Whitelee Windfarm Extension Solar, PV, Green Hydrogen Production and Battery Storage Facilities Peat Slide Risk Assessment

Site Layout Plan

Figure 1

Produced By: BM
Ref: 4362-REP-001
Checked By: SC
Date: 04/06/2021

Site Boundary
Cables and Roads
- Existing cable
- Proposed New Cable
- Link/Haul Road (S36)

Site Infrastructure
- Proposed BESS Temp Compound
- Proposed Electrolyser
- Proposed Electrolyser Laydown Area
- Proposed PV Layout
- Proposed BESS Compound
- Proposed Temporary Compound
- Whitelee Extension Substation
Figure 2

Superficial Soils

- Alluvium
- Glaciofluvial Deposits
- Glaciolastrine Deposits
- Hummocky (Moundy) Glacial Deposits
- Peat
- River Terrace Deposits (Undifferentiated)
- Superficial Theme Not Mapped
- Till, Devensian
Whitelee Windfarm Extension Solar, PV, Green Hydrogen Production and Battery Storage Facilities
Peat Slide Risk Assessment

Figure 3

- Site Boundary
- Cables and Roads
  - Existing cable
  - Proposed New Cable
  - Link/Haul Road (S36)
- Site Infrastructure
  - Proposed BESS Temp Compound
  - Proposed Electrolyser
  - Proposed Electrolyser Laydown Area
  - Proposed PV Layout
  - Proposed BESS Compound
  - Proposed Temporary Compound
  - Whitelee Extension Substation
- Solid Geology
  - Ayrshire Bauxitic Clay Member
  - Dumdruff Hill Lava Member
  - Eaglesham Lava Member
  - Flow Moss Lava Member
  - Gowk Stane Volcanistic Member
  - Harelaw Lava Member
  - Hosie Limestones
  - Index Limestone (Scotland)
  - Kilbirnie Mudstone Member
  - Limestone Coal Formation
  - Lower Limestone Formation
  - Upper Limestone Formation
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Geomorphology Map

Figure 4

Ref: 4362-REP-004
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Figure 5

The map shows the proposed layout of the Whitelee Windfarm Extension with the Site Boundary marked in red. Key elements include:

- Proposed BESS Temp Compound
- Proposed Electrolyser
- Proposed Electrolyser Laydown Area
- Proposed BESS Compound
- Proposed Temporary Compound
- Whitelee Extension Substation
- Proposed PV Layout

Cables and Roads:
- Existing cable
- Proposed New Cable
- Link/Haul Road (S36)

Slope Gradient (deg):
- 0 - 2
- 2 - 4
- 4 - 8
- 8 - 15
- > 15

The map is produced for Whitelee Windfarm Extension Solar, PV, Green Hydrogen Production and Battery Storage Facilities by BM and checked by SC. It is dated 04/06/2021.
Whitelee Windfarm Extension Solar, PV, Green Hydrogen Production and Battery Storage Facilities
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Figure 6

Recorded Peat Depths

- 0.00 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 5.50

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Peat Slide Risk Assessment

Interpolated Peat Depths

Figure 7

Whitelee Windfarm Extension Solar, PV, Green Hydrogen Production and Battery Storage Facilities

Interpolated Peat Depths (m)

0.00 - 0.50
0.51 - 1.00
1.01 - 1.50
1.51 - 2.00
2.01 - 2.50
2.51 - 3.00
3.01 - 3.50
3.51 - 4.00
4.01 - 4.50
4.51 - 5.00
5.01 - 5.50

Scale @ A3
Date: 04/06/2021
P:\GIS\Engineering\Projects\4362 Whitelee Solar and Hydrogen\4362 Whitelee Solar and Hydrogen.aprx\4362-REP-007 Fig07 Interpolated Peat Depths

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Interpolated Peat Depths

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Whitelee Windfarm Extension Solar, PV, Green Hydrogen Production and Battery Storage Facilities

Peat Slide Risk Assessment

Factor of Safety Plan

Figure 8

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