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## Glossary

| Term                            | Definition        |
|---------------------------------|-------------------|
| Environmental Impact Assessment | Environmental I   |
|                                 | a systematic wa   |
|                                 | effects from a d  |
| Environmental Impact Assessment | The Electricity V |
| Regulations                     | Regulations 207   |
| Environmental Impact Assessment | A document rep    |
| Report                          | accordance with   |
| The Proposed Development        | The Daer Wind     |
| The Proposed Development Area   | The area within   |
|                                 |                   |

# List of Abbreviations

| Abbreviation | Description                      |
|--------------|----------------------------------|
| ECU          | Energy Consents Unit             |
| EIA          | Environmental Impact Assessment  |
| EIAR         | Environmental Impact Assessment  |
| LVIA         | Landscape and Visual Impact Asse |
| NTS          | Non-Technical Summary            |





# Chapter 1 Introduction

I Impact Assessment (EIA) is a means of carrying out, in vay, an assessment of the likely significant environmental development.

Works (Environmental Impact Assessment) (Scotland) 017 (EIA Regulations)

eporting the findings of the EIA and produced in ith the EIA Regulations

Farm development

n which the Proposed Development will be located

Report essment

## 1.1. INTRODUCTION

- 1.1.1. This Environmental Impact Assessment Report (EIAR) has been prepared in support of an application submitted under Section 36 of the Electricity Act 1989 to construct and operate Daer Wind Farm (the Proposed Development).
- 1.1.2. The Proposed Development is located in both Dumfries & Galloway and South Lanarkshire local authority areas, and lies approximately 8 km west of the nearest town, Moffat, in the southern uplands of Scotland. It is directly adjacent to the southeast of the Daer Reservoir. The maximum topographic height of the site approaches 600 m AOD around Earnscraig Hill, with numerous other peaks on site over 500 m AOD.
- 1.1.3. The EIAR describes the natural and human environment of the area in which the Proposed Development would be situated (if consented). It describes the details of the construction, operational and decommissioning phases of the Proposed Development and assesses the potentially significant effects that the Proposed Development could have on the biological environment, the physical environment and on human health and population, as well as on material assets, cultural heritage and the landscape. It also describes the policy context in relation to the Proposed Development for renewable energy within Dumfries & Galloway and South Lanarkshire, Scotland and the UK, and the overall policy context as set out in international agreements to reduce emissions of climate change gases, and targets set for the growth of renewable energy generation.

## 1.2. STRUCTURE OF THE EIAR

1.2.1. The EIAR has been prepared in accordance with the EIA Regulations and follows the structure presented in Table 1 below. Where relevant each EIAR chapter considers the baseline environment, the likely significant effects for each phase of the development and cumulative impacts.

|        | able I. EIAR Structure   |   |
|--------|--|---|
| Volume | Heading  | Description   |
| 1      | EIAR Chapter 1: Introduction   | Presents the Proposed Development and provides a brief overview of the Applicant and the EIAR.  |
| 1      | EIAR Chapter 2: Site Selection<br>and Design Evolution               | Explains the site selection and the design evolution process that has resulted in the Proposed Development.   |
| 1      | EIAR Chapter 3: Project<br>Description                               | Provides a detailed description of the infrastructure associated with the Proposed Development.   |
| 1      | EIAR Chapter 4: Climate<br>Change, Legislative and Policy<br>Context | Identifies the energy and land use policies and outlines the<br>need for the Proposed Development and its benefits within the<br>context of international climate change agreements and<br>European, UK and Scottish renewable energy policy. |
| 1      | EIAR Chapter 5: Landscape<br>and Visual Impact Assessment<br>(LVIA)  | Provides an assessment of the Landscape and Visual Impacts<br>of the Proposed Development including Residential Visual<br>Amenity and Night-time effects.   |
| 1      | EIAR Chapter 6: Ecology  | Provides an assessment of the habitats and (non-avian) fauna present within the Proposed Development area and immediate surrounding environment.  |
| 1      | EIAR Chapter 7: Ornithology  | Provides an assessment of the potential effects upon avian species.   |
| 1      | EIAR Chapter 8: Hydrology,<br>Geology & Hydrogeology                 | Assesses the effects on the hydrological, geological and hydrogeological environment by the Proposed Development, including private water supplies and peat.  |

#### Table 1: EIAR Structure



| Volume | Heading   | Descript                                       |
|--------|---|--|
| 1      | EIAR Chapter 9: Cultural<br>Heritage  | Provides<br>Developr                           |
| 1      | EIAR Chapter 10: Noise  | Provides<br>Propose                            |
| 1      | EIAR Chapter 11: Traffic and<br>Transport   | Provides<br>requirem<br>transport              |
| 1      | EIAR Chapter 12: Forestry   | Assesses<br>existing p<br>amendm<br>Propose    |
| 1      | EIAR Chapter 13:<br>Infrastructure and Aviation   | Provides<br>Ministry<br>and exist              |
| 1      | EIAR Chapter 14:<br>Socioeconomics  | Provides<br>tourism e                          |
| 1      | EIAR Chapter 15: Synergistic<br>effects, Summary of Mitigation<br>and Residual<br>Effects | Assesses<br>from diffe<br>proposed<br>Developr |
| 2a     | Figures   | EIAR Fig                                       |
| 2b     | Figures   | LVIA Fig                                       |
| 2c     | Figures   | LVIA and                                       |
| 3      | Technical Appendices  | Provide a the EIA.                             |
| 4      | Non-Technical Summary   | Provides<br>can be u                           |



#### tion

- is an assessment of the potential effects of the Proposed pment upon cultural heritage assets.
- s an assessment of the potential noise effects of the ed Development.
- s an indicative construction programme, load nents and assesses the potential effects upon the rt network resulting from the Proposed Development.
- es how the Proposed Development will affect the plans for felling, restocking, and proposes suitable nents to forestry design plan(s) to accommodate the ed Development.
- s an assessment of the potential effects upon aviation, of Defence (MoD) interests, communication operations sting site infrastructure.
- s an assessment of the potential socioeconomic and effects of the Proposed Development.
- es the potential synergistic effects created by effects ferent subject areas in combination and summarises the ed mitigation and residual effects of the Proposed oment.
- gures except for LVIA
- gures only
- nd Cultural Heritage Visualisations
- additional supporting documents and data which inform

s a high-level summary of the EIA's results in terms that understood by a layperson.

#### **KEY PROJECT FACTS** 1.3.

- 1.3.1. Figure 1.1 illustrates the site layout of the Proposed Development. It consists of up to 17 wind turbines and associated infrastructure. It is expected to have an operational period of up to 35 years. Figure 1.2 illustrates the Proposed Development in a regional context and Figure 1.3 illustrates site constraints that were considered in the design evolution of the site layout.
- The Proposed Development's generating capacity of renewable electricity will be in excess of 50 MW. Therefore, 1.3.2. the application is made pursuant to Section 36 of the Electricity Act 1989 and the EIA has been undertaken in accordance with The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017.
- 1.3.3. The Proposed Development comprises the following main elements:
  - Up to 17 wind turbines
    - \_ Turbine foundations
    - External transformer housing
    - Crane pads
  - Substation, control building and compound
  - Battery/energy storage infrastructure
  - Upgrading and new access tracks •
  - Underground electricity cables connecting infrastructure within the Proposed Development Area •
  - 2 Anemometry masts
  - Signage
  - 4 Temporary borrow pits
  - Temporary construction and storage compounds, laydown areas and ancillary infrastructure
  - Drainage and drainage attenuation measures (as required).
- Any public road utilised for access to the site entrance may be utilised subject to upgrades where necessary. 1.3.4. Habitat management will be undertaken within the Proposed Development Area. Whilst the land where turbines will be erected is not forested, forest felling and replanting will be undertaken to facilitate road widening along the private access track to allow for construction traffic and component deliveries.
- Full details of the infrastructure associated with the Proposed Development is provided in EIAR Chapter 3. For 1.3.5. the purpose of this EIA turbines have been considered to be a maximum of up to 180 m in height to blade tip.
- 1.3.6. A Scoping Report was submitted to the ECU on 11 December 2018. A copy of this can be found in Technical Appendix 1.1 of the EIAR. The full Scoping Opinion was received from the ECU on 27 March 2019 and is provided in Appendix 1.2 of the EIAR. It informs the scope of the EIA undertaken for the Proposed Development. An update to the Scoping Report was also provided by Natural Power on behalf of the Applicant to the ECU which reported upon amendments to the Proposed Development including increasing the turbines from 15 to 18 and changing the site boundary.

### 1.4. EIA PROJECT TEAM

- 1.4.1. On 01 July 2020, RWE concluded its major asset swap with E.ON, which involved the integration of innogy Renewables in the UK. This established RWE as one of the UK's, and the world's, leading producers of renewable energy. RWE is now the world's second largest offshore wind developer and third largest provider of renewable electricity across Europe.
- 1.4.2. In the UK, this strengthens RWE's position as a leading energy player. RWE's UK & Ireland footprint extends over 80 sites, located across England, Scotland, Wales and Ireland, employing over 2,600 people and



generating over 10% of the UK's electricity needs - enough power for over 10 million homes. This makes RWE the second largest generator in the UK as a whole.

1.4.3. knowledge and experience in renewable energy to develop the Proposed Development.

Table 1.1: Details of the Applicant

#### Applicant

RWE Renewables UK Developments Ltd

- 1.4.4. and associated EIA documentation
- 1.4.5. and to prepare the EIAR.
- 1.4.6. respective EIAR Chapters.

Table 1.2: Details of agent and lead consultancy

| EIA Co-ordinator and Planning Consultancy |                  |
|---|------------------|
| Natural Power Consultants Limited         | The Green Ho     |
|   | Forrest Estate   |
|   | St John's Tow    |
|   | DG7 3XS          |
| Table 1.3: Other consultants invol        | vod in the produ |

Table 1.3: Other consultants involved in the production of this EIAR

| EIA Contributors                                       |                             |
|--|-----------------------------|
| LVIA Review  |                             |
| Wood Environment & Infrastructure Solutions UK Limited | 15 Justice Mil<br>Aberdeen, |
|  | AB11 6EQ                    |
|  | Scotland                    |



RWE has made ambitious commitments to increase the generation of clean, reliable and affordable electricity. Alongside the ambition to be carbon neutral by 2040, RWE continues to invest heavily in wind power and other emerging technologies, such as hydrogen and floating offshore wind. RWE's planned gross growth capex spend 2020-2022 will be €8-9bn globally, of which around 30-35% will be in the UK. The Applicant has the necessary

| Greenwood House        |
|------------------------|
| Westwood Way           |
| Westwood Business Park |
| Coventry               |
| CV4 8PB                |

The Proposed Development has been designed and assessed by the Applicant in association with its lead consultants, Natural Power (Table 1.2). Natural Power has been appointed to coordinate and produce this EIAR

Natural Power has been providing expertise to the renewable energy industry since the company was formed in 1995 and is one of the UK's leading renewable energy consultants. Natural Power currently employs over 400 people working full time providing renewable energy services nationally and internationally. Testimony to Natural Power's experience and ongoing commitment to competency and continual improvement, its Planning & Environment Department is accredited by the Institute of Environmental Management and Assessment. In addition, Natural Power also operates in formally accredited health and safety (IOSAS 18001), environmental (14001) and guality (9001) management systems. As well as development and EIA services, Natural Power also provides expert advice and due diligence consultancy, site construction management and site operation and maintenance. Thus, Natural Power is a competent, experienced consultant to co-ordinate and undertake EIA

Contact details for Natural Power and other consultants involved in the production of the EIAR are provided in Tables 1.2 & 1.3. Competency statements for other consultants involved in the EIA are provided in their

> louse. te, wn of Dalry,

ill Lane

| EIA Contributors                 |   |  |
|----------------------------------|---|--|
| Cultural Heritage Assessment     |   |  |
| CFA Archaeology Ltd              | Old Engine House,<br>Eskmills Park,<br>Musselburgh,<br>East Lothian,<br>EH21 7PQ    |  |
| Noise Assessment                 |   |  |
| Hayes McKenzie Partnership Ltd   | Unit 3,<br>Oakridge Office Park,<br>Whaddon,<br>Salisbury,<br>Wiltshire,<br>SP5 3HT |  |
| Traffic and Transport Assessment |   |  |
| Pell Frischmann                  | 93 George Street<br>Edinburgh<br>EH2 3ES  |  |
| Aviation Assessment              |   |  |
| WPAC Ltd.                        | Hazards,<br>38 Hadrian Way,<br>Chilworth,<br>Southampton<br>SO16 7HX                |  |
| Forestry Assessment              |   |  |
| DGA Forestry LLP                 | Forestry Managers and<br>Consultants,<br>40 Main Street,<br>New Abbey,<br>DG2 8BY   |  |



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