

Contents

Volume 1 – Part A – Non-technical Summary

Non-technical Summary

Alternatives Considered

Proposed Development

Construction Strategy

Planning and Policy

Environmental Topics

Traffic and Transportation

Air Quality and Climate

Noise and Vibration

Biodiversity

Archaeology, Architectural and Cultural Heritage

Landscape and Visual

Land, Soils, Geology and Hydrogeology

Water and Hydrology

Resource and Waste Management

Population and Human Health

Material Assets

Major Accidents and Disasters

Cummulative, Transboundary and Interative Effects

Viewing and Purchasing of the EIAR

Volume 1 – Part B – Main Chapters

1 Introduction and Background

- 1.1 Introduction
- 1.2 The Project
- 1.3 The Proposed Development
- 1.4 Greenlink Interconnector Limited
- 1.5 Need for the Proposed Development
- 1.6 Statutory Consent Process for the Proposed Development
- 1.7 Other Consents within the Jurisdiction of the Irish State: Foreshore Licensing
- 1.8 Screening for EIA
- 1.9 Approach to the EIA
- 1.10 Project Team
- 1.11 Assessments and Consultation Undertaken
- 1.12 Difficulties Encountered During the Assessment
- 1.13 References

2 Alternatives Considered

- 2.1 Introduction
- 2.2 Do-Nothing Alternative
- 2.3 Interconnection Options
- 2.4 Alternative Sites and Routes
- 2.5 Onshore Routing
- 2.6 Interconnector Capacity
- 2.7 Interconnector Technology Options
- 2.8 Decommissioning Options
- 2.9 Car Parking Options
- 2.10 Alternatives relating to community gain in Ramsgrange
- 2.11 Alternatives relating to delivery of abnormal loads

2.12 References

3 Proposed Development

3.1 Introduction

3.2 Overview

3.3 Land Requirements

3.4 Cable Routes

3.5 Tail Station

3.6 Converter Station

3.7 Community Gain (also summarised in Appendix 3.1)

3.8 Other Parts of the Project

3.9 Unrelated Projects which have the Potential for Cumulative Effects

3.10 References

4 Construction Strategy

4.1 Introduction

4.2 Duration and Phasing

4.3 Land Use Requirements

4.4 Construction Methods

4.5 Onshore Cable Construction

4.6 Commissioning Activities

4.7 Construction Access, Haul Routes and Abnormal Loads

4.8 Site Management

4.9 Materials Management

4.10 Safety Management

4.11 Environmental Management

4.12 References

5 Planning and Policy

5.1 Introduction

- 5.2 Energy Policy
- 5.3 Planning Framework
- 5.4 Conclusion on Planning and Policies
- 5.5 References

6 Traffic and Transportation

- 6.1 Introduction
- 6.2 Assessment Methodology
- 6.3 Existing Environment
- 6.4 Characteristics of the Proposed Development
- 6.5 Potential Effects
- 6.6 Mitigation Measures
- 6.7 Residual Effects
- 6.8 Impact Assessment Summary and Conclusion
- 6.9 References

7 Air Quality and Climate

- 7.1 Introduction
- 7.2 Assessment Methodology
- 7.3 Baseline Conditions
- 7.4 Potential Effects
- 7.5 Vulnerability to Climate Change
- 7.6 Mitigation Measures and Monitoring
- 7.7 Residual Effects
- 7.8 Cumulative and Transboundary Effects
- 7.9 Impact Assessment Summary
- 7.10 References

8 Noise and Vibration

- 8.1 Introduction

- 8.2 Assessment Methodology
- 8.3 Baseline Environment
- 8.4 Potential Effects
- 8.5 Mitigation Measures and Monitoring
- 8.6 Residual Effects
- 8.7 Cumulative and Transboundary Effects
- 8.8 Impact Assessment Summary
- 8.9 Conclusion
- 8.10 References

9 Biodiversity

- 9.1 Introduction
- 9.2 Assessment Methodology
- 9.3 Baseline Environment
- 9.4 Potential Effects
- 9.5 Mitigation and Monitoring Measures
- 9.6 Cumulative and Transboundary Effects
- 9.7 Residual Effects
- 9.8 Conclusions
- 9.9 References

10 Archaeology, Architectural and Cultural Heritage

- 10.1 Introduction
- 10.2 Description of the Proposed Development
- 10.3 Assessment Methodology
- 10.4 Baseline Environment
- 10.5 Potential Effects
- 10.6 Mitigation Measures and Monitoring
- 10.7 Residual Effects

- 10.8 Cumulative and Transboundary Effects
- 10.9 Impact Assessment Summary
- 10.10 Conclusion
- 10.11 References

11 Landscape and Visual

- 11.1 Introduction
- 11.2 Existing Environment
- 11.3 Potential Impacts
- 11.4 Mitigation Measures
- 11.5 Residual Impacts
- 11.6 Impact Assessment Summary
- 11.7 Conclusion
- 11.8 References

12 Land, Soils, Geology and Hydrogeology

- 12.1 Introduction
- 12.2 Assessment Methodology
- 12.3 Baseline Environment
- 12.4 Characteristics of Proposed Development
- 12.5 Potential Effects – Construction Phase
- 12.6 Potential Effects – Operational Phase
- 12.7 Potential Effects - Decommissioning
- 12.8 Mitigation Measures
- 12.9 Monitoring
- 12.10 Residual Effects
- 12.11 Cumulative and Transboundary Effects
- 12.12 Conclusion
- 12.13 References

13 Water and Hydrology

- 13.1 Introduction
- 13.2 Assessment Methodology
- 13.3 Baseline Environment
- 13.4 Characteristics of Proposed Development
- 13.5 Potential Effects
- 13.6 Mitigation Measures and Monitoring
- 13.7 Residual Effects
- 13.8 Cumulative and Transboundary Effects
- 13.9 Impact Assessment Summary
- 13.10 Conclusion
- 13.11 References

14 Resource and Waste Management

- 14.1 Introduction
- 14.2 Assessment Methodology
- 14.3 Baseline Environment
- 14.4 Potential Effects
- 14.5 Mitigation Measures and Monitoring
- 14.6 Residual Effects
- 14.7 Cumulative and Transboundary Effects
- 14.8 Impact Assessment Summary
- 14.9 Conclusion
- 14.10 References

15 Population and Human Health

- 15.1 Introduction
- 15.2 Assessment Methodology

- 15.3 Baseline Environment
- 15.4 Potential Effects
- 15.5 Mitigation Measures and Monitoring
- 15.6 Residual Effects
- 15.7 Cumulative and Transboundary Effects
- 15.8 Impact Assessment Summary
- 15.9 Conclusion
- 15.10 References

16 Material Assets

- 16.1 Introduction
- 16.2 Assessment Methodology
- 16.3 Baseline Environment
- 16.4 Potential Effects
- 16.5 Mitigation Measures and Monitoring
- 16.6 Residual Effects
- 16.7 Cumulative and Transboundary Effects
- 16.8 Impact Assessment Summary
- 16.9 Conclusions
- 16.10 References

17 Major Accidents and Disasters

- 17.1 Introduction
- 17.2 Assessment Methodology
- 17.3 Baseline Environment
- 17.4 Potential Effects
- 17.5 Mitigation Measures and Monitoring
- 17.6 Residual Effects
- 17.7 Cumulative and Transboundary Effects

- 17.8 Impact Assessment Summary
- 17.9 Conclusion
- 17.10 References
- 18 Cumulative, Transboundary and Interactive Effects**
 - 18.1 Introduction
 - 18.2 Assessment Methodology
 - 18.3 Interactive and Indirect Effects
 - 18.4 Cumulative Effects
 - 18.5 Transboundary Effects
 - 18.6 Conclusion
 - 18.7 Impact Assessment Summary
 - 18.8 References
- 19 Summary of Mitigation, Monitoring and Residual Effects**
- 20 Glossary**

Volume 2 - Appendices

Appendix 1.1 EIAR Team Competencies

Appendix 1.2 Onshore Ireland Environmental Scoping

Appendix 1.3 Scoping Response Table

Appendix 1.4a Presentation to Wexford County Council

Appendix 1.4b Minutes of Meeting with Wexford County Council

Appendix 1.5 EPA EIAR Guidelines Aug 2017

Appendix 1.6 Joint Environmental Report

Appendix 3.1 Community Gain

Appendix 4.1 Construction Environmental Management Plan (CEMP)

Appendix 4.2 Code of Practice for Working in the Vicinity of the Gas Transmission Network

Appendix 6.1 Construction Traffic Management Plan

Appendix 9.1 NRA Guidelines for Ecological Assessment

Appendix 9.2 Bat Emergence Survey Dunbrody Bridge

Appendix 9.3 Breeding Bird Survey and Barn Owl Survey

Appendix 9.4 Winter Bird Survey

Appendix 9.5 Arboricultural Survey

Appendix 9.6 Invasive Species Management Plan

Appendix 10.1 Excavated Archaeological Sites

Appendix 10.2 Record of Monuments and Places Sites Within 100m

Appendix 10.3 Archaeological Monitoring Report

Appendix 11.1 Landscape and Visual Figures and Photomontages

Appendix 12.1 Geotechnical Factual Reports

Appendix 12.2 Land, Soils Geology and Hydrogeology Figures

Appendix 13.1 Flood Risk Assessment

Appendix 14.1 Resource and Waste Management Legal and Policy Review

Appendix 15.1 EMF Environmental Report