



Lorg Wind Farm Grid Connection

Environmental Impact Assessment Report

Chapter 12: Summary of Significant Effects

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12 SUMMARY OF SIGNIFICANT EFFECTS

12.1 Introduction

12.1.1 This Chapter provides a summary of the Proposed Development's predicted likely significant environmental effects.

12.1.2 **Chapters 6-11** of the Environmental Impact Assessment Report (EIAR) present the findings of the assessments of the likely significant effects of the Proposed Development on a topic-by-topic basis. The significance of these effects has been assessed using criteria defined in the assessment chapters. Where appropriate, the significance of effects has been categorised as 'major', 'moderate', 'minor' or 'negligible'. In the context of the Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 ('the EIA Regulations')¹, effects assessed as being of major or moderate significance are considered to be significant effects.

12.2 Summary of Effects

12.2.1 **Table 12.1** presents the predicted significant residual effects of the Proposed Development following the implementation of additional mitigation measures, where relevant. Only effects which are considered to be significant post implementation of additional design, mitigation and enhancement measures are presented. All other effects are considered to be not significant following embedded and, where required, additional mitigation and are therefore not presented.

12.2.2 Following embedded and, where required, committed additional mitigation, significant effects are predicted in relation to:

- Landscape and Visual; and
- Cumulative Effects.
- Following embedded and, where required, committed additional mitigation, no significant effects are predicted in relation to the following topics:
- Cultural Heritage and Archaeology;
- Ecology and Ornithology;
- Forestry; and
- Hydrology, Hydrogeology, Geology and Soils.

12.2.3 A schedule of environmental mitigation commitments is provided as **Appendix 12.1: Schedule of Commitments**.

¹ Scottish Government (2017). The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017. Available online at: <https://www.legislation.gov.uk/ssi/2017/101/contents>

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Table 12.1 Significant Effects Summary

Predicted Effect	Significance of Effect with Embedded Mitigation	Additional Design, Mitigation, and Enhancement Measures	Magnitude of Residual Effect	Significance of Residual Effect
Landscape Effects				
Construction				
LCT160 Narrow Wooded River Valley (Landscape)	Moderate adverse	There is no practical additional mitigation for temporary landscape effects associated with the construction phase.	Moderate adverse	Significant (temporary)
LCT177 Southern Uplands (Landscape)	Moderate adverse	There is no practical additional mitigation for temporary landscape effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Visual Effects				
Construction				
Residents at Brockloch Tower	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Road users of Galloway Tourist Route A713	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Users of Core Path Cairnsmore of Carsphairn by Green Well (CARS/487/2)	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Recreational users with elevated views	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Users of Core Path Cairnsmore of Carsphairn by Craig	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)

Predicted Effect	Significance of Effect with Embedded Mitigation	Additional Design, Mitigation, and Enhancement Measures	Magnitude of Residual Effect	Significance of Residual Effect
of Knockgray (CARS/182/1)				
Users of Core Path Corlae (CARS/188/1)	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Residents at Furmiston	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Users of Lorg Road	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Residents at Craigengillan	Moderate-major adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate-major adverse	Significant (temporary)
Residents and visitors to River Ken Cottage B&B (Strahanna)	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Residents at Auchrae	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Residents at Corlae	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Residents at Nether Holm	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Users of Core Path Lorg Trail (CARS/215/4)	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Operation				

Predicted Effect	Significance of Effect with Embedded Mitigation	Additional Design, Mitigation, and Enhancement Measures	Magnitude of Residual Effect	Significance of Residual Effect
Residents at Craigengillan (Visual)	Moderate adverse	There is no practical additional mitigation for visual effects associated with the Operational phase.	Visual: moderate adverse (significant) at Year 1 and Year 15	Significant
Cumulative Effects				
Construction Phase				
Cumulative visual impacts with Quantans Hill Wind Farm	Major adverse	There is no practical additional mitigation for temporary cumulative visual effects associated with the construction phase.	Major adverse	Significant (temporary)
Cumulative visual impacts with Holm Hill Substation	Moderate adverse	There is no practical additional mitigation for temporary cumulative visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Cumulative visual impacts with Shepherds Rig Wind Farm	Major adverse	There is no practical additional mitigation for temporary cumulative visual effects associated with the construction phase.	Major adverse	Significant (temporary)
Cumulative visual impacts with Lorg Wind Farm	Landscape: moderate adverse Visual: major adverse	There is no practical additional mitigation for temporary cumulative visual effects associated with the construction phase.	Landscape: moderate adverse (significant) Visual: major adverse (significant)	Significant (temporary)
Cumulative visual impacts with Windy Standard III Wind Farm	Moderate adverse	There is no practical additional mitigation for temporary cumulative visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Cumulative visual impacts with Euchanhead Wind Farm Near Sanquhar	Moderate adverse	There is no practical additional mitigation for temporary cumulative visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)

Predicted Effect	Significance of Effect with Embedded Mitigation	Additional Design, Mitigation, and Enhancement Measures	Magnitude of Residual Effect	Significance of Residual Effect
Cumulative visual impacts with Manquill Wind Farm	Moderate adverse	There is no practical additional mitigation for temporary visual effects associated with the construction phase.	Moderate adverse	Significant (temporary)
Operation Phase				
Cumulative visual impacts with Quantans Wind Farm	<p>Landscape: moderate adverse (significant) at Year 1 of Operation, reducing to negligible (not significant) by Year 15.</p> <p>Visual: major adverse (significant) at Year 1 of Operation, reducing to negligible (not significant) for users of the A713 and users of the Cainsmore of Carsphairn by Green Well Core Path by Year 15.</p>	<p>There is no practical additional mitigation for cumulative visual effects associated with the operation phase.</p>	<p>Landscape: moderate adverse (significant) at Year 1 of Operation, reducing to negligible (not significant) by Year 15.</p> <p>Visual: major adverse (significant) at Year 1 of Operation, reducing to negligible (not significant) for users of the A713 and users of the Cainsmore of Carsphairn by Green Well Core Path by Year 15.</p>	Significant
Cumulative visual impacts with Shepherds Rig Wind Farm	<p>Landscape: major adverse (significant) in Year 1 of Operation, reducing to negligible (not significant) by Year 15.</p> <p>Visual: major adverse (significant) at Craigengillan, moderate adverse (significant) for all other receptors at Year 1, reducing to negligible (not significant) for residents at Auchrae by Year 15.</p>	<p>There is no practical additional mitigation for cumulative visual effects associated with the operation phase.</p>	<p>Landscape: major adverse (significant) in Year 1 of Operation, reducing to negligible (not significant) by Year 15.</p> <p>Visual: major adverse (significant) at Craigengillan, moderate adverse (significant) for all other receptors at Year 1, reducing to negligible (not significant) for residents at Auchrae by Year 15.</p>	Significant
Cumulative visual impacts with Lorg Wind Farm	<p>Landscape: major adverse (significant) at Year 1, reducing to negligible (not significant) at Year 15.</p> <p>Visual: major adverse (significant), reducing to negligible (not significant)</p>	<p>There is no practical additional mitigation for cumulative visual effects associated with the operation phase.</p>	<p>Landscape: major adverse (significant) at Year 1, reducing to negligible (not significant) at Year 15.</p> <p>Visual: major adverse (significant), reducing to negligible (not significant)</p>	Significant

Predicted Effect	Significance of Effect with Embedded Mitigation	Additional Design, Mitigation, and Enhancement Measures	Magnitude of Residual Effect	Significance of Residual Effect
	significant) for residents at Auchrae in Year 15.		(not significant) for residents at Auchrae in Year 15.	
Cumulative visual impacts with Windy Standard III Wind Farm	Visual: major adverse (significant) at Year 1, reducing to negligible (not significant) at Year 15.	There is no practical additional mitigation for cumulative visual effects associated with the operation phase.	Visual: major adverse (significant) at Year 1, reducing to negligible (not significant) at Year 15.	Significant
Cumulative visual impacts with Euchanhead Wind Farm Near Sanquhar	Landscape: major adverse (significant) at Year 1, reducing to negligible (not significant) at Year 15. Visual: moderate adverse (significant)	There is no practical additional mitigation for cumulative visual effects associated with the operation phase.	Landscape: major adverse (significant) at Year 1, reducing to negligible (not significant) at Year 15. Visual: moderate adverse (significant)	Significant
Cumulative visual impacts with Manquill Wind Farm	Visual: moderate adverse (significant)	There is no practical additional mitigation for cumulative visual effects associated with the operation phase.	Visual: moderate adverse (significant)	Significant

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