

Appendix 15.1 Meteorological Data

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Appendix 15.1 Meteorological Data

Eskdalemuir Meteorological Data

Table A15.1.1 below summarises the raw data received from the historical weather station data for Eskdalemuir and held by the Met Office (2020).

Table A15.1.1 - Summary of Raw Meteorological Data for Eskdalemuir Met Station from 1929 to 2020 (91 years)

Month	Number of Days in Month	Average Sun Hours / Month	Average Sun Hours / Day
January	31	39.46	1.27
February	28	62.76	2.24
March	31	89.20	2.88
April	30	130.19	4.34
May	31	165.83	5.35
June	30	153.99	5.13
July	31	140.48	4.53
August	31	128.62	4.15
September	30	97.09	3.24
October	31	74.28	2.40
November	30	51.15	1.70
December	31	36.66	1.18

Wind Parameters

Table A15.1.2 below outlines the wind parameters used within WindPro model for the Proposed Development. It adopts a 16 degree sector with 7,446 hours of wind per year (equivalent to the development being operational for 85 % of the year). Wind distribution data for the site is taken from a met mast location within the vicinity of the Proposed Development site.

Table A15.1.2 - Wind Distribution at the Site

Direction	Wind Distribution	Hours of Wind / Year
N	2.65 %	197
NNE	3.88 %	289
NE	5.38 %	401
ENE	3.12 %	232
E	2.88 %	215
ESE	2.62 %	195
SE	3.17 %	236
SSE	4.42 %	329
S	13.22 %	984
SSW	15.43 %	1149
SW	9.63 %	717
WSW	12.58 %	937
W	9.31 %	693
WNW	6.03 %	449
NW	2.75 %	205
NNW	2.93 %	218

References

UK Met Office (2020). Historic Station Data. Available at:

<https://www.metoffice.gov.uk/research/climate/maps-and-data/historic-station-data>

