

Fanellan Hub 400 kV Substation and Converter Station

Environmental Impact Assessment Report

Volume 4 | Technical Appendices

Appendix 14.30 – Construction Noise Assessment of BD OHL

February 2025



TECHNICAL APPENDIX 14: NOISE IMPACT ASSESSMENT

14.30 Construction Noise Assessment of BD OHL

NSR	Shortest distance to OHL (m)	Tree Felling		Foundations		Downleads		Stringing		Fibre Diversion		Yard		General	
		SPL at Receptor (dB)	Construction Noise Limit Exceedance	SPL at Receptor (dB)	Construction Noise Limit Exceedance	SPL at Receptor (dB)	Construction Noise Limit Exceedance	SPL at Receptor (dB)	Construction Noise Limit Exceedance	SPL at Receptor (dB)	Construction Noise Limit Exceedance	SPL at Receptor (dB)	Construction Noise Limit Exceedance	SPL at Receptor (dB)	Construction Noise Limit Exceedance
1	138	82	27	71	16	63	8	65	10	54	-1	56	1	54	-1
2	450	69	14	61	6	57	2	58	3	55	0	56	1	56	1
3	135	58	3	62	7	63	8	66	11	56	1	56	1	56	1
4	1148	46	-9	50	-5	41	-14	44	-11	24	-31	30	-25	25	-30
5	148	64	9	70	15	62	7	65	10	51	-4	53	-2	51	-4
6	365	60	5	62	7	60	5	61	6	59	4	59	4	59	4
7	324	61	6	64	9	60	5	61	6	58	3	59	4	58	3
8	987	50	-5	52	-3	46	-9	48	-7	43	-12	43	-12	43	-12
9	330	58	3	63	8	59	4	60	5	58	3	58	3	58	3
10	458	56	1	60	5	56	1	57	2	54	-1	54	-1	54	-1
11	434	68	13	62	7	60	5	60	5	59	4	59	4	59	4
12	441	58	3	61	6	59	4	59	4	58	3	58	3	58	3
13	435	59	4	61	6	59	4	60	5	59	4	59	4	59	4
14	185	53	-2	58	3	60	5	62	7	50	-5	51	-4	51	-4
15	455	65	10	59	4	57	2	58	3	56	1	56	1	56	1
16	613	59	4	61	6	59	4	59	4	59	4	59	4	59	4
17	574	61	6	62	7	61	6	62	7	61	6	61	6	61	6
18	490	57	2	58	3	57	2	58	3	56	1	56	1	56	1
19	746	57	2	58	3	56	1	56	1	56	1	56	1	56	1
20	512	61	6	61	6	61	6	61	6	60	5	60	5	60	5
21	432	51	-4	55	0	53	-2	55	0	49	-6	49	-6	49	-6
22	553	60	5	61	6	60	5	60	5	60	5	60	5	60	5
23	453	81	26	59	4	58	3	59	4	57	2	57	2	57	2

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24	821	62	7	61	6	60	5	61	6	60	5	60	5	60	5
25	464	56	1	57	2	56	1	57	2	55	0	55	0	55	0
26	542	60	5	60	5	60	5	60	5	59	4	59	4	59	4
27	608	58	3	58	3	57	2	58	3	57	2	57	2	57	2
28	541	59	4	55	0	54	-1	55	0	52	-3	52	-3	52	-3
29	547	64	9	60	5	60	5	60	5	59	4	59	4	59	4
30	611	60	5	61	6	60	5	61	6	60	5	60	5	60	5
31	544	50	-5	53	-2	51	-4	53	-2	46	-9	47	-8	47	-8
32	548	52	-3	53	-2	51	-4	53	-2	47	-8	47	-8	47	-8
33	991	60	5	60	5	60	5	60	5	60	5	60	5	60	5
34	812	63	8	62	7	62	7	62	7	62	7	62	7	62	7
35	697	54	-1	52	-3	48	-7	50	-5	44	-11	44	-11	44	-11
36	1039	62	7	62	7	61	6	61	6	61	6	61	6	61	6
37	1070	65	10	59	4	58	3	58	3	58	3	58	3	58	3
38	988	61	6	61	6	60	5	60	5	60	5	60	5	60	5
39	989	60	5	60	5	60	5	60	5	60	5	60	5	60	5
40	664	55	0	52	-3	50	-5	52	-3	47	-8	47	-8	47	-8
41	1101	56	1	53	-2	50	-5	51	-4	50	-5	50	-5	50	-5
42	887	52	-3	51	-4	46	-9	48	-7	43	-12	43	-12	43	-12
43	766	55	0	51	-4	48	-7	50	-5	44	-11	44	-11	44	-11
44	1106	53	-2	54	-1	52	-3	52	-3	52	-3	52	-3	52	-3
45	749	51	-4	51	-4	48	-7	50	-5	45	-10	46	-9	45	-10
46	1110	63	8	55	0	54	-1	54	-1	54	-1	54	-1	54	-1
47	885	52	-3	51	-4	46	-9	48	-7	43	-12	43	-12	43	-12
48	879	71	16	51	-4	46	-9	48	-7	43	-12	43	-12	43	-12

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49	1141	56	1	55	0	54	-1	54	-1	54	-1	54	-1	54	-1
50	1153	55	0	53	-2	50	-5	50	-5	49	-6	49	-6	49	-6
51	897	49	-6	51	-4	46	-9	48	-7	43	-12	43	-12	43	-12
52	1119	67	12	59	4	59	4	59	4	58	3	58	3	58	3
53	1139	53	-2	54	-1	52	-3	52	-3	51	-4	51	-4	51	-4
54	760	54	-1	51	-4	49	-6	50	-5	46	-9	46	-9	46	-9
55	822	56	1	55	0	54	-1	55	0	54	-1	54	-1	54	-1
56	900	49	-6	51	-4	46	-9	48	-7	43	-12	43	-12	43	-12
57	808	54	-1	51	-4	48	-7	49	-6	44	-11	45	-10	45	-10
58	896	50	-5	51	-4	46	-9	48	-7	43	-12	43	-12	43	-12
59	965	51	-4	53	-2	51	-4	51	-4	50	-5	50	-5	50	-5
60	1129	57	2	53	-2	50	-5	51	-4	50	-5	50	-5	50	-5
61	963	53	-2	52	-3	49	-6	50	-5	48	-7	48	-7	48	-7
62	1101	51	-4	52	-3	49	-6	50	-5	49	-6	49	-6	49	-6
63	847	54	-1	54	-1	53	-2	53	-2	52	-3	52	-3	52	-3
64	1272	58	3	56	1	56	1	56	1	56	1	56	1	56	1
65	1091	54	-1	50	-5	45	-10	47	-8	42	-13	42	-13	42	-13
66	1122	51	-4	50	-5	45	-10	46	-9	42	-13	42	-13	42	-13
67	1325	59	4	59	4	59	4	59	4	59	4	59	4	59	4
68	1334	54	-1	54	-1	53	-2	53	-2	53	-2	53	-2	53	-2
69	1250	52	-3	51	-4	49	-6	49	-6	48	-7	48	-7	48	-7
70	1324	60	5	60	5	59	4	60	5	59	4	59	4	59	4
71	1138	49	-6	49	-6	45	-10	46	-9	42	-13	42	-13	42	-13
72	1433	53	-2	53	-2	52	-3	52	-3	52	-3	52	-3	52	-3
73	1295	50	-5	50	-5	47	-8	48	-7	46	-9	46	-9	46	-9

