Technical Appendix 6.3

Preliminary Assessment of Designated Sites and LCTs

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1 Preliminary Assessment of Designated Sites and LCTs

1.1 Introduction

1.1.1 This Technical Appendix presents a preliminary assessment of landscape designations and landscape character types (LCTs). Landscape designations within the detailed 20 km LVIA study area are illustrated at **Figure 6.10** and overlaid with the combined development ZTV at **Figure 6.11**. Landscape Character Types (LCTs) within the detailed 20 km LVIA study area are illustrated at **Figure 6.12** and overlaid with the combined development ZTV at **Figure 6.13**.

1.1.2 This preliminary assessment has been undertaken to determine which designations and LCTs would have the potential to experience significant effects and would therefore require detailed consideration in this LVIA. The intention has been to ensure that the level of attention given to each designation or LCT is proportionate to the likelihood of significant effects arising. The assessment below summarises the process followed in deciding which landscape designations and character types have the potential to experience significant effects, and hence to scope out those designations and LCTs which do not have the potential to experience significant effects from further consideration.

1.1.3 For the avoidance of doubt, unless otherwise stated, all measurements below are from the receptor to the nearest proposed turbine.

Table 1 – Preliminary Assessment of Designations

Local Designation	Location relative to the Proposed Development	Comments	Detailed Assessment Required
Special Landscape Areas within South Lanarkshire			
Douglas Valley SLA	The Proposed Development is located within the western part of this SLA.	Potential for direct and indirect significant effects.	Yes
Upper Clyde Valley and Tinto SLA	Situated approximately 8.2 km to the north-east of the Proposed Development.	Very intermittent theoretical blade tip visibility. Due to the distance from the Proposed Development and the presence of intervening wind farms there is no potential for significant effects to arise.	No
Middle Clyde Valley SLA	Situated approximately 8.7 km to the north of the Proposed Development.	Very intermittent theoretical blade tip visibility. Due to the distance from the Proposed Development and the presence of intervening wind farms there is no potential for significant effects to arise.	No
Leadhills and Lowther Hills SLA	Situated approximately 7.7 km to the south-east of the Proposed Development.	Very intermittent theoretical blade tip visibility. Due to the distance from the Proposed Development and the presence of intervening wind farms there is no potential for significant effects to arise.	No
Sensitive Landscape Areas within East Ayrshire			
Uplands and Moorlands SLA	Situated approximately 4.3 km to the west of the Proposed Development.	Intermittent theoretical blade tip visibility. Due to the presence of intervening wind farms, there is no potential for significant effects to arise.	No
River Ayr Valley SLA	Situated approximately 18.2 km to the west of the Proposed Development.	Very intermittent theoretical blade tip visibility. Due to the distance from the Proposed Development and the presence of intervening wind farms there is no potential for significant effects to arise.	No
Regional Scenic Areas within Dumfries and Galloway			
Thornhill Uplands Regional Scenic Area	Situated approximately 12.8 km to the south south-east of the Proposed Development.	Due to the distance from the Proposed Development and the very limited theoretical visibility there would be no potential for significant effects.	No

Local Designation	Location relative to the Proposed Development	Comments	Detailed Assessment Required
Gardens and Designed Landscapes within South Lanarkshire			
The Falls of Clyde	Situated approximately 11.6 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development, the very limited theoretical visibility and the presence of a number of intervening wind farms there would be no potential for significant effects.	No
Lee Castle	Situated approximately 14.4 km to the north north-east of the Proposed Development.	Due to the distance from the Proposed Development, the very limited theoretical visibility and the presence of a number of intervening wind farms there would be no potential for significant effects.	No
Scot's Mining Company House	Situated approximately 16.8 km to the south south-east of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No
Gardens and Designed Landscapes within Dumfries and Galloway			
Crawick Multiverse	Situated approximately 17.4 km to the south of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No

Table 2 – Preliminary Assessment of LCTs within the 20 km Detailed LVIA Study Area

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
South Lanarkshire Landscape Capacity Study for Wind Energy (2016)			
LCT 1 ii Urban Fringe Farmland - Carluke	16.3 km to the north of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 1 Urban Fringe Farmland	19.6 km to the north north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 1 iii Urban Fringe Farmland - Larkhall/Fernigair and Calderglen	19.8 km to the north of the Proposed Development.	Due to the distance from the Proposed Development, the number of intervening operational wind farms and the limited theoretical visibility no potential for significant effects.	No
LCT 2 Incised River Valley	7.4 km to the north of the Proposed Development.	Due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 2 ii Incised River Valley - Mid Clyde Valley	11.7 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development, the number of intervening operational wind farms and the very limited theoretical visibility no potential for significant effects.	No
LCT 2 iv Incised River Valley - Avon Water	14 km to the north north-west of the Proposed Development.	Due to the distance from the Proposed Development, the number of intervening operational wind farms and the very limited theoretical visibility no potential for significant effects.	No
LCT 2 vi Incised River Valley - Mouse Water	14.7 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development, the number of intervening operational wind farms and the very limited theoretical visibility no potential for significant effects.	No
LCT 2A ii Incised River Valley Broad Valley Floor - Mid Clyde Valley	15.5 km to the north of the Proposed Development.	Due to the distance from the Proposed Development, the number of intervening operational wind farms and the limited theoretical visibility no potential for significant effects.	No
LCT 4 ii Rolling Farmland - West of Lanark/Clyde Valley	9.6 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 4 Rolling Farmland	12.4 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 4 iii Rolling Farmland - South of Strathaven/Sandford	12.5 km to the north-west of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No
LCT 4 i Rolling Farmland – North and East of Lanark	14.4 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 4A Rolling Farmland Forestry	16.8 km to the north north-east of the Proposed Development.	Extensive theoretical blade tip visibility. However, due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 5 ii Plateau Farmland - Western Plateau: Larkhall/Lesmahagow/Coalburn	2.6 km to the north-east of the Proposed Development.	Theoretical visibility across a large proportion of this LCT. Intervening Douglas West, Douglas West Extension and Dalquhandy schemes. However, potential for some significant effects towards the southern part of the LCT.	Yes
LCT 5 Plateau Farmland	5.9 km to the north-west of the Proposed Development.	Theoretical blade tip visibility across a large proportion of the LCT. However, due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 5 Plateau Farmland	14.3 km to the north north-east of the Proposed Development.	Very limited theoretical blade tip visibility. However, due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 5 i Plateau Farmland - Western Plateau: East Kilbride/Strathaven/Drumclog	16.3 km to the north-west of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 5 iii Plateau Farmland - Central Plateau: Carluke/Forth/Carnwath	19 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 5 v Plateau Farmland - Southern Uplands Foothills: Libberton/Elsrickle	19.1 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 5B Plateau Farmland Opencast Mining	1.8 km to the north of the Proposed Development.	Theoretical visibility across a large proportion of this LCT in close proximity. Intervening Douglas West, Douglas West Extension and Dalquhandy schemes. However, potential for some significant effects towards the south-eastern part of the LCT.	Yes

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 5C Plateau Farmland Wind Farm	14.3 km to the north-east of the Proposed Development.	Extensive theoretical blade tip visibility. However, due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 6 iv Plateau Moorland - Western Plateau, Broken Cross/Coalburn	3.1 km to the north of the Proposed Development.	Theoretical visibility across a large proportion of this LCT in close proximity. Intervening Douglas West, Douglas West Extension and Dalquhandy schemes. Potential for some limited effects but due to the intervening schemes any effects would not be considered significant.	No
LCT 6 v Plateau Moorland - Western Plateau, Red Moss/Middle Muir	5 km to the south-east of the Proposed Development.	Theoretical visibility across the western and eastern proportions. However, due to the presence of the operational Middlemuir Wind Farm located in this LCT, any effects would be limited and would not be considered significant.	No
LCT 6 Plateau Moorland	19.2 km to the north-west of the Proposed Development.	Limited theoretical blade tip visibility. However, due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 6 iii Plateau Moorland - Central Plateau, Forth/Tarbrax/West End	19.9 km to the north-east of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No
LCT 6A Plateau Moorland Forestry	19.6 km to the north-west of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 6B i Plateau Moorland Forestry Wind Farm - Western Plateau: Whitelee Moor/Calder Water	8.8 km to the north-west of the Proposed Development.	The extensive Whitelee wind cluster is located in this LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 6D iv Plateau Moorland Opencast Mining - Western Plateau, Broke Cross/Coalburn	5.9 km to the north-east of the Proposed Development.	Theoretical visibility occurs in the part of this LCT where Broken Cross Wind Farm is located. No potential for significant effects.	No
LCT 7 Rolling Moorland	Two proposed turbines, part of the solar array and two inverters are located within this LCT.	Potential for significant effects.	Yes

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 7 Rolling Moorland	440 m to the north-east of the Proposed Development. The access to the Proposed Development crosses through this unit of this LCT.	Potential for significant effects.	Yes
LCT 7 Rolling Moorland	1.9 km to the south-east of the Proposed Development.	Theoretical visibility from the majority of this LCT on the opposing side of Douglas Valley. Potential for significant effects.	Yes
LCT 7 ii Rolling Moorland - Crawfordjohn/Cairn Table (South of Douglas Water)	2.1 km to the south-west of the Proposed Development.	Intermittent theoretical visibility across the LCT in relative proximity. Potential for significant effects.	Yes
LCT 7 Rolling Moorland	2.8 km to the south-west of the Proposed Development.	Intermittent theoretical visibility across the LCT in relative proximity. Potential for significant effects.	Yes
LCT 7 Rolling Moorland	4 km to the north-west of the Proposed Development.	Limited theoretical visibility across the LCT in relative proximity. Cumberhead West Wind Farm is located within this LCT. However, due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 7 Rolling Moorland	4.1 km to the south of the Proposed Development.	Extensive theoretical visibility across the LCT in relative proximity. Potential for significant effects.	Yes
LCT 7 Rolling Moorland	5.4 km to the south-east of the Proposed Development.	Limited theoretical visibility across the LCT. Middlemuir Wind Farm is located within this LCT and Andershaw is located adjacent to it. No potential for significant effects.	No
LCT 7 Rolling Moorland	7.3 km to the north-west of the Proposed Development.	Limited theoretical visibility across the LCT. However, due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 7 Rolling Moorland	12.4 km to the north-west of the Proposed Development.	Very limited theoretical visibility from the LCT. Due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 7 Rolling Moorland	16.1 km to the west of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 7A Rolling Moorland Forestry	0.26 km to the north of the Proposed Development.	The operational Cumberhead, Cumberhead West, Dalquhandy and Douglas West Extension wind farms are located within this LCT. Potential for some significant effects in the eastern part of the LCT.	Yes
LCT 7A Rolling Moorland Forestry	1.3 km to the south-west of the Proposed Development.	Intermittent theoretical visibility mainly from the north-eastern part of the LCT. The operational Kennoxhead Phase 1 Wind Farm is located within this LCT. Potential for significant effects.	Yes
LCT 7A Rolling Moorland Forestry	2.7 km to the south of the Proposed Development.	Extensive theoretical visibility in close proximity. Potential for significant effects.	Yes
LCT 7A i Rolling Moorland Forestry - Hagshaw/Dungavel (North of Douglas Water)	8.7 km to the north-west of the Proposed Development.	Very limited theoretical visibility. Due to the extensive wind farm development located in this LCT and the number of intervening operational wind farms no potential for significant effects.	No
LCT 7B Rolling Moorland Wind Farm	The majority of the Proposed Development, comprising six turbines, three parts of the solar array, inverters, substation, and LDES are located in this LCT.	Potential for significant effects.	Yes
LCT 8 iii Upland River Valley - Douglas Water	0.37 km to the south-east of the Proposed Development. A small portion of the north-easterly solar array overlaps the western edge of this LCT.	Extensive theoretical visibility across the majority of this LCT. Potential for significant effects.	Yes
LCT 8 ii Upland River Valley - River Nethan (east of M74)	3.4 km to the north-west of the Proposed Development.	Intermittent blade tip visibility. Due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 8 iv Upland River Valley - Duneaton Water	5.1 km to the south-east of the Proposed Development.	Very limited theoretical blade tip visibility. Due to the number of intervening operational wind farms no potential for significant effects.	No
LCT 8 i Upland River Valley - Avon Water	12.6 km to the north-west of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 8A Upland River Valley Incised	0.74 km to the south-west of the Proposed Development.	Limited theoretical visibility in close proximity. Potential for significant effects.	Yes
LCT 8B Upland River Valley Opencast Mining	1.7 km to the south of the Proposed Development.	Extensive theoretical visibility in close proximity. Potential for significant effects.	Yes
LCT 9 iii Broad Valley Upland - Douglas Water	5.4 km to the north-east of the Proposed Development.	Extensive theoretical visibility in relative proximity. Potential for significant effects.	Yes
LCT 9 i Broad Valley Upland - Upper Clyde	10.9 km to the east of the Proposed Development.	Due to the distance from the Proposed Development, the number of intervening operational wind farms and the very limited theoretical visibility no potential for significant effects.	No
LCT 10 i Foothills - Carmichael/Roberton	4.6 km to the east of the Proposed Development.	Extensive theoretical visibility in relative proximity. Potential for significant effects.	Yes
LCT 10 ii Foothills - Biggar Common/Quothquan Law	18.7 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 10A Foothills Forestry	8.3 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of operational wind farms adjacent to the Proposed Development no potential for significant effects.	No
LCT 11 i Prominent Isolated Hills - Tinto	11.1 km to the north-east of the Proposed Development.	Due to the distance from the Proposed Development and the number of operational wind farms adjacent to the Proposed Development no potential for significant effects.	No
LCT 11 i Prominent Isolated Hills – Dungavel Hill	12 km to the east of the Proposed Development.	Due to the distance from the Proposed Development and the number of operational wind farms adjacent to the Proposed Development no potential for significant effects.	No
LCT 13 Southern Uplands	9.7 km to the south-east of the Proposed Development.	Intermittent theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13 Southern Uplands	11.6 km to the south-east of the Proposed Development.	Limited theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 13 Southern Uplands	13.3 km to the south-east of the Proposed Development.	Very limited theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13 Southern Uplands	13.6 km to the south-east of the Proposed Development.	Limited theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13 Southern Uplands	14.1 km to the south-east of the Proposed Development.	Intermittent theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13 iii Southern Uplands - Lowther Hills (west of Clyde/Daer)	18.3 km to the south-east of the Proposed Development.	Intermittent theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13 Southern Uplands	18.3 km to the south-east of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13 Southern Uplands	18.6 km to the south-east of the Proposed Development.	Very limited theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13A Southern Uplands Forestry	9.8 km to the south-east of the Proposed Development.	Intermittent theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13A Southern Uplands Forestry	13.9 km to the south-east of the Proposed Development.	Very limited theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13A Southern Uplands Forestry	18.8 km to the south-east of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13A Southern Uplands Forestry	19 km to the south-east of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 13A Southern Uplands Forestry	19.1 km to the south-east of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13B Southern Uplands Windfarm	15.3 km to the south-east of the Proposed Development.	Clyde Wind Farm is located in this LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13B Southern Uplands Windfarm	17.4 km to the south-east of the Proposed Development.	Clyde Wind Farm is located in this LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 13C Southern Uplands Leadhills	12.2 km to the south-east of the Proposed Development.	Intermittent theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 14 i Upland Glen - Glengonnar Water	12.2 km to the south-east of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 14 ii Upland Glen - Elvan Water	16.2 km to the south-east of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No
LCT 14 vi Upland Glen - Camps Water	16.4 km to the south-east of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No
LCT 14 v Upland Glen - Midlock Water	17.9 km to the south-east of the Proposed Development.	No theoretical visibility. No potential for significant effects.	No
LCT 14 viii Upland Glen – Cow Gill	18.3 km to the south-east of the Proposed Development.	Practically no theoretical visibility from the LCT. No potential for significant effects.	No
East Ayrshire Landscape Wind Energy Capacity Study (2024)			
LCT 7c East Ayrshire Lowlands	15.4 km to the west of the Proposed Development.	Intermittent theoretical visibility. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No

Landscape Character Type	Location relative to the Proposed Development	Comments	Detailed Assessment Required
LCT 10 Upland River Valley in the Ayr Valley	3.4 km to the west of the Proposed Development.	Very intermittent theoretical visibility at distances in excess of 5 km. Due to the intervening operational Hagshaw Hill Repowering and Galawhistle wind farms no potential for significant effects.	No
LCT 10 Upland River Valley in the Lugar/Glenmuir Water Valley	16.2 km to the west of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 10 Upland River Valley in the Irvine Valley	18.3 km to the north-west of the Proposed Development.	Practically no theoretical visibility from the LCT. Due to the distance from the Proposed Development and the number of intervening operational wind farms no potential for significant effects.	No
LCT 18a East Ayrshire Plateau Moorlands to the north of the Ayr Valley	3.4 km to the west of the Proposed Development.	Limited theoretical visibility. While there is potential for some effects, due to the intervening Hagshaw Hill Repowering and Galawhistle wind farms any effects would not be considered significant.	No
LCT 18a East Ayrshire Plateau Moorlands to the south of the Ayr Valley	4.3 km to the south-west of the Proposed Development.	Limited theoretical visibility. While there is potential for some effects, due to the intervening Galawhistle Wind Farm any effects would not be considered significant.	No