codling wind park

Environmental Impact Assessment Report

Volume 4

Appendix 24.5 OTI construction phase noise levels


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APPENDIX 24.5 OTI CONSTRUCTION PHASE NOISE LEVELS

1 Introduction

1. Codling Wind Park Limited (hereafter 'the Applicant') is proposing to develop the Codling Wind Park (CWP) Project, which is located in the Irish sea approximately 13 - 22 km off the east coast of Ireland, at County Wicklow.

2. This appendix forms part of **Chapter 24 Noise and Vibration** of the Environmental Impact Assessment Report (EIAR) for the CWP Project.

2 Predicted construction noise levels for each scenario

3. The predicted noise levels for all construction impacts at the NSLs are presented in **Table 1**.

Table 1 Predicted CNL, dB $L_{Aeq,T}$ for each OTI construction phase scenario

Name	Height (m)	Scenario ID and predicted CNL, dB $L_{Aeq,T}$										Highest dB
		1a	2.1	2.2	2.3	3	4.1	4.2	4.3	5	6	
NSL01	1.5	37	33	33	33	42.9	33.9	40.5	59	69.9	51.4	69.9
	4	47.1	40.1	40.1	40.1	46.1	46	54.5	59.1	69.3	55	69.3
NSL02	1.5	33.5	31.9	31.9	31.9	33	30	42.5	64	59.2	62.2	64
	4	38	32.6	32.6	32.6	42	32.6	46.7	62.9	62.4	61.5	62.9
NSL03	1.5	35.6	32.8	32.8	32.8	34.7	30.9	43	62.4	61.4	58.8	62.4
	4	41.5	33.2	33.2	33.2	44.7	35.5	45.2	61.4	61	58.2	61.4
NSL04	1.5	47.6	41.5	41.5	41.5	48.7	44.5	44	48.9	50	60.1	60.1
	4	48	42.8	42.8	42.8	51.2	44.3	44.3	48.7	51.7	59.4	59.4
NSL05	1.5	45.7	39.2	39.2	39.2	55.6	42.2	39.8	44.6	45.3	49.3	55.6
	4	45.6	39.4	39.4	39.4	55.4	42	42.1	45.2	46.9	50.5	55.4
NSL06a	1.5	39.4	35.3	35.3	35.3	37.5	34.2	60.5	57.8	60.7	50.9	60.7
	4	42.8	35.9	35.9	35.9	40.7	35.9	60.6	57.1	60.7	50.3	60.7
NSL06b	1.5	62.8	55.1	55.1	55.1	58.2	63.6	35.5	29.8	35.7	31.3	63.6
	4	63.3	57.7	57.7	57.7	57.7	62.5	36.6	31.7	37.8	34.6	63.3
NSL07	1.5	47.1	39.7	39.7	39.7	47	47.1	54.1	50.1	52.5	47.9	54.1
	4	47.5	40.4	40.4	40.4	47	47.1	55.1	50.7	53.9	51.9	55.1
NSL08	1.5	44	37.7	37.7	37.7	42.5	42.9	65.2	50.5	54.4	49.8	65.2
	4	48.9	40.6	40.6	40.6	46.7	48.2	67.2	50.8	55.5	49.8	67.2

NSL09	1.5	56.2	52.4	52.4	52.4	49.9	55.3	32.7	26.9	31.8	33.1	56.2
	4	56.2	52.1	52.1	52.1	49.7	54.8	37.3	32	37.5	35.1	56.2
NSL10	1.5	30.9	29.5	29.5	29.5	28	28.9	37.5	42.3	47.3	41.3	47.3
	4	36.7	33.5	33.5	33.5	34.5	35.1	43	43.3	47.1	41.3	47.1
NSL11a	1.5	46.1	40.8	40.8	40.8	44.9	45.5	44.8	29.1	32.9	36.7	46.1
	4	47	43	43	43	45	45.2	46.9	35.7	39.3	40.9	47
NSL11b	1.5	43.1	33.9	33.9	33.9	43.4	46.4	41.3	31	34.7	39.9	46.4
	4	43.3	34.6	34.6	34.6	43.6	46.2	43.8	40.5	42.2	40	46.2
NSL12	1.5	30	26.6	26.6	26.6	27.4	27.8	33.8	40.8	45.4	34.6	45.4
	4	34.9	30.1	30.1	30.1	35	36.7	41.4	40.7	45.2	39.9	45.2
NSL13a	1.5	42.1	34	34	34	42.8	46.4	42.9	37	41.9	40.1	46.4
	4	42.4	34.7	34.7	34.7	42.9	46.1	43.8	40	44.9	39.9	46.1
NSL13b	1.5	43	34.4	34.4	34.4	43	44.1	43.4	36.6	39.8	40	44.1
	4	43.5	35.1	35.1	35.1	43	43.9	43.6	39.5	42.8	39.7	43.9
NSL14	1.5	46.6	39.2	39.2	39.2	42.8	43	43.6	39.2	43.9	39.5	46.6
	4	46.6	40	40	40	42.8	42.9	43.9	39.3	44	39.6	46.6
	6.5	46.5	40.4	40.4	40.4	42.5	42.7	43.6	39.8	44.2	39.4	46.5
	9	46.7	40.7	40.7	40.7	42.3	43.5	44.3	41.2	44	40.9	46.7
NSL15	1.5	48.1	42.4	42.4	42.4	43.6	47.6	43.8	40.1	42.9	39.7	48.1
	4	48	43.2	43.2	43.2	43.4	47.3	43.5	39.9	43	40.1	48
NSL16	1.5	47	36.3	36.3	36.3	45.9	43.4	42.6	39.5	42.4	38.9	47

	4	49.3	42.7	42.7	42.7	46.2	45.2	42.4	39.3	43.8	38.8	49.3
	6.5	48.2	42.1	42.1	42.1	43.9	46.6	46	39.2	43.7	38.7	48.2
	1.5	46.5	40.7	40.7	40.7	43.1	43.4	41.4	38.3	41.9	38.5	46.5
	4	47.1	41.6	41.6	41.6	44.9	44.2	41.3	38.6	42.7	38.4	47.1
NSL17	6.5	46.9	41.4	41.4	41.4	46.2	46.3	43.6	38.4	42.6	38.2	46.9
	1.5	45.7	33.3	33.3	33.3	42.7	42.3	38.9	37.7	41.1	35.5	45.7
	4	46.1	33.7	33.7	33.7	43	42	39.1	37.8	41.8	37.6	46.1
NSL18	6.5	47.2	38.4	38.4	38.4	43.2	46	39.3	37.7	41.5	37.6	47.2
NSL19	1.5	48.7	39	39	39	44.3	44.3	39.5	38.1	40.1	38.9	48.7
	4	48.7	39.1	39.1	39.1	44.9	44	39.7	38.2	40.2	38.8	48.7
	1.5	47.3	40	40	40	43.8	43.3	40.2	37.2	41.1	37.7	47.3
NSL20	4	47.3	42.1	42.1	42.1	48.1	43.1	40.1	37.1	41	37.5	48.1
	1.5	47	39.7	39.7	39.7	43.5	44.1	39.7	36.7	39.2	37.2	47
	4	46.5	40.6	40.6	40.6	46.4	43.9	39.6	36.6	39.1	37.1	46.5
NSL21	6.5	46.3	40.5	40.5	40.5	47.1	43.7	39.4	36.4	39	36.9	47.1
	1.5	50.2	42.7	42.7	42.7	45.3	46.4	43	39.9	42.5	40.4	50.2
	4	47.6	42.5	42.5	42.5	48.6	44.2	40.3	37.3	41.2	37.8	48.6
NSL22	6.5	50.3	42.4	42.4	42.4	48.4	44	40.1	37.2	41.1	37.6	50.3
	1.5	49.5	43.7	43.7	43.7	46.4	44.8	40.9	38	39.7	38.7	49.5
	4	51.7	43.5	43.5	43.5	49.8	44.4	40.8	37.8	39.7	38.4	51.7
NSL23	6.5	51.5	43.8	43.8	43.8	49.6	44.2	40.6	37.7	39.6	38.2	51.5

	1.5	53.6	45.2	45.2	45.2	53.2	44.9	41.2	38.4	41.4	39.1	53.6
	4	53.3	45.2	45.2	45.2	51.2	44.6	41.1	38.3	41.3	39	53.3
NSL24	6.5	53	45	45	45	51	44.3	40.9	38.1	41.4	38.8	53
	1.5	54.8	45	45	45	53	45.7	41.2	39	41.4	39.6	54.8
	4	54.4	44.9	44.9	44.9	52.7	45.4	41.3	38.9	41.8	39.5	54.4
NSL25	6.5	54.5	45.8	45.8	45.8	52.4	45.1	41.1	38.8	41.7	39.3	54.5
	1.5	55.5	45.6	45.6	45.6	53.5	46	41.2	38.9	41.6	39.9	55.5
NSL26	4	55.2	45.5	45.5	45.5	53.2	45.8	41.5	38.9	42.1	39.8	55.2
	1.5	54.9	43.7	43.7	43.7	53.1	45	41	38.1	41.4	39.2	54.9
NSL27	4	54.6	43.5	43.5	43.5	52.9	44.7	40.8	38.2	41.4	39.1	54.6
	1.5	55.3	43.6	43.6	43.6	54.5	44.8	41	38	40.7	39.5	55.3
	4	55	43.4	43.4	43.4	54.2	44.6	40.8	37.8	40.7	39.4	55
NSL28	6.5	54.7	43.3	43.3	43.3	53.9	44.3	40.7	37.7	40.7	39.3	54.7
	1.5	51.8	45.1	45.1	45.1	47.3	49.5	38.8	34.9	37.6	41.7	51.8
	4	51.7	46.3	46.3	46.3	47.7	50.4	39.2	36.2	38.8	41.6	51.7
NSL29	6.5	52.2	46.1	46.1	46.1	48	51.9	40.1	37.6	40.1	41.4	52.2