

Environmental Statement: Table of Contents

The Great Grid Upgrade

Pentir to Trawsfynydd

Pentir to Trawsfynydd – Non-Technical Summary

Pentir

Pentir to Trawsfynydd – Introduction – Volume 1

- Introduction Text
- All Figures for Introduction

Pentir Environmental Statement – Volume 2

- Main Text
- All Figures for Pentir

Bryncir

Bryncir Environmental Statement – Volume 3

- Main Text
- All Figures for Bryncir

Glaslyn

Glaslyn Environmental Statement – Volume 4 – Part 1:

- Main Text

Glaslyn Environmental Statement – Volume 4 – Part 2:

- Figure 4.2.1: Location of the Proposed Works
- Figure 4.2.2: Existing Cables
- Figure 4.2.3: Glaslyn Works Site
- Figure 4.2.4: Wern Cable Sealing End Compound Layout
- Figure 4.2.5: Minffordd Cable Sealing End Compound Layout
- Figure 4.4.1: Landscape and Visual Impact Assessment Study Area
- Figure 4.4.2: National Landscape and National Seascape Character Areas Figure 4.4.3: Gwynedd Local Landscape Character Areas
- Figure 4.4.4: Eryri National Park Local Landscape and Seascape Character Areas
- Figure 4.4.5: LANDMAP Visual Sensory Landscape Character Areas
- Figure 4.4.6: Landscape Relevant Statutory Designations and Recreational Routes
- Figure 4.4.7: Landscape Relevant Non-Statutory Designations
- Figure 4.4.8: Zone of Theoretical Visibility Wern Cable Sealing End Compound
- Figure 4.4.9: Zone of Theoretical Visibility Minffordd Cable Sealing End Compound

- Figure 4.4.10: Zone of Theoretical Visibility Glaslyn Works Site
- Figure 4.4.11: Representative Viewpoint and Visual Receptor Locations
- Figure 4.4.12: Baseline Photography (partial)

Glaslyn Environmental Statement – Volume 4 – Part 3:

- Figure 4.4.12: Baseline Photography (part)
- Figure 4.5.1: Statutory Designated Sites for Nature Conservation in the Wider Area (up to 30 km)
- Figure 4.5.2: Statutory Designated Sites for Nature Conservation within 5 km
- Figure 4.5.3: Non-Statutory Sites Designated for Nature Conservation within 2 km
- Figure 4.5.4: Habitats of Principle Importance and Ancient Woodland within 2 km
- Figure 4.7.1: Made Ground, Superficial Geology and Historic Borehole logs
- Figure 4.7.2: Bedrock Geology
- Figure 4.7.3: Hydrogeology
- Figure 4.7.4: Groundwater Vulnerability
- Figure 4.7.5: Potential Sources of Contamination
- Figure 4.7.6: Historic Potential Sources of Contamination
- Figure 4.7.7: Mining Quarrying and Mineral Resources
- Figure 4.7.8: Surface Ground Workings (part)

Glaslyn Environmental Statement Volume 4 – Part 4

- Figure 4.7.8: Surface Ground Workings (part)
- Figure 4.8.1: Site location
- Figure 4.8.2: Zone of Influence
- Figure 4.8.3: Route breakdown
- Figure 4.8.4: Topographic overview
- Figure 4.8.5: Hydrological overview
- Figure 4.8.6: Water resources
- Figure 4.8.7: Water dependant designated sites
- Figure 4.8.8: Water Framework Directive waterbodies
- Figure 4.8.9: Flood risk overview
- Figure 4.9.1: Traffic and Transport Study Area and Traffic Survey Locations
- Figure 4.9.2: Study Area Road Network
- Figure 4.9.3: Traffic Accident Locations
- Figure 4.9.4: Indicative Heavy Goods Vehicle (HGV) Routing

- Figure 4.10.1: Construction Dust Assessment
- Figure 4.11.1: Noise Monitoring and Sensitive Receptor Locations
- Figure 4.12.1: Socio-Economic land use receptors
- Figure 4.12.2: 60-minute peak hour drive time from the Glaslyn works site
- Figure 4.12.3: Public Rights of Way

Trawsfynydd

Trawsfynydd Environmental Statement – Volume 5

- Main Text
- All Figures for Trawsfynydd

Wider Works

Wider Works Environmental Statement – Volume 6 – Part 1

- Main Text

Wider Works Environmental Statement – Volume 6 – Part 2

- Figure 6.2.1: Location of the Wider Works
- Figure 6.2.2: Wider Works Site
- Figure 6.5.1: Statutory Designated Sites for Nature Conservation in the Wider Area
- Figure 6.5.2: Statutory Designated Sites for Nature Conservation
- Figure 6.5.3: Non-Statutory Designated Sites for Nature Conservation
- Figure 6.5.4: Habitats of Principal Importance and Ancient Woodland (part)

Wider Works Environmental Statement – Volume 6 – Part 3

- Figure 6.5.4: Habitats of Principal Importance and Ancient Woodland (part)
- Figure 6.5.5: Construction Dust Assessment.
- Appendix A: Study Area and Baseline
- Annex A: Fluvial and surface water flood risk

Wider Works Environmental Statement – Volume 6 – Appendix Figures Part A – Section 1

- Figure 6.A.1: Made Ground, Superficial Geology and Historic Borehole Logs
- Figure 6.A.2: Bedrock Geology
- Figure 6.A.3: Ground Stability (part)

Wider Works Environmental Statement – Volume 6 – Appendix Figures Part A – Section 2

- Figure 6.A.3: Ground Stability (part)

- Figure 6.A.4: Hydrogeology
- Figure 6.A.5: Groundwater Vulnerability
- Figure 6.A.6: Potential Sources of Contamination(part)

Wider Works Environmental Statement – Volume 6 – Appendix Figures Part A – Section 3

- Figure 6.A.6: Potential Sources of Contamination (part)
- Figure 6.A.7: Historical Potential Sources of Contamination
- Figure 6.A.8: Mining, Quarrying and Mineral Resource (part)

Wider Works Environmental Statement – Volume 6 – Appendix Figures Part A – Section 4

- Figure 6.A.8: Mining, Quarrying and Mineral Resource (part)
- Figure 6.A.9: Surface Ground Workings

Wider Works Environmental Statement – Volume 6 – Appendix Figures Part B – Section 1

- Figure 6.A.10: Agricultural Land Classification
- Figure 6.A.11: Socio-Economic Land Use Receptors
- Figure 6.A.12: 60 Minute Peak Hour Drive Time from Wider Works Site
- Figure 6.A.13: Public Rights of Way (part)

Wider Works Environmental Statement – Volume 6 – Appendix Figures Part B – Section 2

- Figure 6.A.13: Public Rights of Way (part)
- Figure 6.A.14: Hydrological Overview
- Figure 6.A.15: Water Resources
- Figure 6.A.16: Water Framework Directive Surface Waterbodies
- Figure 6.A.17: Flood Risk

Cumulative Assessment Environmental Statement – Volume 7

- The Project and Cumulative Assessment Figures for Volume 7

Environmental Statement Appendices – Volume 8 Part 1 – Volume 1 Appendices

- Appendix 1.1.A: Legislation, Policy and Guidance
- Appendix 1.4.A: Topic Assessment Methodology

Environmental Statement Appendices – Volume 8 Part 2 – Volume 2 Appendices

- Appendix 2.2.A: Outline Construction Environmental Management Plan
- Appendix 2.5.A: Aquatic Survey Report

- Appendix 2.5.B: Pentir Statutory Designated Sites Citations
- Appendix 2.5.C: Pentir Arboricultural Impact Assessment
- Appendix 2.5.D: Net Benefit for Biodiversity and Green Infrastructure Statement
- Appendix 2.6.A: Historic Environment Desk Based Assessment for the Pentir Works
- Appendix 2.6.B: Gazetteer of Historic Assets and Archaeological Investigations (Pentir)
- Appendix 2.7.A: Pentir: Initial Conceptual Site Model and Risk Assessment
- Appendix 2.9.A: Pentir Traffic Flow Diagrams
- Appendix 2.9.B: Pentir Traffic Base Counts
- Appendix 2.13.A: Pentir Climate Change Risk Assessment

Environmental Statement Appendices – Volume 8 Part 3 – Volume 3 Appendices

- Appendix 3.2.A: Outline Construction Environmental Management Plan
- Appendix 3.4.A: Bryncir Works - Landscape Character Assessment Tables
- Appendix 3.4.B: Bryncir Works - Visual Amenity Assessment Tables
- Appendix 3.4.C: Bryncir Outline Landscape and Ecological Management Plan (LEMP)
- Appendix 3.5.A: Bryncir Substation Ecological Appraisal Report
- Appendix 3.5.B: Bryncir SPEN 132 kV Connection Preliminary Ecological Appraisal Report
- Appendix 3.5.C: Bryncir Habitats
- Appendix 3.5.D: Bryncir Hedgerows
- Appendix 3.5.E: Bryncir Aquatic Survey Report
- Appendix 3.5.F: Bryncir Bat Survey Report
- Appendix 3.5.G: Bryncir Riparian Mammals - CONFIDENTIAL
- Appendix 3.5.H: Bryncir Statutory Designated Sites Citations
- Appendix 3.5.I: Bryncir Arboricultural Impact Assessment
- Appendix 3.5.J: Net Benefit for Biodiversity and Green Infrastructure Statement
- Appendix 3.6.A: Historic Environment Desk Based Assessment for the Bryncir Works
- Appendix 3.6.B: Gazetteer of Historic Assets
- Appendix 3.7.A: Bryncir: Initial Conceptual Site Model and Risk Assessment
- Appendix 3.8.A: Flood Consequence Assessment
- Appendix 3.9.A: Traffic Flow Diagrams
- Appendix 3.9.B: Traffic Base Counts
- Appendix 3.11.A: Bryncir and Glaslyn Noise Baseline Monitoring
- Appendix 3.11.B: Operational Noise Assessment
- Appendix 3.13.A: Bryncir Works Climate Change Risk Assessment

Environmental Statement Appendices – Volume 8 Part 4A– Volume 4 Appendices

- Appendix 4.2.A: Outline Construction Environmental Management Plan
- Appendix 4.3.A: Options Appraisal Report

- Appendix 4.3.B: A487 Highway Crossing Options Appraisal
- Appendix 4.3.C: Minffordd CSEC Options Appraisal
- Appendix 4.4.A: Glaslyn Cables Works – Landscape Assessment Tables
- Appendix 4.4.B: Visual Assessment Tables
- Appendix 4.4.C: Glaslyn Cables Outline Landscape and Ecological Management Plan
- Appendix 4.5.A: Habitats Survey
- Appendix 4.5.B: Hedgerow Report
- Appendix 4.5.C: Aquatic Ecology Report
- Appendix 4.5.D: Breeding Bird Survey Report - CONFIDENTIAL
- Appendix 4.5.E: Wintering Bird Survey Report - CONFIDENTIAL
- Appendix 4.5.F: Bat Survey Report
- Appendix 4.5.G: Badger Survey Report- CONFIDENTIAL
- Appendix 4.5.H: Riparian Mammals Survey Report CONFIDENTIAL
- Appendix 4.5.I: Great Crested Newt Report
- Appendix 4.5.J: Glaslyn Statutory Designated Sites Citations
- Appendix 4.5.K: Glaslyn Cables Arboriculture Impact Assessment
- Appendix 4.5.L: Net Benefit for Biodiversity Assessment and Green Infrastructure Statement

Environmental Statement Appendices – Volume 8 Part 4B – Volume 4 Appendices

- Appendix 4.6.A: Historic Environment Desk Based Assessment
- Appendix 4.6.B: Gazetteer of Historic Assets
- Appendix 4.7.A: Glaslyn Cables Initial Conceptual Site Model and Risk Assessment
- Appendix 4.8.A: Glaslyn Abstractions and Discharges
- Appendix 4.8.B: Water Framework Directive Assessment
- Appendix 4.8.C: Flood Consequence Assessment
- Appendix 4.9.A: Traffic Flow Diagrams
- Appendix 4.9.B: Traffic Base Counts
- Appendix 4.11.A: Glaslyn Construction Noise and Vibration Calculations and Results
- Appendix 4.12.A: Socio-Economic Land Use Receptors
- Appendix 4.13.A: Glaslyn Works Climate Change Risk Assessment

Environmental Statement Appendices – Volume 8 Part 5 – Volume 5 Appendices

- Appendix 5.2.A: Outline Construction Environmental Management Plan
- Appendix 5.5.A: Trawsfynydd Aquatic Survey Report
- Appendix 5.5.B: Trawsfynydd Statutory Designated Sites Citations
- Appendix 5.5.C: Trawsfynydd Arboriculture Impact Assessment
- Appendix 5.5.D: Net Benefit for Biodiversity and Green Infrastructure Statement

- Appendix 5.6.A: Historic Environment Desk Based Assessment for the Trawsfynydd Works
- Appendix 5.6.B: Gazetteer of Historic Assets and Archaeological Investigations (Trawsfynydd Substation)
- Appendix 5.7.A: Trawsfynydd: Initial Conceptual Site Model and Risk Assessment
- Appendix 5.9.A: Trawsfynydd Traffic Flow Diagrams
- Appendix 5.9.B: Trawsfynydd Traffic Base Counts
- Appendix 5.11.A: Operational Noise Assessment
- Appendix 5.13.A: Trawsfynydd Works Climate Change Risk Assessment

Environmental Statement Appendices – Volume 8 Part 6A– Volume 6 Appendices

- Appendix 6.5.A: Wider Works Habitat Survey Report

Environmental Statement Appendices – Volume 8 Part 6B– Volume 6 Appendices

- Appendix 6.5.B: Aquatic Survey Report
- Appendix 6.5.C: Wider Works Bat Survey Report
- Appendix 6.5.D: Badger Survey Report - CONFIDENTIAL
- Appendix 6.5.E: Riparian Mammals Survey Report – CONFIDENTIAL

Environmental Statement Appendices – Volume 8 Part 6C – Volume 6 Appendices

- Appendix 6.5.F: Wider Works Great Crested Newt Ecology Report
- Appendix 6.5.G: Wider Works Statutory and Non-Statutory Designated Sites Citations
- Appendix 6.5.H: Wider Works High Level Arboricultural Impact Assessment

Environmental Statement Appendices – Volume 8 Part 6D – Volume 6 Appendices, i

- Appendix 6.5.I: Historic Environment Desk Based Assessment (part)

Environmental Statement Appendices – Volume 8 Part 6D – Volume 6 Appendices, ii

- Appendix 6.5.I: Historic Environment Desk Based Assessment (part)

Environmental Statement Appendices – Volume 8 Part 6D – Volume 6 Appendices, iii

- Appendix 6.5.I: Historic Environment Desk Based Assessment (part)

Environmental Statement Appendices – Volume 8 Part 6E – Volume 6 Appendices

- Appendix 6.5.J: Gazetteer of Historic Assets
- Appendix 6.5.K: Wider Works Climate Change Risk Assessment
- Appendix 6.5.L: Wider Works Socio-Economic Land Use Receptors
- Appendix 6.5.M: Wider Works Water Framework Directive (WFD) assessment

Environmental Statement Appendices – Volume 8 Part 7 - Volume 7 Appendices

- Appendix 7.1.A: Electric and Magnetic Field Assessment Compliance Report
- Appendix 7.1.B: Report to Inform Habitats Regulation Assessment
- Appendix 7.4.A: Screening for in-combination Effects
- Appendix 7.4.B: Cumulative Effects Assessment