

# Appendix 15.1 METEOROLOGICAL DATA

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## Appendix 15.1 METEOROLOGICAL DATA

Table A15.1 below summarises raw data received from the historical weather station data for Eskdalemuir, and held by the UK Met Office (2017).

**Table A15.1 – Summary of Raw Meteorological Data for Eskdalemuir Met Station from 1929 to 2016 (88 years)**

Month	Number of Days in Month	Average Sun Hours /month	Average Sun Hours /day
January	31	39.32	1.27
February	28	62.86	2.25
March	31	89.85	2.90
April	30	129.46	4.32
May	31	164.61	5.31
June	30	154.42	5.15
July	31	141.74	4.57
August	31	130.08	4.20
September	30	97.75	3.26
October	31	74.43	2.40
November	30	50.88	1.70
December	31	36.68	1.18

Table A15.2 below outlines the wind parameters used within the WindPro model for the Revised Development. It adopts a 12 degree sector with 7,446 hours of wind per year (equivalent to the development being operational for 85 % of the year). Wind distribution for the site is taken from onsite met mast data for the Revised Development.

**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
<b>Totals</b>			<b>100.0%</b>		<b>7446.0</b>

## ***References***

### *Website*

UK Met Office (2017). Historic Station Data. Available at:

<http://www.metoffice.gov.uk/public/weather/climate-historic/#?tab=climateHistoric> - Accessed on 28 June 2017.