightlines and Territories
- 7.6 Lapwing Flightlines and Territories
- 7.7 Oystercatcher Flightlines and Territories
- 7.8 Other Wader Flightlines and Territories

- 7.9 Shag AONs
- 7.10 Fulmar AONs
- 7.11 See Volume 5 (Confidential Appendices)
- 7.12 Gull AONs
- 7.13 Wildfowl Flightlines
- 7.14 Other Species Flightlines and Territories
- 7.15 Proposed Mitigation

#### Terrestrial Ecology

- 8.1 Nature Conservation Designations
- 8.2 Phase 1 Habitats
- 8.3 Otter Survey Results
- 8.4 Seal Survey Results
- 8.5 Cumulative Assessment

#### Noise

- 9.1 Proposed turbine layout, 35 dBLA90 screening contour, and NSRs
- 9.2 Cumulative wind turbines considered in assessment, location of Lidar device
- 9.3 Directional filtering applied to NMP1 baseline measurements
- 9.4 Directional filtering applied to NMP2 baseline measurements

#### Cultural Heritage

- 10.1 Heritage Assets and Proposed Infrastructure
- 10.2 Heritage Assets within 1km Study Area
- 10.3 Heritage Assets and 5km Study Area
- 10.4 Heritage Assets and 10km Study Area
- 10.5 Heritage Assets and 15km Study Area
- 10.6 Extract from 1882 Ordnance Survey map
- 10.7 Extract from 1881 Ordnance Survey map showing Quoy and Cott
- 10.8 Extract from 1881 Ordnance Survey map showing Doggerboat, School and Hamar
- 10.9 Extract from 1881 Ordnance Survey map showing Roadside and Lackquoy
- 10.10 Extract from 1881 Ordnance Survey map showing Windywall and Holland
- 10.11 Extract from 1881 Ordnance Survey map showing Ness

#### Geology, Hydrology and Hydrogeology

- 11.1 Watercourses, Drainage and Abandoned Wells
- 11.2 Bedrock Geology
- 11.3 Superficial Geology
- 11.4 Potential Groundwater Dependent Terrestrial Ecosystems

#### Traffic and Transport

- 12.1 Automatic Traffic Count (ATC) Locations

#### Shadow Flicker

- 15.1 Real Case Shadow Flicker Map
- 15.2 Cumulative Assessment Shadow Flicker

#### Marine Water and Sediment Quality

- 17.1 Marine Structures Sampling Plan

#### Other Issues

- 18.1 Seabed Survey Sample Plan (annotated)
- 18.2 ScotMap Inshore Fishing Monetary Value

## Volume 3 – LVIA Figures and Cultural Heritage Visualisations

## Volume 4 – Technical Appendices

## Volume 5 – Confidential Appendices