



# **Areacleoch Windfarm Extension**

**Volume 2: Environmental Impact  
Assessment Report**

June 2019

# Preface

This document is the Environmental Impact Assessment Report (EIA Report) and has been prepared to accompany the application for consent for the proposed Arcleoch Windfarm Extension. The proposed Development is approximately 3 km south west of the village of Barrhill. The majority of the proposed Development lies within the South Ayrshire Council area, with a small section of the main access track located in Dumfries and Galloway.

The EIA Report comprises the following:

- Volume 1 Non-Technical Summary;
- Volume 2 EIA Report Chapters;
- Volume 3 EIA Report Figures; and
- Volume 4 Technical Appendices.

Hard copies of the EIA Report may be purchased by arrangement from the below address for £1,000 per copy, or £15 per DVD/USB. Specific sections of the EIA Report are also available on request at appropriate cost. The price of the hard copy reflects the cost of producing all of the Landscape and Visual photographs at the recommended size. As such, a DVD/USB version is recommended. Copies of the EIA Report may be obtained from the following address:

SLR Consulting Limited  
Floor 2  
4/5 Lochside View  
Edinburgh Park  
Edinburgh  
EH12 9DH  
Tel: 0131 335 6830

A hardcopy of the EIA Report is available for viewing by the public during normal opening hours at the following locations:

- Barrhill Memorial Hall, Main Street, Barrhill, KA26 0PP;
- Colmonell CE Centre, Main Street, Colmonell, KA26 0RY;
- Dumfries & Galloway Council HQ, Kirkbank House, English Street, Dumfries, DG1 2HS;
- Scottish Government Library, Victoria Quay, Edinburgh, EH6 6QQ; and
- South Ayrshire Council, Burns House, Burns Statue Square, Ayr, KA7 1UT.

Comments in relation to the application for consent should be forwarded to the address below:

Energy Consents Unit  
Scottish Government  
4<sup>th</sup> Floor  
5 Atlantic Quay  
150 Broomielaw  
Glasgow  
G2 8LU

Email: [representations@gov.scot](mailto:representations@gov.scot)

Web: [www.energyconsents.scot/Register.aspx](http://www.energyconsents.scot/Register.aspx)

# Abbreviations

AGLV	Area of Great Landscape Value	Ha	Hectares
BCT	Bat Conservation Trust	HMP	Habitat Management Plan
BAP	Biodiversity Action Plan	HS	Historic Scotland
Birds Directive	Council Directive 2009/147/EC on the Conservation of Wild Birds	IEMA	Institute of Environmental Management and Assessment
BoCC	Birds of Conservation Concern	IEEM	Institute of Ecology and Environmental Management
BGS	British Geological Survey	IOA GPG	Institute of Acoustics Good Practice Guidance
BPP	Bird Protection Plan	IPCC	Intergovernmental Panel on Climate Change
CAR	The Water Environment (Controlled Activities) (Scotland) Regulations 2011	IUCN	International Union for Conservation of Nature
CLVIA	Cumulative Landscape and Visual Assessment	JNCC	Joint Nature Conservation Committee
CEMP	Construction and Environmental Management Plan	LBAP	Local Biodiversity Action Plan
CoPA	Control of Pollution Act	LCA	Landscape Character Assessment
CMS	Construction Method Statement	LCT	Landscape Character Type
CRM	Collision Risk Model	LVIA	Landscape and Visual Impact Assessment
D&GC	Dumfries and Galloway Council	MOD	Ministry of Defence
DEFRA	Department for Environment, Food and Rural Affairs	MtC	Metric Tonnes of Carbon
DMRB	Design Manual for Roads and Bridges	MW	Megawatt
DfT	Department of Transport	MWh	Megawatt Hour
DTM	Digital Terrain Model	NATS	National Air Traffic Services
EC	European Commission	NCA	The Nature Conservation (Scotland) Act 2004
EclA	Ecological Impact Assessment	NCR	National Cycle Routes
ECoW	Ecological Clerk of Works	NERL	National Air Traffic Services (en route) Limited
EIA	Environmental Impact Assessment	NHZ	National Heritage Zone
EPA	Environmental Protection Act 1990	NMRS	National Monuments Record of Scotland
ER	Environmental Report	NNR	National Nature Reserve
ETSU Guidance	The Assessment and Rating of Noise from Wind Farms ETSU 1997	NPF2	National Planning Framework for Scotland 2
EU	European Union	NSA	National Scenic Area
FEH	Flood Estimation Handbook	NTS	Non-Technical Summary
GDL	Gardens and Designed Landscapes	NVC	National Vegetation Classification
GPS	Geographical Positioning System	OS	Ordnance Survey
GVP	Generic Vantage Points	PPV	Peak Particle Velocity
GWDTE	Ground Water Dependant Terrestrial Ecosystems	PFM	Predictable Flight Method
GWh	Gigawatt Hour	PPG	Pollution Prevention Guidelines
Habitats Directive	Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Flora and Fauna	RoW	Right of Way
Habitats Regulations	The Conservation (Natural Habitats &c.) Regulations 1994 as amended	RSA	Regional Scenic Areas

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RSH	Rotor Swept Height
RSPB	Royal Society for the Protection of Birds
RCAHMS	Royal Commission on the Ancient and Historical Monuments of Scotland
SAC	Special Areas of Conservation
SAM	Scheduled Ancient Monument
SEPA	Scottish Environmental Protection Agency
SHEP	Scottish Historic Environment Policy
SLA	Special Landscape Areas
SMR	Sites and Monuments Record
SNH	Scottish Natural Heritage
SPA	Special Protection Area
SPP	Scottish Planning Policy
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Urban Drainage Systems
SW	Scottish Water
SWT	Scottish Wildlife Trust
The EIA Regs	The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2017
TOC	Total Organic Carbon
UFM	Unpredictable Flight Method
UK BAP	UK Biodiversity Action Plan
VER	Valued Ecological Receptors
VOR	Valued Ornithological Receptors
VP	Vantage Point
Water Framework Directive	Council Directive 2000 /60/EC of the European Parliament and of the Council; establishing a framework for the Community action in the field of water policy
WCA	The Wildlife and Countryside Act 1981 (as amended)
WHO	World Health Organisation
ZTV	Zone of Theoretical Visibility

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# EIA Report Chapters

**Chapter 1: Introduction**

**Chapter 2: Site Description and Design Evolution**

**Chapter 3: Description of the Development**

**Chapter 4: Renewable Energy and Planning Policy**

**Chapter 5: Environmental Impact Assessment**

**Chapter 6: Scoping and Consultation**

**Chapter 7: Landscape and Visual**

**Chapter 8: Ecology**

**Chapter 9: Ornithology**

**Chapter 10: Hydrology, Hydrogeology, Geology and Soils**

**Chapter 11: Cultural Heritage and Archaeology**

**Chapter 12: Access, Traffic and Transport**

**Chapter 13: Noise**

**Chapter 14: Socio-economics and Land Use**

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