



Technical Appendix 9-6 Grid Connection Route (GCR) Construction Noise Levels

EIAR – Volume 3

Muingmore Wind Farm

SLR Project No.: 501.065301.00001

April 2026



RWE Renewables Ireland Limited
Muingmore Wind Farm – Noise and Vibration
Technical Appendix 9-6
Grid Connection Route (GCR) Construction Noise Levels

Project Number: 22126

Document Reference: 22126-R6 V0

Document Date: 14/01/2026

Author: RSC

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1 Introduction

This appendix provides the calculated noise levels from the Grid Connection Route (GCR) construction activities at all identified noise sensitive receptors (NSRs) within 150m of the cable route.

2 Results

Table 1 sets out the calculated construction noise levels at each of the NSRs considered along the GCR. Also included is the average distance between the NSR and daily construction activity, determined in accordance with the method set out in Chapter 9 of the EIAR. To aid with the display of the amount of information, each of the GCR construction activities have been coded, corresponding to the final eight columns:

- A. Dust suppression
- B. Breaking of road surface
- C. Rolling and compacting
- D. Trenching
- E. Cutting concrete
- F. Tipping fill
- G. Compacting
- H. Tunnelling

Table 1: Calculated construction noise levels at each of the NSRs considered along the GCR

Eircode	Coordinates (ITM)		Dist. m	Construction noise level dB L _{Aeq, 8hour}							
	X	Y		A	B	C	D	E	F	G	H
F26 Y9YW	488525	821996	15	62	73	70	63	72	65	66	60
F26 C9Y2	486144	823129	16	62	73	70	63	72	65	66	60
F26 X0V8	486047	823169	16	62	73	70	63	72	65	66	60
F26 A8N4	486054	823167	16	62	73	70	63	72	65	66	60
F26 F2P9	486156	823147	16	62	73	70	63	72	65	66	60
F26 R2R8	486034	823175	16	62	73	70	63	72	65	66	60
F26 T8X0	486168	823145	16	62	73	70	63	72	65	66	60
F26 K0D2	486118	823154	16	62	73	70	63	72	65	66	60
F26 TF68	486168	823125	16	62	73	70	63	72	65	66	60
F26 T9W6	486143	823149	16	62	73	70	63	72	65	66	60
F26 E224	486210	823138	16	62	73	70	63	72	65	66	60
F26 X6X6	486022	823181	16	62	73	70	63	72	65	66	60
F26 V6X4	486224	823136	16	62	73	70	63	72	65	66	60
F26 H9K0	486156	823126	16	62	73	70	63	72	65	66	60
F26 E7R2	486236	823134	16	62	73	70	63	72	65	66	60
F26 HX26	486187	823143	16	62	73	70	63	72	65	66	60
F26 V4P8	486197	823119	16	62	73	70	63	72	65	66	60
F26 W9F2	485880	823259	17	62	73	70	63	72	65	66	60
F26 R6Y9	486222	823113	17	61	72	69	62	71	64	65	59
F26 H7N1	485839	823294	17	61	72	69	62	71	64	65	59
F26 E2Y4	486531	823075	17	61	72	69	62	71	64	65	59
F26 T8W5	485826	823305	17	61	72	69	62	71	64	65	59
F26 F9T3	485922	823224	17	61	72	69	62	71	64	65	59

Eircode	Coordinates (ITM)		Dist. m	Construction noise level dB L _{Aeq, 8hour}							
	X	Y		A	B	C	D	E	F	G	H
F26 R1W9	486354	823085	17	61	72	69	62	71	64	65	59
F26 R8P6	486342	823117	18	61	72	69	62	71	64	65	59
F26 H2D7	486361	823083	18	61	72	69	62	71	64	65	59
F26 E2T5	482281	823350	18	61	72	69	62	71	64	65	59
F26 N9E4	486374	823080	18	61	72	69	62	71	64	65	59
F26 H5C0	486076	823167	18	61	72	69	62	71	64	65	59
F26 Y886	486379	823110	18	61	72	69	62	71	64	65	59
F26 E8P3	486255	823136	19	61	72	69	62	71	64	65	59
F26 XR12	486178	823117	19	60	71	68	61	70	63	64	58
F26W2W8	485852	823276	19	60	71	68	61	70	63	64	58
F26 X4W5	487564	822957	19	60	71	68	61	70	63	64	58
F26 E9F3	479825	821487	20	60	71	68	61	70	63	64	58
F26 C7D7	486306	823129	20	60	71	68	61	70	63	64	58
F26 F2A3	485699	823284	20	60	71	68	61	70	63	64	58
F26 R8W7	486312	823128	20	60	71	68	61	70	63	64	58
F26 P4F1	485737	823326	22	59	70	67	60	69	62	63	57
F26 XEK0	486505	823045	22	59	70	67	60	69	62	63	57
F26 A0Y3	486646	823006	23	59	70	67	60	69	62	63	57
F26 X4X7	485952	823247	24	58	69	66	59	68	61	62	56
F26 X6X2	486476	823049	24	58	69	66	59	68	61	62	56
F26 H365	495412	820382	24	58	69	66	59	68	61	62	56
F26 X2P0	486274	823092	24	58	69	66	59	68	61	62	56
F26 XP27	478587	821637	25	58	69	66	59	68	61	62	56
F26 W571	487736	822686	25	58	69	66	59	68	61	62	56
F26 HY65	479848	821503	25	58	69	66	59	68	61	62	56
F26 N2P6	485664	823328	25	58	69	66	59	68	61	62	56
F26 E0X5	486049	823131	26	58	69	66	59	68	61	62	56
F26 D2Y1	485899	823293	26	58	69	66	59	68	61	62	56
F26 F8F5	493968	821452	26	58	69	66	59	68	61	62	56
F26 R7F4	485884	823306	26	58	69	66	59	68	61	62	56
F26 K7Y2	486032	823136	26	57	68	65	58	67	60	61	55
F26 X9F3	493963	821465	27	57	68	65	58	67	60	61	55
F26 K8X9	486431	823055	27	57	68	65	58	67	60	61	55
F26 H7X9	485987	823224	27	57	68	65	58	67	60	61	55
F26 K336	479789	821486	28	57	68	65	58	67	60	61	55
F26 X2P2	480018	821568	28	57	68	65	58	67	60	61	55
F26 F7X0	482239	823335	28	57	68	65	58	67	60	61	55
F26 XF66	488233	822094	29	57	68	65	58	67	60	61	55
F26 X3F6	485843	823348	30	56	67	64	57	66	59	60	54
F26 R1V7	486148	823169	30	56	67	64	57	66	59	60	54
F26 C3C5	484023	823071	30	56	67	64	57	66	59	60	54
F26 Y4E7	477988	821954	31	56	67	64	57	66	59	60	54
F26 C1H2	486010	823213	32	56	67	64	57	66	59	60	54

Eircode	Coordinates (ITM)		Dist. m	Construction noise level dB L _{Aeq, 8hour}							
	X	Y		A	B	C	D	E	F	G	H
F26 X7W5	485969	823245	32	56	67	64	57	66	59	60	54
F26 H9C2	478069	821882	32	56	67	64	57	66	59	60	54
F26 C599	486124	823177	33	55	66	63	56	65	58	59	53
F26 X4Y7	486348	823066	33	55	66	63	56	65	58	59	53
F26 R2F9	485871	823329	33	55	66	63	56	65	58	59	53
F26 V1H7	486311	823073	34	55	66	63	56	65	58	59	53
F26 W2X0	485782	823275	34	55	66	63	56	65	58	59	53
F26 N9W9	479369	821359	34	55	66	63	56	65	58	59	53
F26 R927	486412	823124	34	55	66	63	56	65	58	59	53
F26 PK28	479604	821424	34	55	66	63	56	65	58	59	53
F26 T8F7	477842	822082	34	55	66	63	56	65	58	59	53
F26 A8R5	485699	823267	35	55	66	63	56	65	58	59	53
F26 AW27	486142	823102	35	55	66	63	56	65	58	59	53
F26 K1W8	486605	823080	35	55	66	63	56	65	58	59	53
F26 A9D9	486315	823146	36	55	66	63	56	65	58	59	53
F26 F8C1	486645	822990	36	55	66	63	56	65	58	59	53
F26 F5TF	478046	821911	36	55	66	63	56	65	58	59	53
F26 H6D6	478203	821780	36	55	66	63	56	65	58	59	53
F26 N8CT	486503	823029	36	55	66	63	56	65	58	59	53
F26 T9X7	487835	822582	36	54	65	62	55	64	57	58	52
F26 A5Y0	486308	823070	36	54	65	62	55	64	57	58	52
F26 D2K2	486561	823095	38	54	65	62	55	64	57	58	52
F26 F6C8	479559	821412	38	54	65	62	55	64	57	58	52
F26 X2E1	485825	823269	38	54	65	62	55	64	57	58	52
F26 Y9T8	479457	821378	38	54	65	62	55	64	57	58	52
F26 DP08	493909	821591	39	54	65	62	55	64	57	58	52
F26 Y5W0	486432	823040	40	53	64	61	54	63	56	57	51
F26 W8N6	486474	823030	41	53	64	61	54	63	56	57	51
F26 H5F7	486335	823060	41	53	64	61	54	63	56	57	51
F26 D6F2	486328	823060	42	53	64	61	54	63	56	57	51
F26 K8Y0	486319	823152	42	53	64	61	54	63	56	57	51
F26 XE0A	479409	821370	42	53	64	61	54	63	56	57	51
F26 E4A9	480179	821644	42	53	64	61	54	63	56	57	51
F26 V8Y2	479501	821396	42	53	64	61	54	63	56	57	51
F26 CF80	496691	820197	43	53	64	61	54	63	56	57	51
F26 A6P3	489144	821571	43	53	64	61	54	63	56	57	51
F26 C5T8	486524	823109	43	53	64	61	54	63	56	57	51
F26 PT9W	486302	823064	43	53	64	61	54	63	56	57	51
F26 C2R3	479221	821379	44	53	64	61	54	63	56	57	51
F26 NN97	486143	823091	45	52	63	60	53	62	55	56	50
F26 W5F7	486368	823146	46	52	63	60	53	62	55	56	50
F26 E3YT	478974	821393	47	52	63	60	53	62	55	56	50
F26 W6V2	485704	823252	48	52	63	60	53	62	55	56	50

Eircode	Coordinates (ITM)		Dist. m	Construction noise level dB L _{Aeq, 8hour}							
	X	Y		A	B	C	D	E	F	G	H
F26 V9W6	486498	823121	49	52	63	60	53	62	55	56	50
F26 A3E5	485745	823254	49	52	63	60	53	62	55	56	50
F26 V4F8	486065	823101	49	52	63	60	53	62	55	56	50
F26 R668	488251	822060	50	51	62	59	52	61	54	55	49
F26 D2P4	486105	823092	50	51	62	59	52	61	54	55	49
F26 W5N0	486630	822978	50	51	62	59	52	61	54	55	49
F26 WP60	493868	821504	51	51	62	59	52	61	54	55	49
F26 C6Y5	485810	823264	51	51	62	59	52	61	54	55	49
F26 H6P1	481636	822959	52	51	62	59	52	61	54	55	49
F26 D7X4	486127	823198	52	51	62	59	52	61	54	55	49
F26 F9F7	486115	823200	52	51	62	59	52	61	54	55	49
F26 X9X8	486369	823153	52	51	62	59	52	61	54	55	49
F26 NYT2	478401	821727	53	51	62	59	52	61	54	55	49
F26 E2C3	486613	822980	54	51	62	59	52	61	54	55	49
F26 Y757	486263	823060	54	51	62	59	52	61	54	55	49
F26 H4X9	486431	823025	54	51	62	59	52	61	54	55	49
F26 X8H0	486313	823167	55	51	62	59	52	61	54	55	49
F26 K5R6	485672	823361	55	50	61	58	51	60	53	54	48
F26 R2E4	485680	823361	55	50	61	58	51	60	53	54	48
F26 E9K5	485697	823362	56	50	61	58	51	60	53	54	48
F26 C2X4	486158	823196	56	50	61	58	51	60	53	54	48
F26 P5P9	485689	823362	56	50	61	58	51	60	53	54	48
F26 W9Y9	485706	823362	56	50	61	58	51	60	53	54	48
F26 E7D4	485714	823362	56	50	61	58	51	60	53	54	48
F26 W2T8	486598	822983	56	50	61	58	51	60	53	54	48
F26 X3T0	486582	822985	58	50	61	58	51	60	53	54	48
F26 X2YX	479304	821388	59	50	61	58	51	60	53	54	48
F26 D6V6	487641	822913	59	50	61	58	51	60	53	54	48
F26 N6W6	485794	823250	59	50	61	58	51	60	53	54	48
F26 N4C6	478432	821724	60	50	61	58	51	60	53	54	48
F26 V5X8	485757	823243	60	50	61	58	51	60	53	54	48
F26 K3HN	492773	821867	61	49	60	57	50	59	52	53	47
F26 V9H2	486376	823160	61	49	60	57	50	59	52	53	47
F26 K8K7	486568	822986	61	49	60	57	50	59	52	53	47
F26 X9Y2	486314	823174	61	49	60	57	50	59	52	53	47
F26 D9F3	486553	822988	63	49	60	57	50	59	52	53	47
F26 A4X0	486030	823095	63	49	60	57	50	59	52	53	47
F26 FH32	488270	822033	64	49	60	57	50	59	52	53	47
F26 D1W4	478269	821784	65	49	60	57	50	59	52	53	47
F26 P2R0	486537	822989	66	49	60	57	50	59	52	53	47
F26 NX03	492090	822040	66	49	60	57	50	59	52	53	47
F26 A6N2	486107	823217	67	49	60	57	50	59	52	53	47
F26 H9F7	478467	821721	67	49	60	57	50	59	52	53	47

Eircode	Coordinates (ITM)		Dist. m	Construction noise level dB L _{Aeq, 8hour}							
	X	Y		A	B	C	D	E	F	G	H
F26 C2F3	486378	823167	68	48	59	56	49	58	51	52	46
F26 E2R9	486522	822990	68	48	59	56	49	58	51	52	46
F26 N7N3	486339	823177	70	48	59	56	49	58	51	52	46
F26 Y7P8	486344	823176	70	48	59	56	49	58	51	52	46
F26 D8E2	485694	823229	70	48	59	56	49	58	51	52	46
F26 H6K8	486432	823007	71	48	59	56	49	58	51	52	46
F26 K2H2	486506	822990	71	48	59	56	49	58	51	52	46
F26 E3V2	486023	823087	73	48	59	56	49	58	51	52	46
F26 F6X0	486331	823182	73	48	59	56	49	58	51	52	46
F26 E2D6	486323	823185	74	48	59	56	49	58	51	52	46
F26 PHX3	485958	823315	76	47	58	55	48	57	50	51	45
F26 E5F3	486490	822988	76	47	58	55	48	57	50	51	45
F26 VC58	486280	823030	80	47	58	55	48	57	50	51	45
F26 X7K4	486475	822987	81	47	58	55	48	57	50	51	45
F26 W5F9	486113	823231	82	47	58	55	48	57	50	51	45
F26 H7R0	486442	822993	82	47	58	55	48	57	50	51	45
F26 C7Y0	485739	823217	84	46	57	54	47	56	49	50	44
F26 N2Y8	486458	822987	84	46	57	54	47	56	49	50	44
F26 V3W6	486149	823047	86	46	57	54	47	56	49	50	44
F26 KD26	482792	823263	89	46	57	54	47	56	49	50	44
F26 P2N2	486170	823228	89	46	57	54	47	56	49	50	44
F26 V8P5	486347	823197	91	46	57	54	47	56	49	50	44
F26 F6H9	488280	821993	94	45	56	53	46	55	48	49	43
F26 E3Y0	486121	823245	97	45	56	53	46	55	48	49	43
F26 P6A0	486348	823205	98	45	56	53	46	55	48	49	43
F26 X4E3	486013	823062	99	45	56	53	46	55	48	49	43
F26 X3K0	485738	823200	100	45	56	53	46	55	48	49	43
F26 PN8R	485777	823424	104	44	55	52	45	54	47	48	42
F26 H5C6	486012	823052	108	44	55	52	45	54	47	48	42
F26 Y3E7	486174	823250	110	44	55	52	45	54	47	48	42
F26 WD59	486282	822998	111	44	55	52	45	54	47	48	42
F26 A9Y8	486341	823220	112	44	55	52	45	54	47	48	42
F26 Y5V6	486336	823222	112	44	55	52	45	54	47	48	42
F26 XH67	480187	821723	112	44	55	52	45	54	47	48	42
F26 P7F3	486328	823227	115	43	54	51	44	53	46	47	41
F26 D5W5	486322	823229	116	43	54	51	44	53	46	47	41
F26 TF25	485864	823131	118	43	54	51	44	53	46	47	41
F26 Y6F3	486129	823266	118	43	54	51	44	53	46	47	41
F26 R2T1	486224	823000	119	43	54	51	44	53	46	47	41
F26 F8P3	486084	823016	127	42	53	50	43	52	45	46	40
F26 F9W9	486013	823032	128	42	53	50	43	52	45	46	40
F26 CT93	488294	821943	131	42	53	50	43	52	45	46	40
F26 A2A0	486058	823016	132	42	53	50	43	52	45	46	40

Eircode	Coordinates (ITM)		Dist. m	Construction noise level dB L _{Aeq, 8hour}							
	X	Y		A	B	C	D	E	F	G	H
F26 A3F1	486048	823017	133	42	53	50	43	52	45	46	40
F26 P9F3	485931	823413	133	42	53	50	43	52	45	46	40
F26 P9X9	485871	823104	134	42	53	50	43	52	45	46	40
F26 DY2W	486183	823272	134	42	53	50	43	52	45	46	40
F26 E0C2	486017	823024	134	42	53	50	43	52	45	46	40
F26 DF89	485775	823457	134	42	53	50	43	52	45	46	40
F26 X5C1	485821	823145	135	42	53	50	43	52	45	46	40
F26 N6C6	486404	823232	136	42	53	50	43	52	45	46	40
F26 W8C2	486398	823233	136	42	53	50	43	52	45	46	40
F26 E2W2	485981	823375	137	42	53	50	43	52	45	46	40
F26 P9W7	486117	822998	139	41	52	49	42	51	44	45	39
F26 T270	486182	822987	140	41	52	49	42	51	44	45	39
F26 X4K7	486325	823254	140	41	52	49	42	51	44	45	39
F26 F9D2	493351	821833	143	41	52	49	42	51	44	45	39
F26 AX60	479482	821498	143	41	52	49	42	51	44	45	39
F26 V9Y8	485713	823156	143	41	52	49	42	51	44	45	39
F26 P5W4	486390	823243	144	41	52	49	42	51	44	45	39
F26 F1P3	486385	823245	145	41	52	49	42	51	44	45	39
F26 C2C6	486119	822991	146	41	52	49	42	51	44	45	39
F26 V2F8	486325	823260	146	41	52	49	42	51	44	45	39