

Appendix 14.1 Meteorological Data

Contents

Sunshine Hours	1
Wind Distribution	2

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Appendix 14.1 Meteorological Data

Sunshine Hours

Table 1 below summarises historical weather station data for Largs and held by the UK Met Office (2019).

Table 1 – Mean Monthly Sunshine from 1981 – 2010 at Largs

Month	Number of Days in Month	Average Sun Hours / Month	Average Sun Hours / Day
January	31	51.1	1.65
February	28	70.8	2.53
March	31	95.2	3.07
April	30	144.7	4.82
May	31	195.7	6.31
June	30	165.6	5.52
July	31	159.9	5.16
August	31	138.7	4.47
September	30	108.3	3.61
October	31	86.2	2.78
November	30	66.6	2.22
December	31	37.4	1.21

Wind Distribution

Table 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 Proposed Development being operational for 85% of the year). Wind distribution for the site is based on data from the period April 2018 to April 2019 measured by the meteorological mast.

Table 2 – Wind Distribution

Direction	Wind Distribution	Hours of Wind / Year	Direction	Wind Distribution	Hours of Wind / Year
N	1.61%	119.7	S	19.42%	1446.3
NNE	1.25%	93.2	SSW	10.55%	785.6
NE	1.61%	120.0	SW	11.24%	837.0
ENE	6.23%	464.1	WSW	13.29%	989.3
E	5.57%	414.9	W	9.09%	677.0
ESE	3.32%	247.5	WNW	4.07%	302.7
SE	3.53%	263.0	NW	2.65%	197.7
SSE	4.65%	346.2	NNW	1.90%	141.8
			Totals	100.0%	7446.0