



Awel y Môr Offshore Wind Farm

Table of Wind Turbine Generator Maximum Design Scenarios

Marine Licence Submission 1

Date: 25 November 2022

Revision: A

Document Reference: ML-1.23



REVISION	DATE	STATUS/ REASON FOR ISSUE	AUTHOR	CHECKED BY	APPROVED BY
A	October 2022	DCO Deadline 1	RWE	RWE	RWE
A	November 2022	ML Deadline 1	RWE	RWE	RWE

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Table of Wind Turbine Generator Maximum Design Scenarios

Table 1 should be read in conjunction with the Applicant's response to ExQ1.6.23, and demonstrates how the total rotor swept area operates to control the rotor diameter and tip height as the number of installed turbines increases.

For example, if 47 turbines are installed, then the maximum rotor diameter is 260.3m and the maximum upper tip height is 292.3m^{MHWS}.

Table 1 Wind Turbine Generator Maximum Design Scenarios

	Number of turbines	Maximum rotor diameter (m)	Maximum upper tip height (m ^{MHWS})	Minimum lower tip height (m ^{MHWS})	Total Swept area (km ²)
MDS B	50	250.0	282.0	22.0	2.500412
	49	254.9	286.9	22.0	
	48	257.5	289.5	22.0	
	47	260.3	292.3	22.0	
	46	263.1	295.1	22.0	
	45	266.0	298.0	22.0	
	44	269.0	301.0	22.0	
	43	272.1	304.1	22.0	
	42	275.3	307.3	22.0	
	41	278.7	310.7	22.0	
	40	282.1	314.1	22.0	
	39	285.7	317.7	22.0	
	38	289.4	321.4	22.0	
	37	293.3	325.3	22.0	
	36	297.4	329.4	22.0	
	35	301.6	332.0	22.0	
MDS A	34	306.0	332.0	22.0	
	<34	306.0	332.0	22.0	



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