EAST PARK ENERGY

East Park Energy

EN010141

Environmental Statement

Table of Contents, Glossary, and Acronyms

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EAST PARK ENERGY

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Environmental Statement

Table of Contents, Glossary, and Acronyms

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Volume 1 Table of Contents

1.0 INTRODUCTION 1-2
1.1 Background 1-2
1.2 The Scheme 1-3
1.3 Site Description 1-4
1.4 Structure of the ES 1-9
1.5 Competent Experts 1-11
1.6 Legislative and Planning Policy Context 1-13
1.7 Consultation 1-18
1.8 Purpose of the ES 1-20
1.9 References 1-25

2.0 THE SCHEME 2-3
2.1 Introduction 2-3
2.2 The Order Limits 2-6
2.3 Rochdale Envelope and Design Parameters 2-7
2.4 Key Components of the Scheme 2-9
2.5 Construction Phase 2-70
2.6 Operational Phase 2-84
2.7 Decommissioning Phase 2-88
2.8 References 2-90

3.0 ALTERNATIVES AND DESIGN EVOLUTION 3-2
3.1 Introduction 3-2
3.2 Need for the Scheme 3-6
3.3 Alternative Sites 3-8
3.4 Alternative Cable Route Corridors 3-15
3.5 Scheme Evolution and Alternative Layouts 3-18
3.6 Alternative Technologies 3-24
3.7 References 3-27

4.0 ENVIRONMENTAL IMPACT ASSESSMENT METHODOLOGY 4-2
4.1 Introduction 4-2
4.2 Consultation 4-5
4.3 Approach to Assessment 4-6
4.4 Indirect Effects 4-18
4.5 Cumulative and In-Combination Effects 4-19
4.6 References 4-28

5.0 LANDSCAPE AND VISUAL 5-3
5.1 Introduction 5-3
5.2 Legislation, Policy and Guidance 5-6
5.3 Consultation and Engagement 5-16
5.4 Assessment Methodology 5-23
5.5 Assumptions and Limitations 5-32
5.6 Baseline Conditions 5-33
5.7 Embedded Mitigation and Enhancement Measures 5-57
5.8 Assessment of Likely Impacts and Effects 5-66
5.9 Additional Mitigation, Enhancement and Monitoring 5-110
5.10 Residual Effects 5-111
5.11 Cumulative Effects 5-112
5.12 Conclusions 5-117
5.13 References 5-122

6.0 CULTURAL HERITAGE AND ARCHAEOLOGY 6-5
6.1 Introduction 6-5
6.2 Legislation, Policy and Guidance 6-10
6.3 Consultation and Engagement 6-50
6.4 Assessment Methodology 6-101
6.5 Assumptions and Limitations 6-113
6.6 Baseline Conditions 6-115
6.7 Embedded Mitigation and Enhancement Measures 6-138
6.8 Assessment of Likely Impacts and Effects 6-147
6.9 Additional Mitigation and Monitoring 6-234

6.10 Residual Effects 6-236
6.11 Cumulative Effects 6-239
6.12 Conclusions 6-241
6.13 References 6-244

7.0 ECOLOGY AND NATURE CONSERVATION 7-3
7.1 Introduction 7-3
7.2 Legislation, Policy and Guidance 7-5
7.3 Consultation and Engagement 7-16
7.4 Assessment Methodology 7-48
7.5 Assumptions and Limitations 7-59
7.6 Baseline Conditions 7-60
7.7 Embedded Mitigation and Enhancement Measures 7-82
7.8 Assessment of Likely Impacts and Effects 7-96
7.9 Additional Mitigation and Monitoring 7-128
7.10 Residual Effects 7-130
7.11 Cumulative Effects 7-143
7.12 Conclusions 7-145
7.13 References 7-146

8.0 HYDROLOGY AND FLOOD RISK 8-3
8.1 Introduction 8-3
8.2 Legislation, Policy and Guidance 8-5
8.3 Consultation and Engagement 8-18
8.4 Assessment Methodology 8-40
8.5 Assumptions and Limitations 8-54
8.6 Baseline Conditions 8-55
8.7 Embedded Mitigation and Enhancement Measures 8-65
8.8 Assessment of Likely Impacts and Effects 8-70
8.9 Additional Mitigation and Monitoring 8-86
8.10 Residual Effects 8-88
8.11 Cumulative Effects 8-89
8.12 Conclusion 8-90

8.13 References 8-91

9.0 TRAFFIC AND TRANSPORT 9-3
9.1 Introduction 9-3
9.2 Legislation, Policy and Guidance 9-4
9.3 Consultation and Engagement 9-24
9.4 Assessment Methodology 9-38
9.5 Assumptions and Limitations 9-48
9.6 Baseline Conditions 9-49
9.7 Embedded Mitigation and Enhancement Measures 9-64
9.8 Assessment of Likely Impacts and Effects 9-70
9.9 Additional Mitigation and Monitoring 9-92
9.10 Residual Effects 9-94
9.11 Cumulative Effects 9-95
9.12 Conclusions 9-102
9.13 References 9-103

10.0 NOISE AND VIBRATION 10-3
10.1 Introduction 10-3
10.2 Legislation, Policy and Guidance 10-5
10.3 Consultation and Engagement 10-33
10.4 Assessment Methodology 10-42
10.5 Assumptions and Limitations 10-52
10.6 Baseline Conditions 10-55
10.7 Embedded Mitigation and Enhancement Measures 10-69
10.8 Assessment of Likely Impacts and Effects 10-77
10.9 Additional Mitigation, Enhancement and Monitoring 10-110
10.10 Residual Effects 10-111
10.11 Cumulative Effects 10-113
10.12 Conclusions 10-115
10.13 References 10-117

11.0 AIR QUALITY 11-3
11.1 Introduction 11-3
11.2 Legislation, Policy, and Guidance 11-5
11.3 Consultation and Engagement 11-20
11.4 Assessment Methodology 11-28
11.5 Assumptions and Limitations 11-39
11.6 Baseline Conditions 11-40
11.7 Embedded Mitigation and Enhancement Measures 11-48
11.8 Assessment of Likely Impacts and Effects 11-53
11.9 Additional Mitigation, Enhancement and Monitoring 11-69
11.10 Residual Effects 11-71
11.11 Cumulative Effects 11-73
11.12 Conclusions 11-75
11.13 References 11-76

12.0 GROUND CONDITIONS 12-3
12.1 Introduction 12-3
12.2 Legislation, Policy and Guidance 12-5
12.3 Consultation and Engagement 12-14
12.4 Assessment Methodology 12-22
12.5 Assumptions and Limitations 12-30
12.6 Baseline Conditions 12-31
12.7 Embedded Mitigation and Enhancement Measures 12-48
12.8 Assessment of Likely Impacts and Effects 12-55
12.9 Additional Mitigation, Enhancement and Monitoring 12-69
12.10 Residual Effects 12-71
12.11 Cumulative Effects 12-80
12.12 Conclusions 12-81
12.13 References 12-83

13.0 LAND AND SOILS 13-3
13.1 Introduction 13-3
13.2 Legislation, Policy and Guidance 13-5

13.3 Consultation and Engagement 13-15
13.4 Assessment Methodology 13-22
13.5 Assumptions and Limitations 13-28
13.6 Baseline Conditions 13-30
13.7 Embedded Mitigation and Enhancement Measures 13-43
13.8 Assessment of Likely Impacts and Effects 13-49
13.9 Additional Mitigation, Enhancement and Monitoring 13-59
13.10 Residual Effects 13-60
13.11 Cumulative Effects 13-63
13.12 Conclusions 13-64
13.13 References 13-66

14.0 SOCIO-ECONOMICS, DEVELOPMENT LAND AND TOURISM 14-3
14.1 Introduction 14-3
14.2 Legislation, Policy, and Guidance 14-5
14.3 Consultation and Engagement 14-14
14.4 Assessment Methodology 14-19
14.5 Assumptions and Limitations 14-30
14.6 Baseline Conditions 14-31
14.7 Embedded Mitigation and Enhancement Measures 14-50
14.8 Assessment of Likely Impacts and Effects 14-52
14.9 Additional Mitigation, Enhancement and Monitoring 14-73
14.10 Residual Effects 14-74
14.11 Cumulative Effects 14-77
14.12 Conclusion 14-79
14.13 References 14-80

15.0 CLIMATE CHANGE 15-3
15.1 Introduction 15-3
15.2 Legislation, Policy, and Guidance 15-5
15.3 Consultation and Engagement 15-16
15.4 Assessment Methodology 15-27
15.5 Assumptions and Limitations 15-41

15.6 Baseline Conditions 15-45
15.7 Embedded Mitigation and Enhancement Measures 15-50
15.8 Assessment of Likely Impacts and Effects 15-54
15.9 Additional Mitigation and Monitoring 15-70
15.10 Residual Effects 15-71
15.11 Cumulative Effects 15-72
15.12 Conclusions 15-74
15.13 References 15-75

16.0 OTHER ENVIRONMENTAL TOPICS 16-2
16.1 Introduction 16-2
16.2 Human Health 16-3
16.3 Waste 16-36
16.4 Major Accidents and Disasters 16-51
16.5 Electromagnetic Fields 16-58
16.6 References 16-62

17.0 CUMULATIVE AND IN-COMBINATION EFFECTS 17-2
17.1 Introduction 17-2
17.2 Legislation, Policy and Guidance 17-4
17.3 Consultation and Engagement 17-8
17.4 Cumulative (Inter Project) Effects Assessment 17-13
17.5 Cumulative In Combination Effects Assessment 17-107
17.6 References 17-115

18.0 SUMMARY OF EFFECTS 18-2
18.1 Introduction 18-2
18.2 Summary of Likely Significant Effects 18-3

Volume 2 Table of Contents:

Appendix 2-1 Indicative Construction Phasing and Resource Schedule

Appendix 2-2 Arboricultural Impact Assessment

Appendix 2-3 Site Preparation Works

Appendix 3-1 Site Identification Report

Appendix 3-2 Land Identification Report

Appendix 3-3 Land Identification Report: Addendum

Appendix 3-4 Land Identification Report: Further Addendum

Appendix 3-5 Review of Site Identification Report following designation of National Policy Statement EN-3

Appendix 3-6 Grid Connection Corridor Appraisal

Appendix 4-1 EIA Scoping Report

Appendix 4-2 EIA Scoping Opinion

Appendix 4-3 EIA Scoping Opinion Response Matrix

Appendix 4-4 Long List of 'Other Development'

Appendix 4-5 Short List of 'Other Development'

Appendix 5-1 Landscape and Visual Impact Assessment Methodology

Appendix 5-2 ZTV and Visualisation Methodology

Appendix 5-3 Effects on Landscape Character

Appendix 5-4 Effects at Viewpoints

Appendix 5-5 Effects on Visual Receptors

Appendix 5-6 Glint and Glare Assessment

Appendix 5-7	Residential Visual Amenity Assessment
Appendix 6-1	Gazetteer of Heritage Assets and Events
Appendix 6-2	Desk-Based Assessment
Appendix 6-3	Photographic Record
Appendix 6-4	Settings Impact Assessment
Appendix 6-5	Archaeological Geophysical Survey Report
Appendix 6-6	Site A Trial Trench Evaluation Interim Report
Appendix 6-7	Site B Trial Trench Evaluation Interim Report
Appendix 6-8	Site C Trial Trench Evaluation Final Report
Appendix 6-9	Site D Trial Trench Evaluation Interim Report
Appendix 7-1	Ecological Baseline Report
Appendix 7-2	Breeding Bird Survey Report
Appendix 7-3	Wintering Bird survey Report
Appendix 7-4	Badger Survey Report (Confidential - not publicly available)
Appendix 7-5	Great Crested Newt Survey Report
Appendix 7-6	Otter and Water Vole Survey Report
Appendix 7-7	Bat Survey Report
Appendix 8-1	Flood Risk Assessment
Appendix 8-2	Water Framework Directive Assessment
Appendix 8-3	Watercourse Crossing Assessment
Appendix 9-1	Transport Assessment

Appendix 9-2 Traffic Flow Diagrams

Appendix 10-1 Noise and Vibration Terminology

Appendix 10-2 Baseline Noise Survey

Appendix 10-3 Construction Plant Data

Appendix 10-4 Noise Contour Mapping – Operational Phase

Appendix 10-5 Low Frequency Noise Analysis and Sample Plant Frequency Spectra

Appendix 11-1 Air Quality Assessment Methodology

Appendix 11-2 Baseline Air Quality Data

Appendix 11-3 Construction Dust Assessment

Appendix 11-4 Additional $PM_{2.5}$ Assessment

Appendix 12-1 Stage 1 Geo-Environmental Assessment

Appendix 13-1 Agricultural Land Classification and Soil Resources Survey

Appendix 15-1 Greenhouse Gas Emissions Assessment

Appendix 15-2 Climate Baseline

Appendix 15-3 Climate Resilience Assessment

Appendix 15-4 In Combination Climate Change Impacts Assessment

Volume 3 Figures:

Figure 1-1	Site Location Plan
Figure 1-2	Site References
Figure 1-3	Environmental Constraints
Figure 2-1a	Illustrative Environmental Masterplan Key Plan (Sheet 0 of 14)
Figure 2-1b	Illustrative Environmental Masterplan (Sheet 1 of 14)
Figure 2-1c	Illustrative Environmental Masterplan (Sheet 2 of 14)
Figure 2-1d	Illustrative Environmental Masterplan (Sheet 3 of 14)
Figure 2-1e	Illustrative Environmental Masterplan (Sheet 4 of 14)
Figure 2-1f	Illustrative Environmental Masterplan (Sheet 5 of 14)
Figure 2-1g	Illustrative Environmental Masterplan (Sheet 6 of 14)
Figure 2-1h	Illustrative Environmental Masterplan (Sheet 7 of 14)
Figure 2-1i	Illustrative Environmental Masterplan (Sheet 8 of 14)
Figure 2-1j	Illustrative Environmental Masterplan (Sheet 9 of 14)
Figure 2-1k	Illustrative Environmental Masterplan (Sheet 10 of 14)
Figure 2-1l	Illustrative Environmental Masterplan (Sheet 11 of 14)
Figure 2-1m	Illustrative Environmental Masterplan (Sheet 12 of 14)
Figure 2-1n	Illustrative Environmental Masterplan (Sheet 13 of 14)
Figure 2-1o	Illustrative Environmental Masterplan (Sheet 14 of 14)
Figure 2-2a	Indicative Solar PV Table, Mounting Structure and String Inverters
Figure 2-2b	Indicative Centralised Inverter or Solar Transformer

Figure 2-2c Indicative Battery Storage Unit or Battery Transformer

Figure 2-2d Indicative Auxiliary Transformer

Figure 2-2e Indicative BESS Control Building

Figure 2-2f Indicative Water Storage Tank

Figure 2-2g Indicative Steel Palisade Fencing

Figure 2-2h Indicative Access Tracks

Figure 2-2i Indicative East Park Substation Control Building

Figure 2-2j Indicative Substation Electrical Equipment

Figure 2-2k Indicative 400kV Cable Trench and Jointing Chamber

Figure 2-2l Indicative 33kV Cable Trench

Figure 2-2m Indicative Low Voltage Cable Trench

Figure 2-2n Indicative Fencing and Gates

Figure 2-2o Indicative Open Span Crossing

Figure 2-2p Indicative Culvert

Figure 2-2q Indicative CCTV and Monitoring Systems

Figure 2-2r Indicative Trench Crossing of Field Ditch

Figure 2-2s Indicative Horizontal Drilling

Figure 2-2t Indicative Horizontal Directional Drill

Figure 2-2u Indicative Storage, Operations and Maintenance Building

Figure 2-2v Indicative Bailey Bridge Crossing

Figure 2-3a Indicative Crossing Plans (Sheet 0 of 5)

Figure 2-3b Indicative Crossing Plans (Sheet 1 of 5)

Figure 2-3c Indicative Crossing Plans (Sheet 2 of 5)

Figure 2-3d Indicative Crossing Plans (Sheet 3 of 5)

Figure 2-3e Indicative Crossing Plans (Sheet 4 of 5)

Figure 2-3f Indicative Crossing Plans (Sheet 5 of 5)

Figure 2-4a Proposed Site Access – Key Plan (Sheet 0 of 5)

Figure 2-4b Proposed Site Access (Sheet 1 of 5)

Figure 2-4c Proposed Site Access (Sheet 2 of 5)

Figure 2-4d Proposed Site Access (Sheet 3 of 5)

Figure 2-4e Proposed Site Access (Sheet 4 of 5)

Figure 2-4f Proposed Site Access (Sheet 5 of 5)

Figure 2-5a Indicative Construction Access and Compounds – Key Plan (Sheet 0 of 5)

Figure 2-5b Indicative Construction Access and Compounds (Sheet 1 of 5)

Figure 2-5c Indicative Construction Access and Compounds (Sheet 2 of 5)

Figure 2-5d Indicative Construction Access and Compounds (Sheet 3a of 5)

Figure 2-5e Indicative Construction Access and Compounds (Sheet 4 of 5)

Figure 2-5f Indicative Construction Access and Compounds (Sheet 5 of 5)

Figure 2-6a Indicative Vegetation Clearance – Key Plan (Sheet 0 of 5)

Figure 2-6b Indicative Vegetation Clearance (Sheet 1 of 5)

Figure 2-6c Indicative Vegetation Clearance (Sheet 2 of 5)

Figure 2-6d Indicative Vegetation Clearance (Sheet 3 of 5)

Figure 2-6e	Indicative Vegetation Clearance (Sheet 4 of 5)
Figure 2-6f	Indicative Vegetation Clearance (Sheet 5 of 5)
Figure 3-1	EIA Scoping Indicative Zoning Plan
Figure 3-2	PEIR Indicative Zoning Plan (Scheme Evolution from EIA Scoping)
Figure 3-3	Illustrative Zoning Plan – Scheme Evolution from PEIR
Figure 4-1	Long List of Other Development
Figure 4-2	Short List of Other Development
Figure 5-1	Topography
Figure 5-2a	National Character Areas
Figure 5-2b	Local Landscape Character Areas
Figure 5-3a	5km Zone of Theoretical Visibility (Solar Array and Transformers)
Figure 5-3b	3km Zone of Theoretical Visibility (Solar Array and Transformers)
Figure 5-3c	Zone of Theoretical Visibility (percentage of solar panels and transformers visible)
Figure 5-3d	Zone of Theoretical Visibility (BESS and Substation Option 1)
Figure 5-3e	Zone of Theoretical Visibility (BESS and Substation Option 2)
Figure 5-4a	Visual Receptors – Representative Viewpoints & Rights of Way
Figure 5-4b	Visual Receptors – Residential, Community, Roads and Commercial Receptors
Figure 5-5	Viewpoint 1 (Existing Winter View)
Figure 5-6	Viewpoint 2 (Existing Winter View)

Figure 5-7a Viewpoint 3 (Existing Winter View)

Figure 5-7b Viewpoint 3 (Proposed Y0 Winter View)

Figure 5-7c Viewpoint 3 (Proposed Y10 Winter View)

Figure 5-7d Viewpoint 3 (Existing Summer View)

Figure 5-8a Viewpoint 4 (Existing Winter View)

Figure 5-8b Viewpoint 4 (Existing Winter View)

Figure 5-9 Viewpoint 5 (Existing Winter View)

Figure 5-10a Viewpoint 6 (Existing Winter View)

Figure 5-10b Viewpoint 6 (Existing Winter View)

Figure 5-10c Viewpoint 6 (Existing Summer View)

Figure 5-10d Viewpoint 6 (Existing Summer View)

Figure 5-11a Viewpoint 7 (Existing Winter View)

Figure 5-11b Viewpoint 7 (Existing Winter View)

Figure 5-11c Viewpoint 7 (Proposed Year 0 Winter View)

Figure 5-11d Viewpoint 7 (Proposed Year 0 Winter View)

Figure 5-11e Viewpoint 7 (Proposed Year 10 Winter View)

Figure 5-11f Viewpoint 7 (Proposed Year 10 Winter View)

Figure 5-11g Viewpoint 7 (Existing Summer View)

Figure 5-11h Viewpoint 7 (Existing Summer View)

Figure 5-11i Viewpoint 7 (Proposed Year 0 Summer View)

Figure 5-11j Viewpoint 7 (Proposed Year 0 Summer View)

Figure 5-11k Viewpoint 7 (Proposed Year 10 Summer View)

Figure 5-11l Viewpoint 7 (Proposed Year 10 Summer View)

Figure 5-12a Viewpoint 8 (Existing Winter View)

Figure 5-12b Viewpoint 8 (Existing Winter View)

Figure 5-12c Viewpoint 8 (Existing Winter View)

Figure 5-12d Viewpoint 8 (Existing Summer View)

Figure 5-12e Viewpoint 8 (Existing Summer View)

Figure 5-12f Viewpoint 8 (Existing Summer View)

Figure 5-13a Viewpoint 9 (Existing Winter View)

Figure 5-13b Viewpoint 9 (Existing Winter View)

Figure 5-13c Viewpoint 9 (Existing Summer View)

Figure 5-13d Viewpoint 9 (Existing Summer View)

Figure 5-14 Viewpoint 10 (Existing Winter View)

Figure 5-15 Viewpoint 11 (Existing Winter)

Figure 5-16a Viewpoint 12 (Existing Winter View)

Figure 5-16b Viewpoint 12 (Existing Winter View)

Figure 5-16c Viewpoint 12 (Existing Winter View)

Figure 5-16d Viewpoint 12 (Proposed Year 0 Winter View)

Figure 5-16e Viewpoint 12 (Proposed Year 0 Winter View)

Figure 5-16f Viewpoint 12 (Proposed Year 0 Winter View)

Figure 5-16g Viewpoint 12 (Proposed Year 10 Winter View)

Figure 5-16h Viewpoint 12 (Proposed Year 10 Winter View)

Figure 5-16i Viewpoint 12 (Proposed Year 10 Winter View)

Figure 5-16j Viewpoint 12 (Existing Summer View)

Figure 5-16k Viewpoint 12 (Existing Summer View)

Figure 5-16l Viewpoint 12 (Existing Summer View)

Figure 5-16m Viewpoint 12 (Proposed Year 0 Summer View)

Figure 5-16n Viewpoint 12 (Proposed Year 0 Summer View)

Figure 5-16o Viewpoint 12 (Proposed Year 0 Summer View)

Figure 5-16p Viewpoint 12 (Proposed Year 10 Summer View)

Figure 5-16q Viewpoint 12 (Proposed Year 10 Summer View)

Figure 5-16r Viewpoint 12 (Proposed Year 10 Summer View)

Figure 5-17a Viewpoint 13 (Existing Winter View)

Figure 5-17b Viewpoint 13 (Existing Winter View)

Figure 5-17c Viewpoint 13 (Existing Winter View)

Figure 5-17d Viewpoint 13 (Existing Winter View)

Figure 5-17e Viewpoint 13 (Existing Summer View)

Figure 5-17f Viewpoint 13 (Existing Summer View)

Figure 5-17g Viewpoint 13 (Existing Summer View)

Figure 5-17h Viewpoint 13 (Existing Summer View)

Figure 5-18a Viewpoint 14 (Existing Winter View)

Figure 5-18b Viewpoint 14 (Existing Winter View)

Figure 5-18c Viewpoint 14 (Existing Winter View)

Figure 5-18d Viewpoint 14 (Existing Winter View)

Figure 5-18e Viewpoint 14 (Existing Summer View)

Figure 5-18f Viewpoint 14 (Existing Summer View)

Figure 5-18g Viewpoint 14 (Existing Summer View)

Figure 5-18h Viewpoint 14 (Existing Summer View)

Figure 5-19a Viewpoint 15 (Existing Winter View)

Figure 5-19b Viewpoint 15 (Existing Winter View)

Figure 5-19c Viewpoint 15 (Existing Winter View)

Figure 5-19d Viewpoint 15 (Existing Winter View)

Figure 5-19e Viewpoint 15 (Existing Summer View)

Figure 5-19f Viewpoint 15 (Existing Summer View)

Figure 5-19g Viewpoint 15 (Existing Summer View)

Figure 5-19h Viewpoint 15 (Existing Summer View)

Figure 5-20a Viewpoint 16 (Existing Winter View)

Figure 5-20b Viewpoint 16 (Existing Winter View)

Figure 5-20c Viewpoint 16 (Existing Winter View)

Figure 5-20d Viewpoint 16 (Proposed Year 0 Winter View)

Figure 5-20e Viewpoint 16 (Proposed Year 0 Winter View)

Figure 5-20f Viewpoint 16 (Proposed Year 10 Winter View)

Figure 5-20g Viewpoint 16 (Proposed Year 10 Winter View)

Figure 5-20h Viewpoint 16 (Existing Summer View)

Figure 5-20i Viewpoint 16 (Existing Summer View)

Figure 5-20j Viewpoint 16 (Existing Summer View)

Figure 5-20k Viewpoint 16 (Proposed Year 0 Summer View)

Figure 5-20l Viewpoint 16 (Proposed Year 0 Summer View)

Figure 5-20m Viewpoint 16 (Proposed Year 10 Summer View)

Figure 5-20n Viewpoint 16 (Proposed Year 10 Summer View)

Figure 5-21a Viewpoint 17 (Existing Winter View)

Figure 5-21b Viewpoint 17 (Existing Winter View)

Figure 5-21a Viewpoint 17 (Existing Summer View)

Figure 5-21b Viewpoint 17 (Existing Summer View)

Figure 5-22a Viewpoint 18 (Existing Winter View)

Figure 5-22b Viewpoint 18 (Existing Winter View)

Figure 5-22c Viewpoint 18 (Existing Summer View)

Figure 5-22d Viewpoint 18 (Existing Summer View)

Figure 5-23a Viewpoint 19 (Existing Winter View)

Figure 5-23b Viewpoint 19 (Existing Winter View)

Figure 5-23c Viewpoint 19 (Existing Summer View)

Figure 5-23d Viewpoint 19 (Existing Summer View)

Figure 5-24a Viewpoint 20 (Existing Winter View)

Figure 5-24b Viewpoint 20 (Existing Winter View)

Figure 5-24c Viewpoint 20 (Existing Summer View)

Figure 5-24d Viewpoint 20 (Existing Summer View)

Figure 5-25a Viewpoint 21 (Existing Winter View)

Figure 5-25b Viewpoint 21 (Existing Winter View)

Figure 5-25c Viewpoint 21 (Proposed Y0 Winter View)

Figure 5-25d Viewpoint 21 (Proposed Y0 Winter View)

Figure 5-25e Viewpoint 21 (Proposed Y10 Winter View)

Figure 5-25f Viewpoint 21 (Proposed Y10 Winter View)

Figure 5-25g Viewpoint 21 (Existing Summer View)

Figure 5-25h Viewpoint 21 (Existing Summer View)

Figure 5-26a Viewpoint 22 (Existing Winter View)

Figure 5-26b Viewpoint 22 (Existing Winter View)

Figure 5-27a Viewpoint 23 (Existing Winter View)

Figure 5-27b Viewpoint 23 (Existing Winter View)

Figure 5-27c Viewpoint 23 (Existing Winter View)

Figure 5-27d Viewpoint 23 (Proposed Y0 Winter View)

Figure 5-27e Viewpoint 23 (Proposed Y0 Winter View)

Figure 5-27f Viewpoint 23 (Proposed Y10 Winter View)

Figure 5-27g Viewpoint 23 (Proposed Y10 Winter View)

Figure 5-27h Viewpoint 23 (Existing Summer View)

Figure 5-27i Viewpoint 23 (Existing Summer View)

Figure 5-27j Viewpoint 23 (Existing Summer View)

Figure 5-28a Viewpoint 24 (Existing Winter View)

Figure 5-28b Viewpoint 24 (Existing Winter View)

Figure 5-28c Viewpoint 24 (Existing Winter View)

Figure 5-28d Viewpoint 24 (Existing Summer View)

Figure 5-28e Viewpoint 24 (Existing Summer View)

Figure 5-28f Viewpoint 24 (Existing Summer View)

Figure 5-29a Viewpoint 25 (Existing Winter View)

Figure 5-29b Viewpoint 25 (Existing Winter View)

Figure 5-29c Viewpoint 25 (Existing Winter View)

Figure 5-29d Viewpoint 25 (Existing Summer View)

Figure 5-29e Viewpoint 25 (Existing Summer View)

Figure 5-29f Viewpoint 25 (Existing Summer View)

Figure 5-30a Viewpoint 26 (Existing Winter View)

Figure 5-30b Viewpoint 26 (Existing Winter View)

Figure 5-30c Viewpoint 26 (Existing Winter View)

Figure 5-30d Viewpoint 26 (Existing Summer View)

Figure 5-30e Viewpoint 26 (Existing Summer View)

Figure 5-30f Viewpoint 26 (Existing Summer View)

Figure 5-31a Viewpoint 27 (Existing Winter View)

Figure 5-31b Viewpoint 27 (Existing Winter View)

Figure 5-31c Viewpoint 27 (Existing Winter View)

Figure 5-31d Viewpoint 27 (Existing Winter View)

Figure 5-31e Viewpoint 27 (Existing Summer View)

Figure 5-31f Viewpoint 27 (Existing Summer View)

Figure 5-31g Viewpoint 27 (Existing Summer View)

Figure 5-31h Viewpoint 27 (Existing Summer View)

Figure 5-32 Viewpoint 28 (Existing Winter View)

Figure 5-33 Viewpoint 29 (Existing Winter View)

Figure 5-34 Viewpoint 30 (Existing Winter View)

Figure 5-35 Viewpoint 31 (Existing Winter View)

Figure 5-36a Viewpoint 32 (Existing Winter View)

Figure 5-36b Viewpoint 32 (Existing Winter View)

Figure 5-36c Viewpoint 32 (Existing Winter View)

Figure 5-36d Viewpoint 32 (Proposed Year 0 Winter View)

Figure 5-36e Viewpoint 32 (Proposed Year 0 Winter View)

Figure 5-36f Viewpoint 32 (Proposed Year 0 Winter View)

Figure 5-36g Viewpoint 32 (Proposed Year 10 Winter View)

Figure 5-36h Viewpoint 32 (Proposed Year 10 Winter View)

Figure 5-36i Viewpoint 32 (Proposed Year 10 Winter View)

Figure 5-36j Viewpoint 32 (Existing Summer View)

Figure 5-36k Viewpoint 32 (Existing Summer View)

Figure 5-36l Viewpoint 32 (Existing Summer View)

Figure 5-36m Viewpoint 32 (Proposed Year 0 Summer View)

Figure 5-36n Viewpoint 32 (Proposed Year 0 Summer View)

Figure 5-36o Viewpoint 32 (Proposed Year 0 Summer View)

Figure 5-36p Viewpoint 32 (Proposed Year 10 Summer View)

Figure 5-36q Viewpoint 32 (Proposed Year 10 Summer View)

Figure 5-36r Viewpoint 32 (Proposed Year 10 Summer View)

Figure 5-37a Viewpoint 33 (Existing Winter View)

Figure 5-37b Viewpoint 33 (Existing Winter View)

Figure 5-37c Viewpoint 33 (Existing Winter View)

Figure 5-37d Viewpoint 33 (Existing Winter View)

Figure 5-37e Viewpoint 33 (Proposed Year 0 Winter View)

Figure 5-37f Viewpoint 33 (Proposed Year 0 Winter View)

Figure 5-37g Viewpoint 33 (Proposed Year 0 Winter View)

Figure 5-37h Viewpoint 33 (Proposed Year 0 Winter View)

Figure 5-37i Viewpoint 33 (Proposed Year 10 Winter View)

Figure 5-37j Viewpoint 33 (Proposed Year 10 Winter View)

Figure 5-37k Viewpoint 33 (Proposed Year 10 Winter View)

Figure 5-37l Viewpoint 33 (Proposed Year 10 Winter View)

Figure 5-37m Viewpoint 33 (Existing Summer View)

Figure 5-37n Viewpoint 33 (Existing Summer View)

Figure 5-37o Viewpoint 33 (Existing Summer View)

Figure 5-37p Viewpoint 33 (Existing Summer View)

Figure 5-37q Viewpoint 33 (Proposed Year 0 Summer View)

Figure 5-37r Viewpoint 33 (Proposed Year 0 Summer View)

Figure 5-37s Viewpoint 33 (Proposed Year 0 Summer View)

Figure 5-37t Viewpoint 33 (Proposed Year 0 Summer View)

Figure 5-37u Viewpoint 33 (Proposed Year 10 Summer View)

Figure 5-37v Viewpoint 33 (Proposed Year 10 Summer View)

Figure 5-37w Viewpoint 33 (Proposed Year 10 Summer View)

Figure 5-37x Viewpoint 33 (Proposed Year 10 Summer View)

Figure 5-38a Viewpoint 34 (Existing Winter View)

Figure 5-38b Viewpoint 34 (Existing Winter View)

Figure 5-38C Viewpoint 34 (Existing Summer View)

Figure 5-38d Viewpoint 34 (Existing Summer View)

Figure 5-39a Viewpoint 35 (Existing Winter View)

Figure 5-39b Viewpoint 35 (Existing Winter View)

Figure 5-40a Viewpoint 36 (Existing Winter View)

Figure 5-40b Viewpoint 36 (Existing Winter View)

Figure 5-40c Viewpoint 36 (Proposed Year 0 Winter View)

Figure 5-40d Viewpoint 36 (Proposed Year 0 Winter View)

Figure 5-40e Viewpoint 36 (Proposed Year 10 Winter View)

Figure 5-40f Viewpoint 36 (Proposed Year 10 Winter View)

Figure 5-40g Viewpoint 36 (Existing Summer View)

Figure 5-40h Viewpoint 36 (Existing Summer View)

Figure 5-40i Viewpoint 36 (Proposed Year 0 Summer View)

Figure 5-40j Viewpoint 36 (Proposed Year 0 Summer View)

Figure 5-40k Viewpoint 36 (Proposed Year 10 Summer View)

Figure 5-40l Viewpoint 36 (Proposed Year 10 Summer View)

Figure 5-41a Viewpoint 37 (Existing Winter View)

Figure 5-41b Viewpoint 37 (Existing Winter View)

Figure 5-41c Viewpoint 37 (Existing Winter View)

Figure 5-41d Viewpoint 37 (Existing Winter View)

Figure 5-41e Viewpoint 37 (Existing Summer View)

Figure 5-41f Viewpoint 37 (Existing Summer View)

Figure 5-41g Viewpoint 37 (Existing Summer View)

Figure 5-41h Viewpoint 37 (Existing Summer View)

Figure 5-42a Viewpoint 38 (Existing Winter View)

Figure 5-42b Viewpoint 38 (Existing Winter View)

Figure 5-42c Viewpoint 38 (Existing Winter View)

Figure 5-42d Viewpoint 38 (Existing Summer View)

Figure 5-42e Viewpoint 38 (Existing Summer View)

Figure 5-42f Viewpoint 38 (Existing Summer View)

Figure 5-43a Viewpoint 39 (Existing Winter View)

Figure 5-43b Viewpoint 39 (Existing Winter View)

Figure 5-44a Viewpoint 40 (Existing Winter View)

Figure 5-44b Viewpoint 40 (Existing Winter View)

Figure 5-45a Viewpoint 41 (Existing Winter View)

Figure 5-45b Viewpoint 41 (Existing Winter View)

Figure 5-46a Viewpoint 42 (Existing Winter View)

Figure 5-46b Viewpoint 42 (Existing Winter View)

Figure 5-46c Viewpoint 42 (Existing Winter View)

Figure 5-46d Viewpoint 42 (Existing Winter View)

Figure 5-46e Viewpoint 42 (Proposed Y0 Winter View)

Figure 5-46f Viewpoint 42 (Proposed Y0 Winter View)

Figure 5-46g Viewpoint 42 (Proposed Y10 Winter View)

Figure 5-46h Viewpoint 42 (Proposed Y10 Winter View)

Figure 5-46i Viewpoint 42 (Existing Summer View)

Figure 5-46j Viewpoint 42 (Existing Summer View)

Figure 5-46k Viewpoint 42 (Existing Summer View)

Figure 5-46l Viewpoint 42 (Existing Summer View)

Figure 5-46m Viewpoint 42 (Proposed Y0 Summer View)

Figure 5-46n Viewpoint 42 (Proposed Y0 Summer View)

Figure 5-46o Viewpoint 42 (Proposed Y10 Summer View)

Figure 5-46p Viewpoint 42 (Proposed Y10 Summer View)

Figure 5-47a Viewpoint 43 (Existing Winter View)

Figure 5-47b Viewpoint 43 (Existing Winter View)

Figure 5-47c Viewpoint 43 (Existing Winter View)

Figure 5-47d Viewpoint 43 (Existing Winter View)

Figure 5-47e Viewpoint 43 (Existing Summer View)

Figure 5-47f Viewpoint 43 (Existing Summer View)

Figure 5-47g Viewpoint 43 (Existing Summer View)

Figure 5-47h Viewpoint 43 (Existing Summer View)

Figure 5-48a Viewpoint 44 (Existing Winter View)

Figure 5-48b Viewpoint 44 (Existing Winter View)

Figure 5-48c Viewpoint 44 (Existing Winter View)

Figure 5-49a Viewpoint 45 (Existing Winter View)

Figure 5-49b Viewpoint 45 (Existing Winter View)

Figure 5-50a Viewpoint 46 (Existing Winter View)

Figure 5-50b Viewpoint 46 (Existing Winter View)

Figure 5-50c Viewpoint 46 (Existing Winter View)

Figure 5-50d Viewpoint 46 (Existing Winter View)

Figure 5-50e Viewpoint 46 (Existing Summer View)

Figure 5-50f Viewpoint 46 (Existing Summer View)

Figure 5-50g Viewpoint 46 (Existing Summer View)

Figure 5-50h Viewpoint 46 (Existing Summer View)

Figure 5-51 Viewpoint 47 (Existing Winter View)

Figure 5-52a Viewpoint 48 (Existing Winter View)

Figure 5-52b Viewpoint 48 (Existing Winter View)

Figure 5-52c Viewpoint 48 (Existing Winter View)

Figure 5-52d Viewpoint 48 (Existing Summer View)

Figure 5-52e Viewpoint 48 (Existing Summer View)

Figure 5-52f Viewpoint 48 (Existing Summer View)

Figure 5-53a Viewpoint 49 (Existing Winter View)

Figure 5-53b Viewpoint 49 (Existing Winter View)

Figure 5-53c Viewpoint 49 (Existing Summer View)

Figure 5-53d Viewpoint 49 (Existing Summer View)

Figure 5-54a Viewpoint 50 (Existing Winter View)

Figure 5-54b Viewpoint 50 (Existing Winter View)

Figure 5-55a Viewpoint 51 (Existing Winter View)

Figure 5-55b Viewpoint 51 (Existing Winter View)

Figure 5-55c Viewpoint 51 (Proposed Year 0 Winter View)

Figure 5-55d Viewpoint 51 (Proposed Year 0 Winter View)

Figure 5-55e Viewpoint 51 (Proposed Year 10 Winter View)

Figure 5-55f Viewpoint 51 (Proposed Year 10 Winter View)

Figure 5-55g Viewpoint 51 (Existing Summer View)

Figure 5-55h Viewpoint 51 (Existing Summer View)

Figure 5-56a Viewpoint 52 (Existing Winter View)

Figure 5-56b Viewpoint 52 (Existing Winter View)

Figure 5-56c Viewpoint 52 (Existing Winter View)

Figure 5-56d Viewpoint 52 (Existing Summer View)

Figure 5-56e Viewpoint 52 (Existing Summer View)

Figure 5-56f Viewpoint 52 (Existing Summer View)

Figure 5-57a Viewpoint 53 (Existing Winter View)

Figure 5-57b Viewpoint 53 (Existing Winter View)

Figure 5-57c Viewpoint 53 (Existing Winter View)

Figure 5-58a Viewpoint 54 (Existing Winter View)

Figure 5-58b Viewpoint 54 (Existing Winter View)

Figure 5-58c Viewpoint 54 (Proposed Year 0 Winter View)

Figure 5-58d Viewpoint 54 (Proposed Year 10 Winter View)

Figure 5-58e Viewpoint 54 (Existing Summer View)

Figure 5-58f Viewpoint 54 (Existing Summer View)

Figure 5-59a Viewpoint 55 (Existing Winter View)

Figure 5-59b Viewpoint 55 (Existing Winter View)

Figure 5-60a Viewpoint 56 (Existing Winter View)

Figure 5-60b Viewpoint 56 (Existing Winter View)

Figure 5-60c Viewpoint 56 (Existing Winter View)

Figure 5-60d Viewpoint 56 (Existing Summer View)

Figure 5-60e Viewpoint 56 (Existing Summer View)

Figure 5-60f Viewpoint 56 (Existing Summer View)

Figure 5-61a Viewpoint 57 (Existing Winter View)

Figure 5-61b Viewpoint 57 (Existing Winter View)

Figure 5-61c Viewpoint 57 (Proposed Year 0 Winter View)

Figure 5-61d Viewpoint 57 (Proposed Year 0 Winter View)

Figure 5-61e Viewpoint 57 (Proposed Year 10 Winter View)

Figure 5-61f Viewpoint 57 (Proposed Year 10 Winter View)

Figure 5-61g Viewpoint 57 (Existing Summer View)

Figure 5-61h Viewpoint 57 (Existing Summer View)

Figure 5-61i Viewpoint 57 (Proposed Year 0 Summer View)

Figure 5-61j Viewpoint 57 (Proposed Year 0 Summer View)

Figure 5-61k Viewpoint 57 (Proposed Year 10 Summer View)

Figure 5-61l Viewpoint 57 (Proposed Year 10 Summer View)

Figure 5-62a Viewpoint 58 (Existing Winter View)

Figure 5-62b Viewpoint 58 (Existing Winter View)

Figure 5-62c Viewpoint 58 (Existing Winter View)

Figure 5-62d Viewpoint 58 (Existing Summer View)

Figure 5-62e Viewpoint 58 (Existing Summer View)

Figure 5-62f Viewpoint 58 (Existing Summer View)

Figure 5-63a Viewpoint 59 (Existing Winter View)

Figure 5-63b Viewpoint 59 (Existing Winter View)

Figure 5-63c Viewpoint 59 (Existing Summer View)

Figure 5-63d Viewpoint 59 (Existing Summer View)

Figure 5-64a Viewpoint 60 (Existing Winter View)

Figure 5-64b Viewpoint 60 (Existing Winter View)

Figure 5-64c Viewpoint 60 (Proposed Year 0 Winter View)

Figure 5-64d Viewpoint 60 (Proposed Year 0 Winter View)

Figure 5-64e Viewpoint 60 (Proposed Year 10 Winter View)

Figure 5-64f Viewpoint 60 (Proposed Year 10 Winter View)

Figure 5-64g Viewpoint 60 (Existing Summer View)

Figure 5-64h Viewpoint 60 (Existing Summer View)

Figure 5-64i Viewpoint 60 (Proposed Year 0 Summer View)

Figure 5-64j Viewpoint 60 (Proposed Year 0 Summer View)

Figure 5-64k Viewpoint 60 (Proposed Year 10 Summer View)

Figure 5-64l Viewpoint 60 (Proposed Year 10 Summer View)

Figure 5-65 Viewpoint 61 (Existing Winter View)

Figure 5-66a Viewpoint 62 (Existing Winter View)

Figure 5-66b Viewpoint 62 (Existing Winter View)

Figure 5-66c Viewpoint 62 (Proposed Year 0 Winter View)

Figure 5-66d Viewpoint 62 (Proposed Year 10 Winter View)

Figure 5-66e Viewpoint 62 (Existing Summer View)

Figure 5-66f Viewpoint 62 (Existing Summer View)

Figure 5-67a Viewpoint 63 (Existing Winter View)

Figure 5-67b Viewpoint 63 (Existing Winter View)

Figure 5-68a Viewpoint 64 (Existing Winter View)

Figure 5-68b Viewpoint 64 (Existing Winter View)

Figure 5-68c Viewpoint 64 (Existing Summer View)

Figure 5-68d Viewpoint 64 (Existing Summer View)

Figure 5-69a Viewpoint 65 (Existing Winter View)

Figure 5-69b Viewpoint 65 (Existing Winter View)

Figure 5-69c Viewpoint 65 (Existing Summer View)

Figure 5-69d Viewpoint 65 (Existing Summer View)

Figure 5-70a Viewpoint 66 (Existing Winter View)

Figure 5-70b Viewpoint 66 (Existing Winter View)

Figure 5-70c Viewpoint 66 (Existing Summer View)

Figure 5-70d Viewpoint 66 (Existing Summer View)

Figure 5-71a Viewpoint 67 (Existing Winter View)

Figure 5-71b Viewpoint 67 (Existing Winter View)

Figure 5-71c Viewpoint 67 (Existing Winter View)

Figure 5-71d Viewpoint 67 (Existing Summer View)

Figure 5-71e Viewpoint 67 (Existing Summer View)

Figure 5-71f Viewpoint 67 (Existing Summer View)

Figure 5-72a Viewpoint 68 (Existing Winter View)

Figure 5-72b Viewpoint 68 (Existing Winter View)

Figure 5-72c Viewpoint 68 (Existing Winter View)

Figure 5-72d Viewpoint 68 (Existing Winter View)

Figure 5-72e Viewpoint 68 (Proposed Year 0 Winter View)

Figure 5-72f Viewpoint 68 (Proposed Year 0 Winter View)

Figure 5-72g Viewpoint 68 (Proposed Year 0 Winter View)

Figure 5-72h Viewpoint 68 (Proposed Year 0 Winter View)

Figure 5-72i Viewpoint 68 (Proposed Year 10 Winter View)

Figure 5-72j Viewpoint 68 (Proposed Year 10 Winter View)

Figure 5-72k Viewpoint 68 (Proposed Year 10 Winter View)

Figure 5-72l Viewpoint 68 (Proposed Year 10 Winter View)

Figure 5-72m Viewpoint 68 (Existing Summer View)

Figure 5-72n Viewpoint 68 (Existing Summer View)

Figure 5-72o Viewpoint 68 (Existing Summer View)

Figure 5-72p Viewpoint 68 (Existing Summer View)

Figure 5-72q Viewpoint 68 (Proposed Year 0 Summer View)

Figure 5-72r Viewpoint 68 (Proposed Year 0 Summer View)

Figure 5-72s Viewpoint 68 (Proposed Year 0 Summer View)

Figure 5-72t Viewpoint 68 (Proposed Year 0 Summer View)

Figure 5-72u Viewpoint 68 (Proposed Year 10 Summer View)

Figure 5-72v Viewpoint 68 (Proposed Year 10 Summer View)

Figure 5-72w Viewpoint 68 (Proposed Year 10 Summer View)

Figure 5-72x Viewpoint 68 (Proposed Year 10 Summer View)

Figure 5-73a Viewpoint 69 (Existing Winter View)

Figure 5-73b Viewpoint 69 (Existing Winter View)

Figure 5-74a Viewpoint 70 (Existing Winter View)

Figure 5-74b Viewpoint 70 (Existing Winter View)

Figure 5-75a Viewpoint 71 (Existing Winter View)

Figure 5-75b Viewpoint 71 (Existing Winter View)

Figure 5-75c Viewpoint 71 (Existing Summer View)

Figure 5-75d Viewpoint 71 (Existing Summer View)

Figure 5-76a Viewpoint 72 (Existing Winter View)

Figure 5-76b Viewpoint 72 (Existing Winter View)

Figure 5-77a Viewpoint 73 (Existing Winter View)

Figure 5-77b Viewpoint 73 (Existing Winter View)

Figure 5-78a Viewpoint 74 (Existing Winter View)

Figure 5-78b Viewpoint 74 (Existing Summer View)

Figure 5-79 Viewpoint 75 (Existing Winter View)

Figure 5-80a Viewpoint 76 (Existing Winter View)

Figure 5-80b Viewpoint 76 (Existing Winter View)

Figure 5-80c Viewpoint 76 (Proposed Year 0 Winter View)

Figure 5-80d Viewpoint 76 (Proposed Year 0 Winter View)

Figure 5-80e Viewpoint 76 (Proposed Year 10 Winter View)

Figure 5-80f Viewpoint 76 (Proposed Year 10 Winter View)

Figure 5-80g Viewpoint 76 (Existing Summer View)

Figure 5-80h Viewpoint 76 (Existing Summer View)

Figure 5-80i Viewpoint 76 (Proposed Year 0 Summer View)

Figure 5-80j Viewpoint 76 (Proposed Year 0 Summer View)

Figure 5-80k Viewpoint 76 (Proposed Year 10 Summer View)

Figure 5-80l Viewpoint 76 (Proposed Year 10 Summer View)

Figure 5-81a Viewpoint 77 (Existing Winter View)

Figure 5-81b Viewpoint 77 (Existing Winter View)

Figure 5-81c Viewpoint 77 (Existing Winter View)

Figure 5-81d Viewpoint 77 (Existing Winter View)

Figure 5-81e Viewpoint 77 (Existing Summer View)

Figure 5-81f Viewpoint 77 (Existing Summer View)

Figure 5-81g Viewpoint 77 (Existing Summer View)

Figure 5-81h Viewpoint 77 (Existing Summer View)

Figure 5-82a Viewpoint 78 (Existing Winter View)

Figure 5-82b	Viewpoint 78 (Existing Winter View)
Figure 5-82c	Viewpoint 78 (Existing Summer View)
Figure 5-82d	Viewpoint 78 (Existing Summer View)
Figure 5-83	Viewpoint 79 (Existing Winter View)
Figure 5-84	Viewpoint 80 (Existing Winter View)
Figure 5-85	Viewpoint 81 (Existing Winter View)
Figure 5-86	Viewpoint 82 (Existing Winter View)
Figure 5-87a	Viewpoint 83 (Existing Summer View)
Figure 5-87b	Viewpoint 83 (Existing Summer View)
Figure 5-87c	Viewpoint 83 (Proposed Year 0 Summer View)
Figure 5-87d	Viewpoint 83 (Proposed Year 0 Summer View)
Figure 5-87e	Viewpoint 83 (Proposed Year 10 Summer View)
Figure 5-87f	Viewpoint 83 (Proposed Year 10 Summer View)
Figure 6-1	Non-Designated Assets within 1km of Site A
Figure 6-2	Non-Designated Assets within 1km of Site B
Figure 6-3	Non-Designated Assets within 1km of Sites C and D
Figure 6-4	Non-Designated Assets within 1km of the northern part of the Grid Connection
Figure 6-5	Non-Designated Assets within 1km of the southern part of the Grid Connection
Figure 6-6	Previous Schemes of Investigation (Events) within 1km of the Scheme Boundary

Figure 6-7 Designated Heritage Assets within 3km of the Scheme Boundary with the screened ZTVs

Figure 6-8 Designated and selected Non-Designated Heritage Assets to north of Sites A and B with the screened ZTVs

Figure 6-9 Designated and selected Non-Designated Heritage Assets to south-west of Sites A and B with the screened ZTVs

Figure 6-10 Designated and selected Non-Designated Heritage Assets to north of Sites B, C and D with the screened ZTVs

Figure 6-11 Designated and selected Non-Designated Heritage Assets to south of Sites B, C and D with the screened ZTVs

Figure 6-12 Designated and selected Non-Designated Heritage Assets within 3km of northern part of Grid Connection with the screened ZTVs

Figure 6-13 Designated and selected Non-Designated Heritage Assets within 3km of southern part of Grid Connection with the screened ZTVs

Figure 6-14 Extract from a map by Saxton, 1583

Figure 6-15 Extract from a map of Bedfordshire by Blaeu, 1662

Figure 6-16 Extract from a map of Huntingdonshire by Blaeu, 1662

Figure 6-17 Extract from a map of Bedford Hyett, 1815

Figure 6-18 Extract from a map of Wellingborough by Hyett, 1817

Figure 6-19 Extract from a map of the Parish of Keysoe, 1840

Figure 6-20 Site A overlain on extracts from OS maps dating 1883 to 1887

Figure 6-21 Site B overlain on extracts from OS maps dating 1883 to 1887

Figure 6-22 Site C overlain on extracts from OS maps dating 1883 to 1887

Figure 6-23 Site D overlain on extracts from OS maps dating 1883 to 1887

Figure 6-24 Northern part of Grid Connection overlain on extracts from OS maps dating 1883 to 1887

Figure 6-25 Southern part of Grid Connection overlain on extracts from OS maps dating 1883 to 1887

Figure 6-26 Site A overlain on extracts from OS maps dating 1958 to 1970

Figure 6-27 Site B overlain on extracts from OS maps dating 1958 to 1970

Figure 6-28 Site C overlain on extracts from OS maps dating 1958 to 1970

Figure 6-29 Site D overlain on extracts from OS maps dating 1958 to 1970

Figure 6-30 Northern part of Grid Connection overlain on extracts from OS maps dating 1958 to 1970

Figure 6-31 Southern part of Grid Connection overlain on extracts from OS maps dating 1958 to 1970

Figure 6-32 Sites A and B overlain on processed LiDAR imagery (Visualisation for Archaeological Topography)

Figure 6-33 Sites C and D overlain on processed LiDAR imagery (Visualisation for Archaeological Topography)

Figure 6-34 Grid Connection overlain on processed LiDAR imagery (Visualisation for Archaeological Topography)

Figure 6-35 Field IDs within Sites A and B

Figure 6-36 Field IDs within Sites C and D

Figure 7-1a Statutory Designated Sites – Nationally Designated Sites within 5km

Figure 7-1b Statutory Designated Sites - Internationally Designated Sites within 10km

Figure 7-1c	Statutory Designated Sites - Internationally Designated Sites for Bats within 30km
Figure 7-2	Non-statutory Designated Sites
Figure 7-3a	Habitat Survey – Legend (Sheet 1 of 4)
Figure 7-3b	Habitat Survey (Sheet 2 of 4)
Figure 7-3c	Habitat Survey (Sheet 3 of 4)
Figure 7-3d	Habitat Survey (Sheet 4 of 4)
Figure 7-4a	Breeding Bird Survey (Sheet 1 of 2)
Figure 7-4b	Breeding Bird Survey (Sheet 2 of 2)
Figure 7-5a	Wintering Bird Survey (Sheet 1 of 2)
Figure 7-5b	Wintering Bird Survey (Sheet 2 of 2)
Figure 7-6	Bat Survey
Figure 7-7	Location of Ponds
Figure 7-8	Badger Survey (confidential)
Figure 7-9a	Breeding Bird Survey Schedule 1 Species (Sheet 1 of 2) (confidential)
Figure 7-9b	Breeding Bird Survey Schedule 1 Species (Sheet 2 of 2) (confidential)
Figure 8-1	Watercourses
Figure 8-2	Environment Agency Fluvial Flood Map
Figure 8-3	Modelled Flood Levels (0.1% AEP)
Figure 8-4	Environment Agency Pluvial Flood Map

Figure 8-5	Bedrock Geology
Figure 8-6	Superficial Geology
Figure 8-7	Topography
Figure 8-8	Designated Sites
Figure 8-9	Licenced Abstractions
Figure 8-10	Aquifer Designation Mapping
Figure 10-1	Noise Monitoring Positions and Noise Sensitive Receptors
Figure 11-1a	Construction Phase Dust Study Area (Sheet 1 of 3)
Figure 11-1b	Construction Phase Dust Study Area (Sheet 2 of 3)
Figure 11-1c	Construction Phase Dust Study Area (Sheet 3 of 3)
Figure 11-2a	On-Road Vehicle Emissions Study Area (Sheet 1 of 3)
Figure 11-2b	On-Road Vehicle Emissions Study Area (Sheet 2 of 3)
Figure 11-2c	On-Road Vehicle Emissions Study Area (Sheet 3 of 3)
Figure 11-3a	Construction Phase – Vehicle Emissions Screening Assessment (Sheet 1 of 3)
Figure 11-3b	Construction Phase – Vehicle Emissions Screening Assessment (Sheet 2 of 3)
Figure 11-3c	Construction Phase – Vehicle Emissions Screening Assessment (Sheet 3 of 3)
Figure 13-1	Provisional Agricultural Land Classification
Figure 13-2	Agricultural Land Classification
Figure 13-3	Provisional Agricultural Land Classification for Bedford Borough and Huntingdonshire District

Figure 13-4 National Soil Map

Figure 13-5 Mineral Safeguarding Areas

Figure 14-1 Study Area and Socio-Economic Receptors Plan

Figure 14-2 Isochrone Plan

Glossary

Term	Description
Abnormal Indivisible Load	A load that, due to its size, mass, or shape, cannot be divided into smaller parts for transport without compromising its function or incurring excessive cost or risk. Such loads typically require special transport arrangements and permits due to their dimensions or weight exceeding standard legal limits.
Above Ordnance Datum	A vertical measurement system used to denote elevations relative to a fixed reference point, known as the Ordnance Datum. In the UK, the Ordnance Datum is based on mean sea level at Newlyn, Cornwall, and elevations are expressed as being above or below this baseline.
Access Tracks	The roadways within the Order Limits constructed or used to provide a means of access internally around the Scheme.
Additional Mitigation	Measures implemented beyond the embedded mitigation to further reduce or remediate adverse impacts.
Ancient Woodland	A forested area that has existed continuously since at least 1600 AD in the UK. These woodlands are often rich in biodiversity and considered irreplaceable due to their long-term ecological continuity.
Ancillary Infrastructure	Works to include boundary fencing, other means of enclosure, security infrastructure, drainage, signage, earthworks, and paths.
Associated Infrastructure	Supporting infrastructure that is necessary for the delivery of the Scheme. This can include access tracks, utilities, drainage systems, and other ancillary infrastructure that enable the functioning or development of the Scheme.
Agricultural Land Classification	A system used to grade the quality of farmland based on factors such as soil quality, climate, and drainage. In the UK, it ranges from Grade 1 (excellent quality) to Grade 5 (very poor quality), with higher grades indicating greater suitability for productive agriculture.
Automatic Traffic Count	A method of monitoring and recording vehicle flow on roads using automated sensors, such as pneumatic tubes, infrared sensors, or inductive loops. This data helps analyse traffic patterns, volumes, and trends over time without manual intervention.
Auxiliary Transformer	A smaller transformer used in power systems to supply electrical power to equipment such as lighting, cooling systems, or control circuits, within a substation or industrial facility. It typically steps down the voltage from the main supply to the lower levels required for these systems.
Azimuth Angle	The angle from true north measured clockwise in a horizontal plane.
Baseline Conditions	The existing conditions for an environmental receptor or resource before any proposed development or intervention occurs. This serves as a reference point for assessing potential impacts of future projects.

Term	Description
Best and Most Versatile Land	Refers to land that has the highest potential for agricultural productivity and adaptability to various crops or uses. This type of land typically features fertile soil, favourable climate conditions, and adequate water supply, making it suitable for a wide range of agricultural activities and potentially other developments. Best and Most Versatile Land is land with an Agricultural Land Classification of Grade 3a or above.
BSSL Cambsbed 1 Ltd	The Applicant for the Scheme. BSSL Cambsbed 1 Ltd is ultimately a wholly owned subsidiary of Brockwell Energy Ltd.
Busbars	Conductive strips or bars used to distribute electrical power within a switchboard, panel, or substation. They provide a common connection point for multiple circuits and can handle high current loads, facilitating the efficient transfer of electricity between different components of an electrical system.
Cable Sealing End	A specialised termination point at the end of an electrical cable that prevents moisture and contaminants from entering the cable while ensuring safe and reliable electrical connections. It typically includes protective components like insulation and sealing materials to maintain the integrity of the cable in various environmental conditions.
Centralised Inverters	Inverters, switchgear and transformers that are housed in containers and distributed through the Scheme.
Circuit Breaker	Safety device which main function is to interrupt an overcurrent flow to protect equipment.
Construction Compound	A temporary laydown area that would include offices, car parking, welfare facilities, and storage for materials and equipment.
Construction Phase	The phase in which the Scheme would be built.
Cumulative Effect	The combined impact on the environment resulting from multiple individual projects or activities over time. This effect considers how these interactions may lead to significant changes in environmental conditions, even if each project alone may not result in significant effects.
Decommissioning Phase	The phase in which the Scheme would be removed and the land restored in accordance with the development consent order, which follows the Operational Phase.
Design Parameter	A measurable factor or specification that influences the design of the Scheme.
Development Consent Order	A legal document that grants permission for certain types of large-scale infrastructure projects, such as energy generation, transport, or water management. A DCO combines planning consent and other necessary approvals into a single application, streamlining the decision-making process.

Term	Description
Disconnector	Switching device used to provide safe isolation by de-energising parts of an electrical network for maintenance and service.
East Park Substation	The proposed on-site 400 kV electrical substation.
Eaton Socon Substation	The existing National Grid Substation at Eaton Socon, where the Scheme will connect with the National Grid.
EIA Development	A proposed development that requires Environmental Impact Assessment.
EIA Regulations	The *Infrastructure Planning (Environmental Impact Assessment) Regulations 2017*
Embedded Mitigation	Environmental mitigation measures that are integrated into the proposed design and management of a project from the outset.
Enhancement	Initiatives that are not required to mitigate the adverse effects of a proposed development, but which will provide enhancement.
Environmental Impact Assessment (EIA)	A systematic process used to evaluate the potential environmental effects of a project before it is carried out. The EIA aims to identify ways to mitigate adverse effects, ensuring informed decision-making and promoting sustainable development.
Field Capacity Days	A measurement used in agriculture to indicate the number of days soil can retain moisture at field capacity – the maximum amount of water the soil can hold after excess water has drained away.
Flood Zone	Areas identified by the Environment Agency based on their risk of flooding, typically defined by historical data and hydrological models. Flood Zones indicate the likelihood of flooding, with classifications ranging from low-risk areas (Zone 1) to high-risk areas (Zone 3).
Future Baseline	The projected environmental conditions expected to exist in the future, considering anticipated changes such as climate change. These conditions serve as a reference point for assessing the potential impacts.
Geophysical Survey	A non-invasive technique used to detect and map archaeological features buried beneath the ground surface. This survey employs methods such as ground-penetrating radar, magnetometry, and resistivity to identify anomalies and patterns indicative of human activity, allowing archaeologists to gather information about a site without excavation.
Green Infrastructure	A network of multi-functional green space, other green features, and landscaping, designed to deliver multiple environmental benefits.
Grid Connection	Used when referring to the 400 kV cable corridor between the East Park Substation and the Eaton Socon Substation

Term	Description
Grid Connection Corridor	The corridor in which the Grid Connection would be constructed between the East Park Substation and Eaton Socon Substation.
Gross Value Added (GVA)	GVA reflects the contribution of labour and capital to the economy and is a key indicator for assessing economic performance and productivity at various levels, such as regional or national.
High Voltage Cabling	The on-site 33kV cables which transmit electricity generated by the Scheme to the on-site East Park Substation.
Inter Project Effect	The cumulative impact that arises when multiple projects in proximity to each other interact or influence one another, potentially leading to combined environmental effects that are greater than the sum of their individual impacts.
Intra Project Effect	Where the environmental impacts of the Scheme can interact and combine to potentially increase the level of effect on a particular receptor.
Inverters	Inverters convert the direct current electricity generated by the PV panels into alternating current.
Joining Chamber	Underground structure constructed at intervals along the Grid Connection to join sections of cable and facilitate maintenance.
Likely Significant Effect	The potential impacts of the Scheme that are expected to have a substantial effect on the environment, based on initial assessments.
Listed Building	A building recognised for its historical, architectural, or cultural significance. Listed buildings are categorized into grades (Grade I, II*, and II) based on their importance, with Grade I being the rarest and most important examples.
Low Voltage Cabling	Electrical wiring designed to carry low voltage levels.
Magnitude of Impact	A measure of the scale or intensity of an impact on the environment. It considers factors such as severity, duration, reversibility, and extent of the impact.
Mitigation	Actions or measures taken to avoid, reduce, remediate, or compensate adverse impacts on the environment.
Monitoring	The process of tracking and evaluating the effectiveness of mitigation measures. This ongoing evaluation ensures that mitigation measures achieve their intended goals and allows for adjustments as needed to ensure compliance with commitments made during the planning process.
National Policy Statement (NPS)	A document that sets out the Government's policies for specific sectors, such as energy, transport, or waste management, in the context of planning and development in the UK. NPSs provide a framework for decision-making.

Term	Description
Nationally Significant Infrastructure Project (NSIP)	A category of large-scale projects in the UK that are subject to a specific planning regime under the Planning Act 2008. NSIPs include projects such as energy generation facilities, transport infrastructure, and water management schemes, and they require a Development Consent Order (DCO) for approval, involving public consultation and examination processes.
Non-Statutory	Refers to processes, designations, or recommendations that are not legal requirements or set out by law. Non-statutory requirements can still influence decision-making but do not carry the same legal weight as statutory requirements.
Operational Phase	The phase in which the Scheme would be generating and exporting electricity to the National Grid, which follows the Construction Phase.
Pitch	The horizontal spacing between individual solar arrays. This distance is crucial for optimising energy capture by minimising shading between panels, and ensuring accessibility for maintenance.
Photomontage	A visual representation created by superimposing an image of a proposed development upon a photograph or series of photographs to depict how the development will look in its actual environment.
Planning Inspectorate	A UK government agency responsible for examining applications for Nationally Significant Infrastructure Projects (NSIPs). The Planning Inspectorate ensures that planning decisions are made fairly and transparently, conducting the DCO examination and providing a recommendation to the Secretary of State based on evidence gathered during the examination process.
Power Conversion System (PCS)	A technology that converts electrical power from one form to another, typically from direct current (DC) to alternating current (AC) or vice versa. The PCS is essential for managing an energy storage system and ensuring the efficient use of electricity in various applications.
Preliminary Environmental Information	A preliminary assessment of the potential environmental effects likely to result from the Scheme.
Preliminary Environmental Information Report (PEIR)	The Applicant must prepare and consult on 'preliminary environmental information' as part of the statutory consultation. The PEIR presents the preliminary environmental information.
Public Right of Way	A designated path or route that the public is legally entitled to use. Public rights of way can include footpaths, bridleways, byways open to all traffic, and restricted byways.
PV array	A PV array is a grouping of PV tables.
PV mounting structure	A PV mounting structure is the metal frame on which PV panels are mounted. Collectively, the PV panels and PV mounting structure are referred to as a PV table.

Term	Description
PV panels	A PV panel is a solar photovoltaic panel which converts sunlight directly into electricity.
PV tables	PV tables are groups of PV panels mounted on a single PV mounting structure, collectively a group of PV tables form a PV array.
Receptor	A component of the natural or man-made environment that is affected by an impact, including people.
Requirements	Conditions that must be fulfilled as part of a DCO for Nationally Significant Infrastructure Projects in the UK.
Residual Effect	The remaining effect on the environment after all proposed mitigation measures have been implemented.
Retention Basin	A designed area used to manage water runoff by temporarily storing excess water during heavy rainfall. These basins help reduce flooding, improve water quality by allowing sediments to settle, and facilitate gradual release of water into surrounding areas or drainage systems. They are an important component of sustainable urban drainage systems (SuDS).
Rochdale Envelope	An approach that allows for flexibility in the design of a proposed project by outlining a broad range of parameters within which the project can be developed. This concept is particularly used in the context of Environmental Impact Assessments (EIAs) to assess potential impacts based on the worst-case scenario, while allowing for adjustments in design and implementation as the project evolves. It enables developers to adapt to changing circumstances without requiring a complete re-evaluation of environmental impacts.
Scoping	The process of determining the specific environmental topics and potential impacts that should be assessed in an Environmental Impact Assessment (EIA) for a proposed project.
Scheduled Monument	A site or structure recognised for its historical or archaeological significance.
Solar PV Areas	The areas within the Order Limits where PV arrays are proposed.
Solar Transformer	Transformers that will be distributed throughout the Scheme, which step-up the voltage of the electricity produced by solar panels.
Surge Arrester	Protective device used for limiting voltage by redirecting a surge current away from the equipment.
Statutory Consultation	A formal process required by law that involves seeking the views of stakeholders, including government agencies, local authorities, and the public, regarding a proposed development. This consultation is mandated by legislation and ensures that relevant parties have the opportunity to express their opinions, concerns, and suggestions, which must be considered in the decision-making process.

Term	Description
Statutory Designation	An official designation granted to a site, area, or feature by Government or a regulatory body, often to protect its legal status due to its historical, cultural, or environmental significance. Examples include Scheduled Monuments, Sites of Special Scientific Interest (SSSIs), and National Parks.
Statutory Environmental Body	A UK Government agency responsible for enforcing environmental regulations, conducting assessments, and ensuring compliance with environmental standards. In the UK, examples include the Environment Agency, Natural England, and Historic England.
Statutory Undertaker	An organisation that has been granted specific legal powers to provide essential services or infrastructure, such as water supply, electricity, gas, or transportation.
String Inverters	Inverters located throughout the Scheme which are mounted on the PV mounting structures underneath the PV panels.
Study Area	The area that is the focus of assessment. The study area is defined to encompass the relevant area that may be significantly affected by the Scheme.
SuDS	A range of techniques and approaches designed to manage surface water drainage in a sustainable way. SuDS aim to reduce flooding, improve water quality, and enhance biodiversity.
Switchgear	Switchgears are the combination of electrical disconnect switches, fuses or circuit breakers used to control, protect and isolate electrical equipment.
the Applicant	The Applicant is BSSL Cambsbed 1 Ltd.
the Scheme	The Scheme is the East Park Energy project.
the Site	The ‘Site’ is used to refer to land within the Order Limits when speaking generically or in relation to the whole Order Limits.
Tranquillity	A state of calm and quietude associated with peace, often associated with natural landscapes. Tranquillity encompasses both the visual and auditory aspects of a landscape, including the absence of intrusive sounds and sights, which contribute to a serene environment.
Transformer	A structure serving to transfer electricity from one circuit to another, either stepping-up or stepping-down the electrical voltage.
Type 1 Hardcore	A type of granular material consisting of crushed stone.
Visibility Splay	An area at a road junction or access point that ensures clear sightlines for drivers to see approaching traffic and pedestrians. Visibility splays are designed to improve safety by providing adequate space for drivers to assess the road conditions and make informed decisions when entering or exiting the road. The dimensions of a visibility splay depend on factors such as vehicle speed, road type, and local regulations.

Term	Description
Visual Receptor	Individuals and / or defined groups of people who have the potential to be affected by the Scheme.
Work Plans	The plans submitted with the application which set out where the development proposed as part of the Scheme would occur.
Zone of Influence	The area for the assessment of cumulative effects. Zones of Influence (ZoIs) are variable depending on the environmental topic being assessed.
Zone of Theoretical Visibility	A map showing areas of land within which a development is theoretically visible.

Acronyms

Acronym	Definition
AAC	Area of Archaeological Constraint
AADT	Annual Average Daily Traffic
AAWT	Annual Average Weekday Traffic
AC	Alternating Current
ACoW	Archaeological Clerk of Works
ACEC	Aggressive Chemical Environment for Concrete
AEP	Annual Exceedance Probability
ALC	Agricultural Land Classification
AOD	Above Ordnance Datum
AoNB	Area of National Beauty
APFP Regulations	Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
APIS	Air Pollution Information Service
AQAL	Air Quality Assessment Level
AQMA	Air Quality Management Area
AQO	Air Quality Objective
AQS	Air Quality Strategy
ATC	Automatic Traffic Count
ATI	Ancient Tree Inventory
AWI	Ancient Woodland Inventory
BAT	Best Available Techniques
BaU	Business as Usual
BBC	Bedford Borough Council
BBHET	Bedford Borough Council Historic Environment Team
BCT	Bat Conservation Trust
BESS	Battery Energy Storage System
BGS	British Geological Society
BLBRMC	Bedfordshire and Luton Biological Recording and Monitoring Centre
BMV	Best and Most Versatile
BNG	Biodiversity Net Gain
BOAT	Byway Open to All Traffic
BoCC	Birds of Conservation Concern
BPM	Best Practicable Means

Acronym	Definition
BRE	Building Research Establishment
BS	British Standard
BSU	Battery Storage Units
BTO	British Trust for Ornithology
CCC	Cambridgeshire County Council
CCGT	Combined Cycle Gas Turbine
CCRA	Climate Change Risk Assessment
CCS	Carbon Capture Storage
CEA	Cumulative Effects Assessment
CEMP	Construction Environmental Management Plan
CGeol	Chartered Geologist
CHET	Cambridgeshire Historic Environment Team
CIEEM	Chartered Institute of Ecology and Environmental Management
C&I	Commercial and Industrial
CIfA	Chartered Institute for Archaeologists
CIRIA	Construction Industry Research and Information Association
CIWEM	Chartered Institute of Water and Environmental Management
CMLI	Chartered Members of the Landscape Institute
CoP	Code of Practice
CPERC	Cambridgeshire and Peterborough Environmental Record Centre
CRTN	Calculation of Road Traffic Noise
cSAC	Candidate Special Area of Conservation
CSM	Conceptual Site Model
CTMP	Construction Traffic Management Plan
CWMP	Construction Waste Management Plan
CWS	County Wildlife Site
DAD	Design Approach Document
dB	Decibels
DC	Direct Current
DCO	Development Consent Order
DDCMS	Department for Digital, Culture, Media and Sport
Defra	Department for Environment Food and Rural Affairs
DEMP	Decommissioning Environmental Management Plan
DESNZ	Department for Energy Security and Net Zero
DMCS	Department for Media, Culture and Sports

Acronym	Definition
DMP	Dust Management Plan
DMRB	Design Manual for Roads and Bridges
DQRA	Detailed Quantitative Risk Assessment
DRMP	Decommissioning Resource Management Plan
DS	Design Sulphate
DSM	Digital Surface Model
DTM	Digital Terrain Model
EA	Environment Agency
EcIA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment
EMF	Electromagnetic Field
EN-1	Overarching National Policy Statement for Energy (EN-1)
EN-3	National Policy Statement for Renewable Energy Infrastructure (EN-3)
EN-5	National Policy Statement for Electricity Networks Infrastructure (EN-5)
EPD	Environmental Product Declarations
EPO	Environmental Protection Officer
EPS	European Protected Species
ES	Environmental Statement
FBIAC	Fellow of the British Institute of Agricultural Consultants
FCD	Field Capacity Day
FRA	Flood Risk Assessment
FTE	Full Time Equivalent
GCN	Great Crested Newt
GHG	Greenhouse Gas
GLVIA	Guidelines for Landscape and Visual Impact Assessment 3rd Edition
GPS	Global Positioning System
GQRA	Generic Quantitative Risk Assessments
GTLA	Ground Level Tree Assessment
GVA	Gross Value Added
GW	Gigawatt
HDC	Huntingdonshire District Council
HDD	Horizontal Drilling or Horizontal Directional Drilling
HDV	Heavy Duty Vehicle

Acronym	Definition
HE	Historic England
HER	Historic Environment Record
HET	Historic Environment Team
HGV	Heavy Goods Vehicle
HIA	Health Impact Assessment
HIS	Habitat Suitability Index
HLC	Historic Landscape Characterisation
HRA	Habitats Regulations Assessment
HV	High Voltage
HVAC	Heating, Ventilation and Air Conditioning
IAQM	Institute of Air Quality Management
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICOMOS	International Council on Monuments and Sites
IEMA	Institute of Environmental Management and Assessment
IES	Institute of Environmental Sciences
IMD	Indices of Multiple Deprivation
IRZ	Impact Risk Zone
ISEP	Institute of Environmental Professionals
JNCC	Joint Nature Conservation Committee
kV	Kilovolt
LA	Local Authority
LAQM	Local Air Quality Management
LBAP	Local Biodiversity Action Plan
LCA	Landscape Character Area
LCRM	Land Contamination Risk Management
LCT	Landscape Character Type
LDV	Light Duty Vehicle
LEMP	Landscape and Ecology Management Plan
LEP	Local Enterprise Partnership
LFN	Low Frequency Noise
LFP	Lithium-Iron-Phosphate
LHA	Local Highway Authority
LIR	Land Identification Report
LLCA	Local Landscape Character Area
LLFA	Lead Local Flood Authority

Acronym	Definition
LNR	Local Nature Reserve
LOAEL	Lowest Observable Adverse Effect Level
LPA	Local Planning Authority
LSOA	Lower Super Output Area
LVIA	Landscape and Visual Impact Assessment
MAGIC	Multi Agency Geographic Information for the Countryside
MfS	Manual for Streets
MHCLG	Ministry of Housing Communities and Local Government
MoD	Ministry of Defence
MSA	Mineral Safeguarding Area
MW	Megawatt
NAP	National Adaptation Programme
NBW	Nighttime Bat Walkover
NCA	National Character Area
NCN	National Cycle Network
NE	Natural England
NERC Act 2006	Natural Environment and Rural Communities Act 2006
NFCC	National Fire Chiefs Council
NGR	National Grid Reference
NHLE	National Heritage List for England
NIA	Noise Impact Assessment
NLS	National Library of Scotland
NMP	Noise Monitoring Position
NOEL	No Observed Effect Level
NOx	Nitrogen Oxides
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NPSE	Noise Policy Statement for England
NRMM	Non-Road Mobile Machinery
NSIP	Nationally Significant Infrastructure Project
NSR	Noise Sensitive Receptor
NTM	National Transport Model
NTS	Non-Technical Summary
NVZ	Nitrate Vulnerable Zone

Acronym	Definition
oAMS	Outline Archaeological Mitigation Plan
oBSMP	Outline Battery Safety Management Plan
oCEMP	Outline Construction Environmental Management Plan
oCTMP	Outline Construction Traffic Management Plan
oDEMP	Outline Decommissioning Environmental Management Plan
OEMP	Operational Environmental Management Plan
oLEMP	Outline Landscape and Ecological Management Plan
ONS	Office for National Statistics
oOEMP	Outline Operational Environmental Management Plan
oPROWMP	Outline Public Rights of Way Management Plan
OS	Ordnance Survey
OSSEMP	Outline Skills, Supply Chain and Employment Management Plan
oSMP	Outline Soil Management Plan
oSWMP	Outline Surface Water Management Plan
P-CSM	Preliminary Conceptual Site Model
PEA	Preliminary Ecological Appraisal
PEIR	Preliminary Environmental Information Report
PHI	Priority Habitat Inventory
PIEMA	Practitioner of the Institute of Environmental Management and Assessment
PINS	Planning Inspectorate
PoC	Point of Connection
PPA	Planning Performance Agreement
PPG	Planning Practice Guidance
PPV	Peak Particle Velocity
PRA	Preliminary Risk Assessment
PRF-I	Potential Roost Feature - Individual
PRF-M	Potential Roost Feature - Multiple
PRoW	Public Right of Way
pSPA	Proposed Special Protection Area
PV	Photovoltaic
PWS	Private Water Supply
RAMs	Reasonable Avoidance Measures
RBMP	River Basin Management Plan
R&E	Receipts & Expenditure
RMU	Ring main units

Acronym	Definition
RNR	Roadside Nature Reserve
RPG	Registered Park and Garden
RQF	Regulated Qualifications Framework
RVAA	Residential Visual Amenity Assessment
RVAT	Residential Visual Amenity Threshold
SA	Site Access
SEB	Statutory Environmental Body
SILC	Specialist in Land Condition
SIR	Site Identification Report
SMC	Scheduled Monument Consent
SNCI	Site of Nature Conservation Interest
SOAEL	Significant Observed Adverse Effect Level
SoCC	Statement of Community Consultation
SoS	Secretary of State
SAC	Special Areas of Conservation
SPA	Special Protection Areas
SPR	Source, Pathway, Receptor
SPZ	Source Protection Zone
SRN	Strategic Road Network
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Urban Drainage System
TA	Transport Assessment
TGN	Technical Guidance Note
TIN	Technical Information Note
TPP	Tree Protection Plan
TTWA	Travel to Work Area
UCP	Unexpected Contamination Protocol
UK BAP	UK Biodiversity Action Plan
UKCP18	UK Climate Projections 2018
UNFCCC	United Nations Framework Convention on Climate Change
UXO	Unexploded Ordnance
VOA	Valuation Office Agency
WC	Wetness Class
WFD	Water Framework Directive
WHO	World Health Organisation

Acronym	Definition
WSI	Written Scheme of Investigation
ZoC	Zone of Contribution
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility