

Appendix 15.1 METEOROLOGICAL DATA

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Table A15.1 below summarises raw data received from the historical weather station data for Eskdalemuir and held by the UK Met Office (2019).

Table A15.1 – Summary of Raw Meteorological Data for Eskdalemuir Met Station from 1929 to 2018 (90 years)

Month	Number of Days in Month	Average Sun Hours /month	Average Sun Hours /day
January	31	39.62	1.27
February	28	62.75	2.24
March	31	90.14	2.89
April	30	128.83	4.31
May	31	165.25	5.34
June	30	155.31	5.16
July	31	143.14	4.57
August	31	130.57	4.17
September	30	98.40	3.24
October	31	74.42	2.39
November	30	51.11	1.70
December	31	37.19	1.19

Table A15.2 below outlines the wind parameters used within the 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 located adjacent to the Proposed Development site.

Table A15.2 – Wind Distribution at the Site

Direction	Wind Distribution	Hours of Wind / year	Direction	Wind Distribution	Hours of Wind / year
N	2.65 %	197.3	S	13.22 %	984.4
NNE	3.88 %	288.9	SSW	15.43 %	1148.9
NE	5.38 %	400.6	SW	9.63 %	717.0
ENE	3.12 %	232.3	WSW	12.58 %	936.7
E	2.88 %	214.4	W	9.31 %	693.2
ESE	2.62 %	195.1	WNW	6.03 %	449.0
SE	3.17 %	236.0	NW	2.75 %	204.8
SSE	4.42 %	329.1	NNW	2.93 %	218.2
Totals				100.0%	7446.0

References

Website

UK Met Office (2019). Historic Station Data. Available at:
<http://www.metoffice.gov.uk/climate/uk/stationdata/>. Accessed on: 04 February 2019.