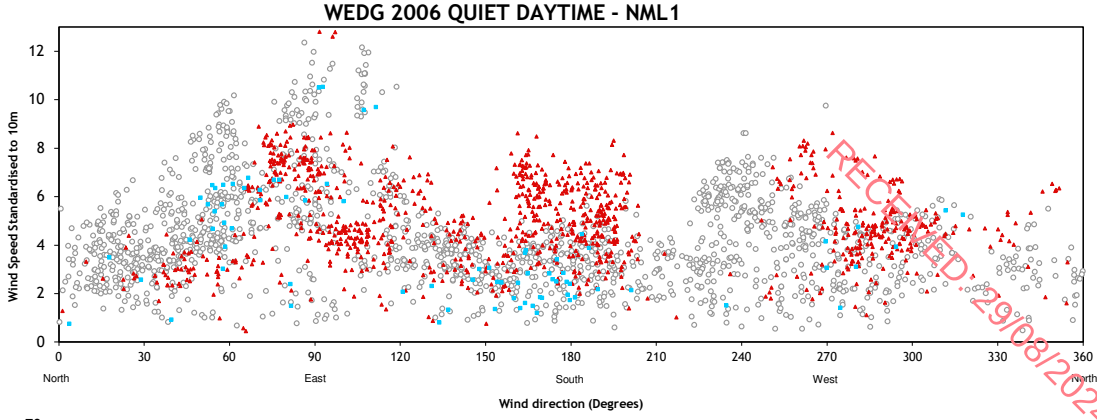
APPENDIX 12-2b

WIND TURBINE OPERATIONAL NOISE REPORT

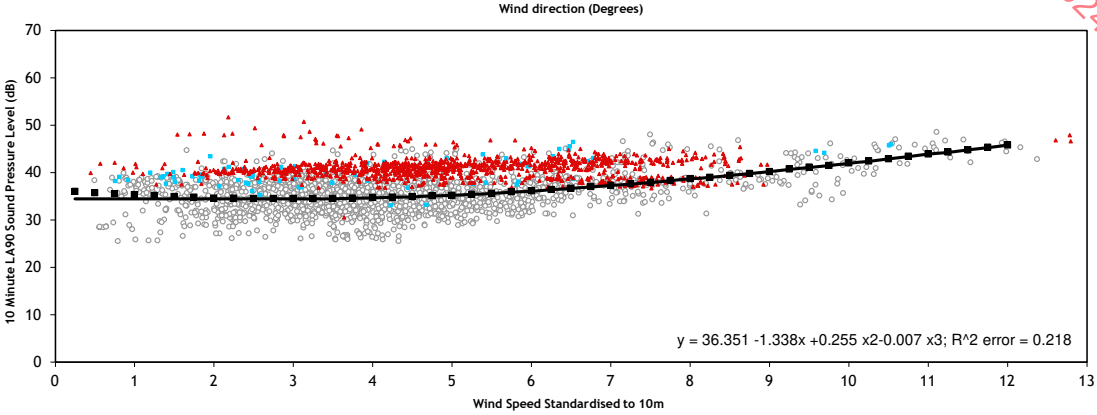
Annex 2 – Field Data Sheets / Installation Report

WEDG 2006 QUIET DAYTIME - NML1

Wind Conditions Quiet Daytime



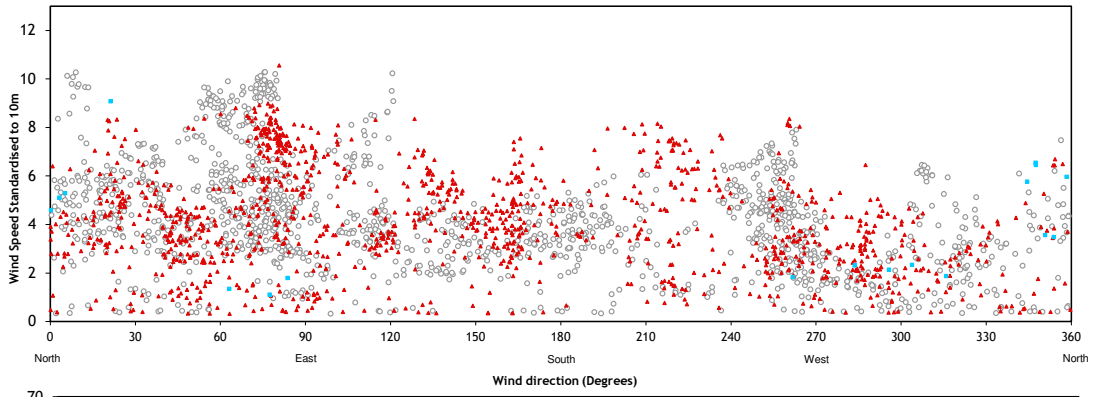
Regression Analysis Quiet Daytime



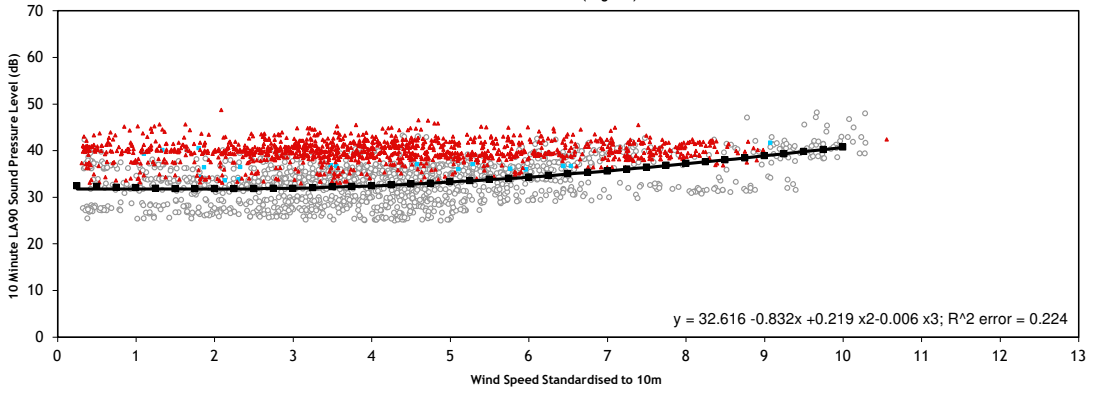
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	218	375	394	260	175	80	41	38	28	15	6	1630
Prevailing Background	34.5	34.5	34.7	35.2	36.1	37.3	38.7	40.2	42	43.9	45.8	

WEDG 2006 NIGHT-TIME - NML1

Wind Conditions Night-Time



Regression Analysis Night-Time



Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	150	283	317	233	157	77	42	50	36	0	0	1345
Prevailing Background	31.8	31.9	32.4	33.3	34.3	35.6	37.2	38.9	40.7	-	-	

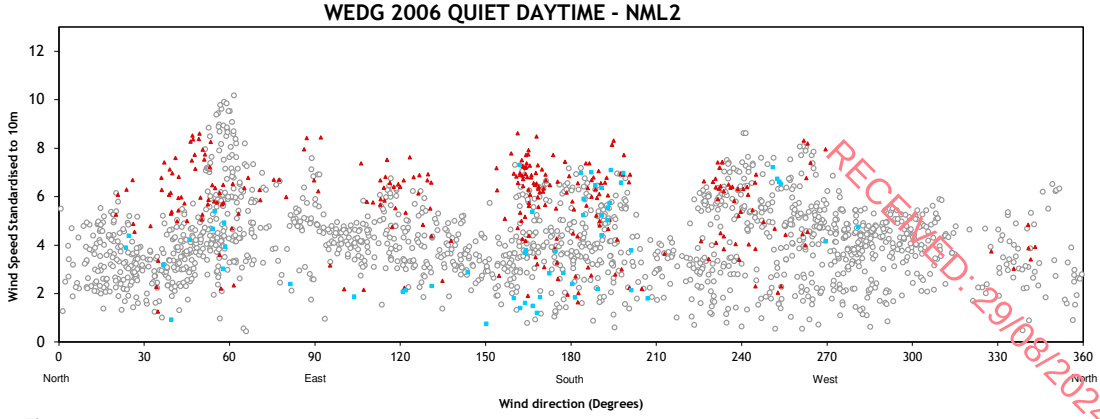
Legend:

- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

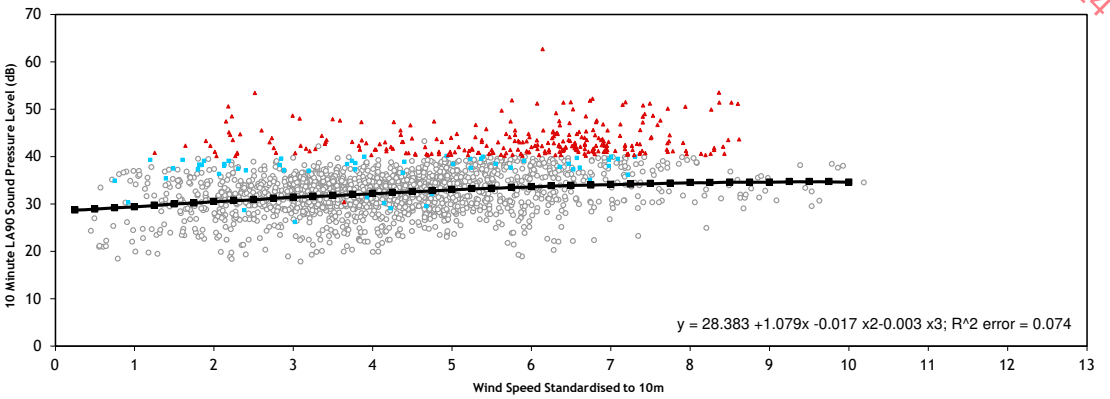
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2a
Drawn	MR
Checked	AD
Date	17/05/2024
Document Reference	IE00101 - Models

WEDG 2006 QUIET DAYTIME - NML2

Wind Conditions Quiet Daytime



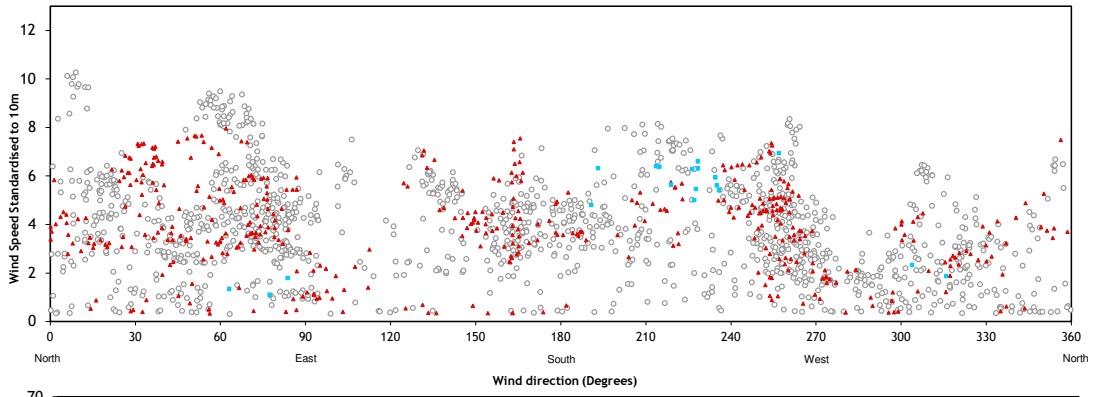
Regression Analysis Quiet Daytime



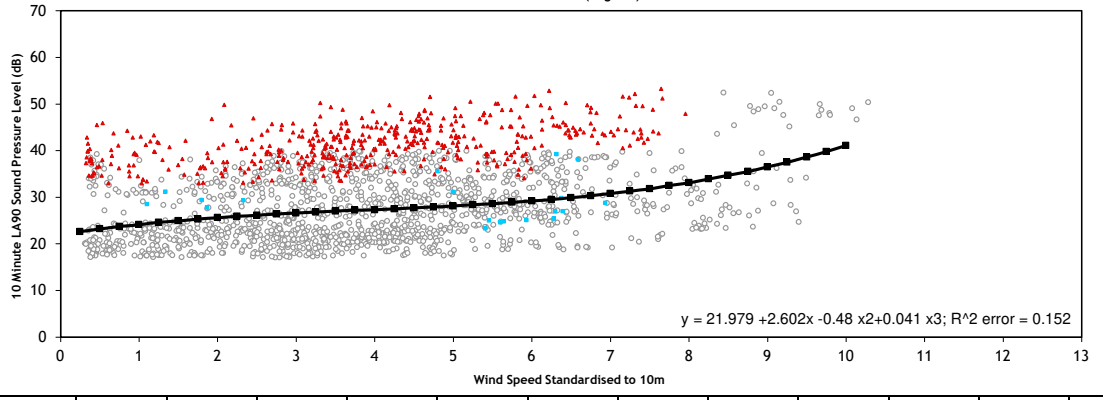
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	182	353	439	356	189	69	26	16	7	0	0	1637
Prevailing Background	30.5	31.4	32.2	33	33.6	34.1	34.5	34.6	34.6	-	-	

WEDG 2006 NIGHT-TIME - NML2

Wind Conditions Night-Time



Regression Analysis Night-Time



Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	172	276	254	205	152	56	44	27	8	0	0	1194
Prevailing Background	25.6	26.6	27.3	28.1	29.2	30.8	33.1	36.5	41.1	-	-	

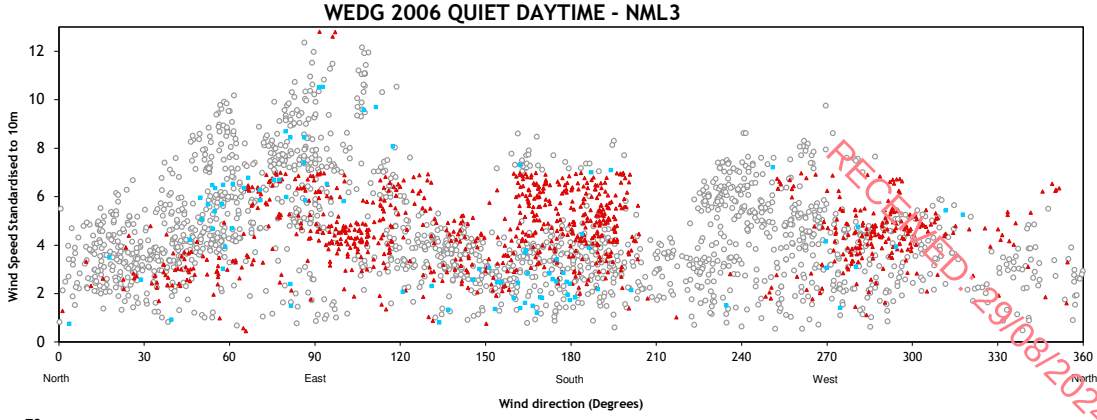
Legend:

- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

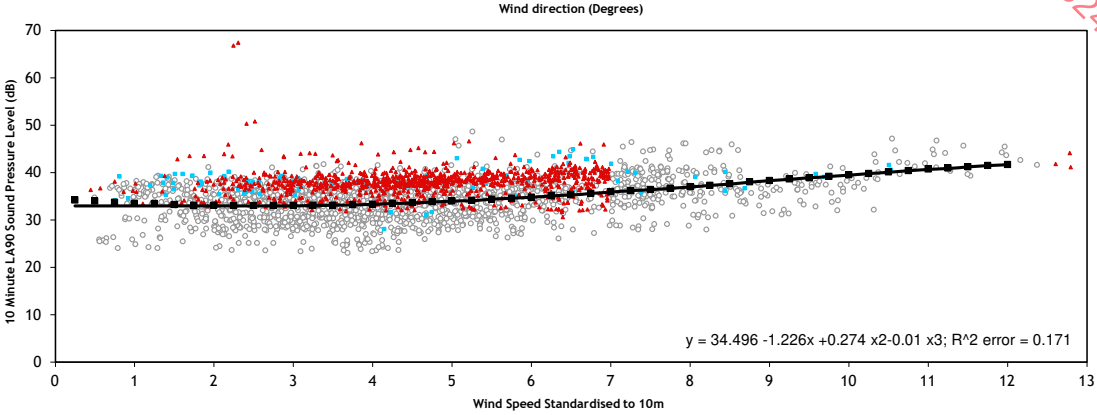
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2b
Drawn	MR
Checked	AD
Date	07/05/2024
Document Reference	IE00101 - Models

WEDG 2006 QUIET DAYTIME - NML3

Wind Conditions Quiet Daytime



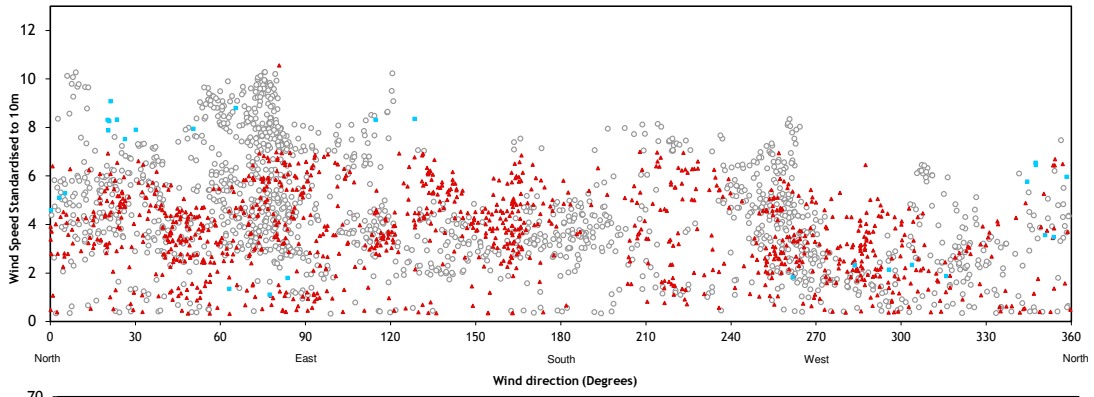
Regression Analysis Quiet Daytime



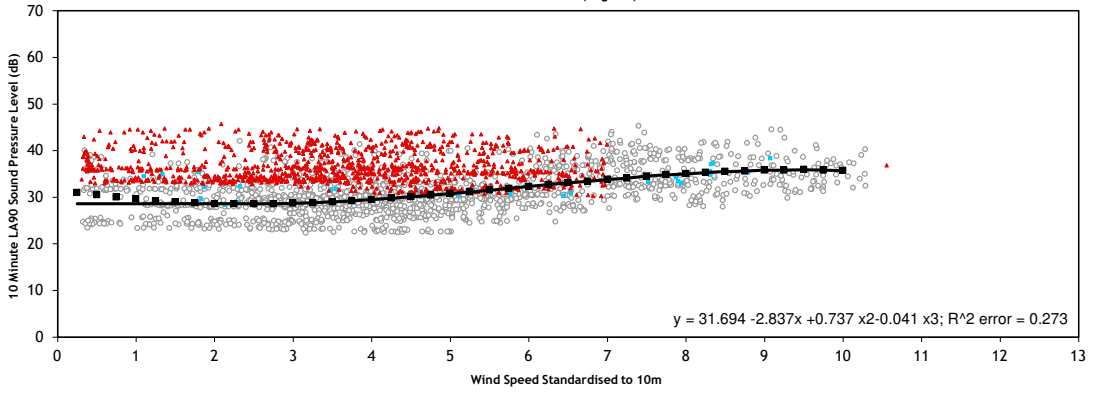
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	215	378	401	262	175	134	108	47	28	15	6	1769
Prevailing Background	33	33	33.3	34	34.8	35.9	37	38.3	39.5	40.7	41.7	

WEDG 2006 NIGHT-TIME - NML3

Wind Conditions Night-Time



Regression Analysis Night-Time



Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	152	286	319	227	157	139	114	60	36	0	0	1490
Prevailing Background	28.6	28.7	29.5	30.8	32.3	33.8	35	35.8	35.7	-	-	

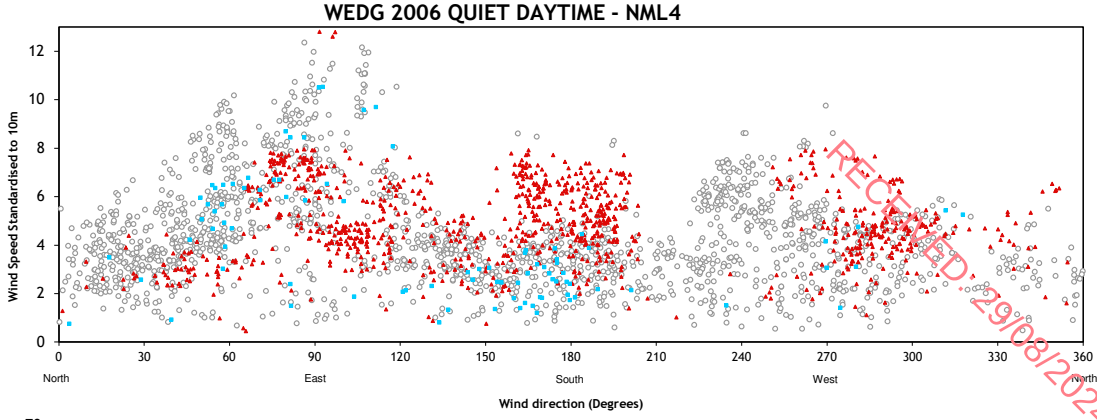
Legend:

- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

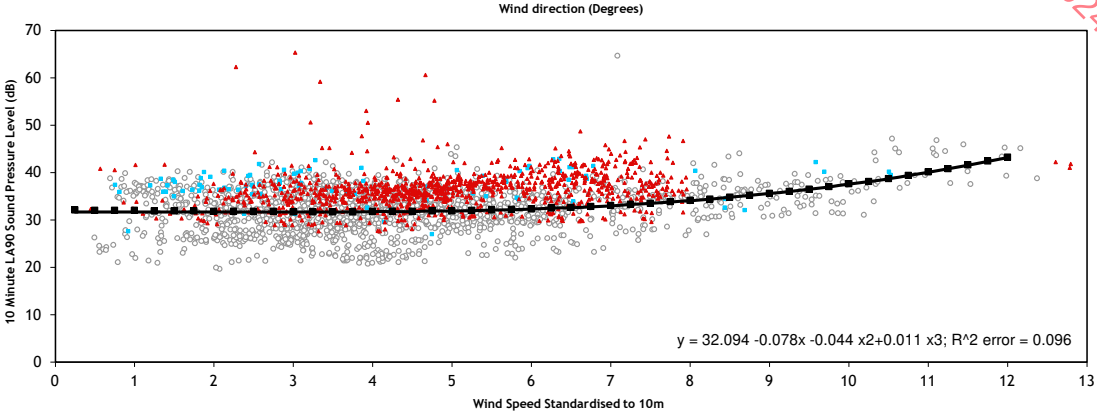
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2c
Drawn	MR
Checked	AD
Date	17/05/2024
Document Reference	IE00101 - Models

WEDG 2006 QUIET DAYTIME - NML4

Wind Conditions Quiet Daytime



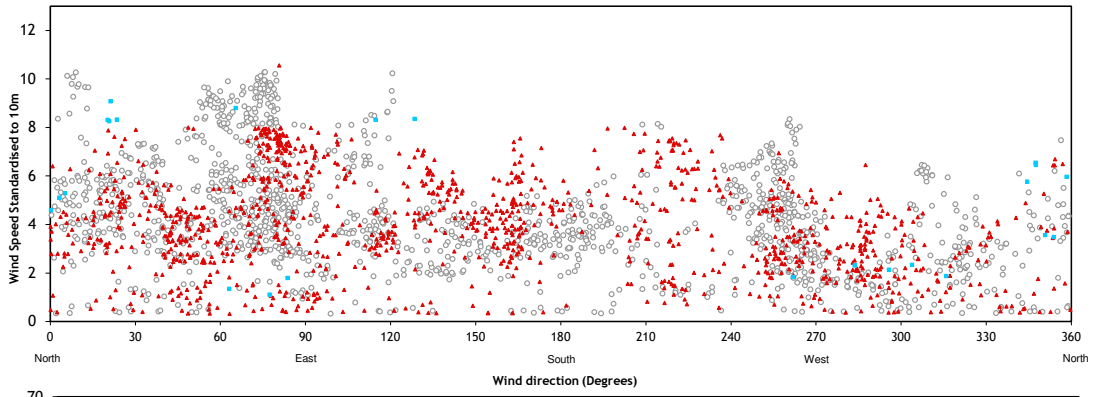
Regression Analysis Quiet Daytime



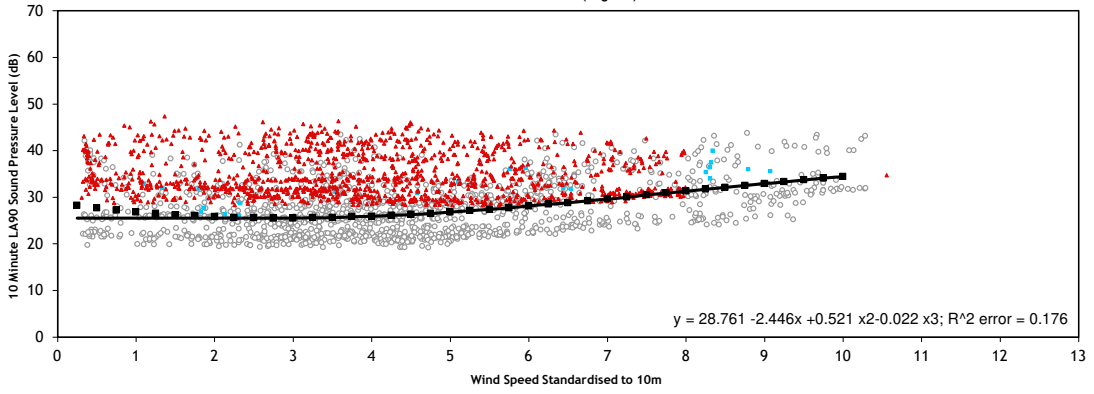
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	221	377	399	260	174	80	67	47	28	15	6	1674
Prevailing Background	31.7	31.7	31.8	31.9	32.3	33	34.1	35.6	37.6	40.1	43.2	

WEDG 2006 NIGHT-TIME - NML4

Wind Conditions Night-Time



Regression Analysis Night-Time



Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	149	286	318	226	157	77	69	60	36	0	0	1378
Prevailing Background	25.5	25.5	25.9	26.8	28.1	29.6	31.3	32.9	34.4	-	-	

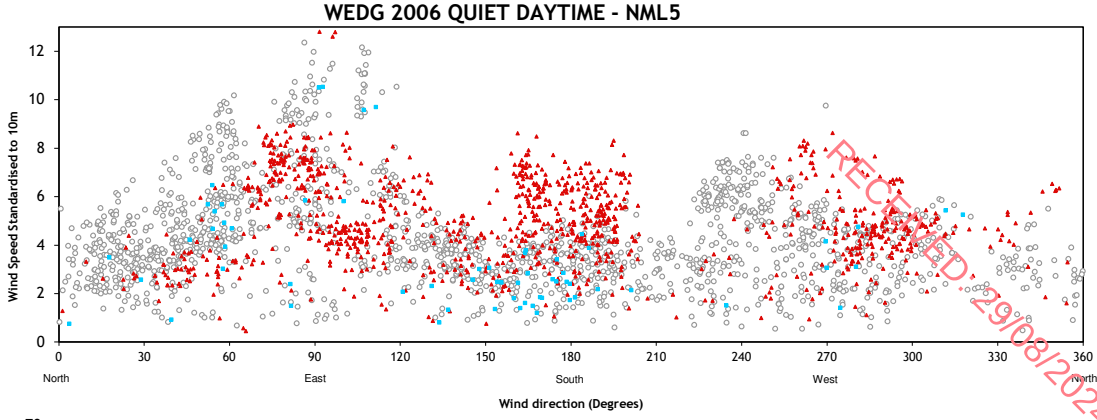
Legend:

- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

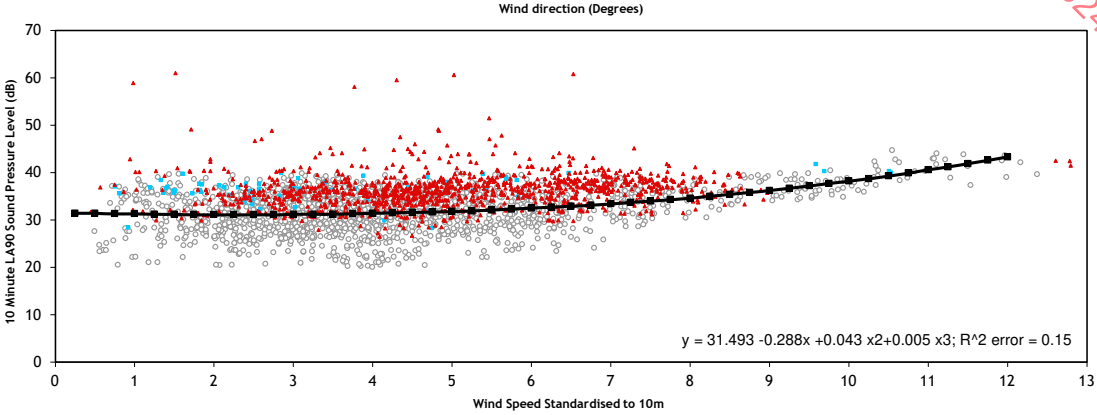
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2d
Drawn	MR
Checked	AD
Date	17/05/2024
Document Reference	IE00101 - Models

WEDG 2006 QUIET DAYTIME - NML5

Wind Conditions Quiet Daytime



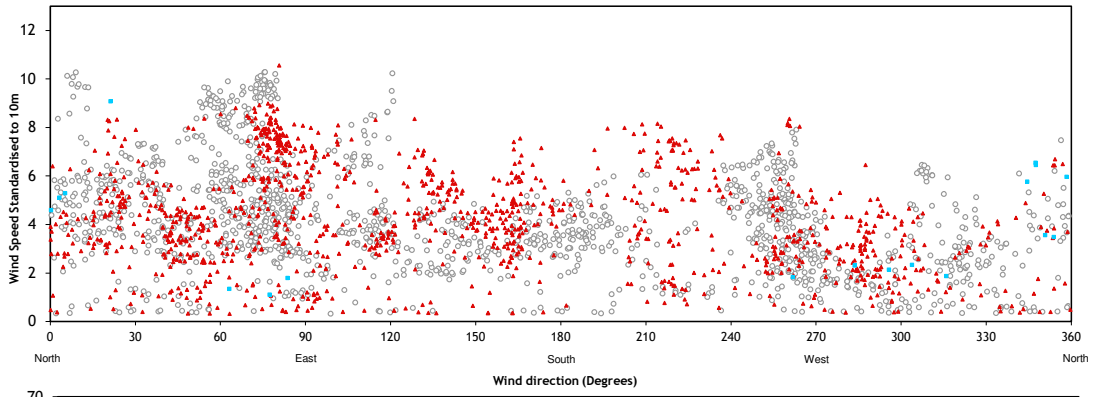
Regression Analysis Quiet Daytime



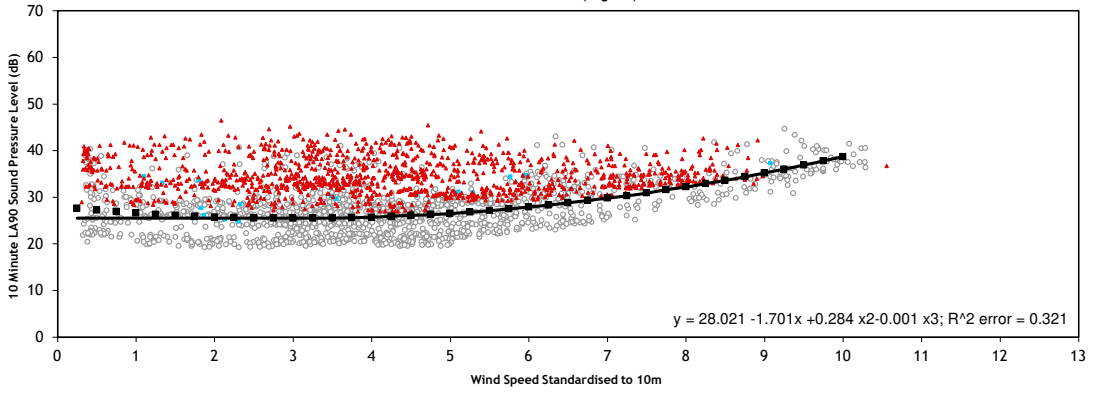
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	214	374	398	248	173	80	41	38	28	15	6	1615
Prevailing Background	31.1	31.2	31.4	31.8	32.5	33.4	34.6	36.2	38.2	40.6	43.3	

WEDG 2006 NIGHT-TIME - NML5

Wind Conditions Night-Time



Regression Analysis Night-Time



Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	165	298	326	234	158	77	42	50	36	0	0	1386
Prevailing Background	25.5	25.5	25.7	26.5	27.9	29.8	32.2	35.2	38.7	-	-	

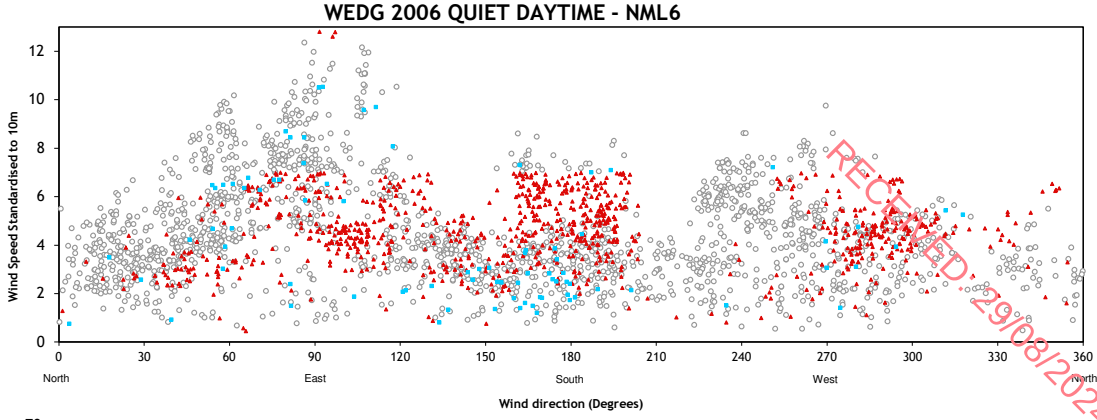
Legend:

- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

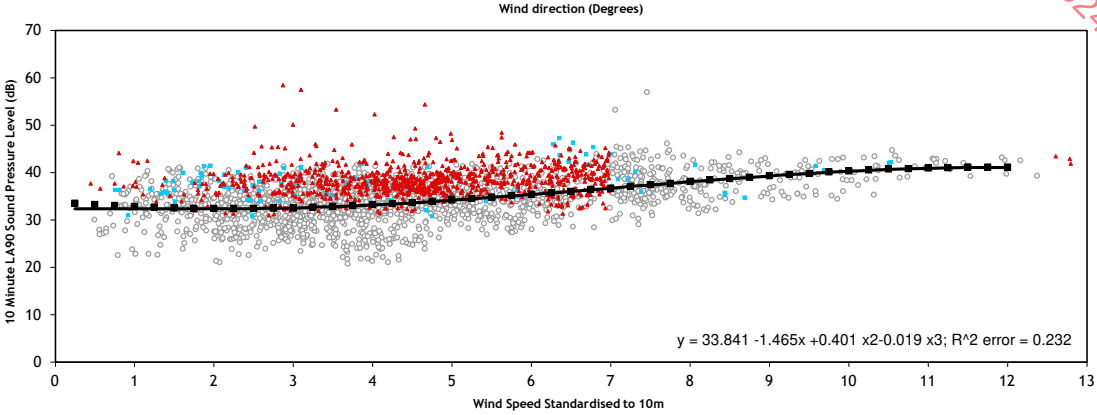
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2e
Drawn	MR
Checked	AD
Date	17/05/2024
Document Reference	IE00101 - Models

WEDG 2006 QUIET DAYTIME - NML6

Wind Conditions Quiet Daytime



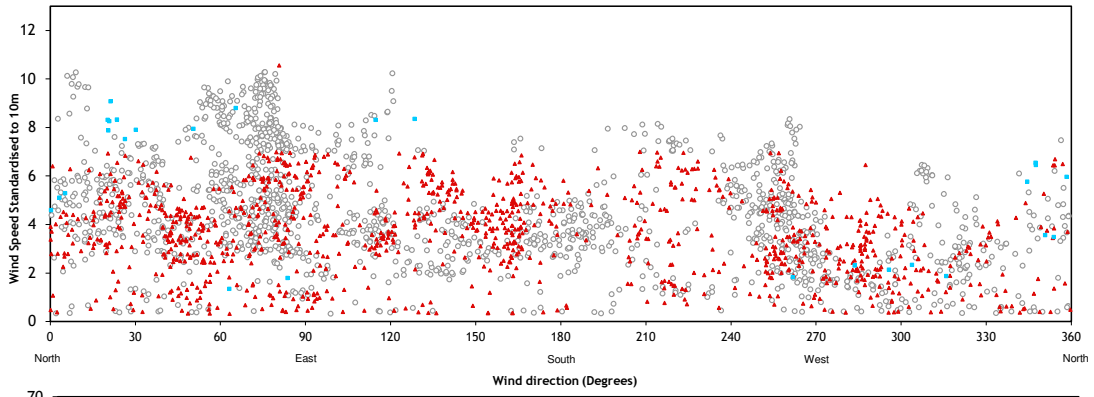
Regression Analysis Quiet Daytime



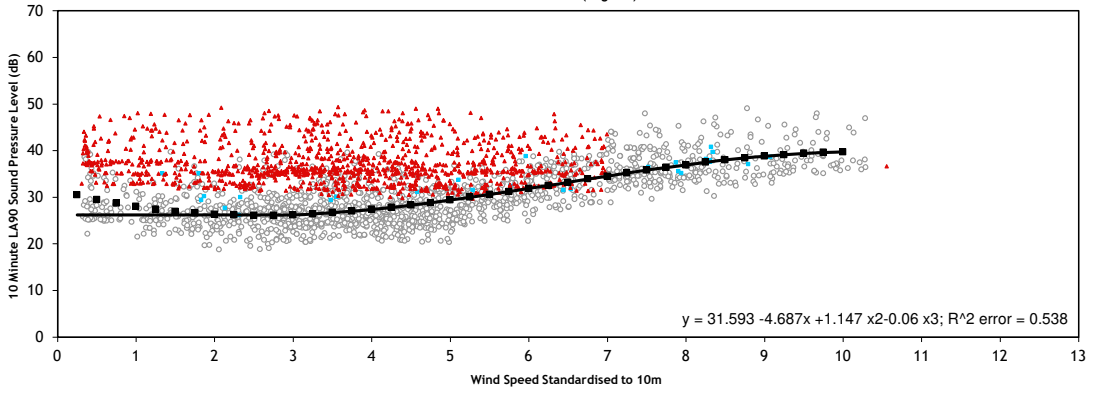
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	222	374	402	260	172	134	108	47	28	15	6	1768
Prevailing Background	32.4	32.5	33.2	34.2	35.4	36.7	38.1	39.3	40.3	40.9	41.1	

WEDG 2006 NIGHT-TIME - NML6

Wind Conditions Night-Time



Regression Analysis Night-Time



Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	147	282	315	227	153	135	114	60	36	0	0	1469
Prevailing Background	26.2	26.2	27.4	29.4	31.9	34.5	36.9	38.8	39.7	-	-	

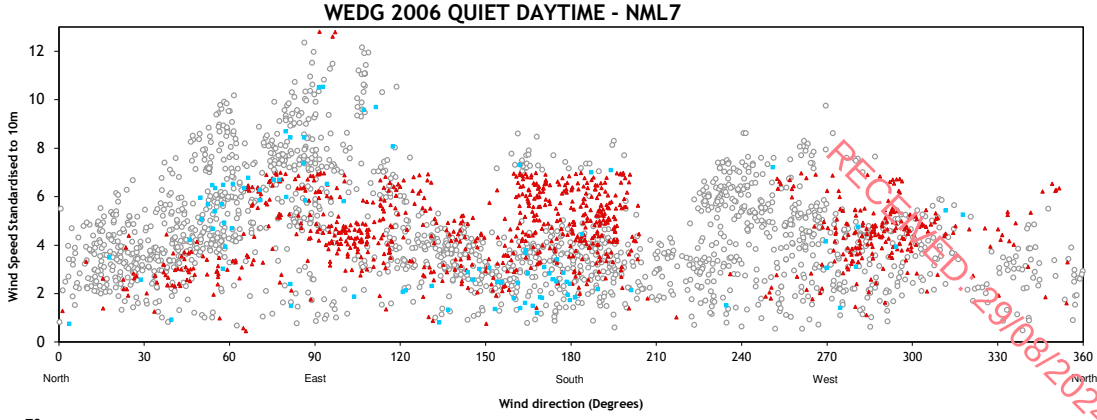
Legend:

- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

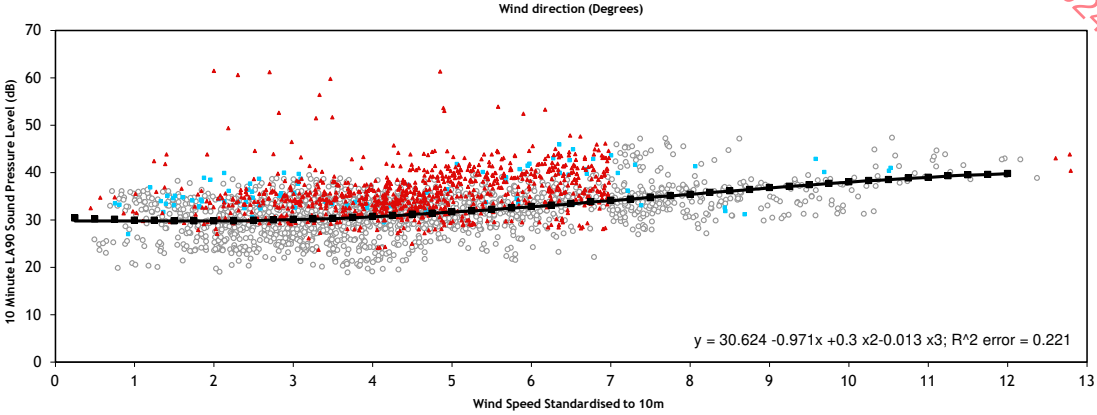
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2f
Drawn	MR
Checked	AD
Date	17/05/2024
Document Reference	IE00101 - Models

WEDG 2006 QUIET DAYTIME - NML7

Wind Conditions Quiet Daytime



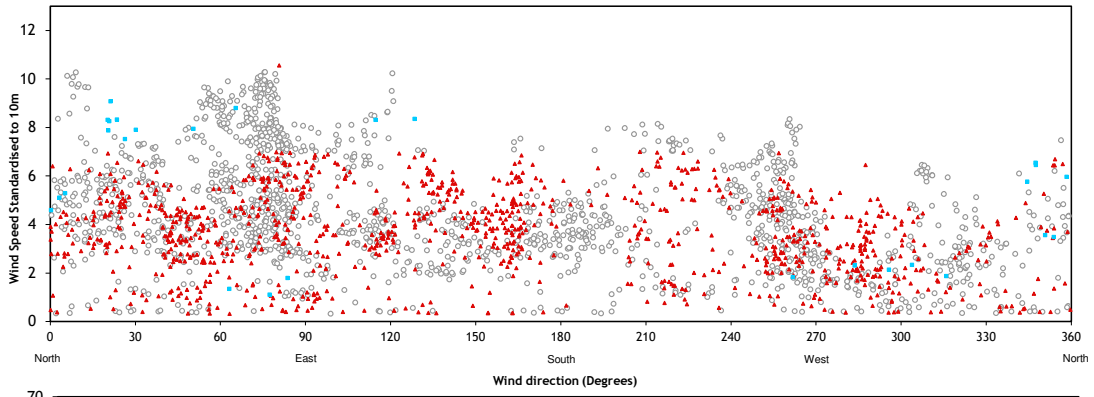
Regression Analysis Quiet Daytime



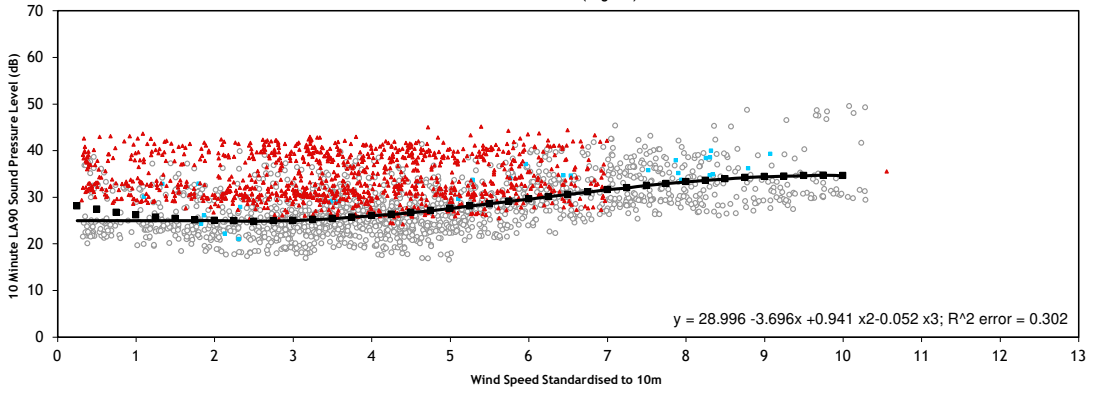
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	218	374	405	265	174	134	108	47	28	15	6	1774
Prevailing Background	29.8	30.1	30.7	31.7	32.8	34.1	35.4	36.8	38	39	39.8	

WEDG 2006 NIGHT-TIME - NML7

Wind Conditions Night-Time



Regression Analysis Night-Time



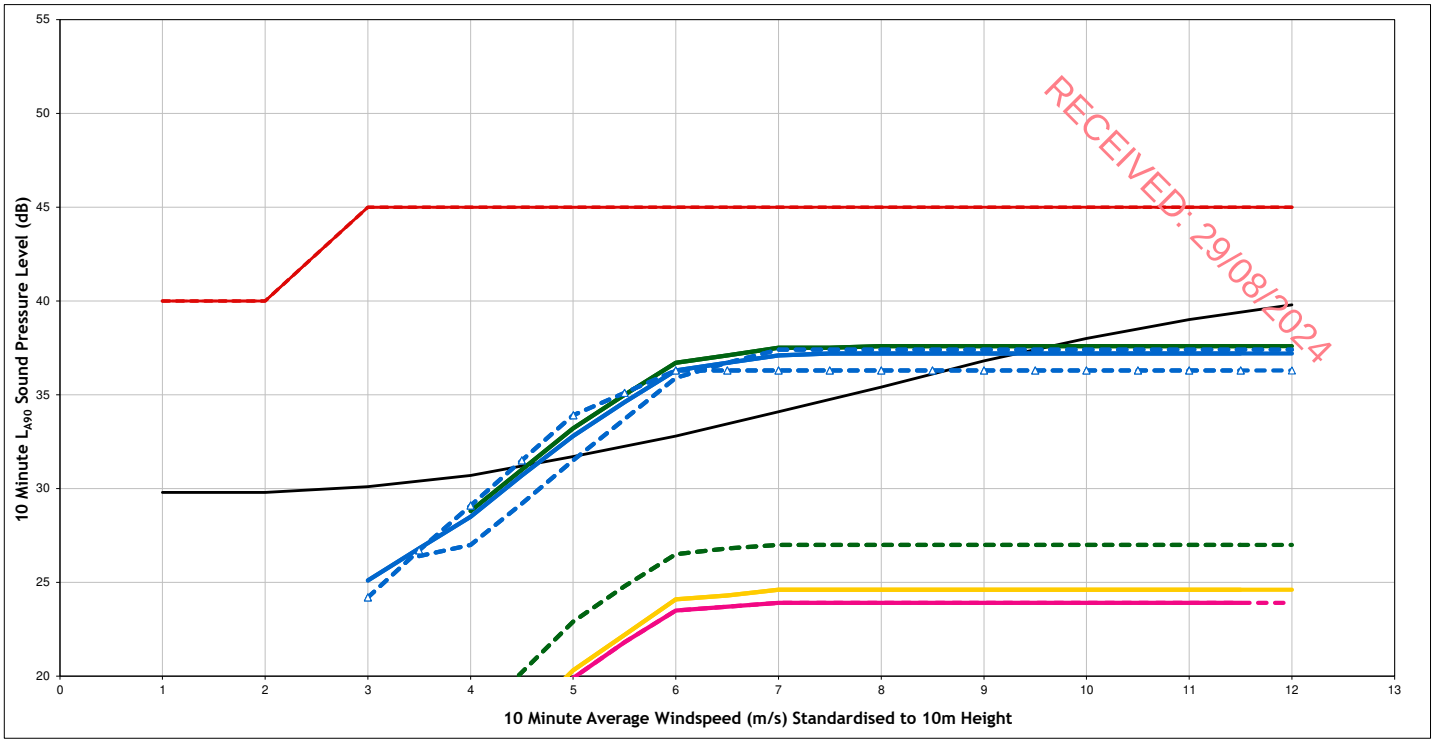
Wind Speed (m/s)	2	3	4	5	6	7	8	9	10	11	12	Total
Number of data points	158	288	325	231	157	139	114	60	36	0	0	1508
Prevailing Background	25	25	26	27.6	29.6	31.6	33.3	34.4	34.6	-	-	

Legend:

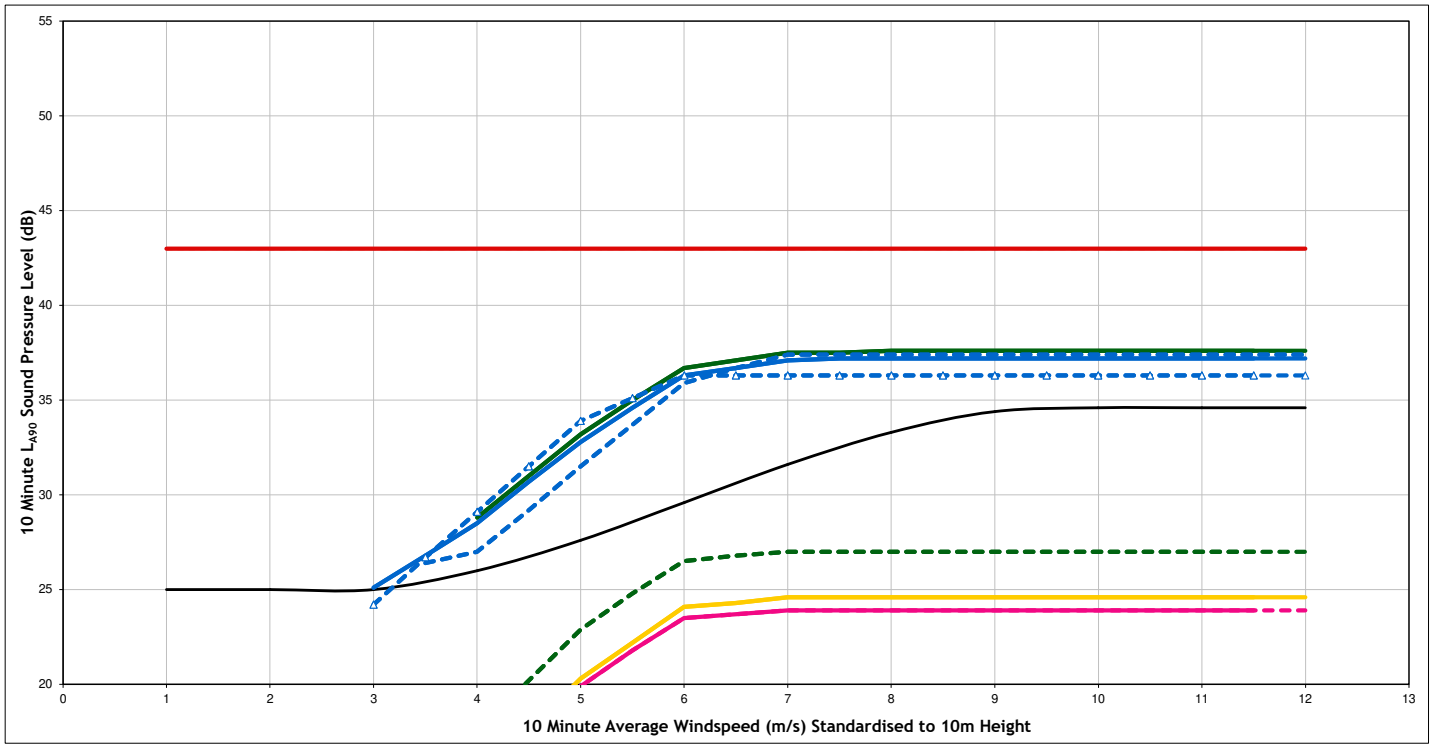
- L_{A90} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Wind Conditions&Regression Analysis
Figure Number	A1.2g
Drawn	MR
Checked	AD
Date	17/05/2024
Document Reference	IE00101 - Models

Daytime - NAL1 - NSR10



Night Time - NAL1 - NSR10



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL1 - NSR10
Figure Number	Figure A1.3a
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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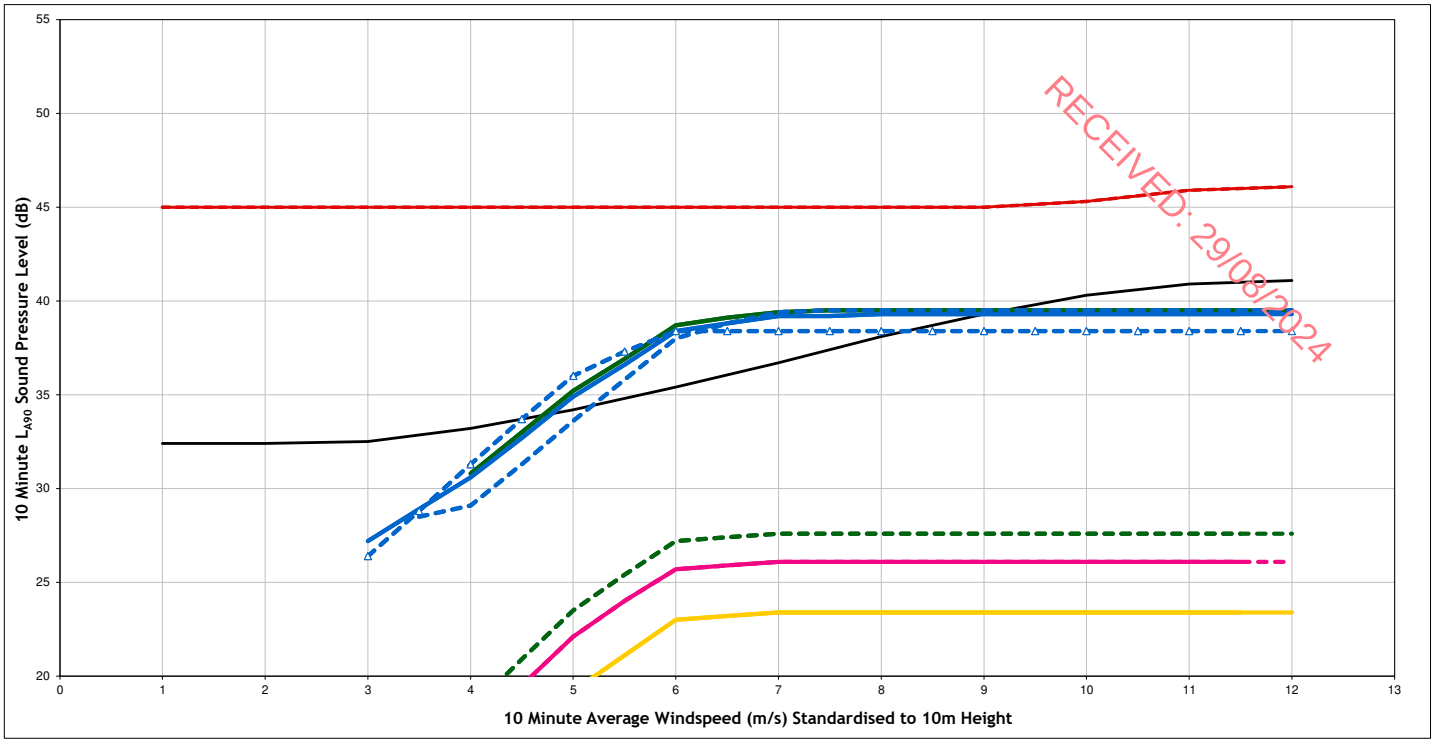
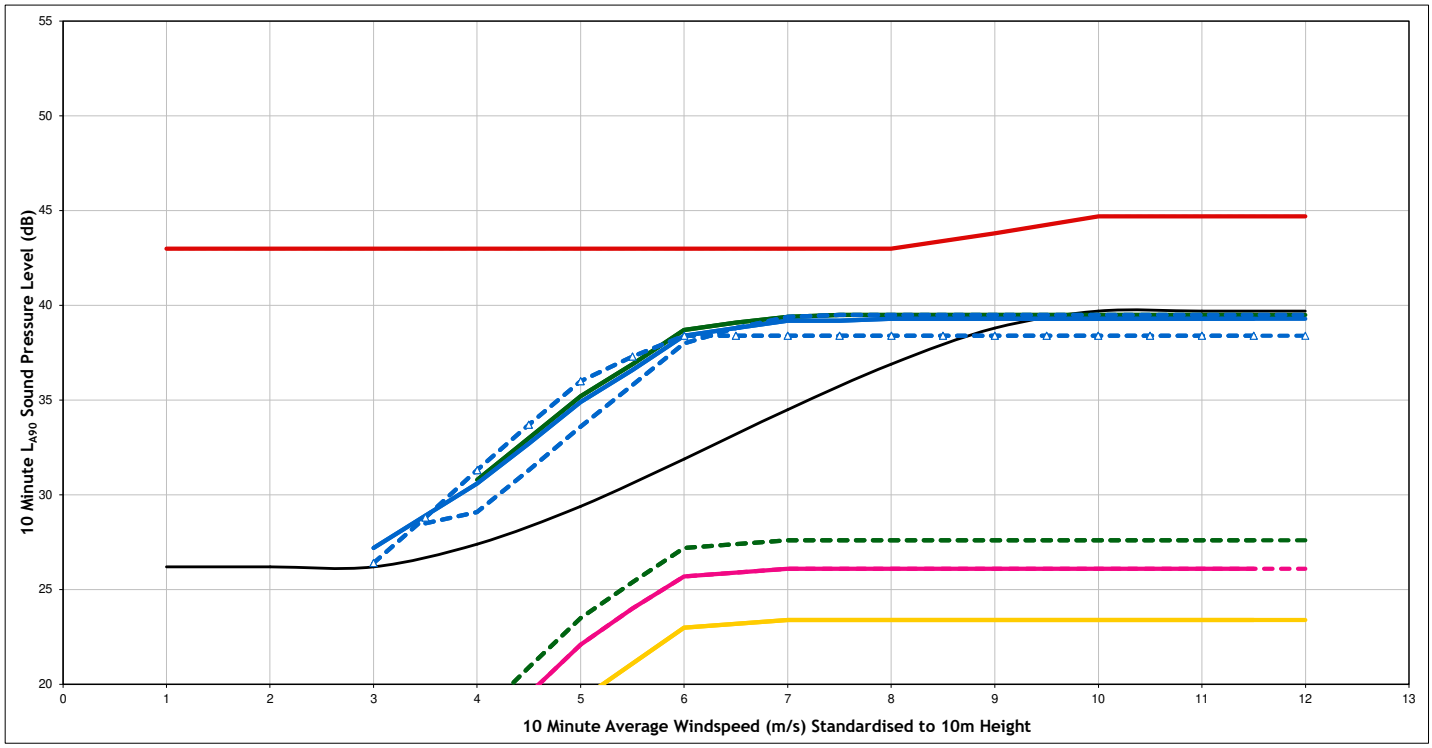
Daytime - NAL2 - NSR2



Night Time - NAL2 - NSR2



Legend:

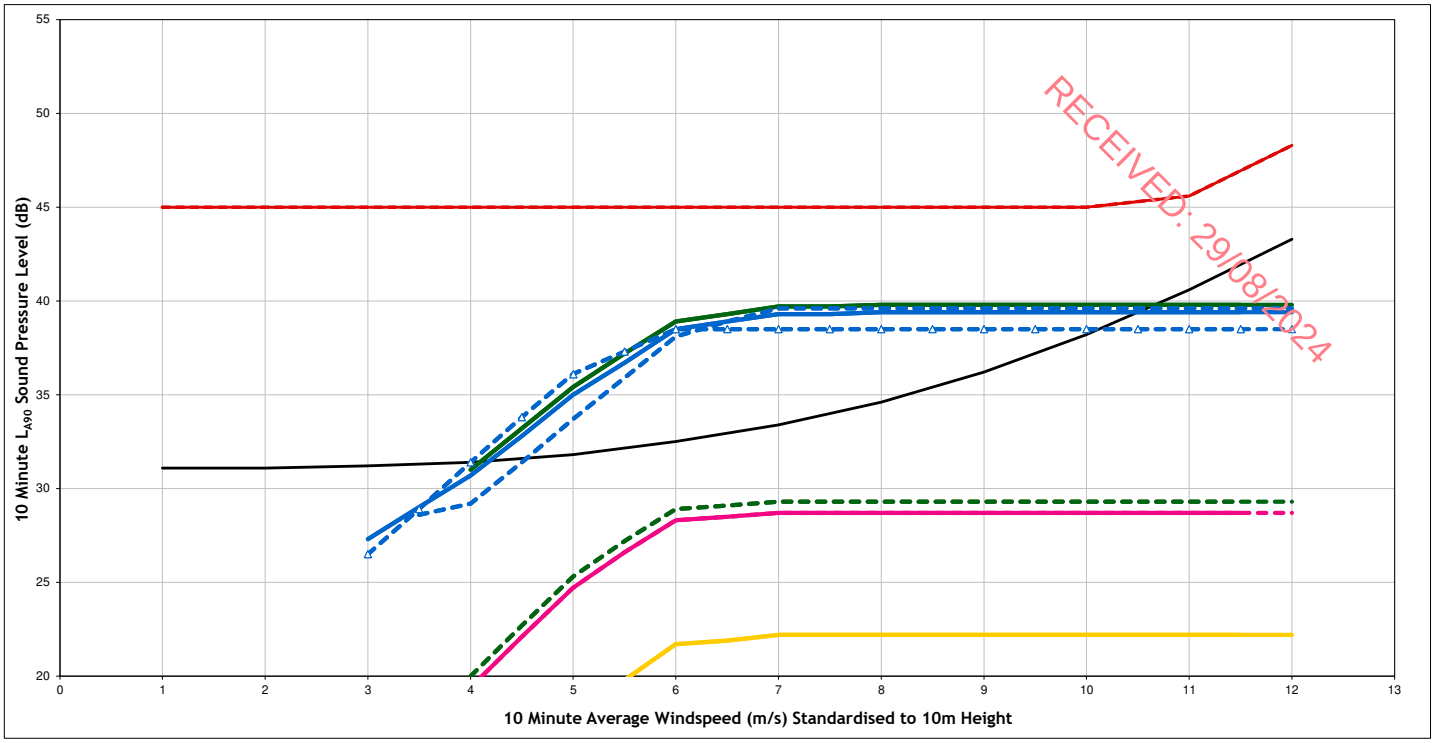
- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL2 - NSR2
Figure Number	Figure A1.3b
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

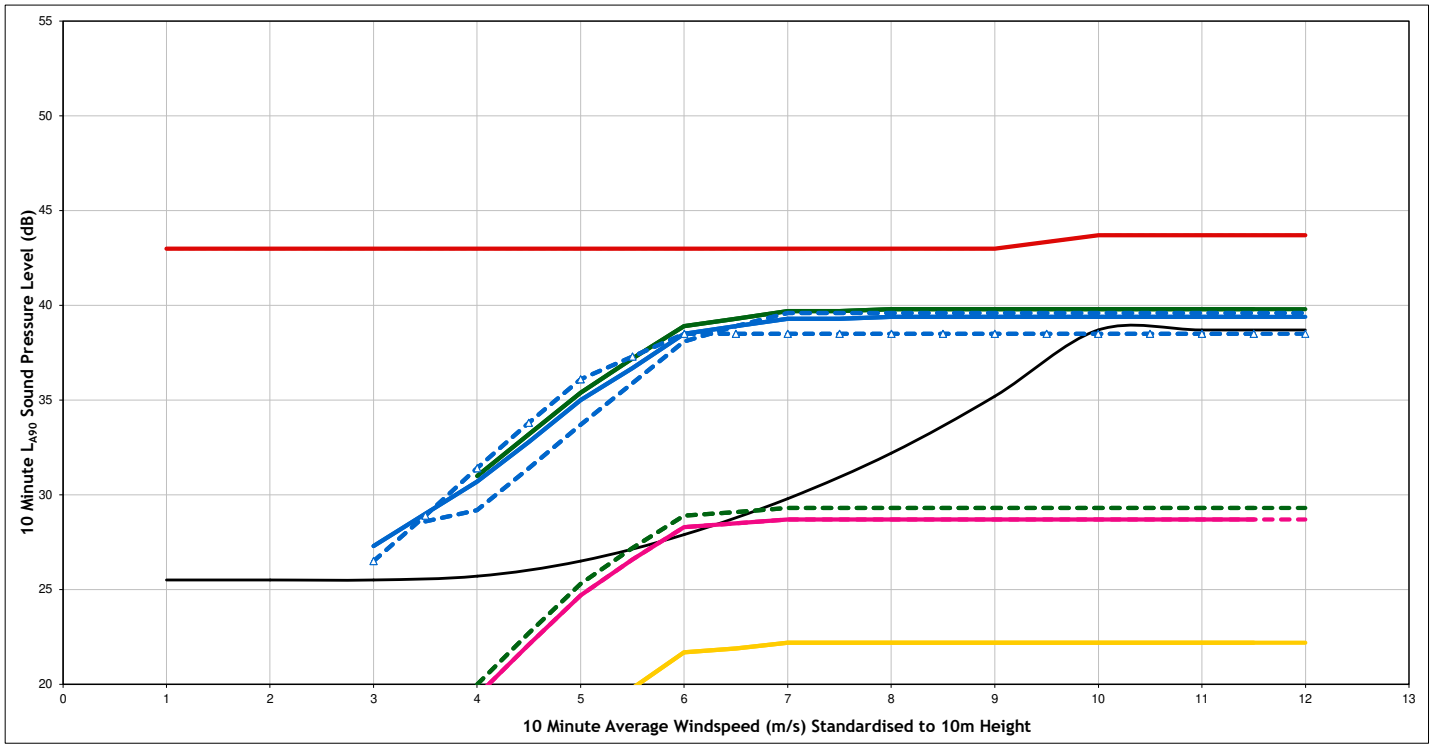
EDF renewables

tnei

Daytime - NAL3 - NSR7



Night Time - NAL3 - NSR7



Legend:

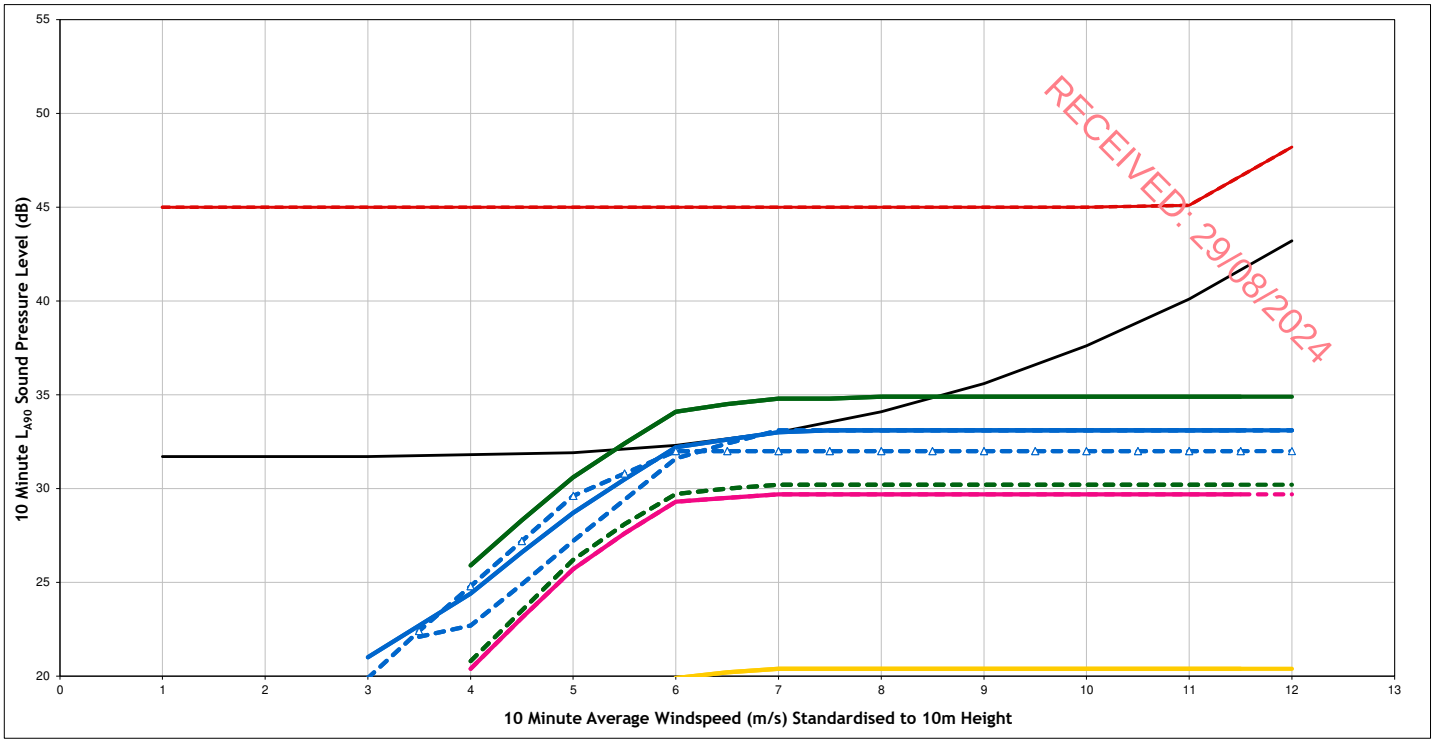
- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL3 - NSR7
Figure Number	Figure A1.3c
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

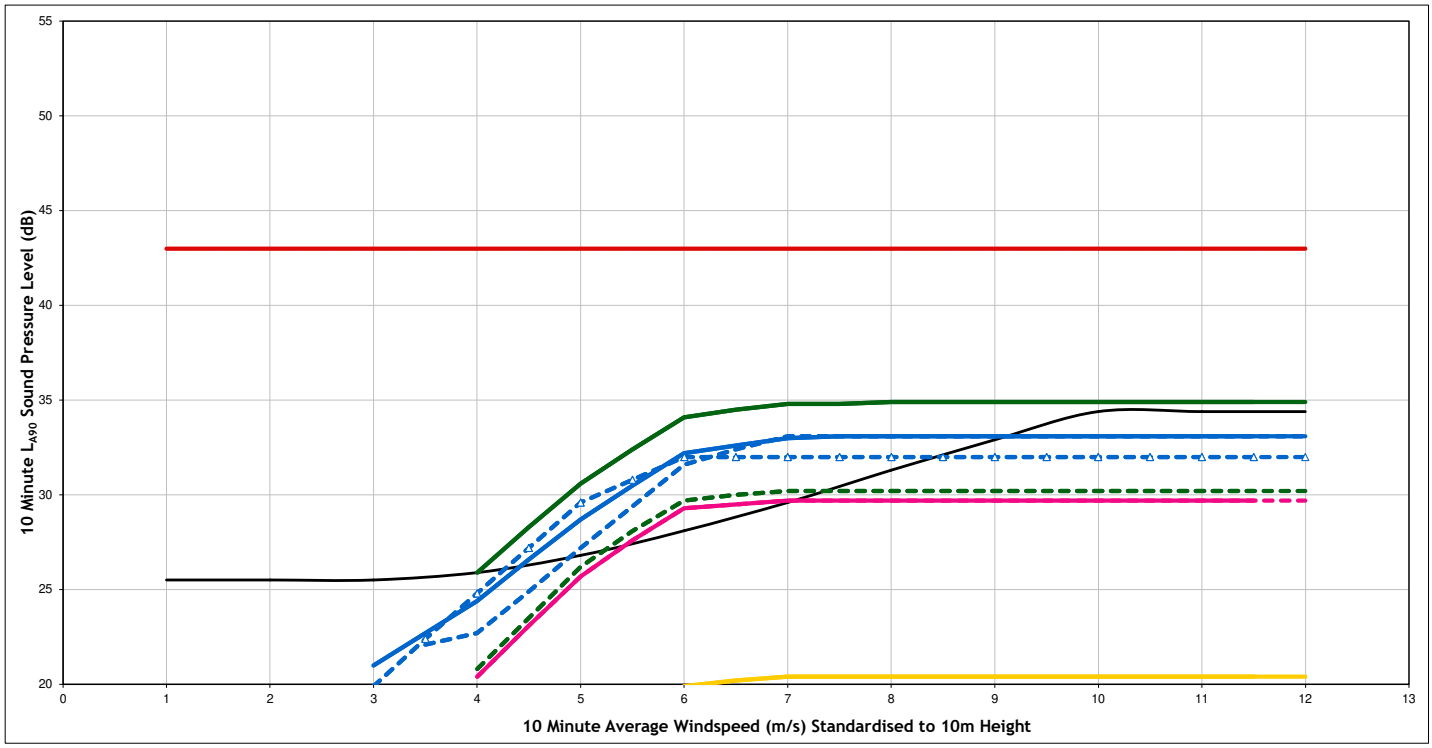
EDF renewables

tnei

Daytime - NAL4 - NSR65



Night Time - NAL4 - NSR65



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL4 - NSR65
Figure Number	Figure A1.3d
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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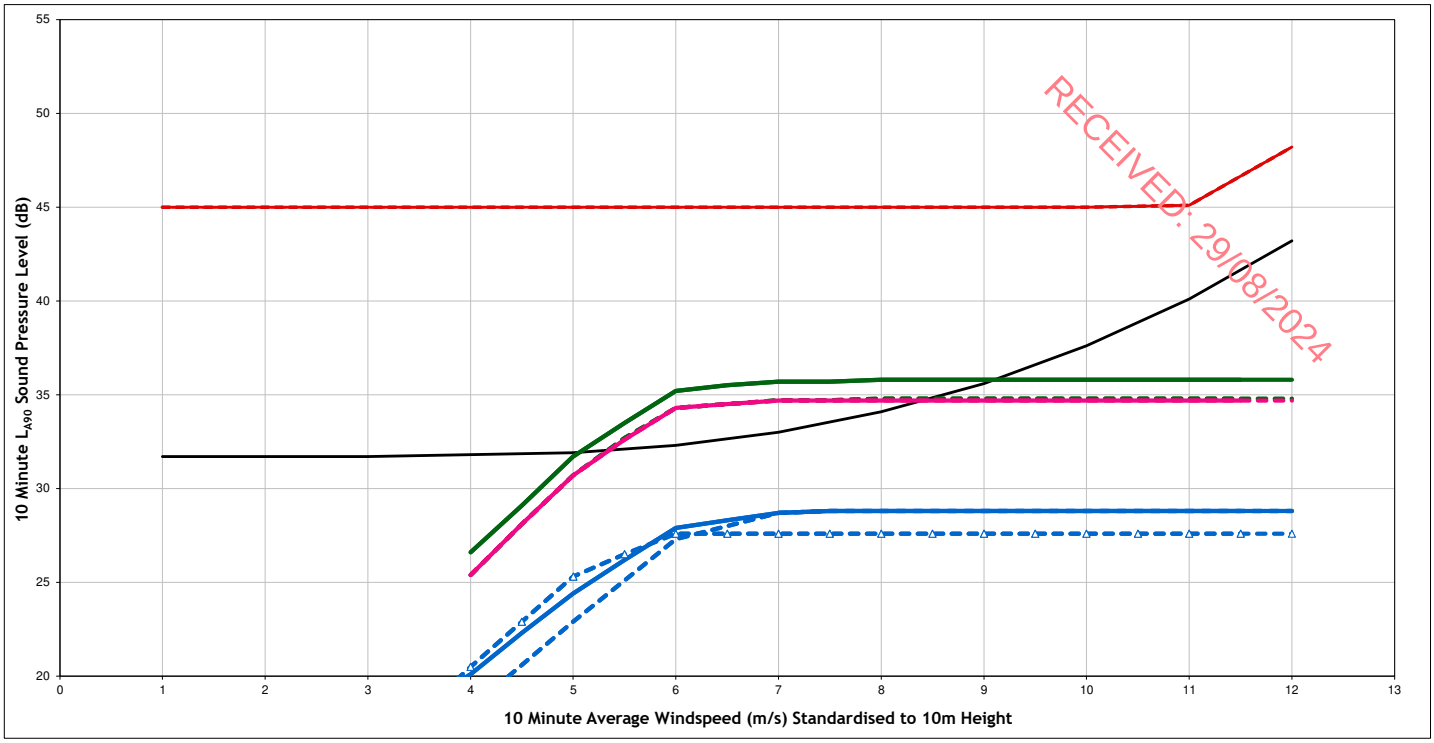
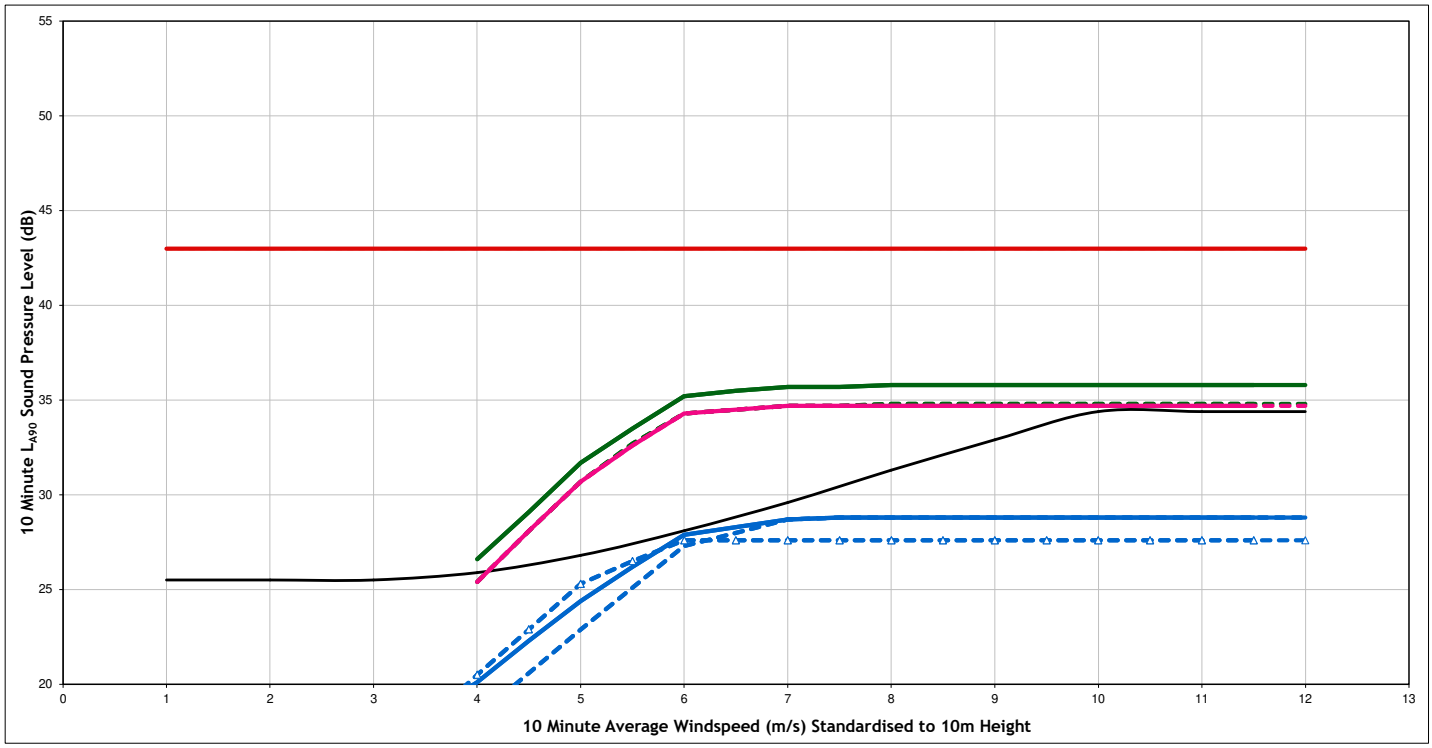
Daytime - NAL5 - NSR87



Night Time - NAL5 - NSR87



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL5 - NSR87
Figure Number	Figure A1.3e
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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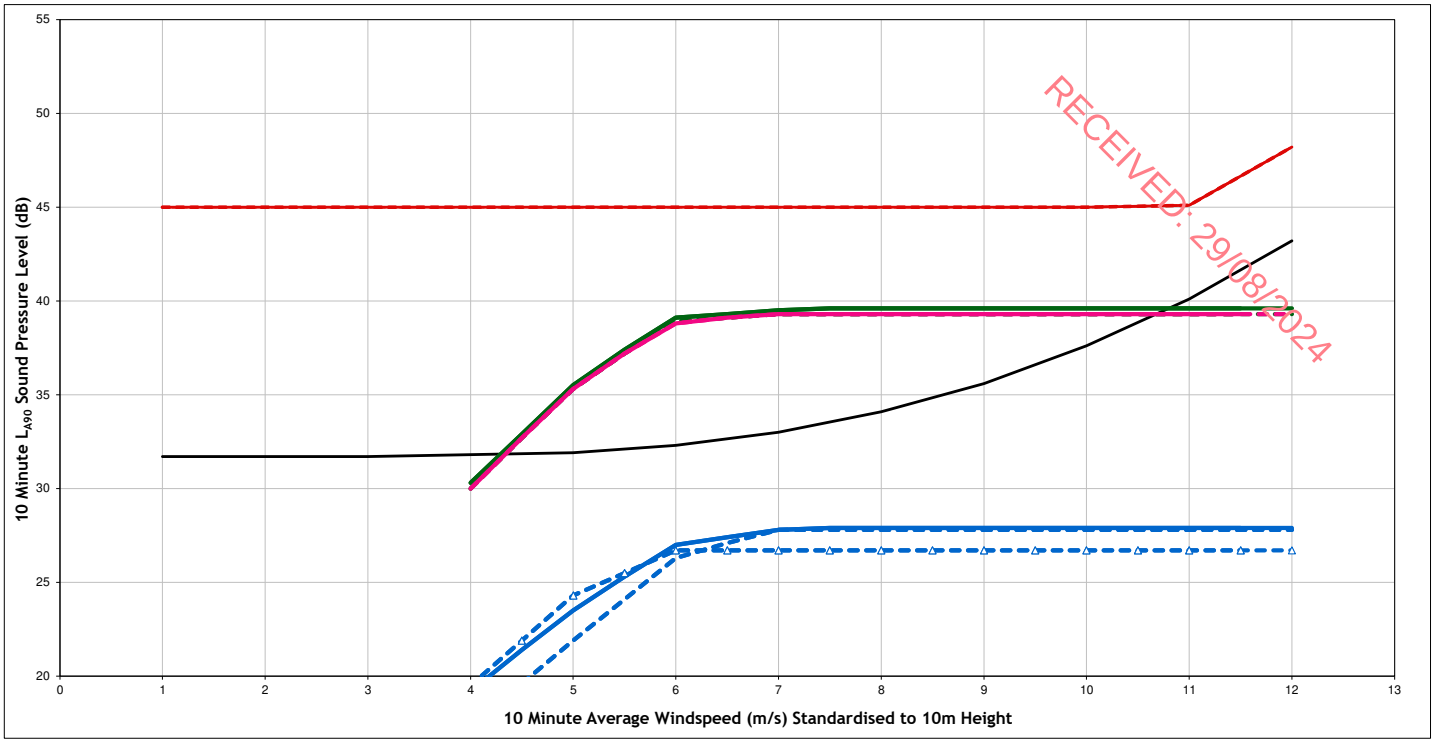
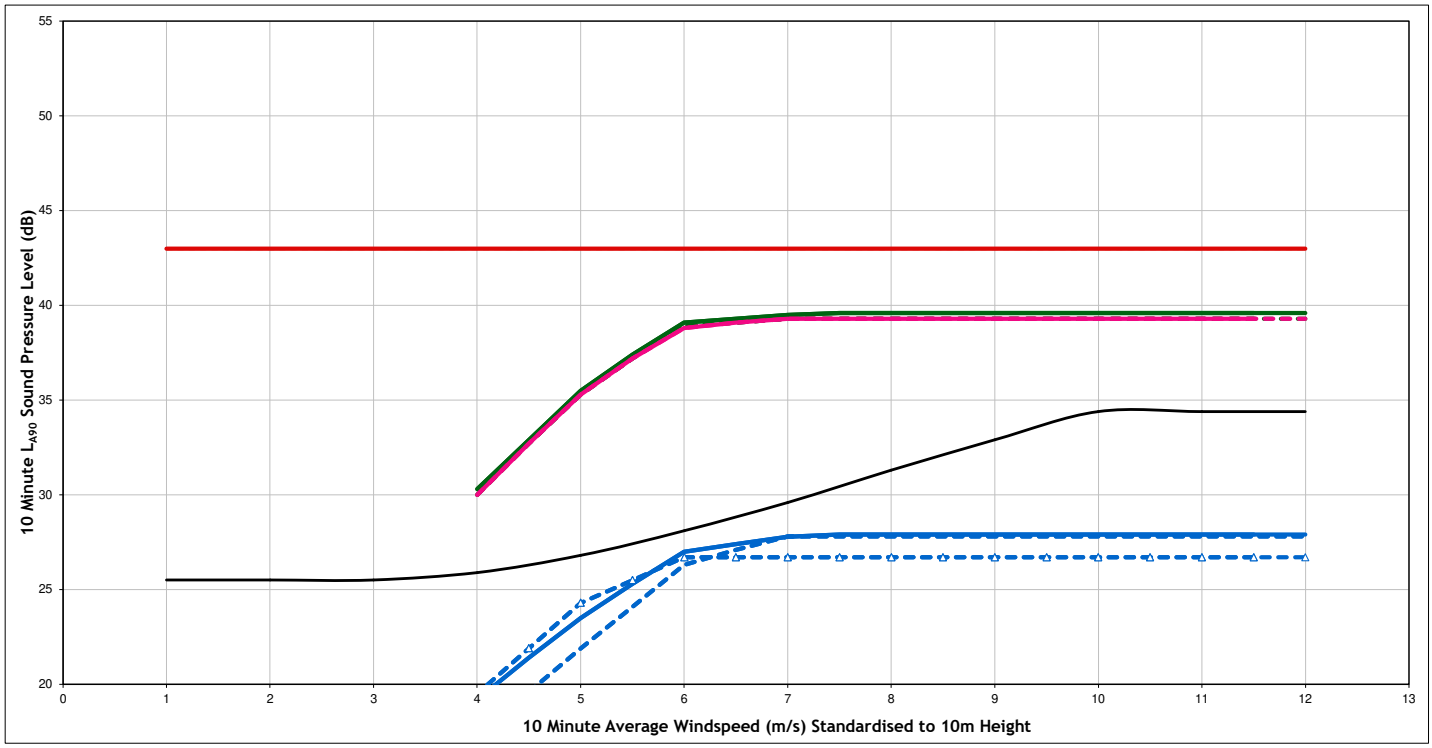
Daytime - NAL6 - NSR100



Night Time - NAL6 - NSR100



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL6 - NSR100
Figure Number	Figure A1.3f
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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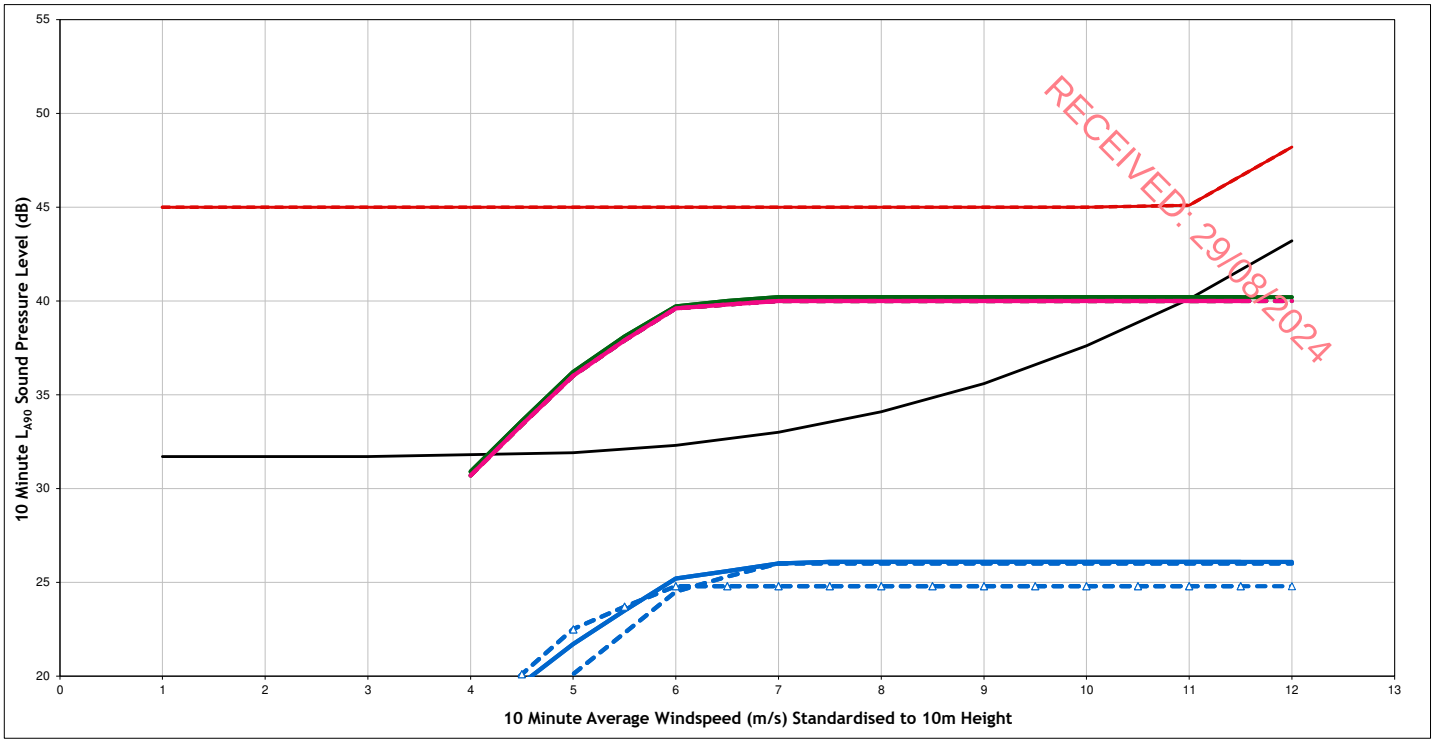
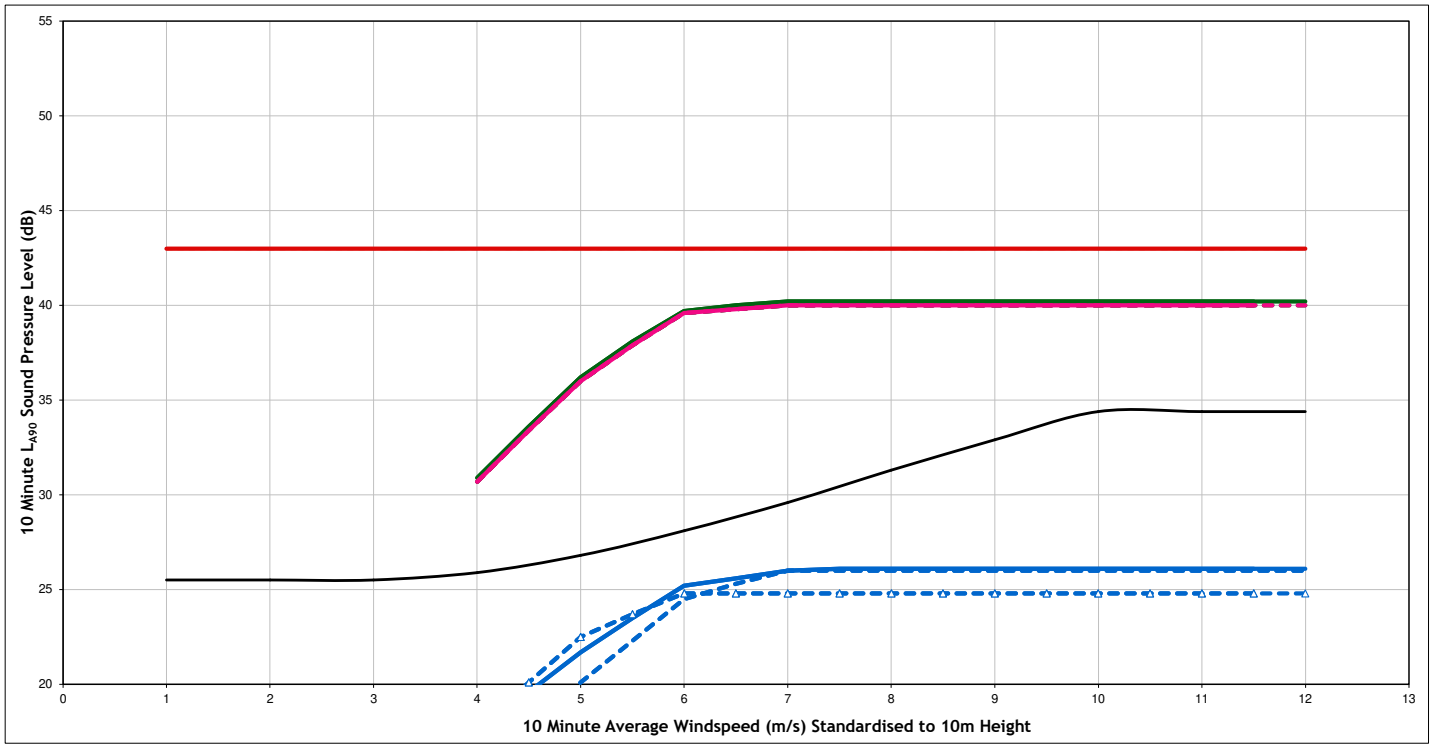
Daytime - NAL7 - NSR126



Night Time - NAL7 - NSR126



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL7 - NSR126
Figure Number	Figure A1.3g
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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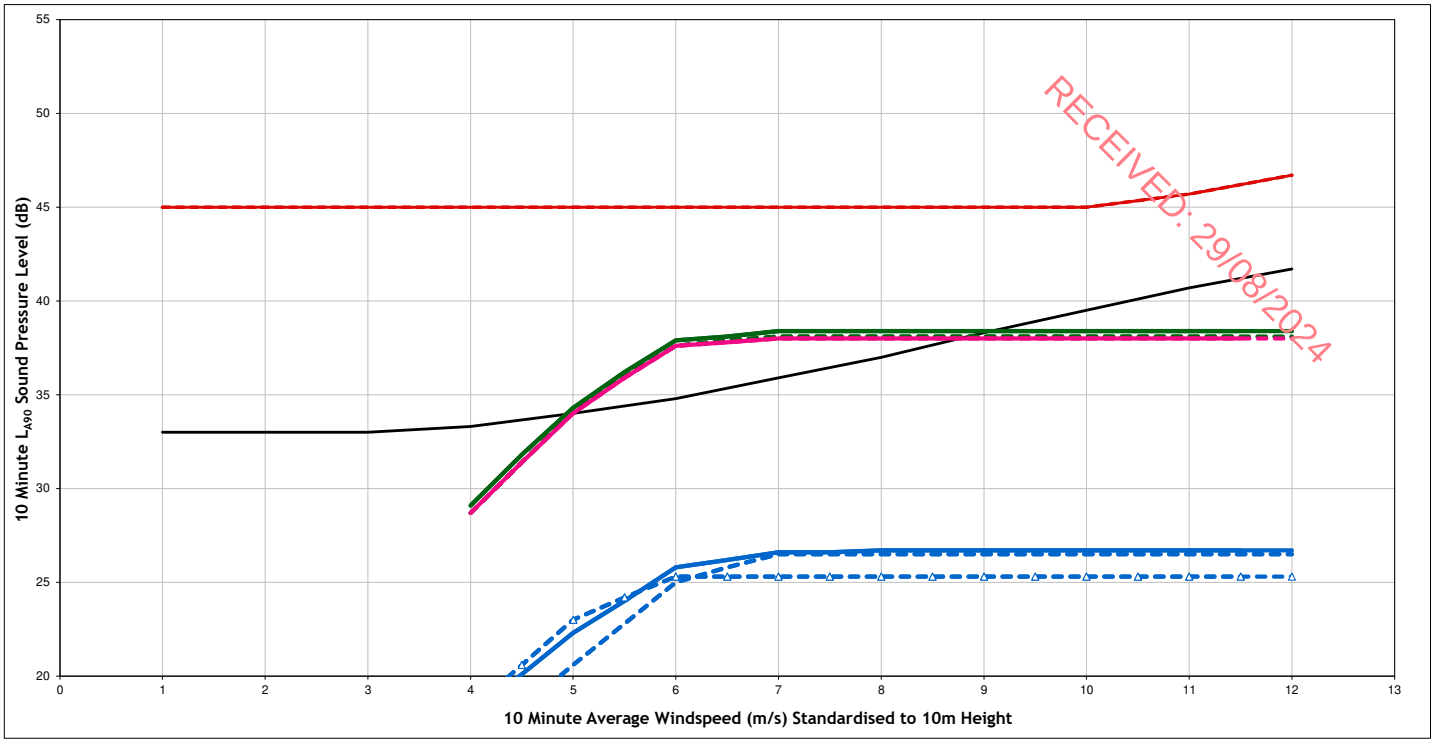
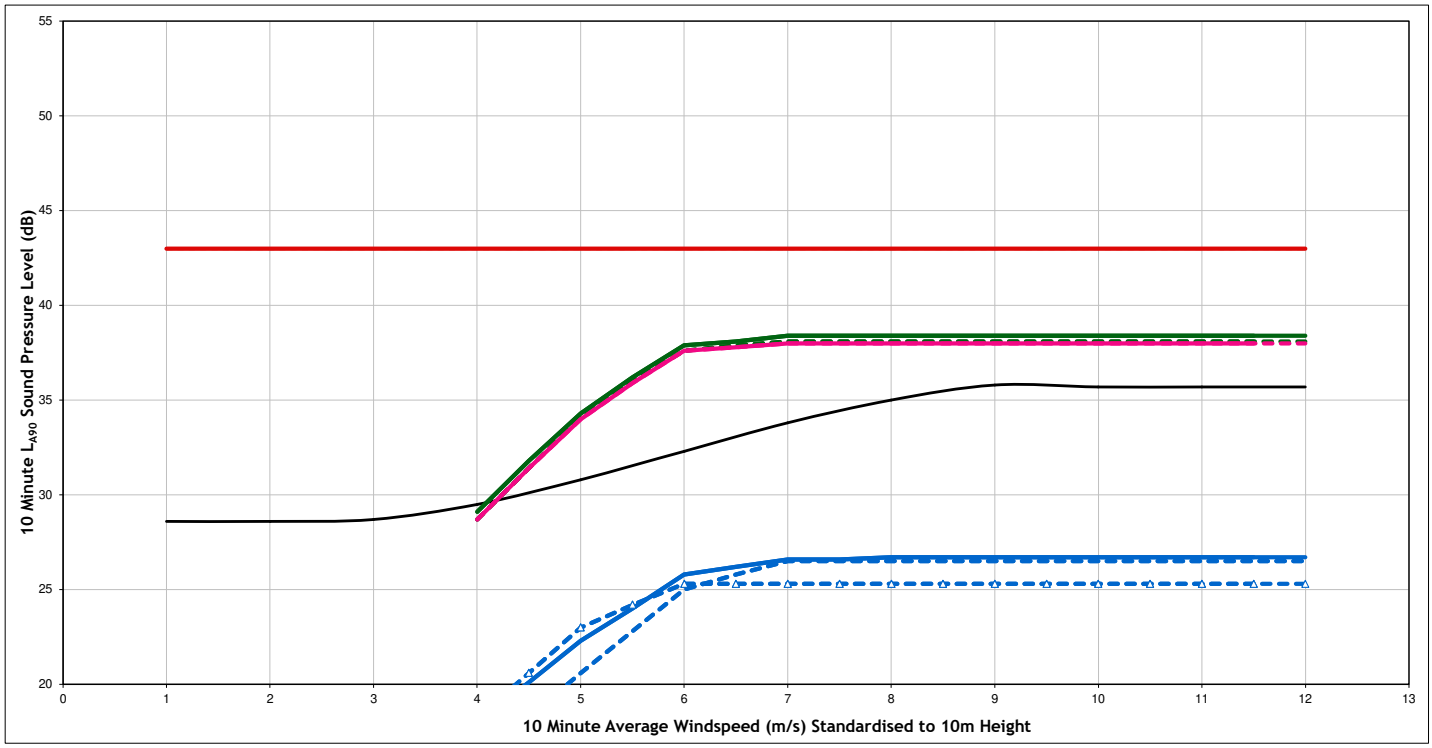
Daytime - NAL8 - NSR133



Night Time - NAL8 - NSR133



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL8 - NSR133
Figure Number	Figure A1.3h
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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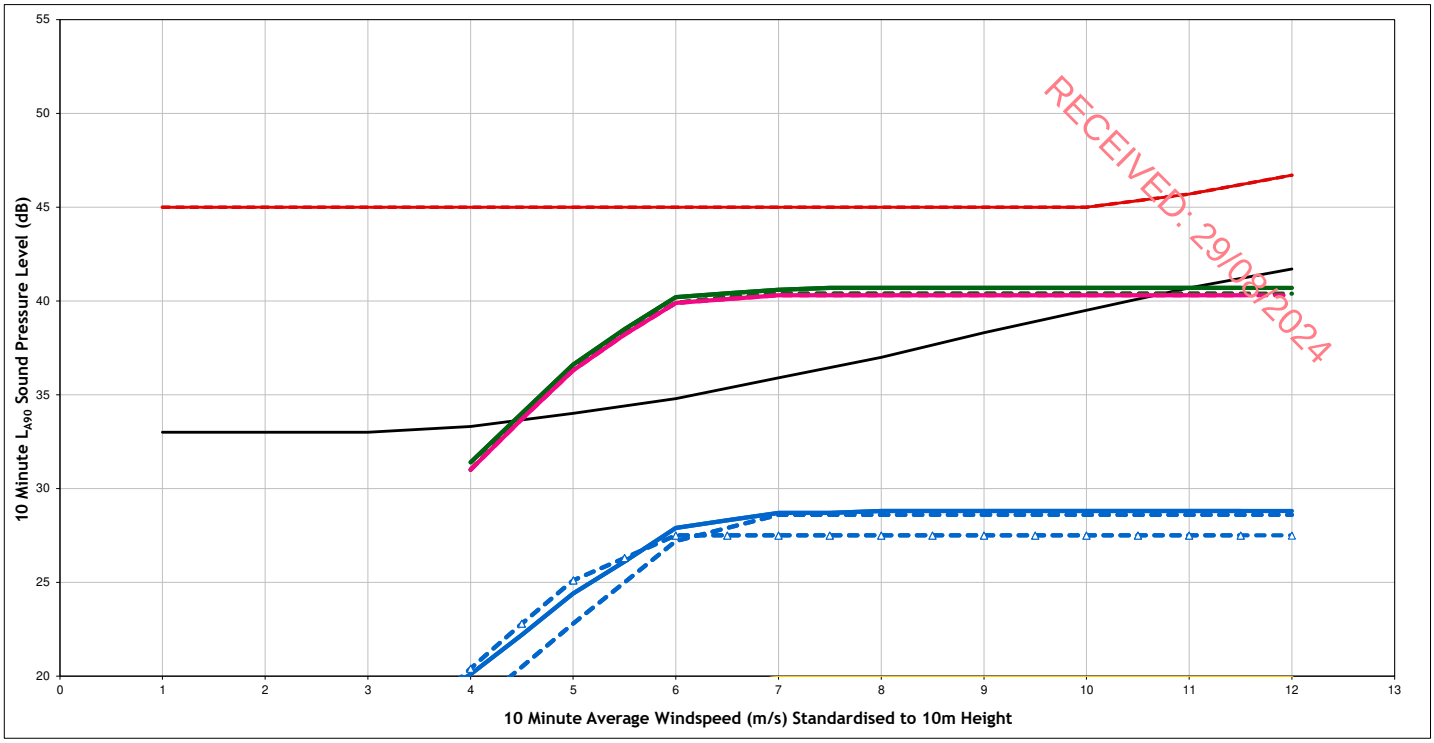
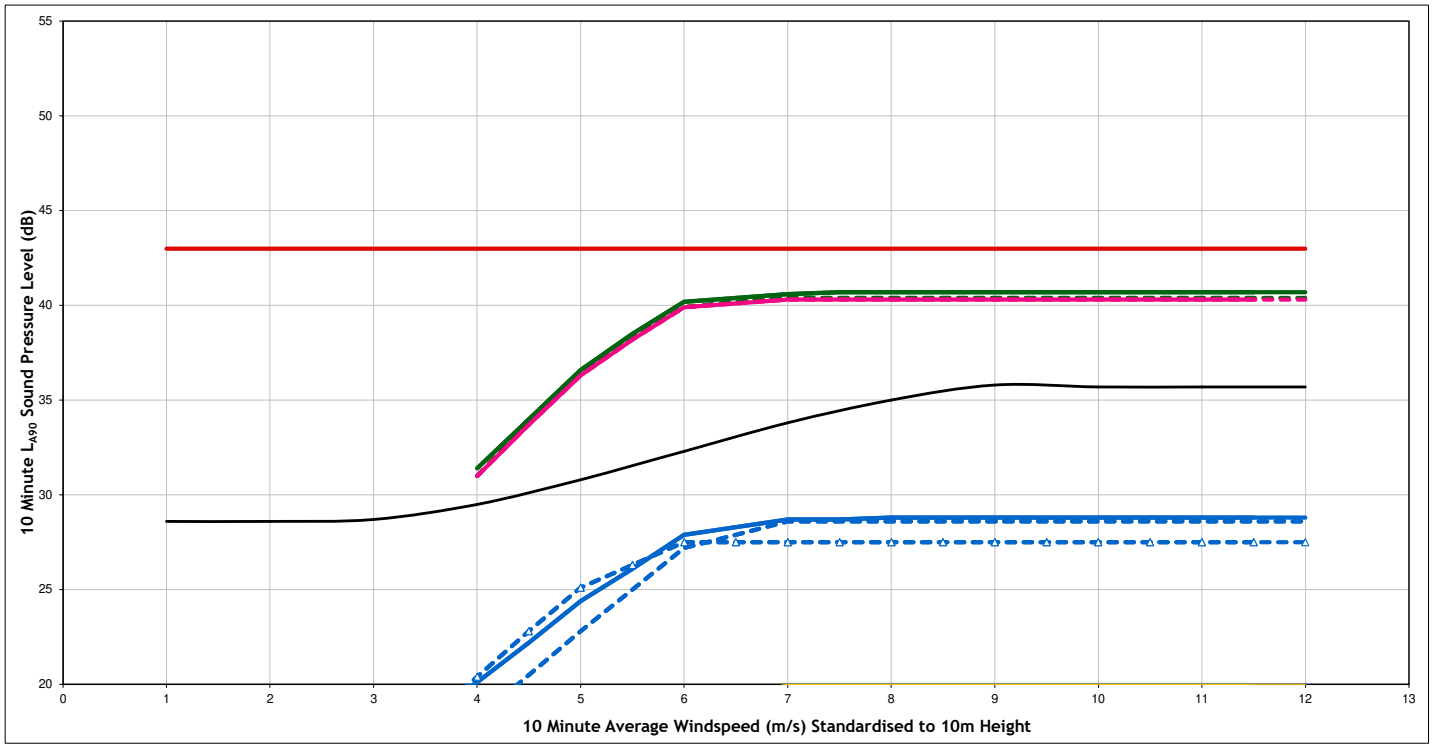
Daytime - NAL9 - NSR105



Night Time - NAL9 - NSR105



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL9 - NSR105
Figure Number	Figure A1.3i
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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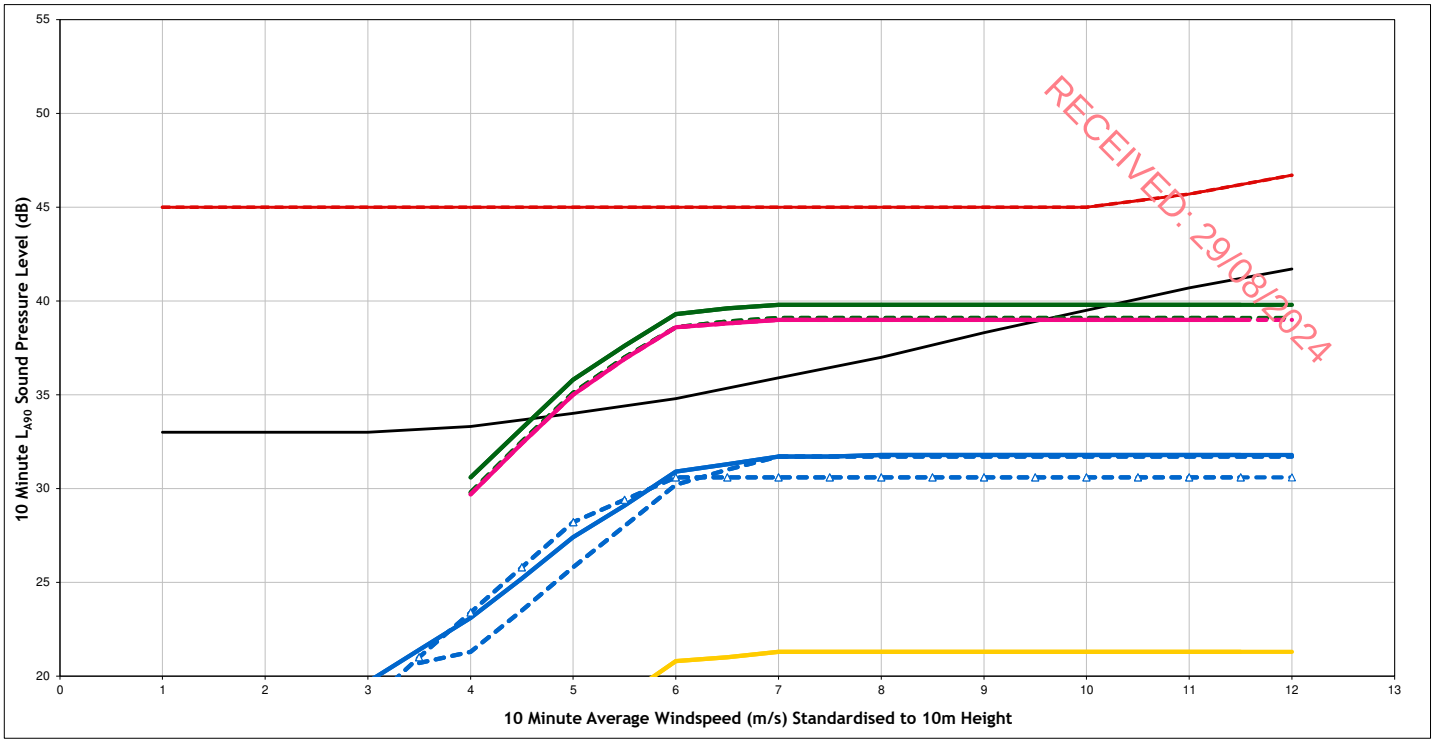
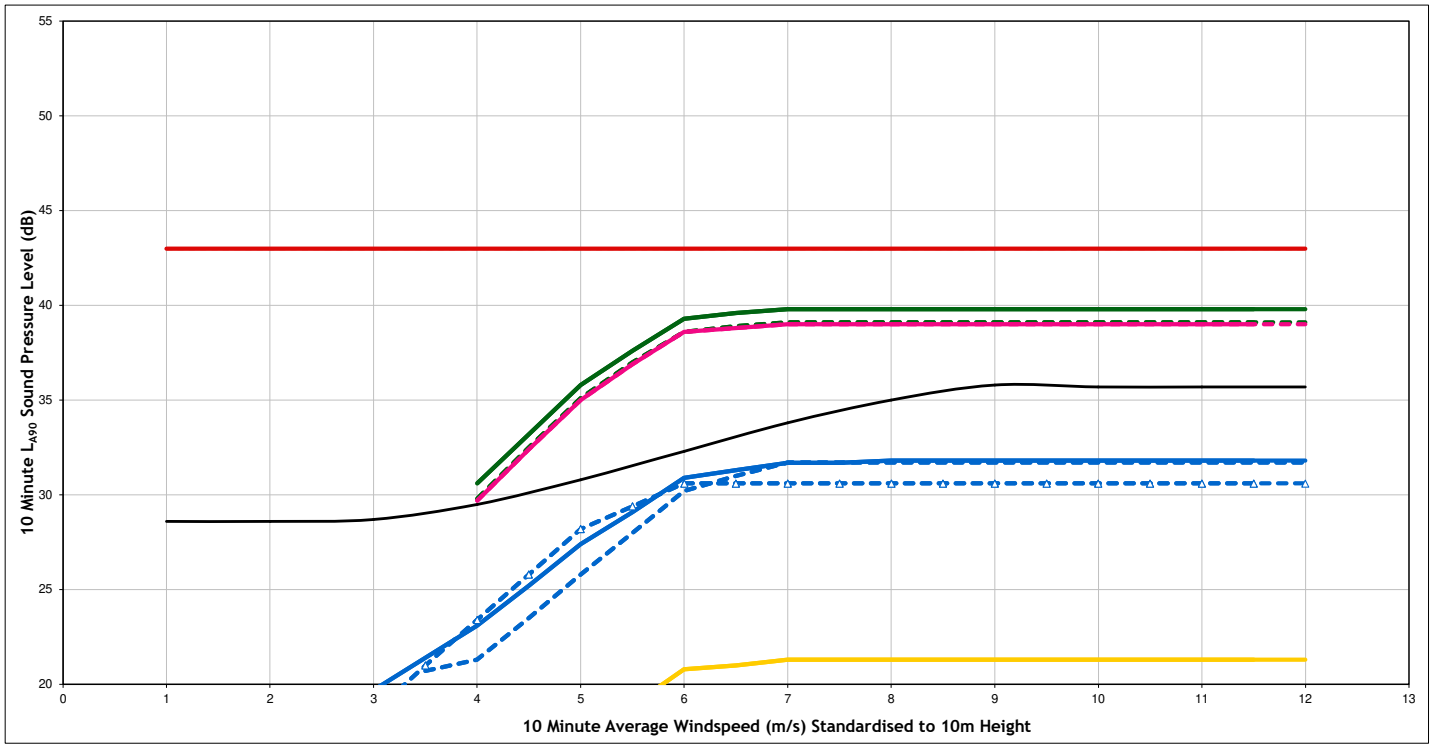
Daytime - NAL10 - NSR75



Night Time - NAL10 - NSR75



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL10 - NSR75
Figure Number	Figure A1.3j
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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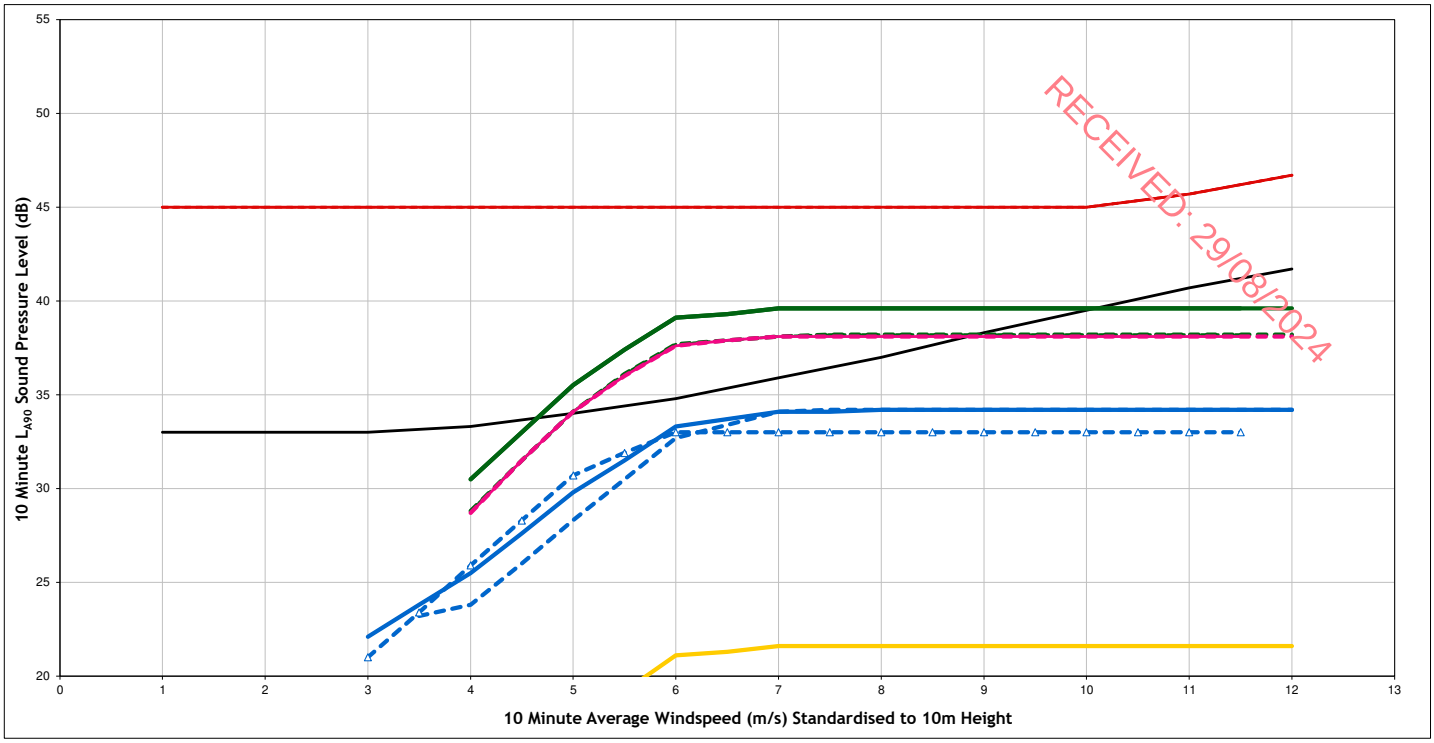
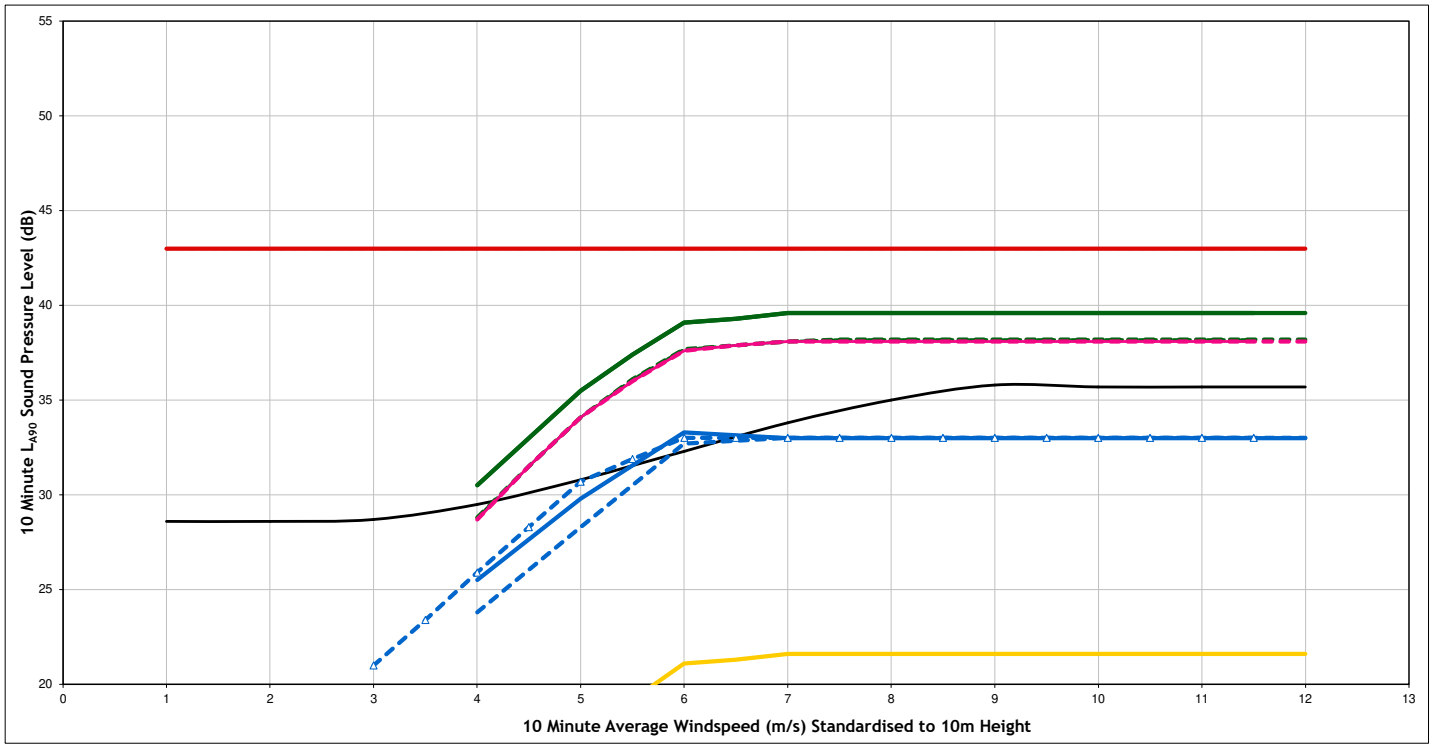
Daytime - NAL11 - NSR55



Night Time - NAL11 - NSR55



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL11 - NSR55
Figure Number	Figure A1.3k
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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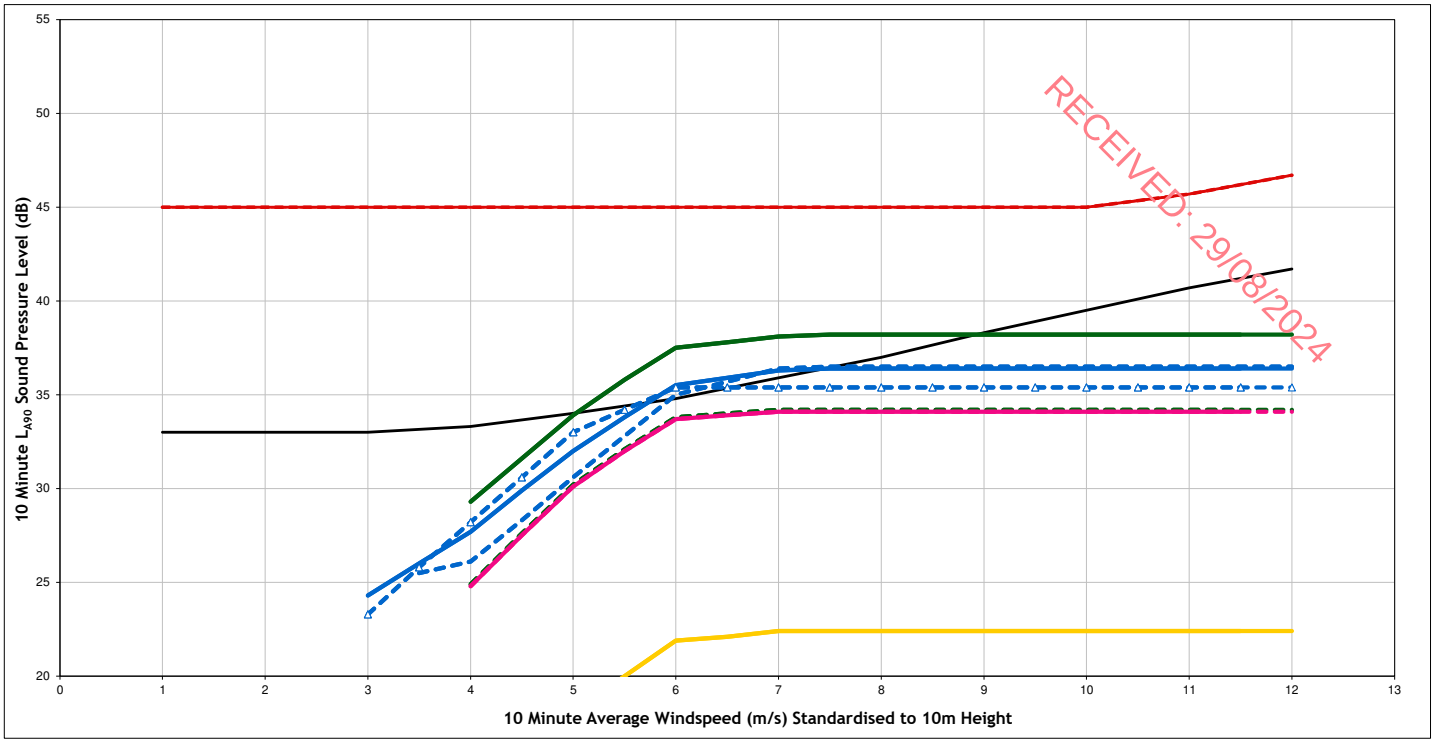
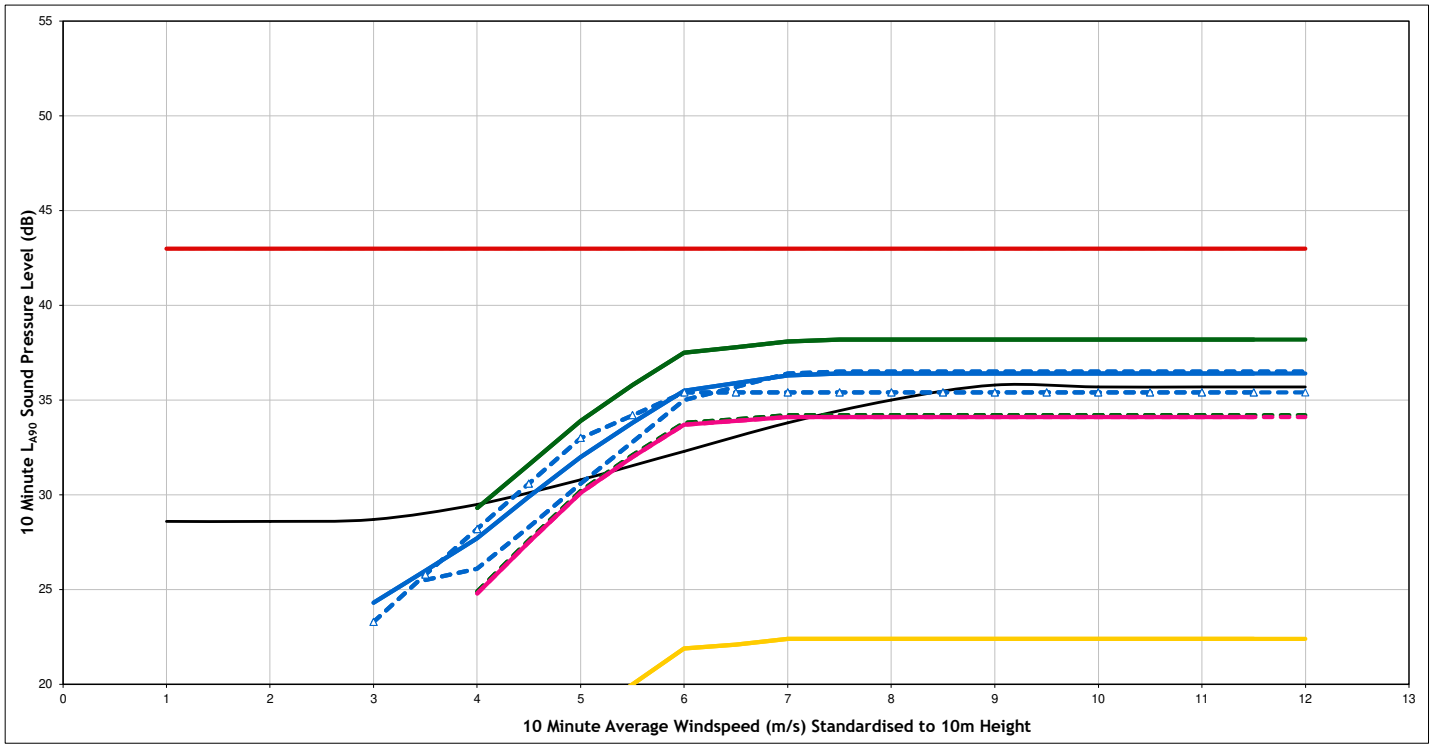
Daytime - NAL12 - NSR39



Night Time - NAL12 - NSR39



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL12 - NSR39
Figure Number	Figure A1.3l
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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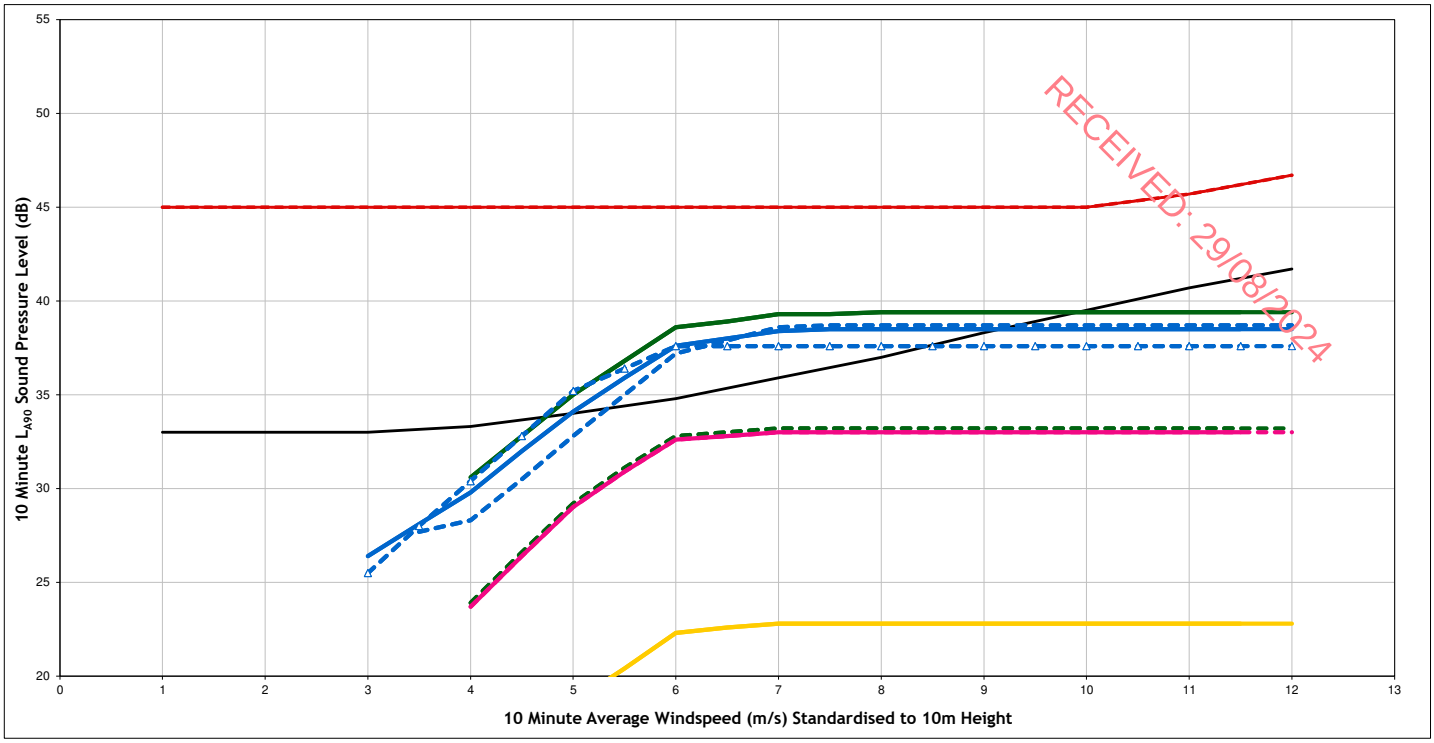
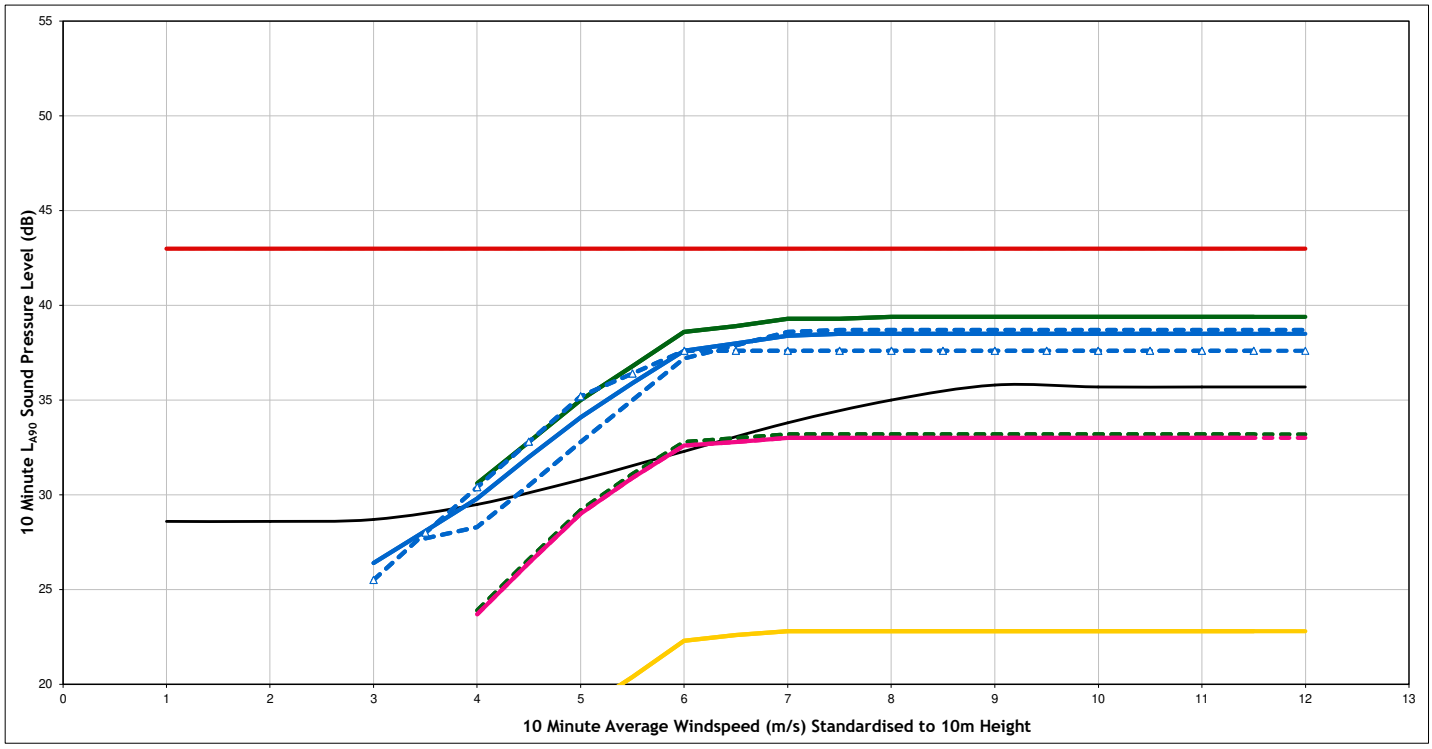
Daytime - NAL13 - NSR16



Night Time - NAL13 - NSR16



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL13 - NSR16
Figure Number	Figure A1.3m
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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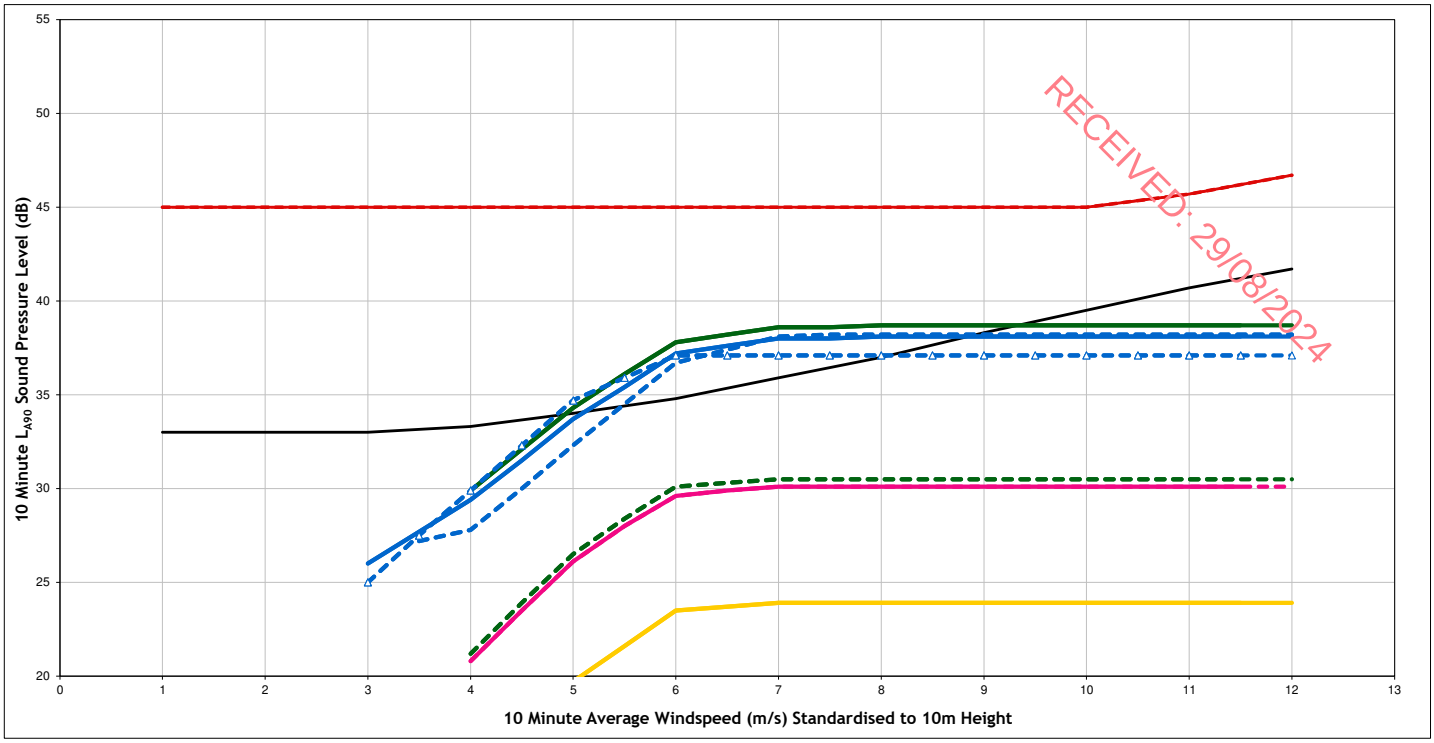
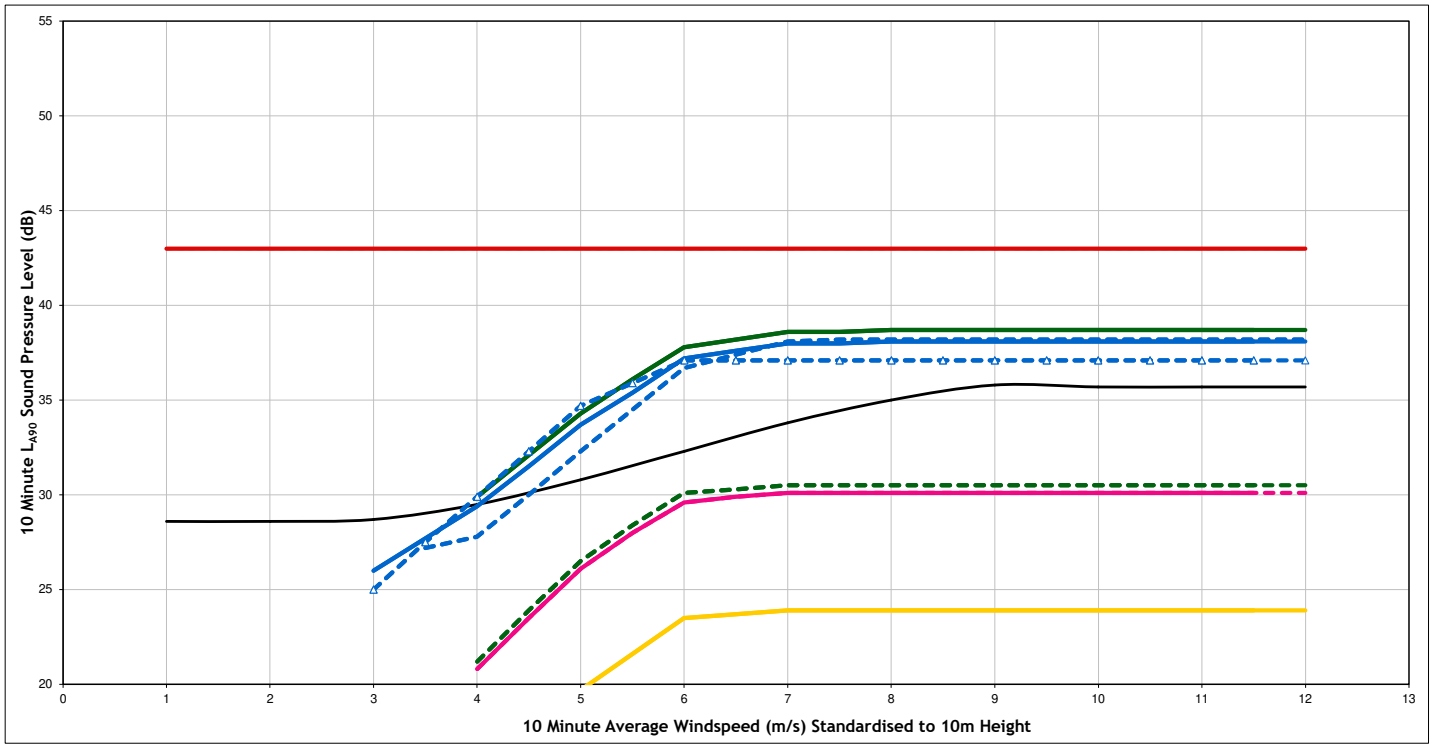
Daytime - NAL14 - NSR34



Night Time - NAL14 - NSR34



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL14 - NSR34
Figure Number	Figure A1.3n
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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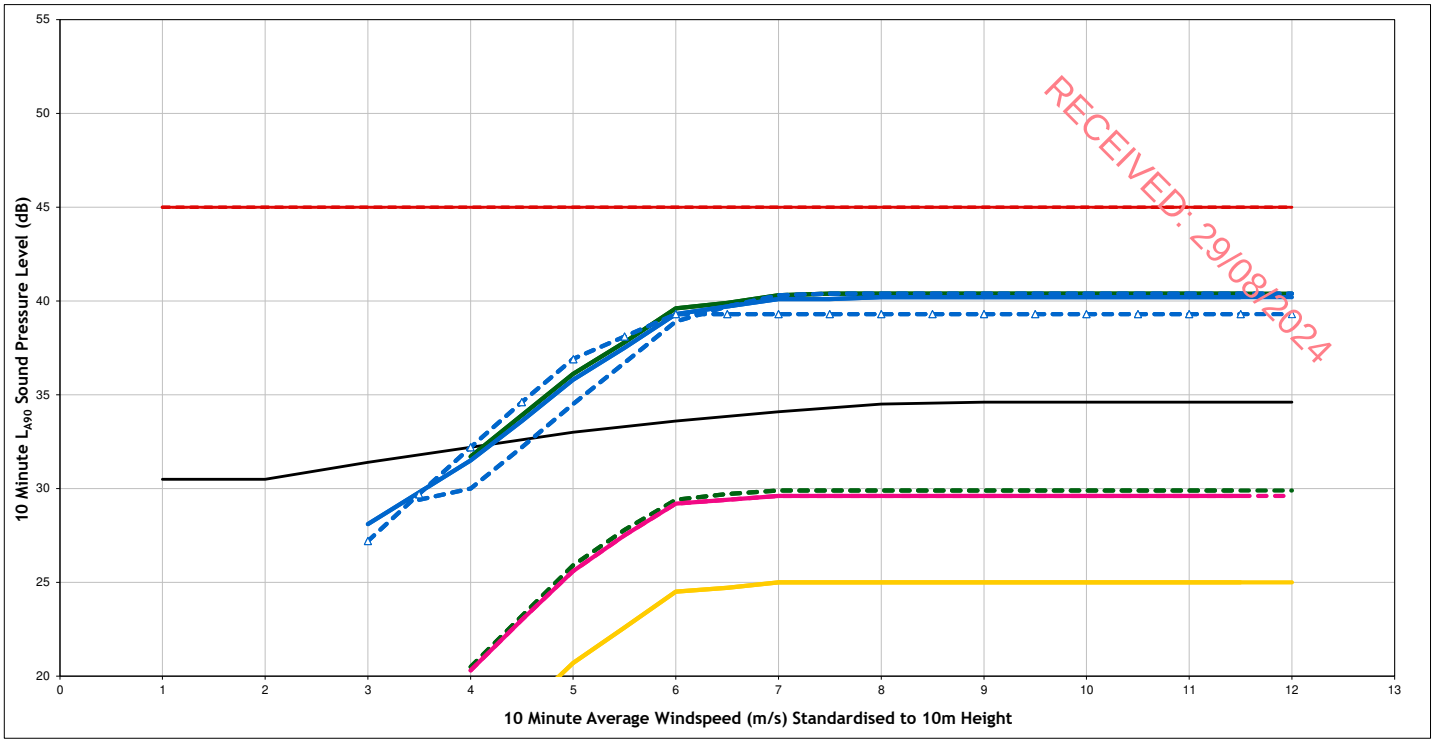
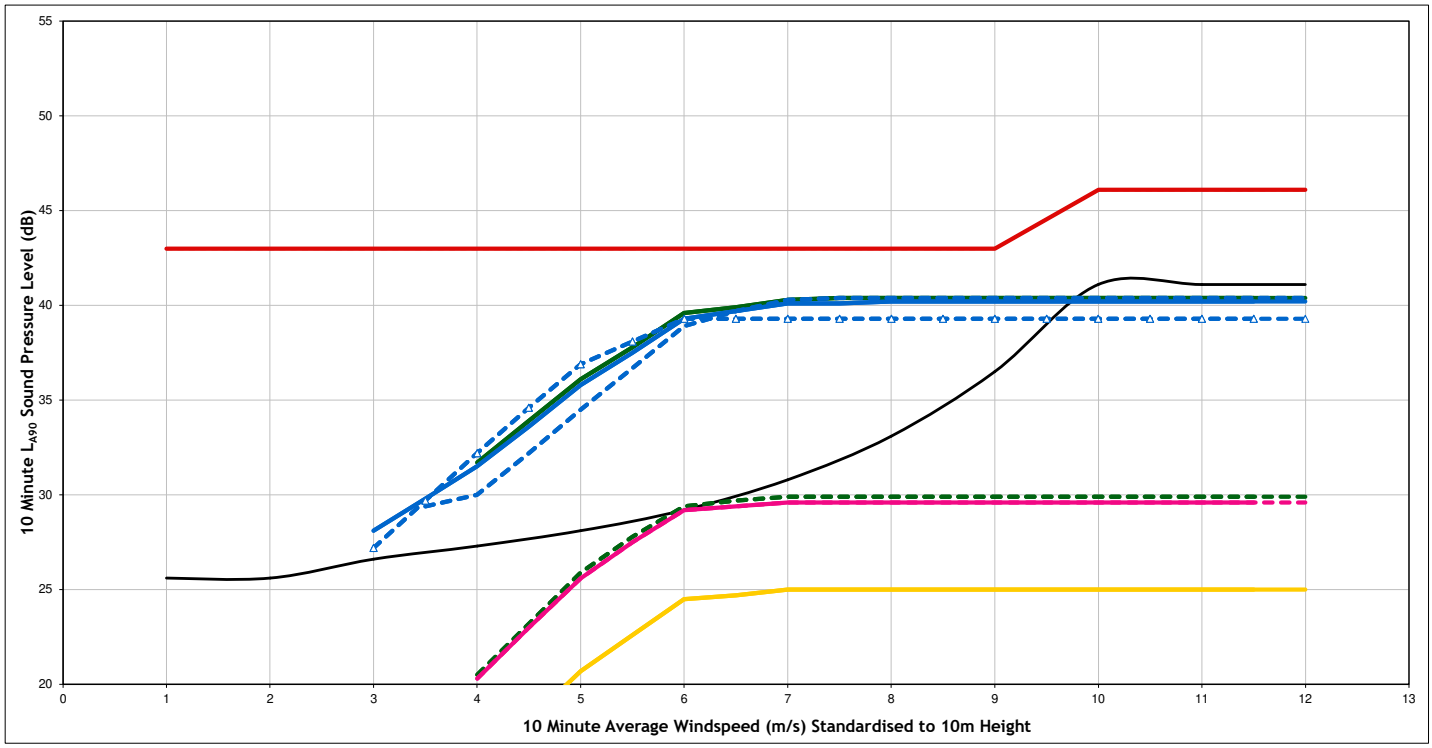
Daytime - NAL15 - NSR4



Night Time - NAL15 - NSR4



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL15 - NSR4
Figure Number	Figure A1.3o
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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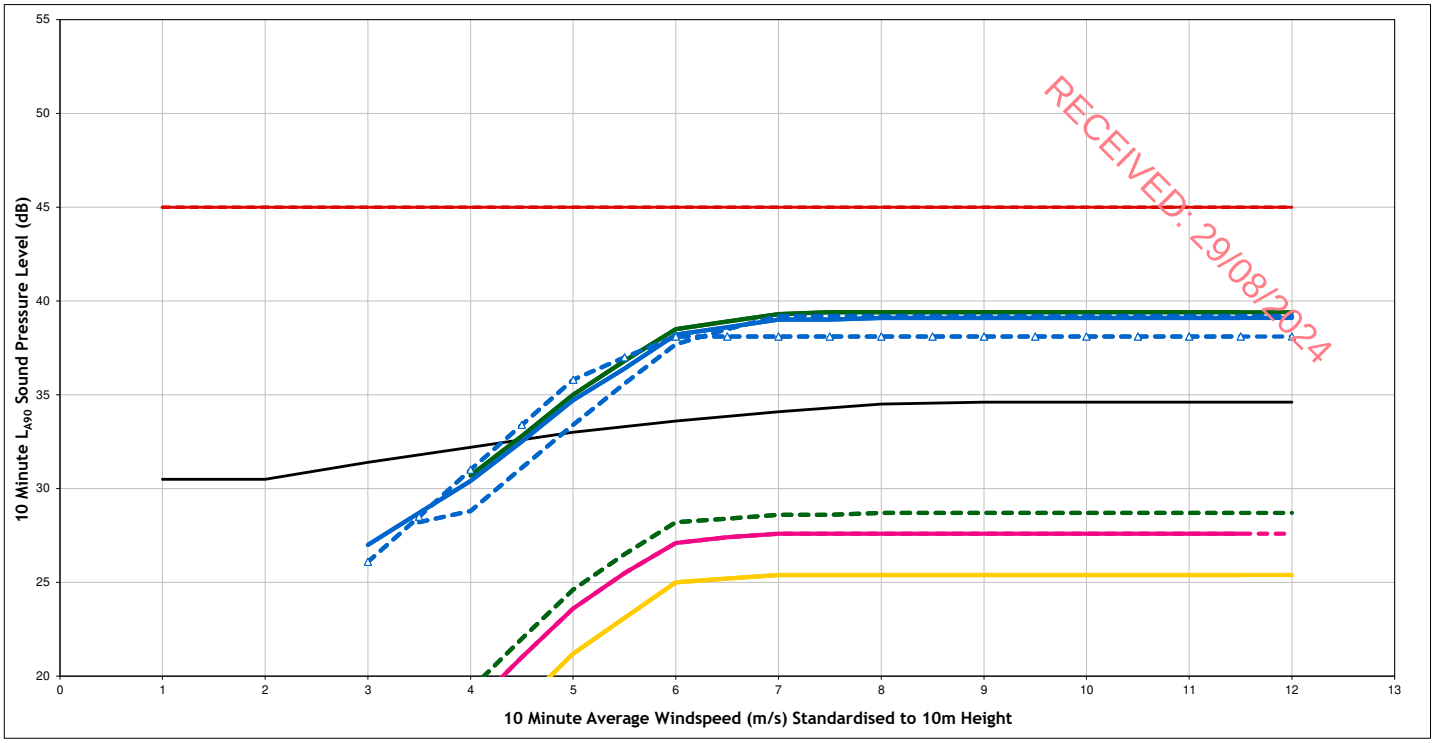
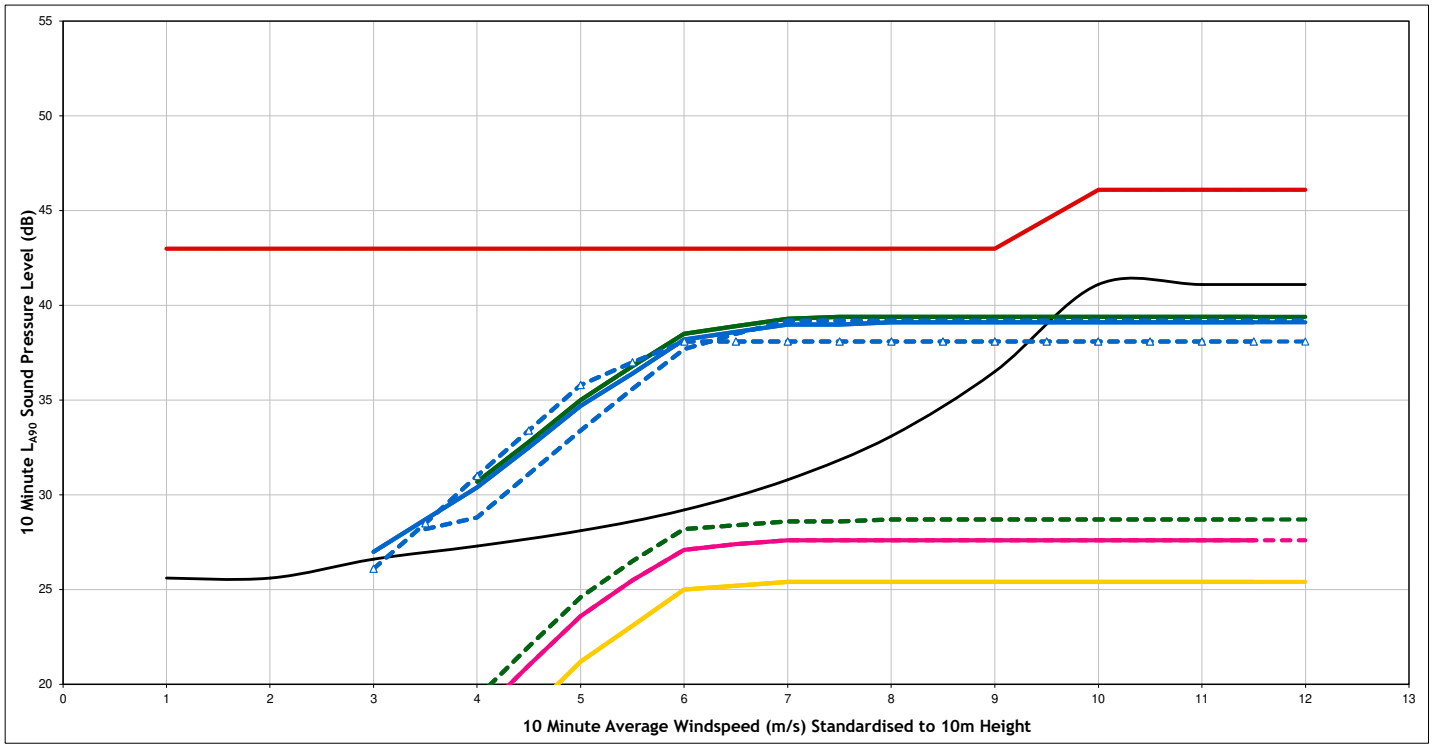
Daytime - NAL16 - NSR8(562253,672814)



Night Time - NAL16 - NSR8(562253,672814)

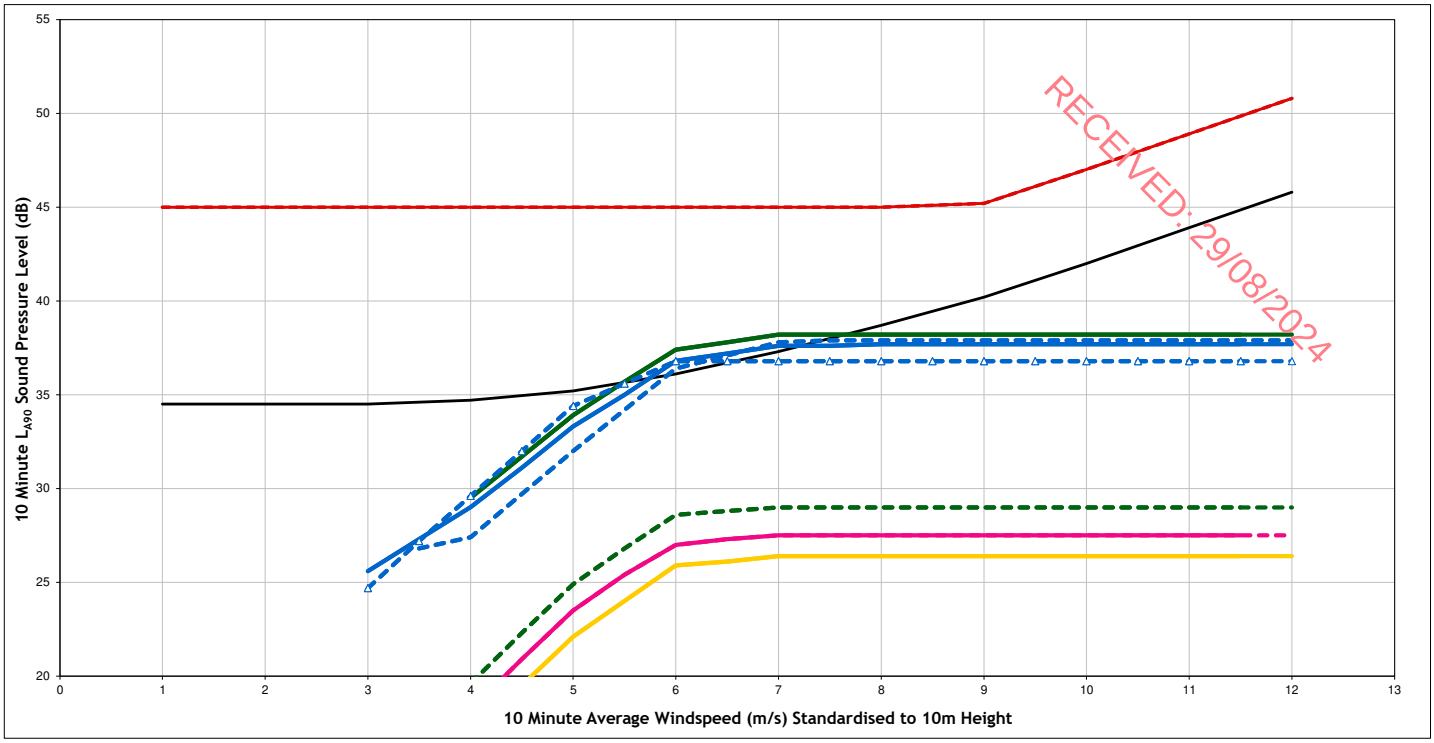


Legend:

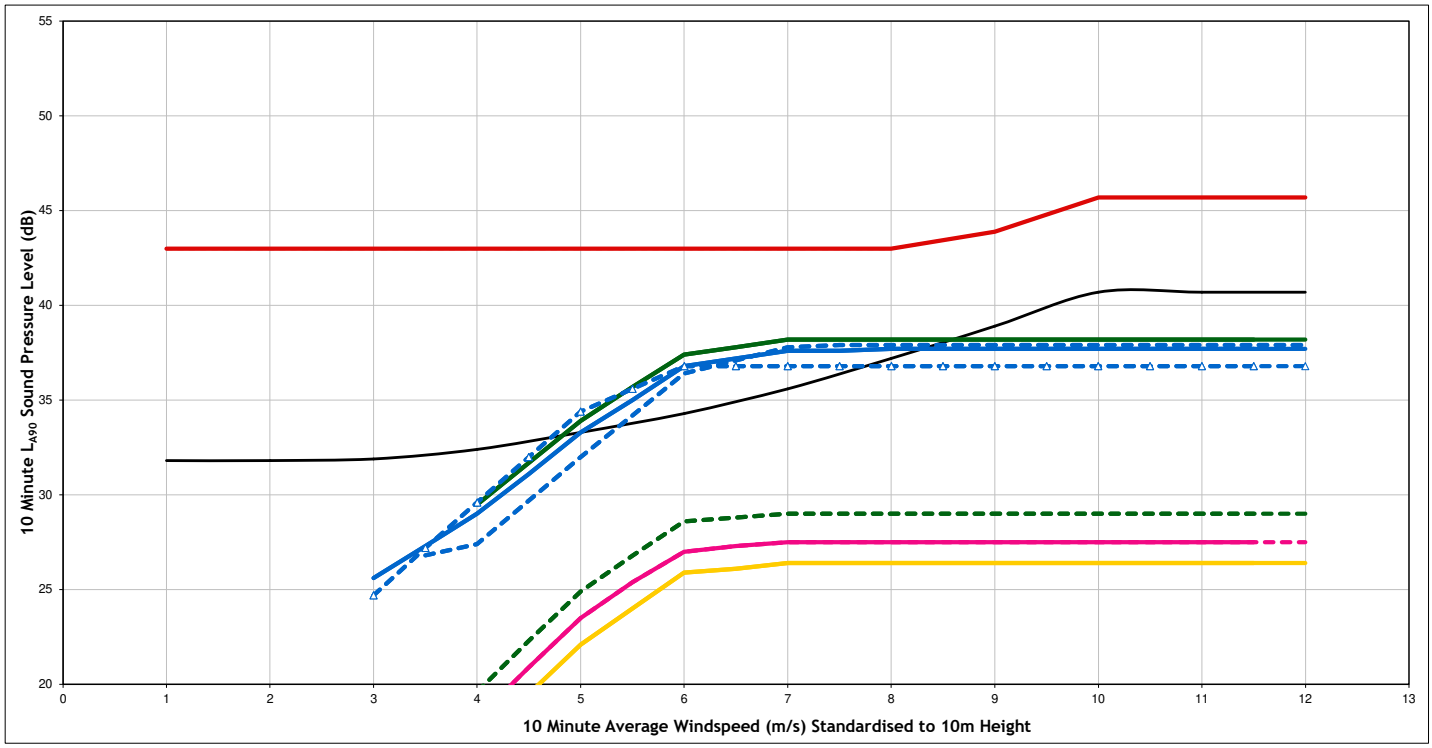
- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL16 - NSR8(562253,672814)
Figure Number	Figure A1.3p
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

Daytime - NAL17 - NSR13



Night Time - NAL17 - NSR13



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL17 - NSR13
Figure Number	Figure A1.3q
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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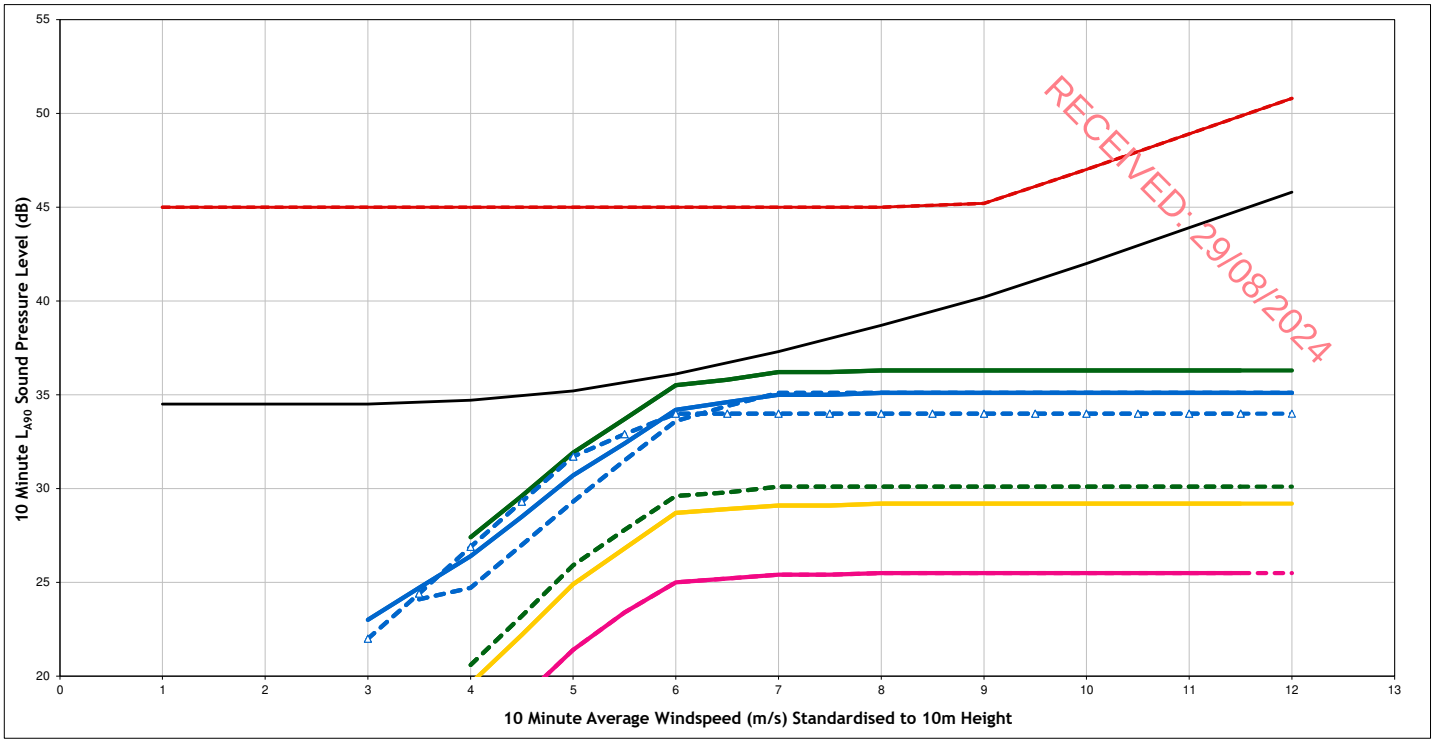
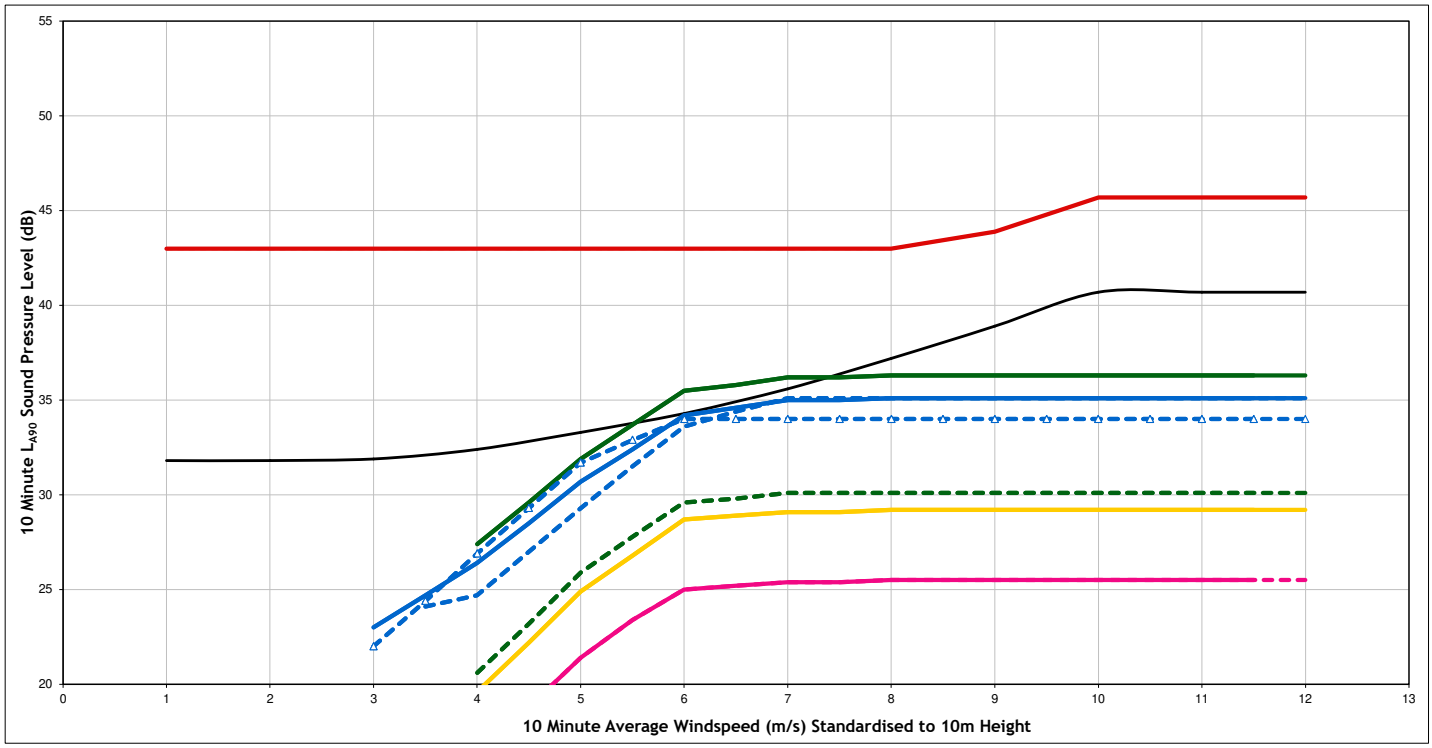
Daytime - NAL18 - NSR46



Night Time - NAL18 - NSR46



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL18 - NSR46
Figure Number	Figure A1.3r
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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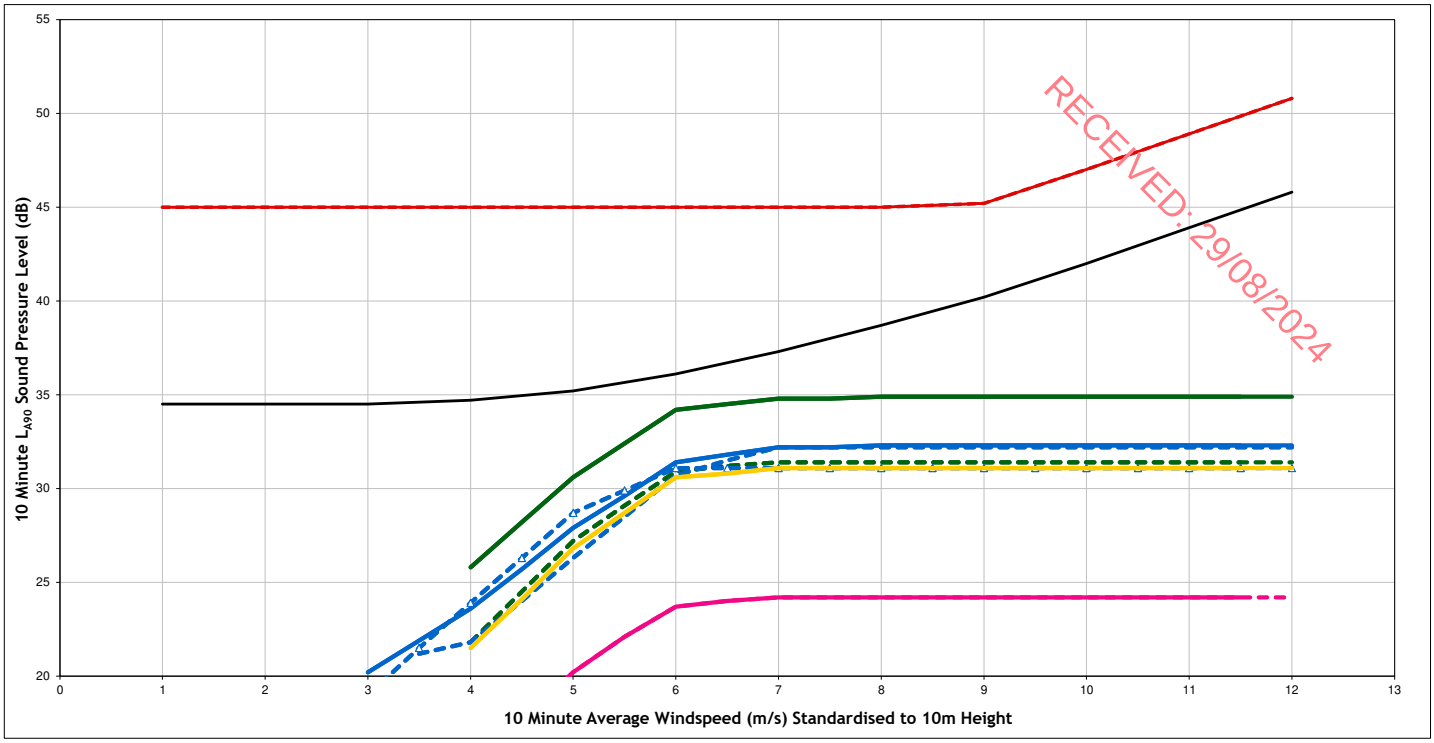
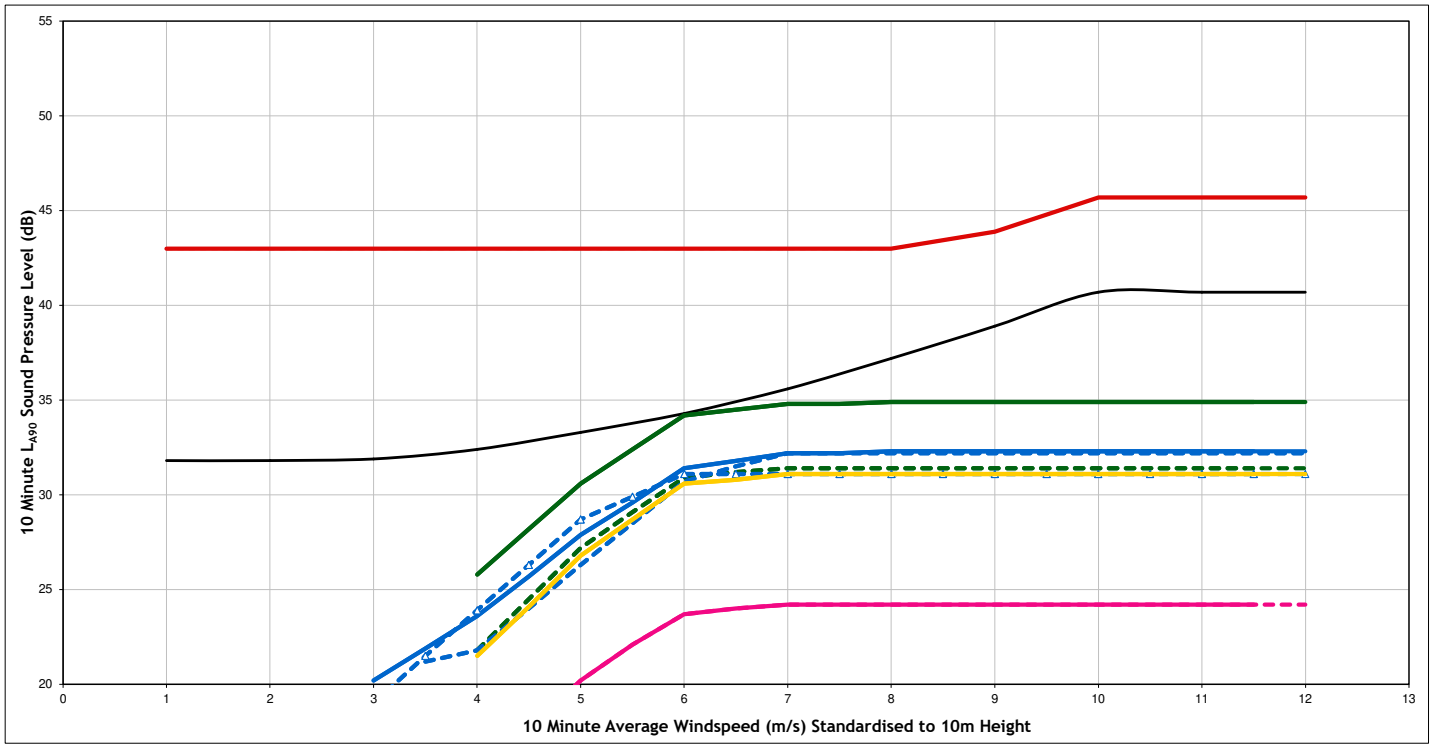
Daytime - NAL19 - NSR78



Night Time - NAL19 - NSR78



Legend:

- Background Noise Trendline
- Total WEDG Noise Limit
- Cumulative (including the Proposed Development)
- Cumulative (excluding the Proposed Development)
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)
- Carrownagowan
- Fahy Beg

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Likely Predictions NAL19 - NSR78
Figure Number	Figure A1.3s
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 Models

EDF renewables

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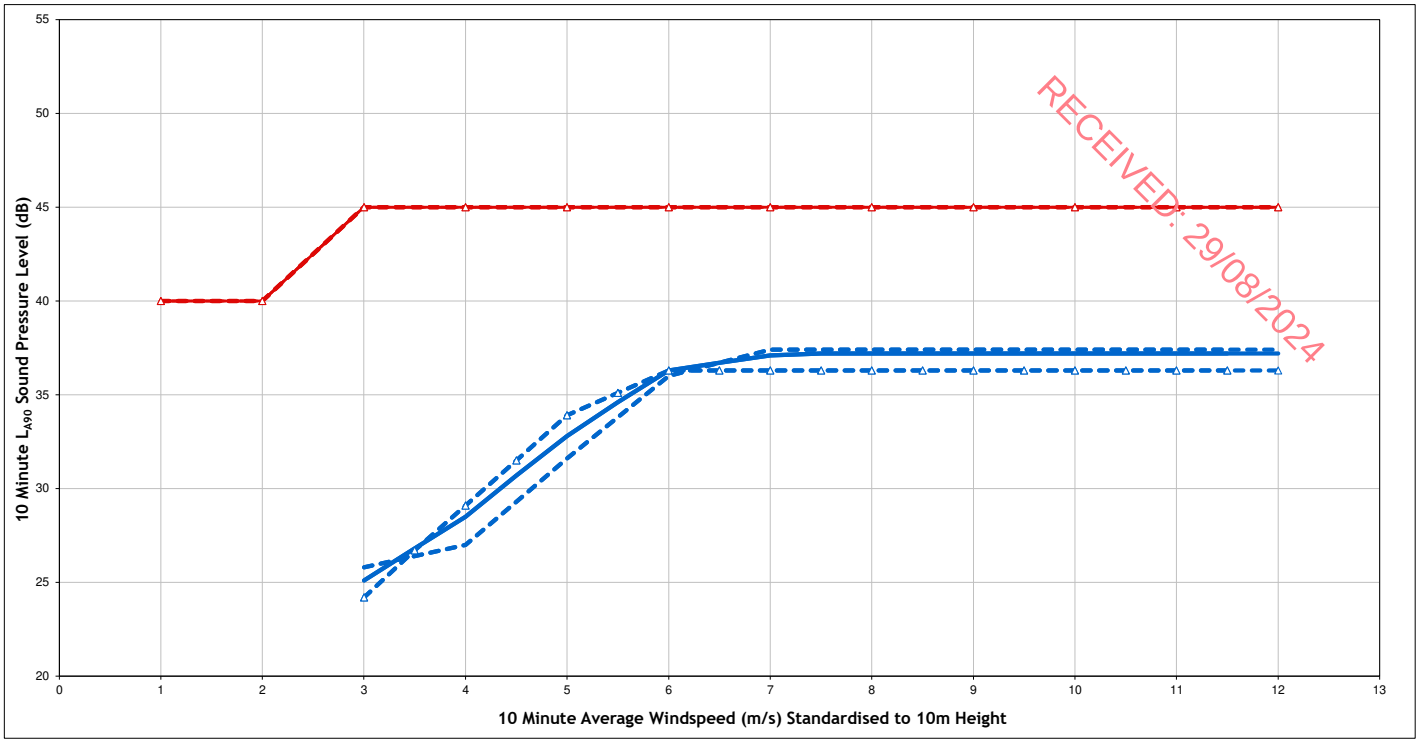
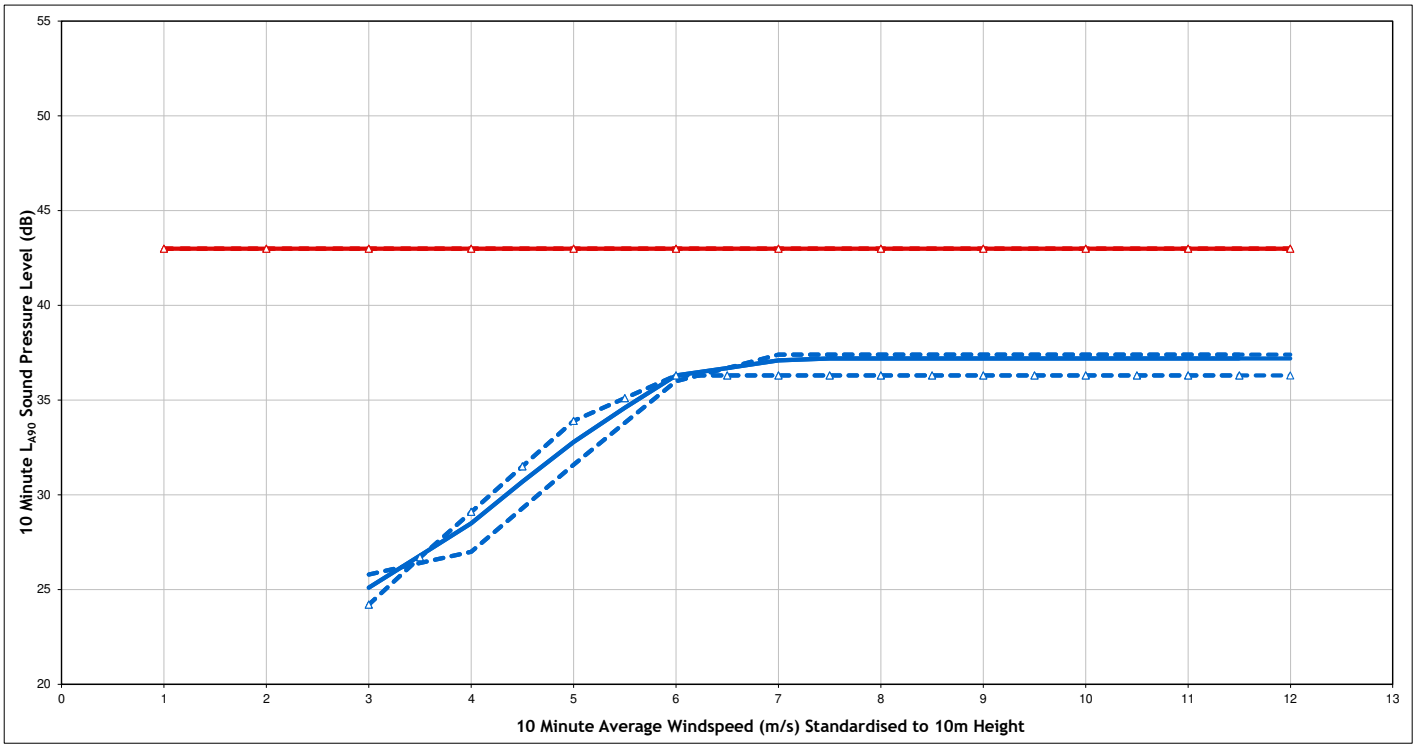
Daytime - NAL1 - NSR10



Night Time - NAL1 - NSR10

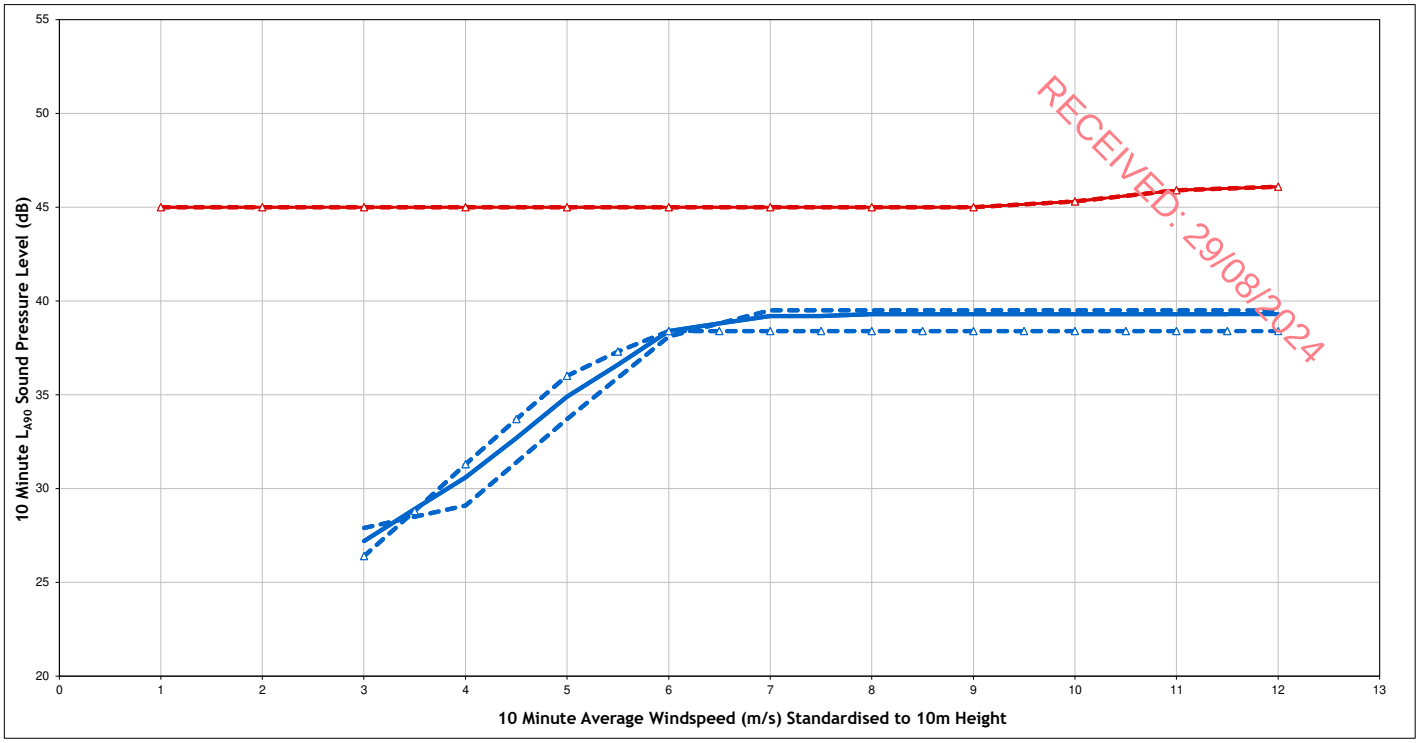


Legend:

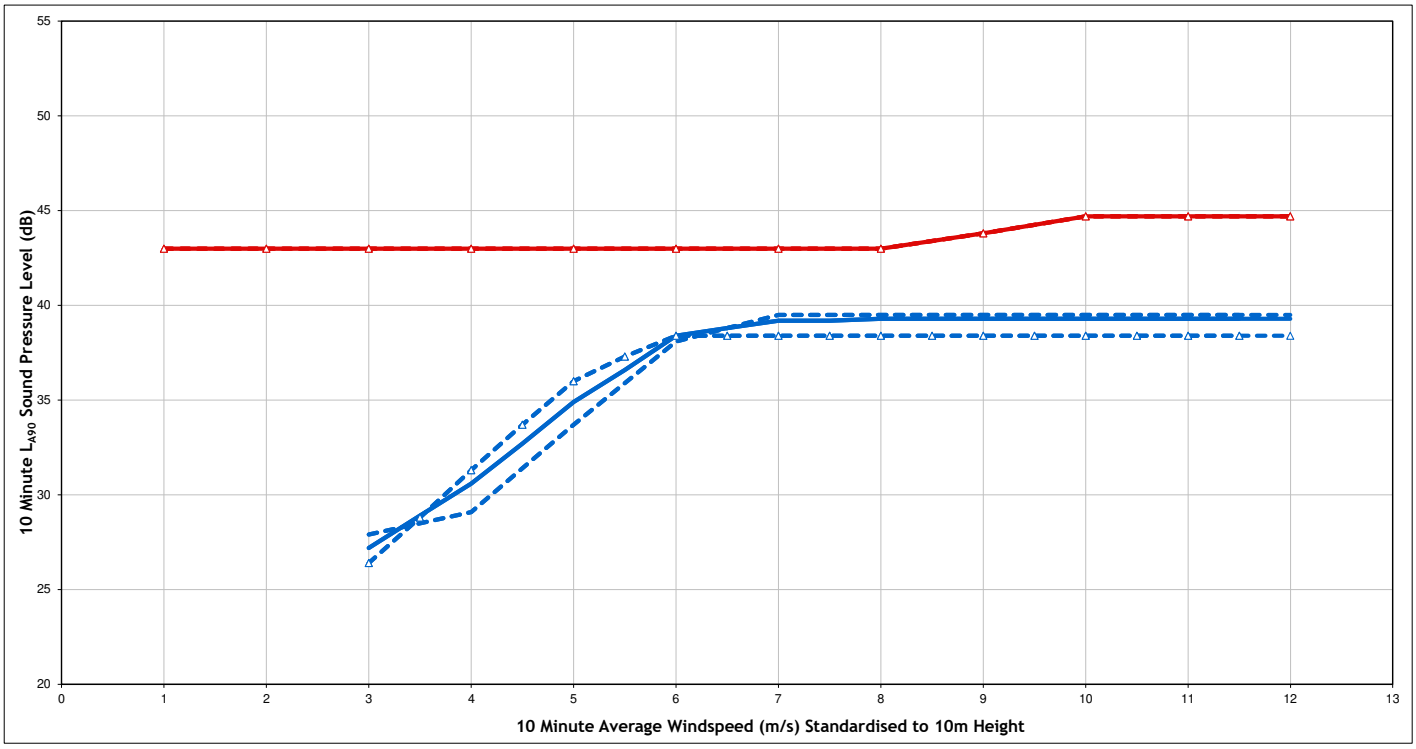
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL1 - NSR10
Figure Number	Figure A1.4a
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL2 - NSR2



Night Time - NAL2 - NSR2

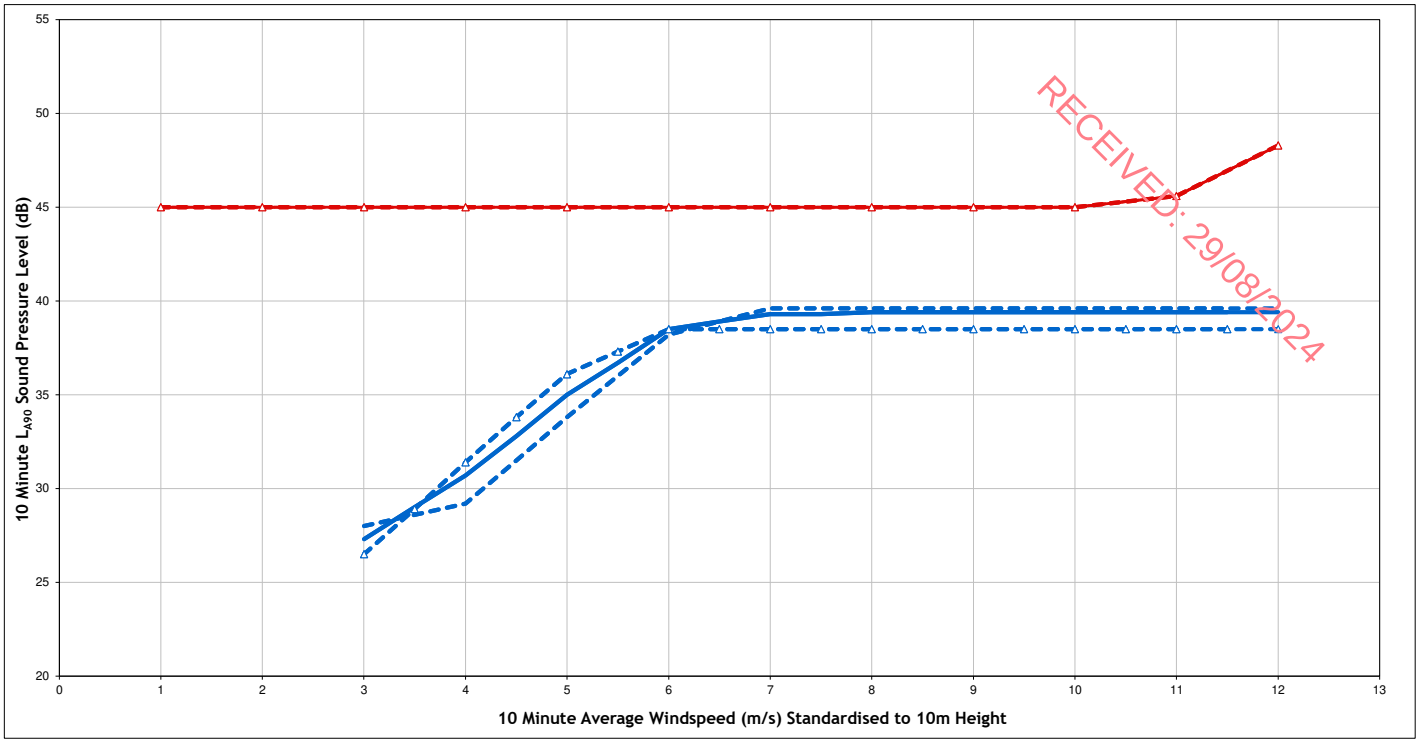


Legend:

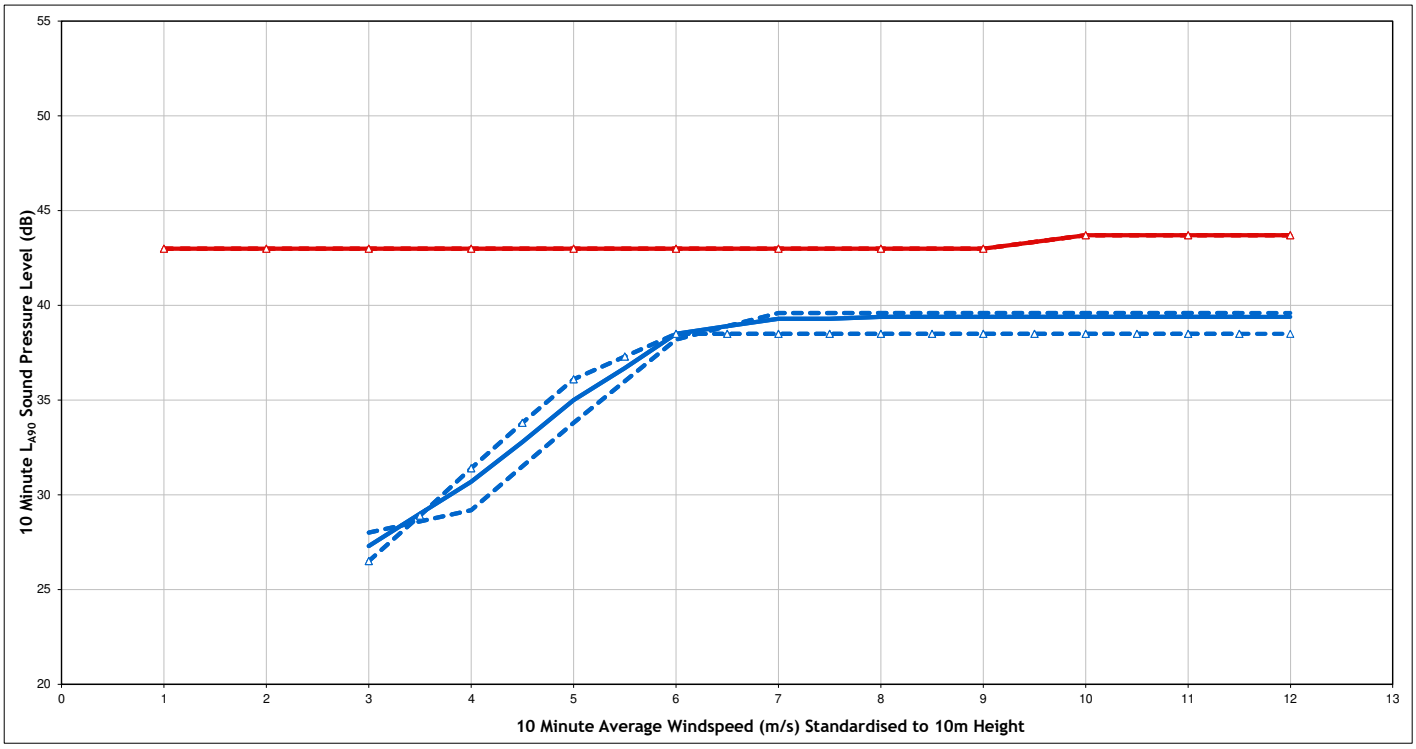
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL2 - NSR2
Figure Number	Figure A1.4b
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL3 - NSR7



Night Time - NAL3 - NSR7



Legend:

- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL3 - NSR7
Figure Number	Figure A1.4c
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

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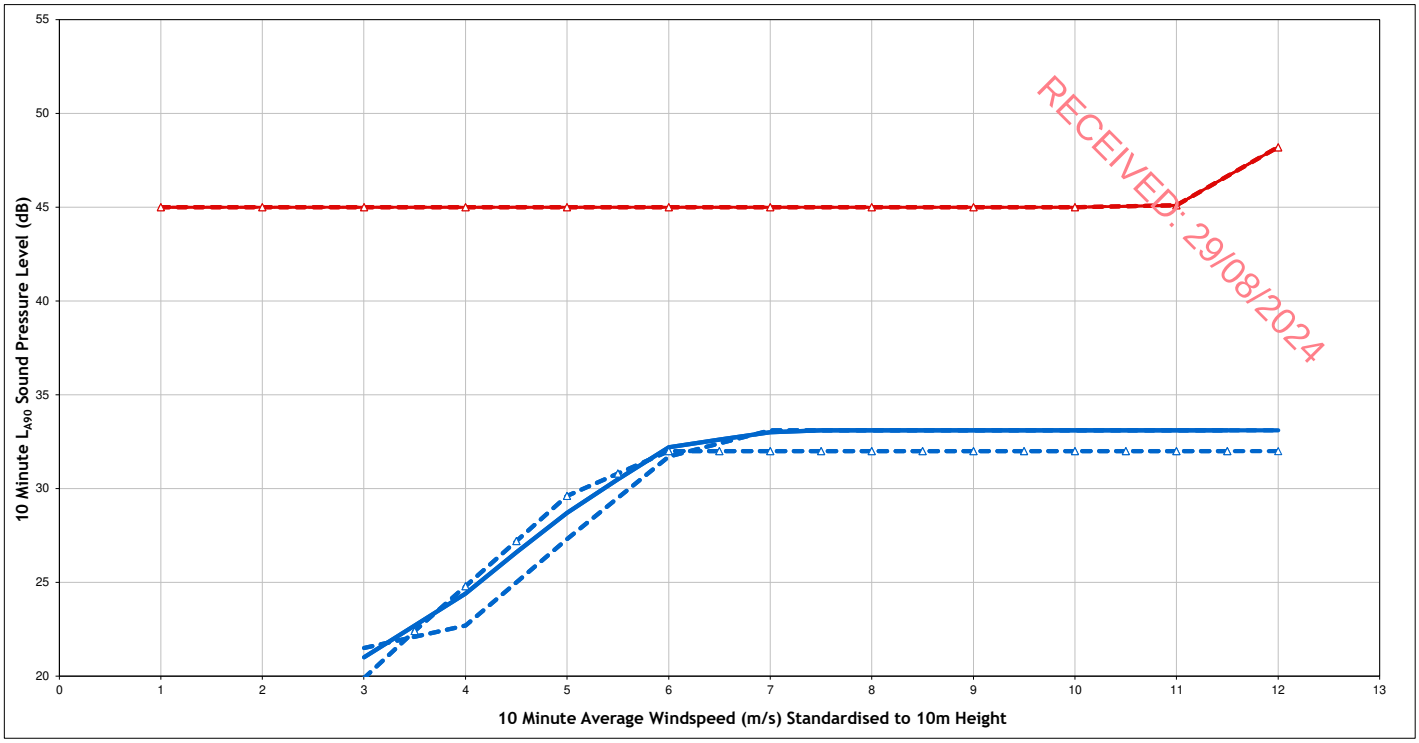
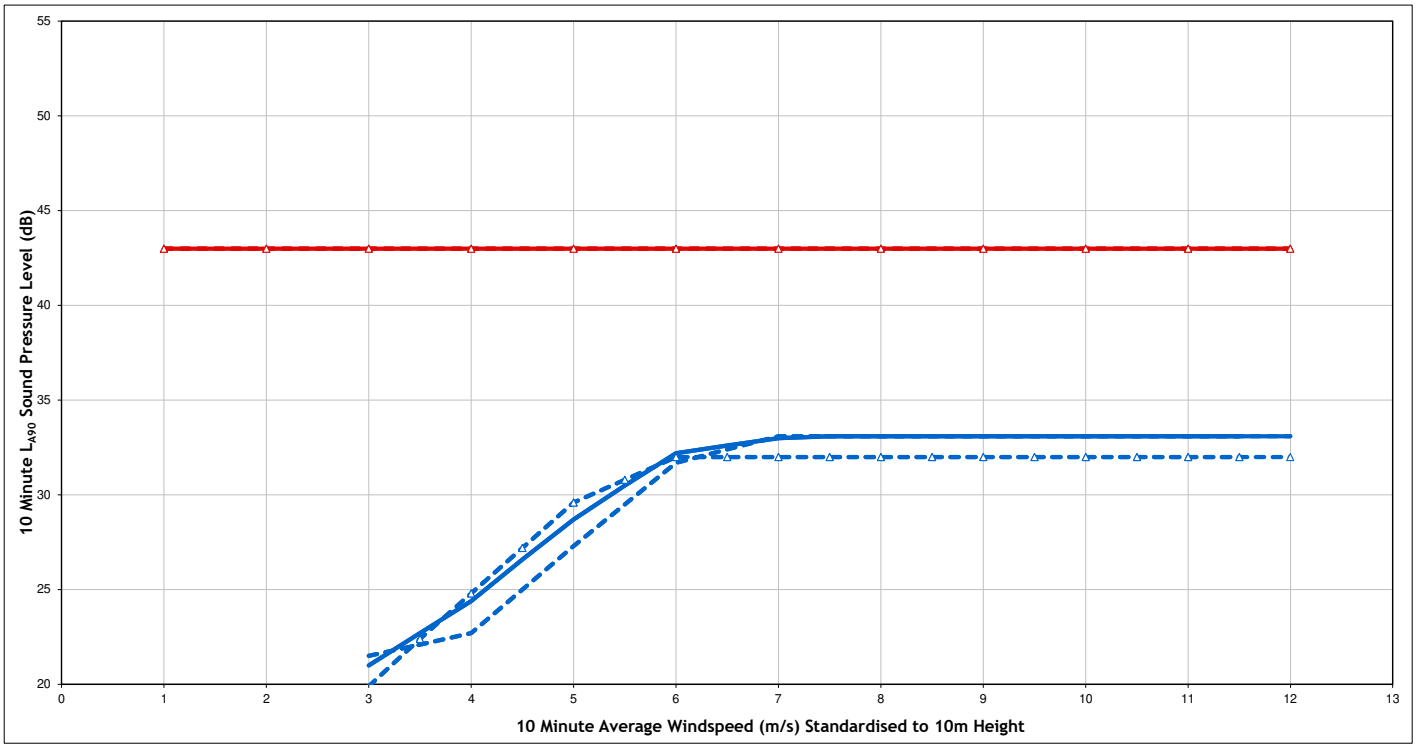
Daytime - NAL4 - NSR65



Night Time - NAL4 - NSR65

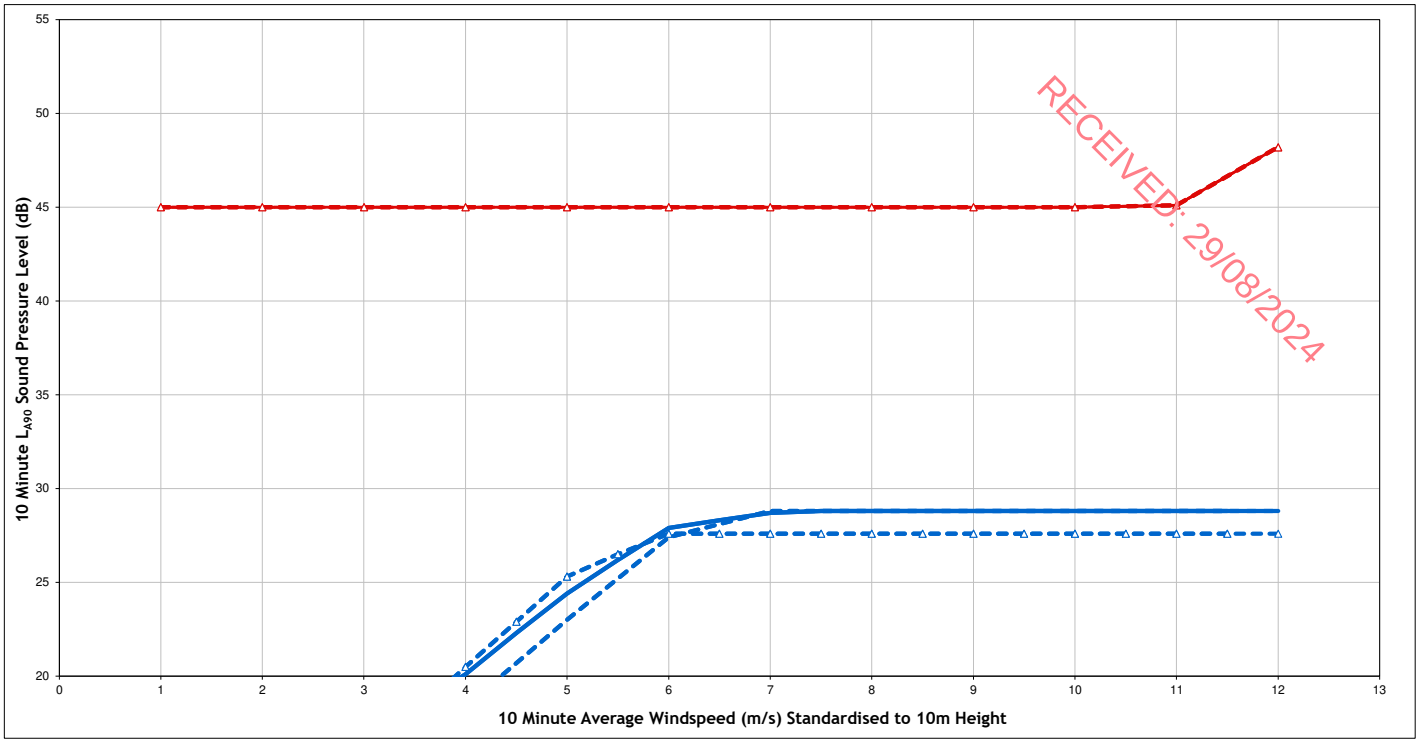


Legend:

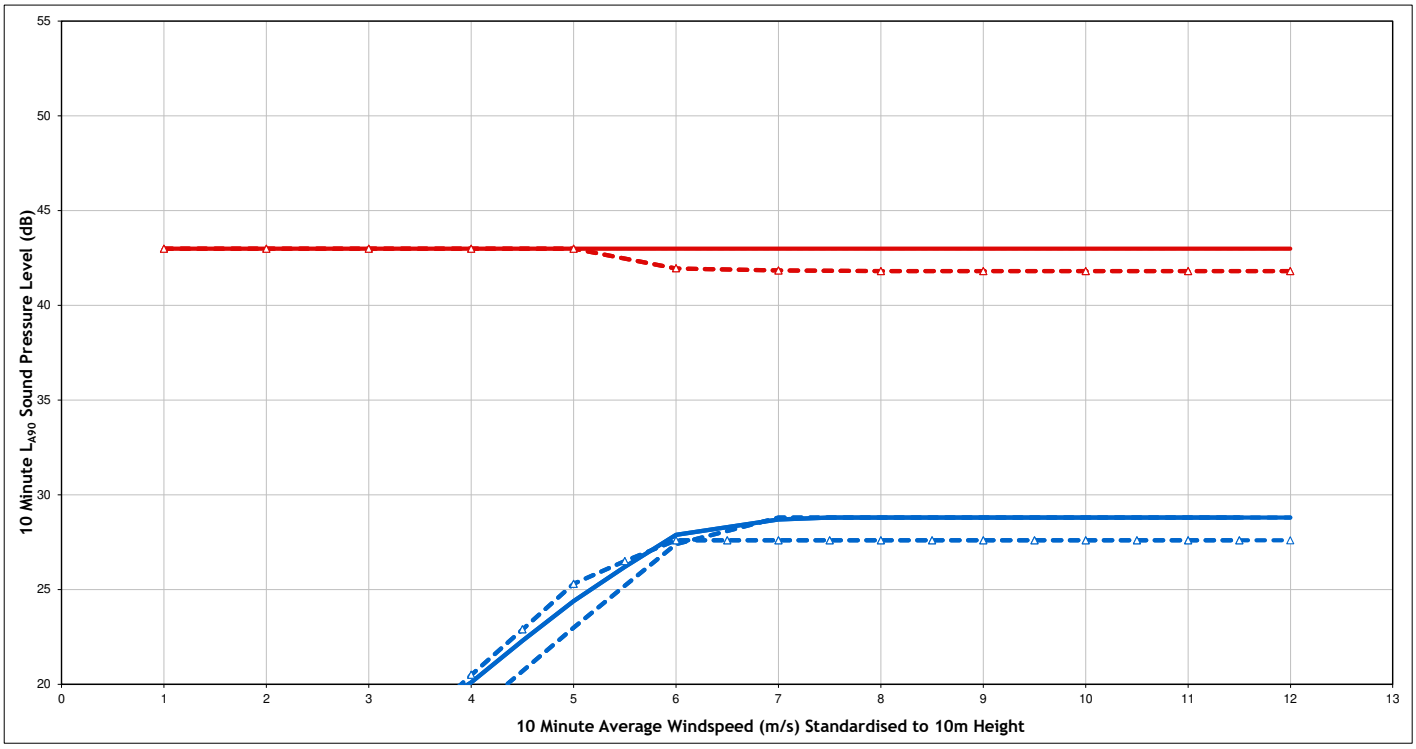
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL4 - NSR65
Figure Number	Figure A1.4d
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL5 - NSR87



Night Time - NAL5 - NSR87

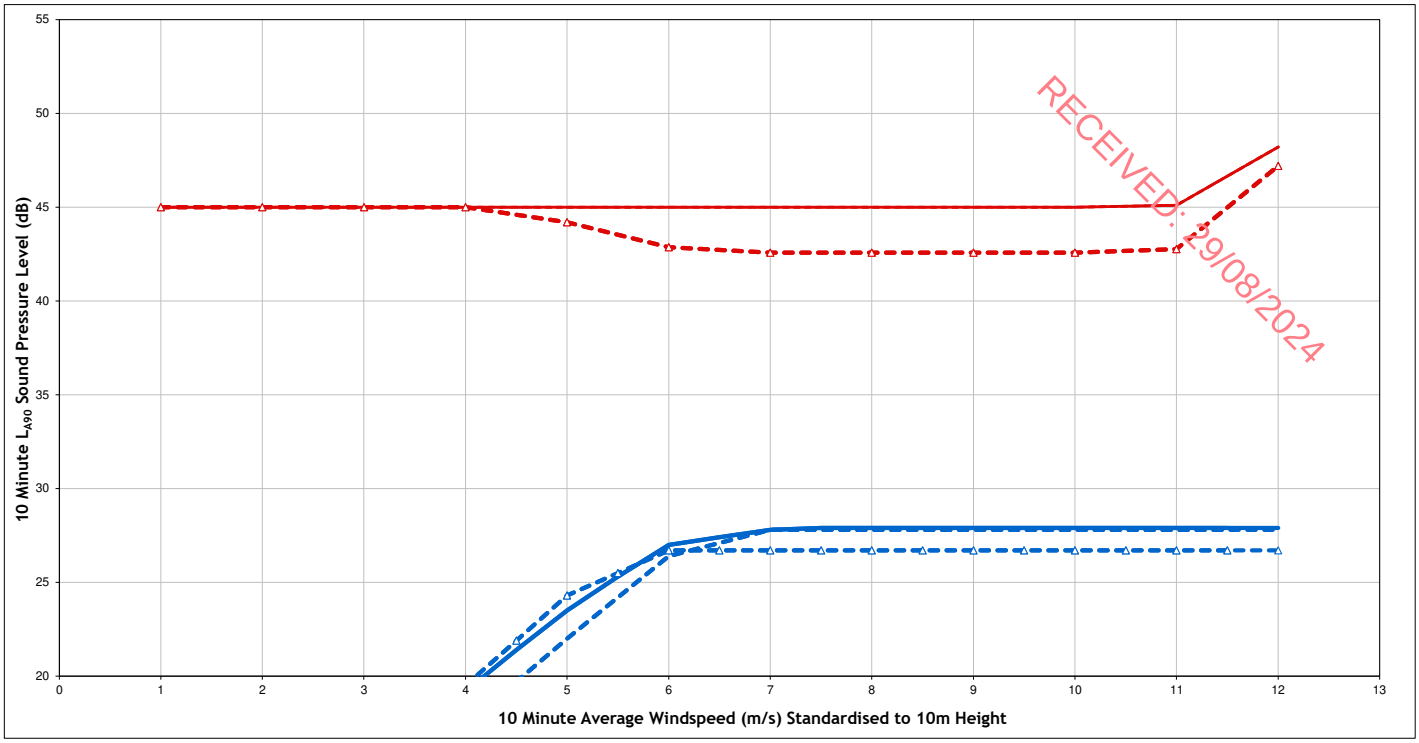


Legend:

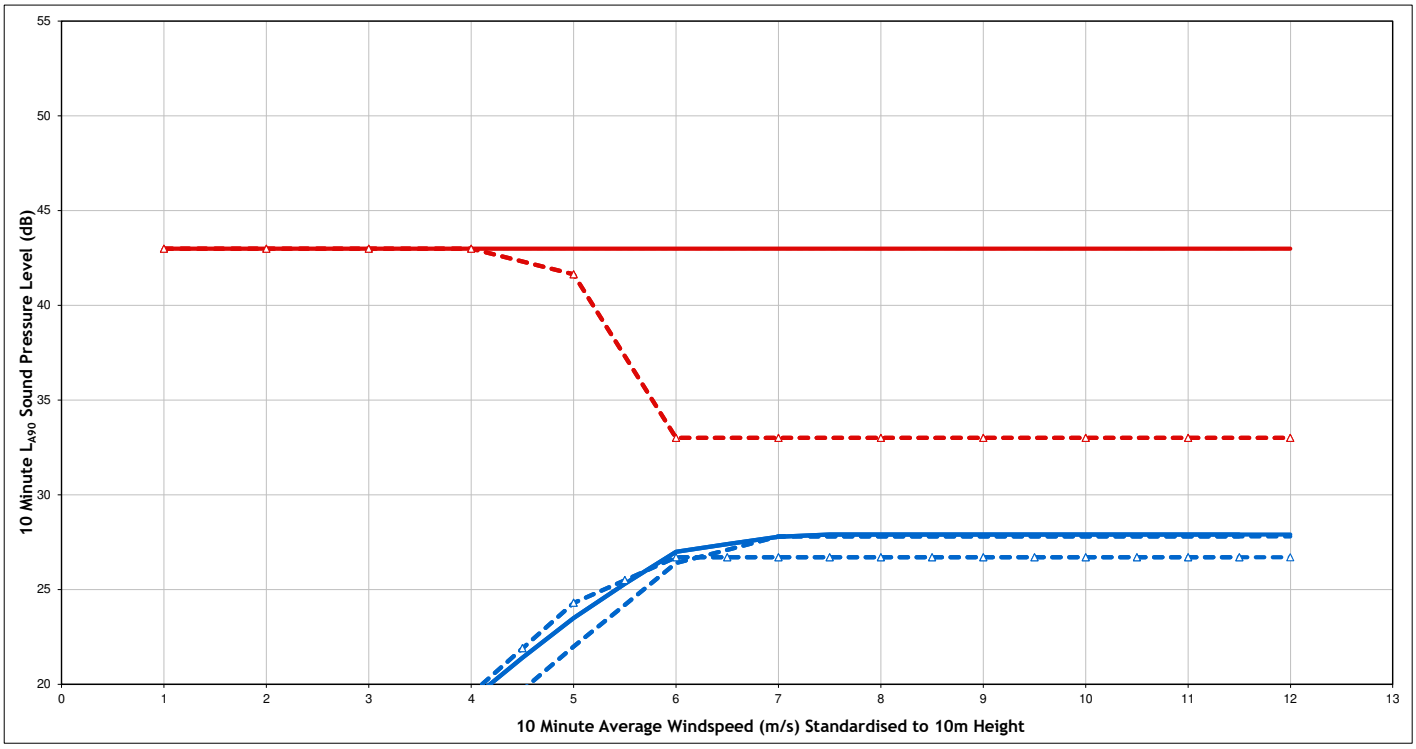
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL5 - NSR87
Figure Number	Figure A1.4e
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL6 - NSR100



Night Time - NAL6 - NSR100

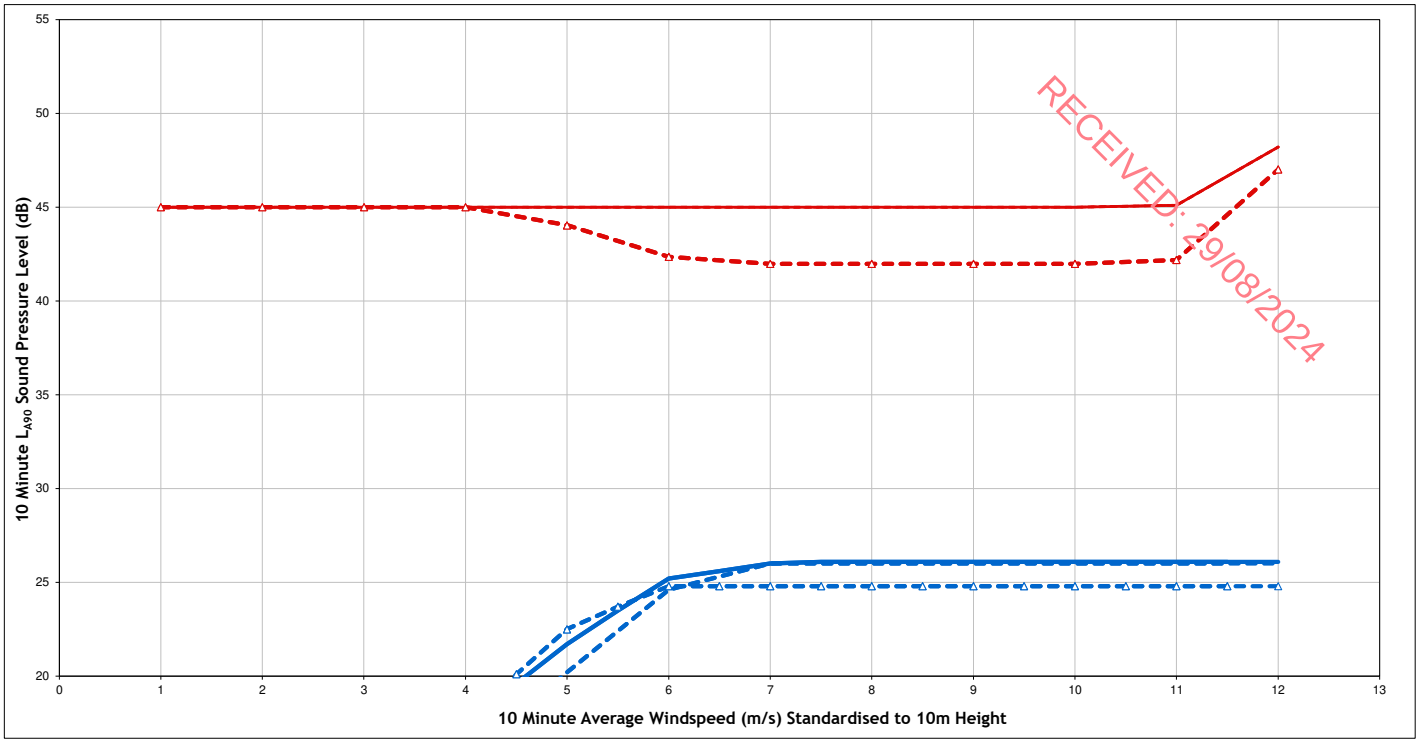


Legend:

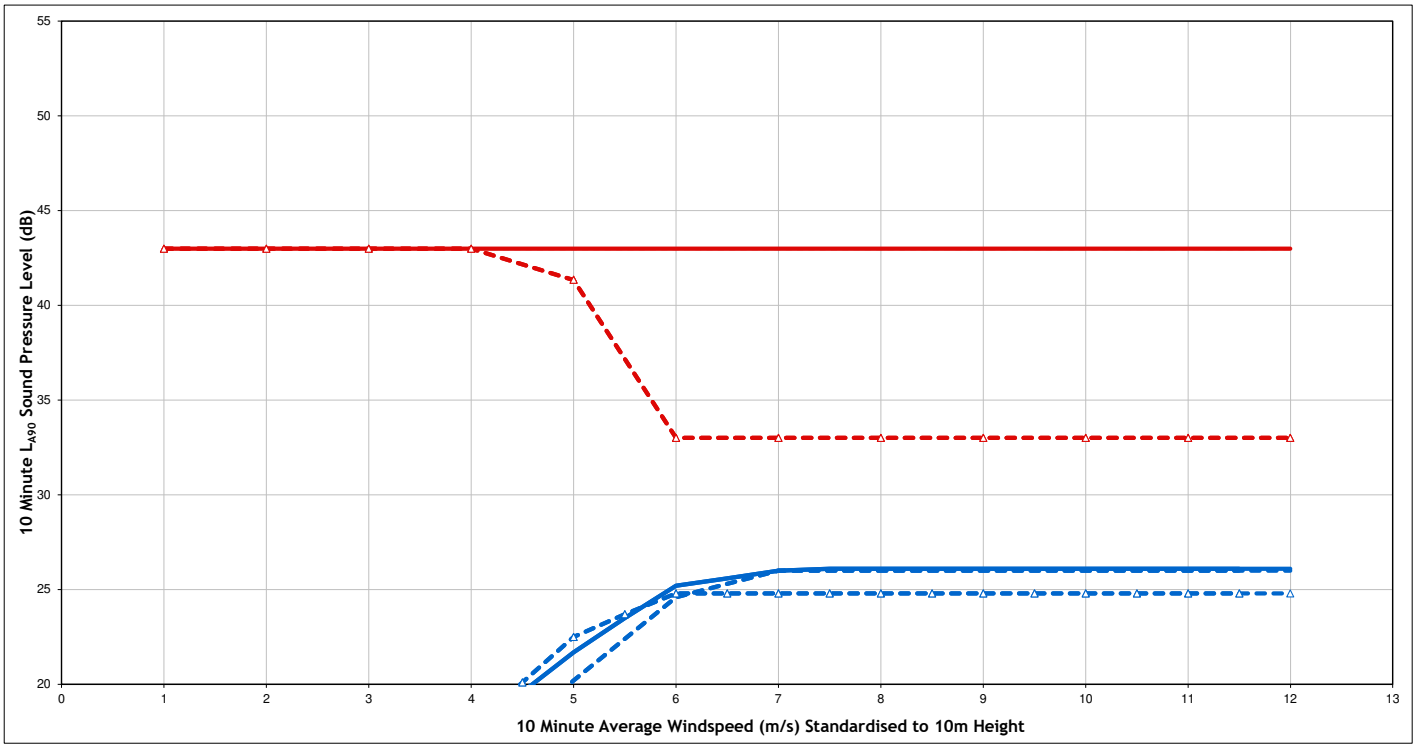
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL6 - NSR100
Figure Number	Figure A1.4f
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL7 - NSR126



Night Time - NAL7 - NSR126



Legend:

- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL7 - NSR126
Figure Number	Figure A1.4g
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

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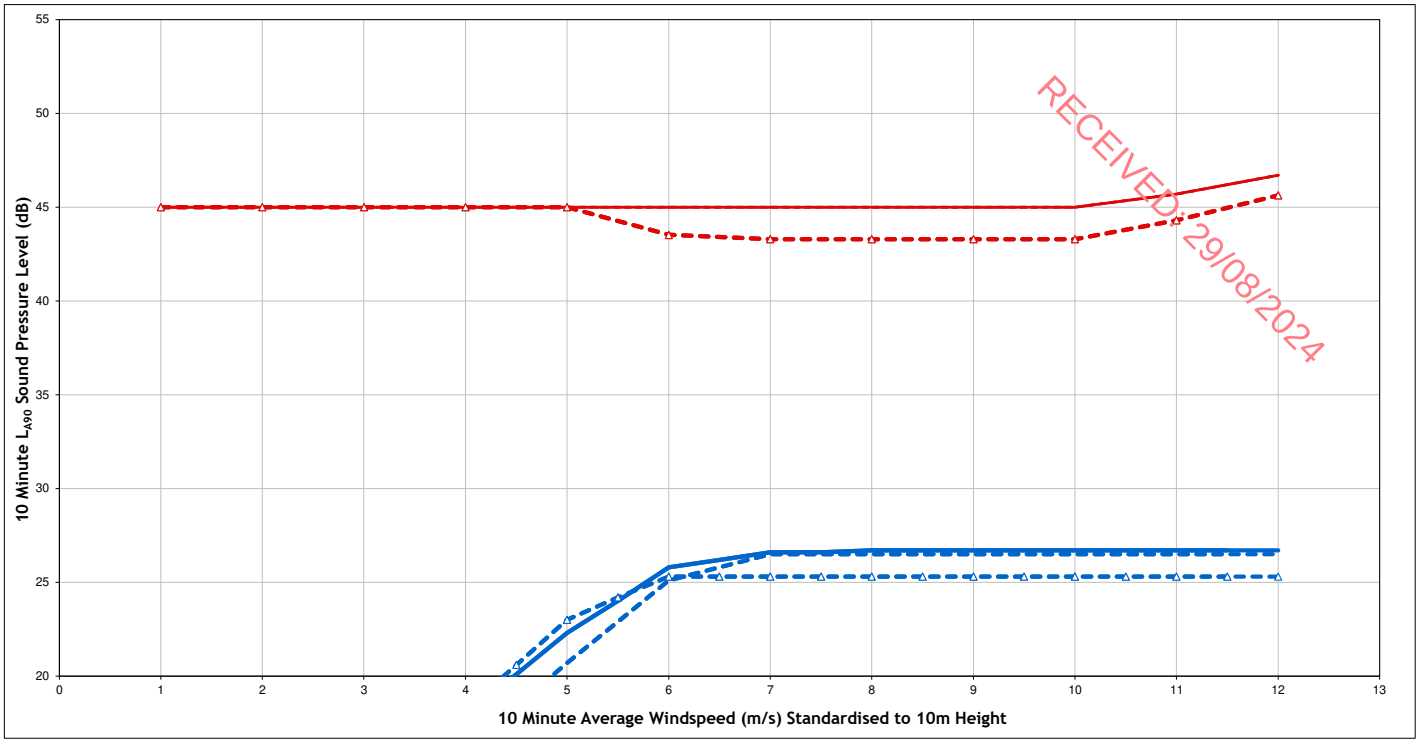
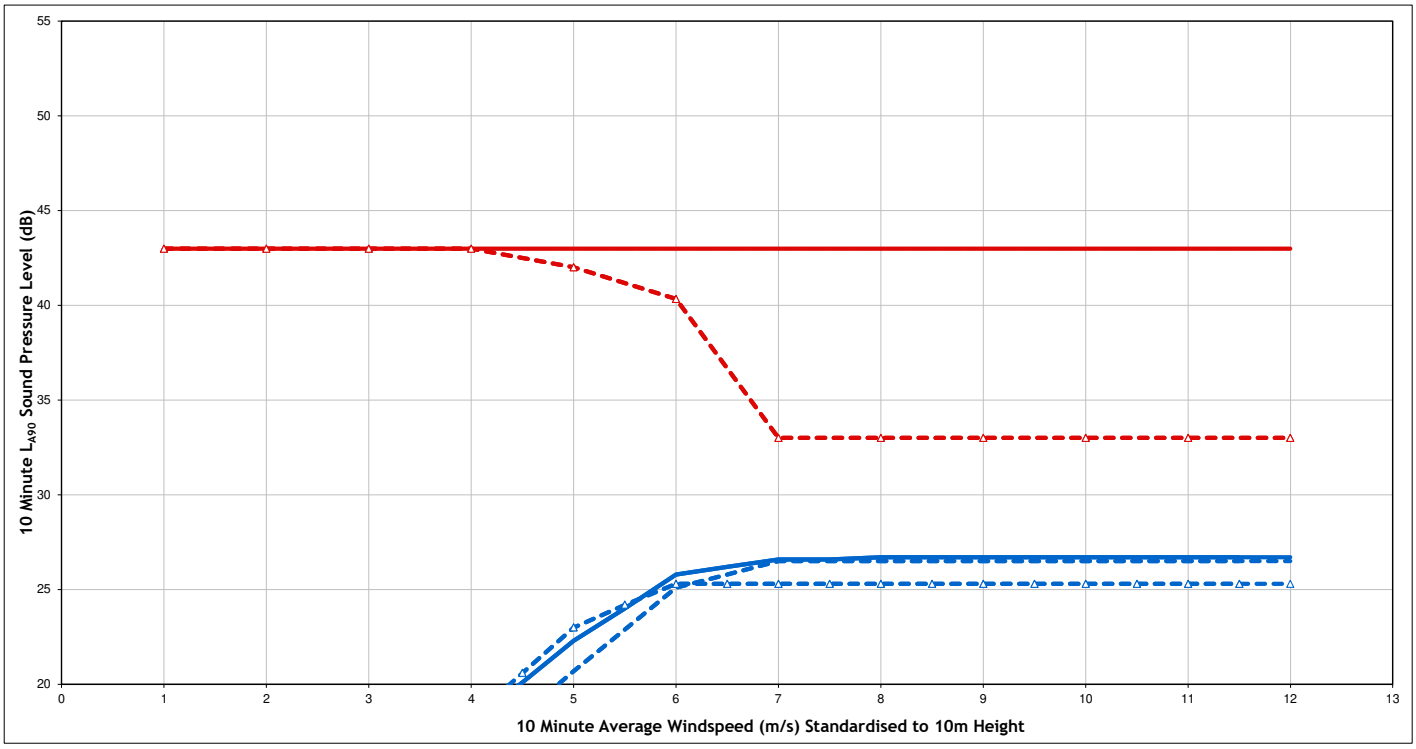
Daytime - NAL8 - NSR133



Night Time - NAL8 - NSR133



Legend:

- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL8 - NSR133
Figure Number	Figure A1.4h
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

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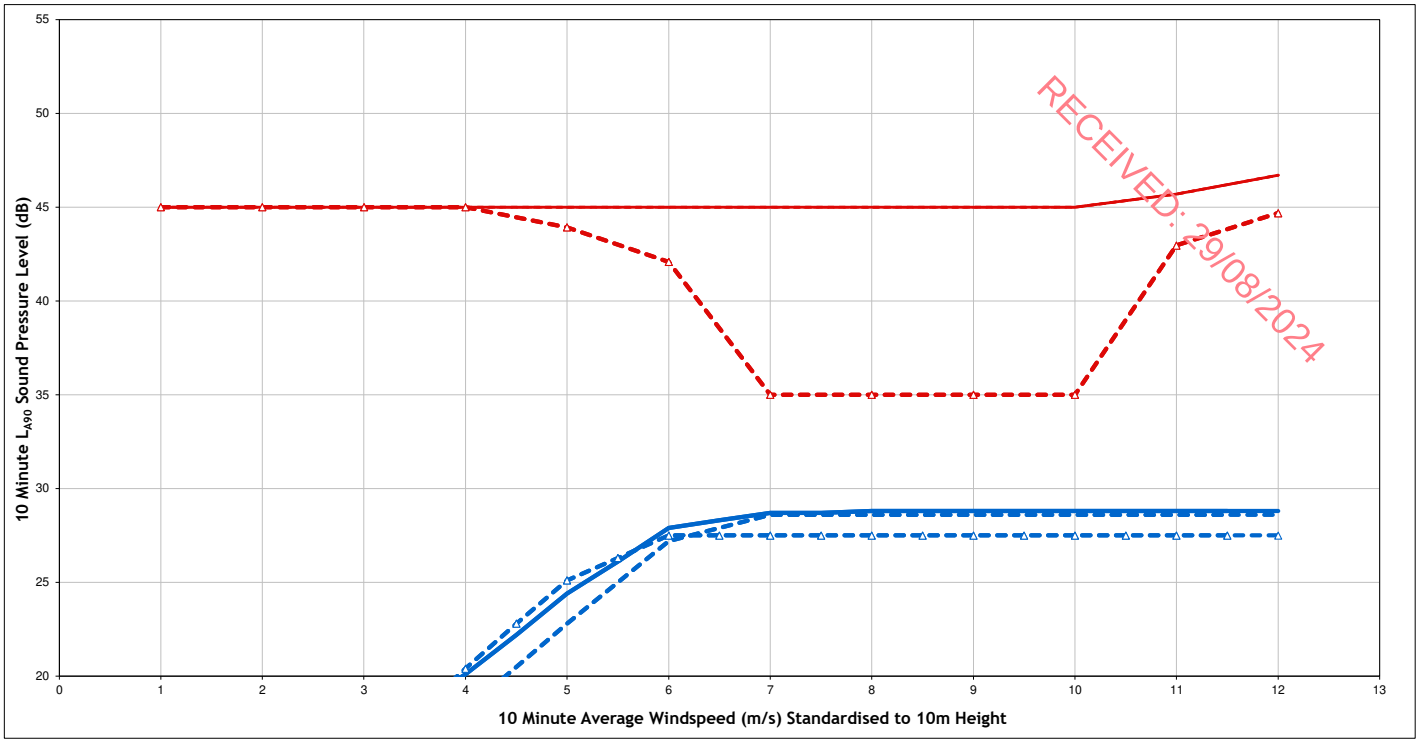
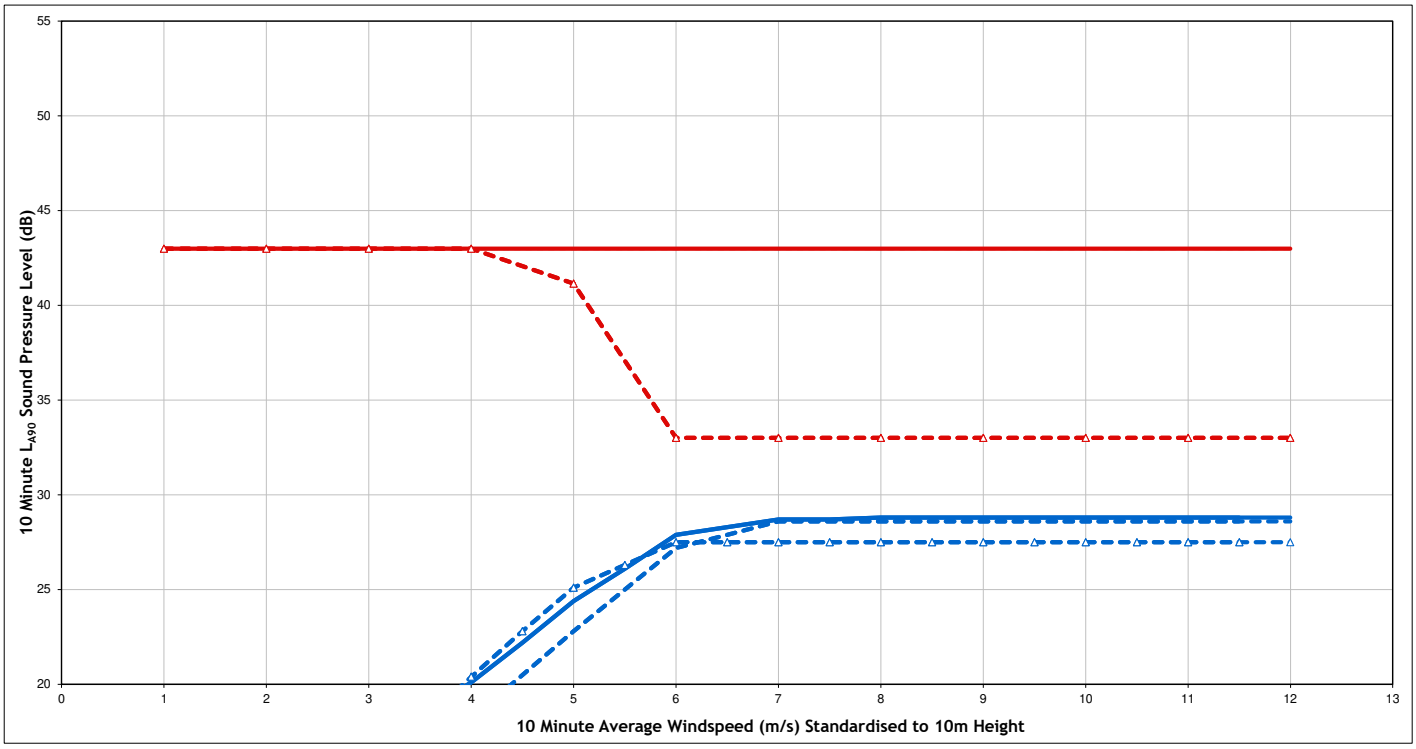
Daytime - NAL9 - NSR105



Night Time - NAL9 - NSR105



Legend:

- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL9 - NSR105
Figure Number	Figure A1.4i
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

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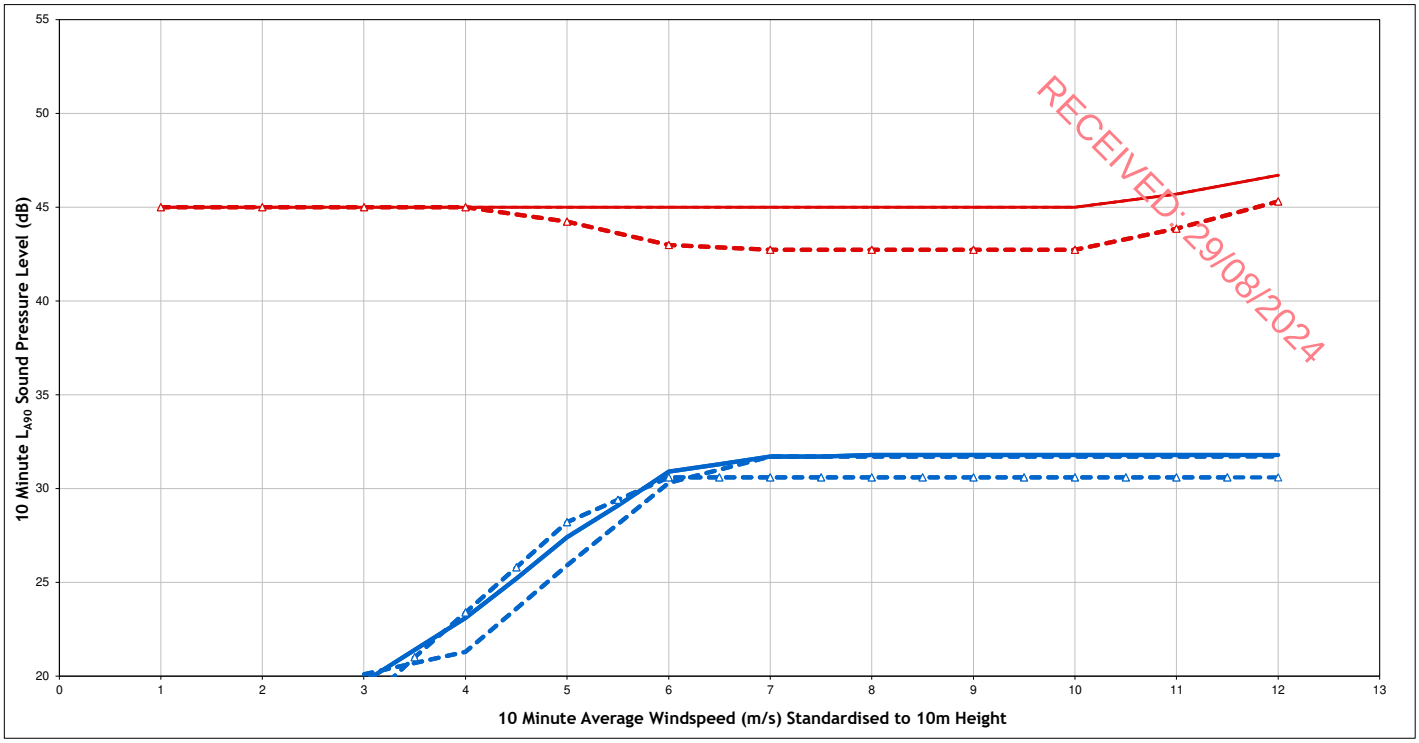
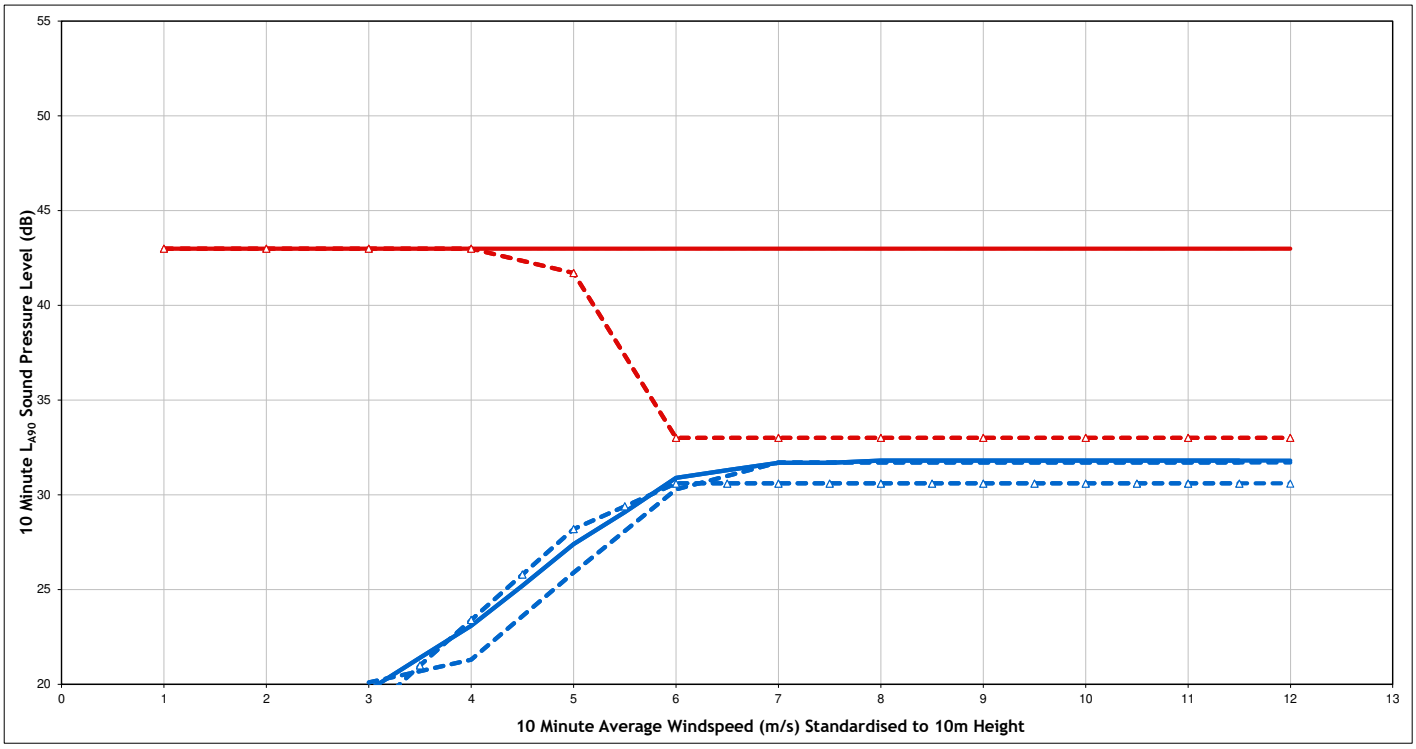
Daytime - NAL10 - NSR75



Night Time - NAL10 - NSR75



Legend:

- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL10 - NSR75
Figure Number	Figure A1.4j
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

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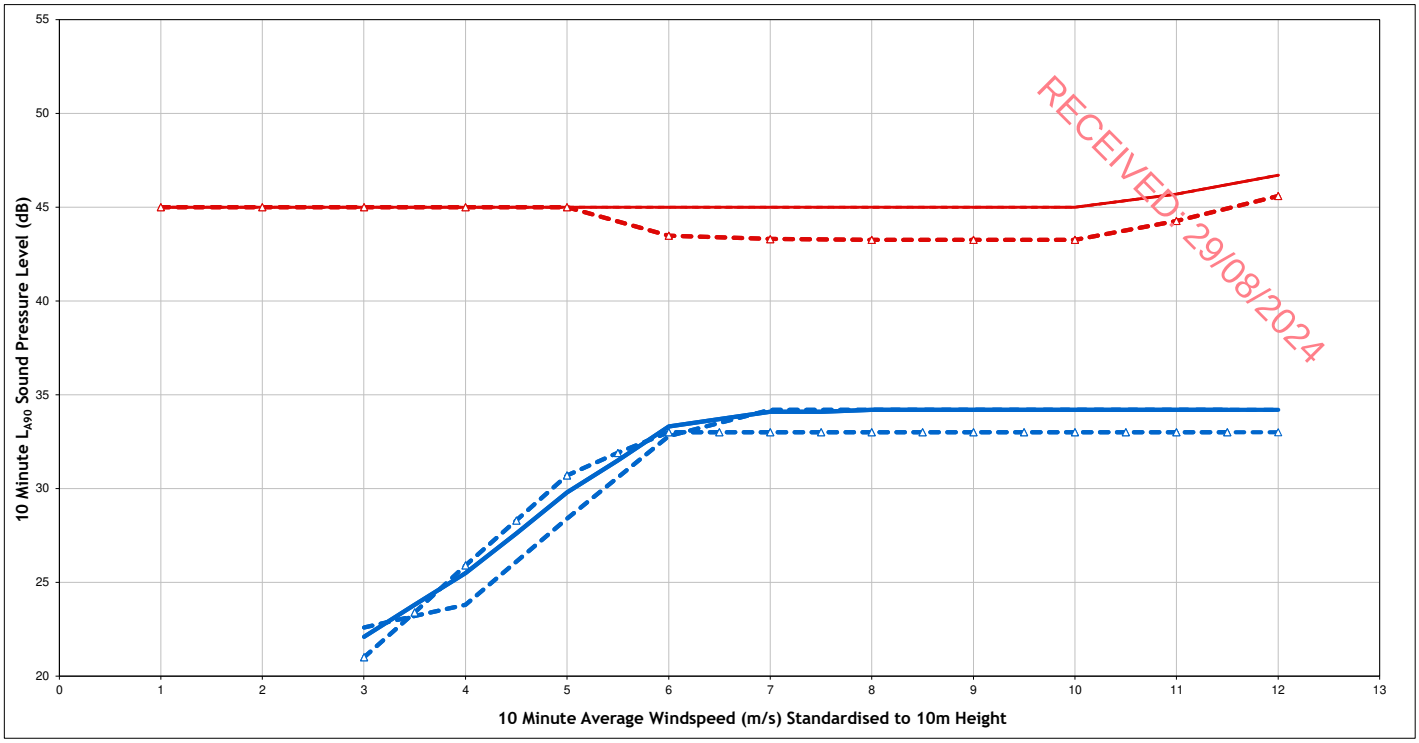
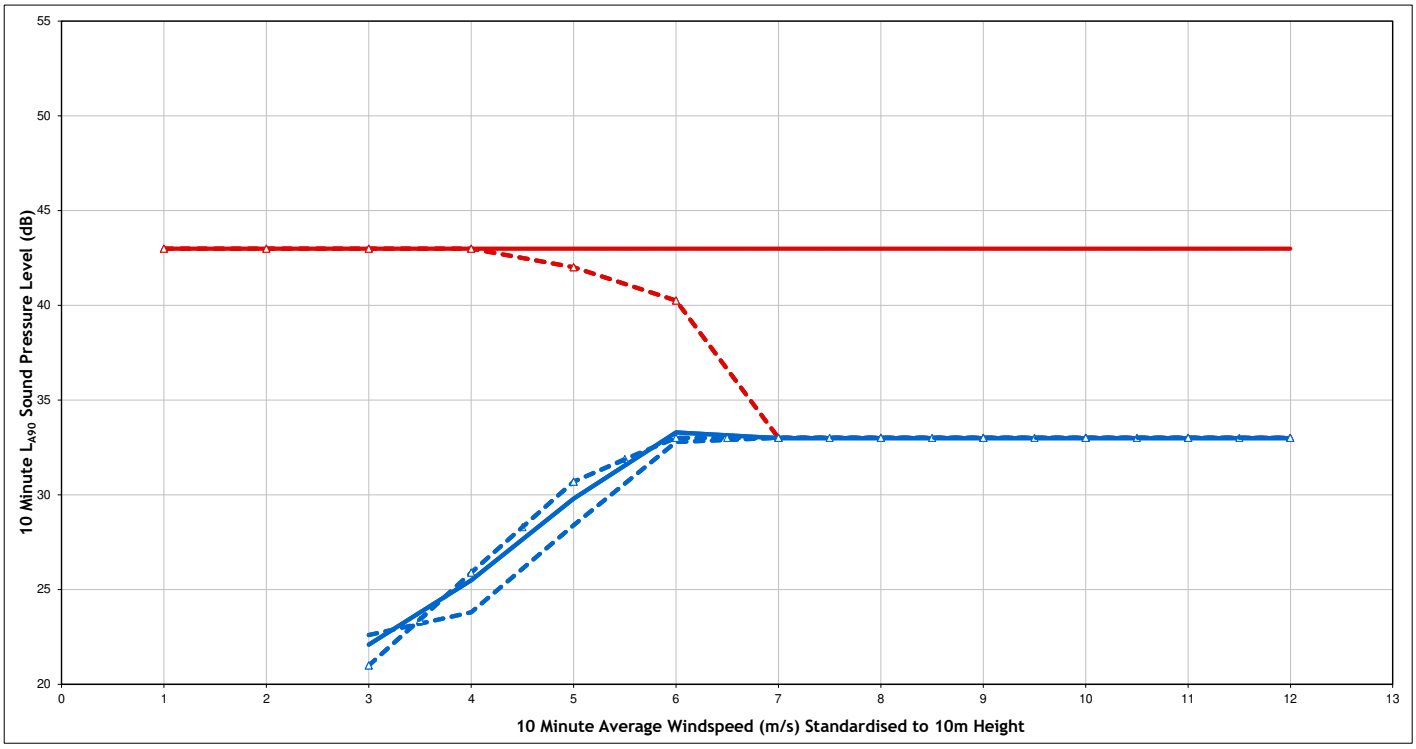
Daytime - NAL11 - NSR55



Night Time - NAL11 - NSR55



Legend:

- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL11 - NSR55
Figure Number	Figure A1.4k
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

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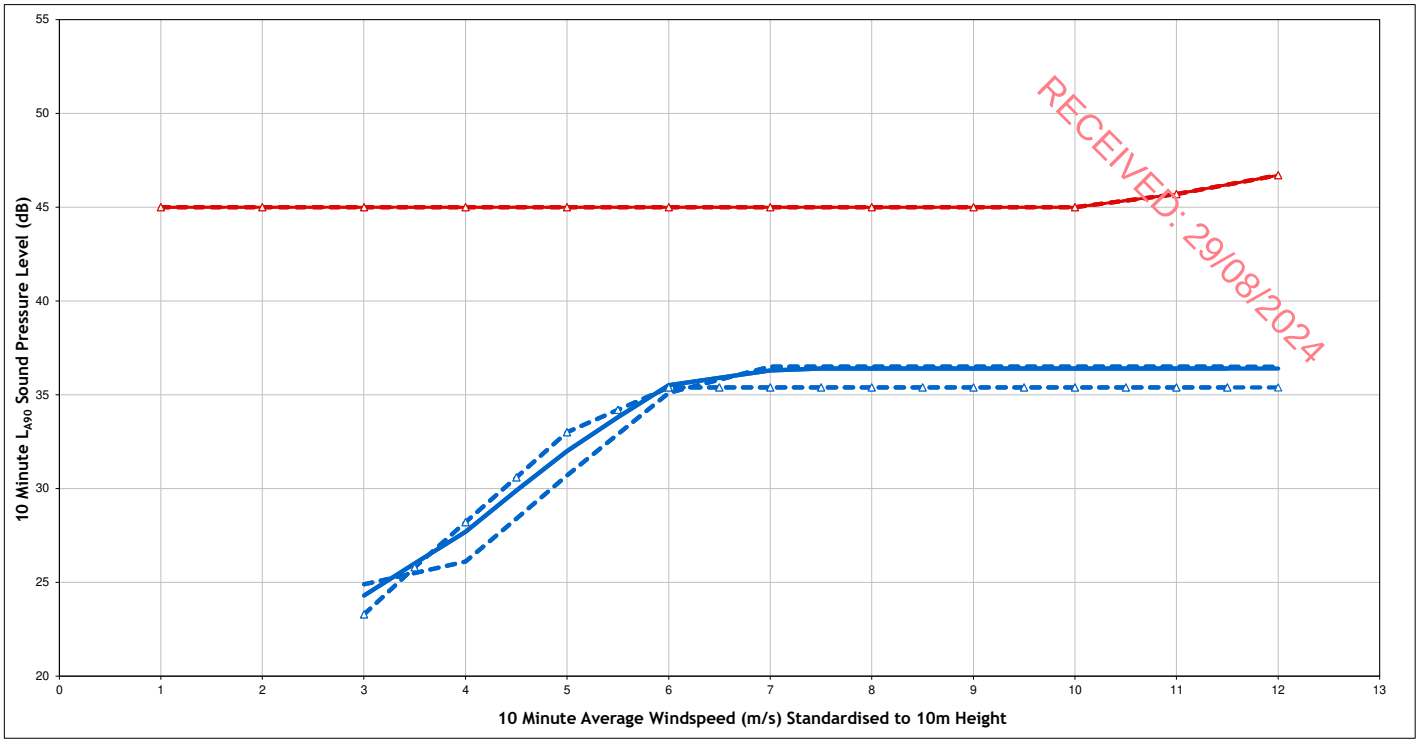
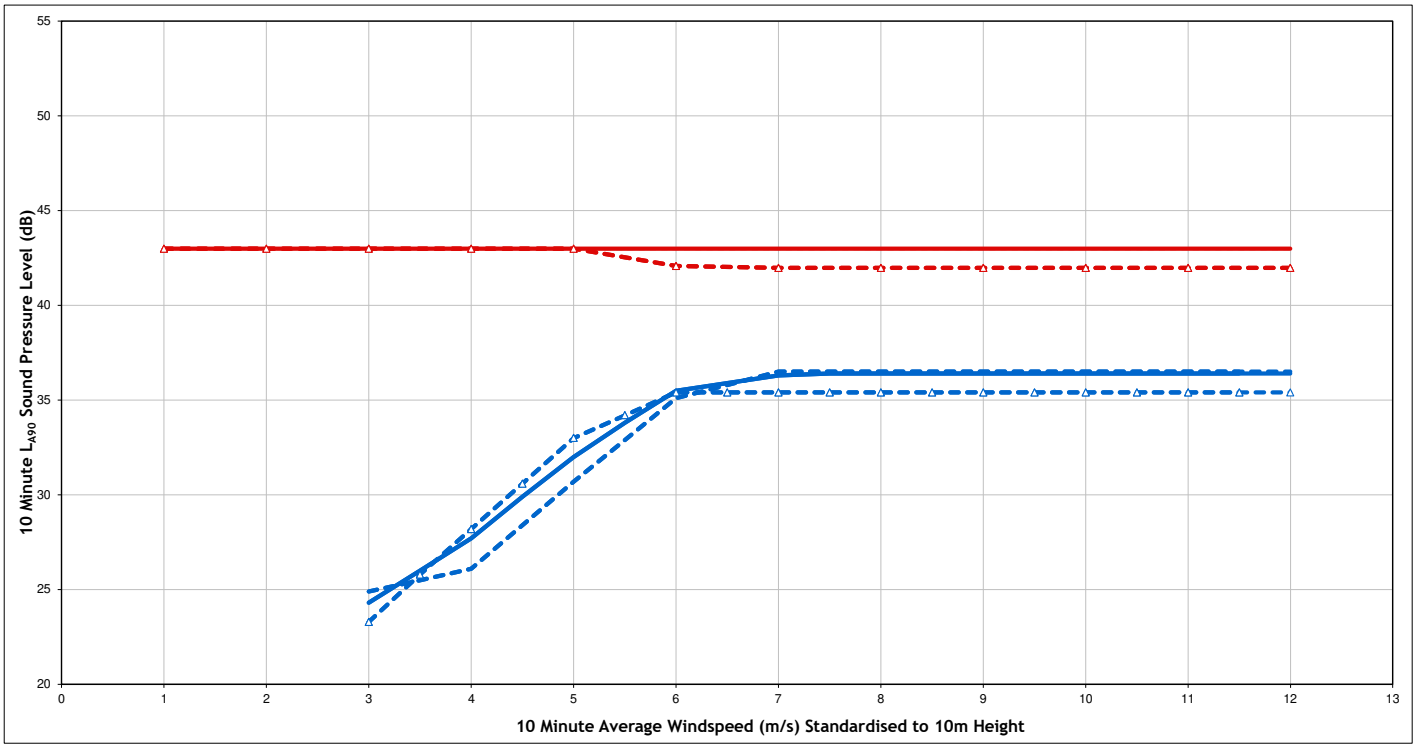
Daytime - NAL12 - NSR39



Night Time - NAL12 - NSR39

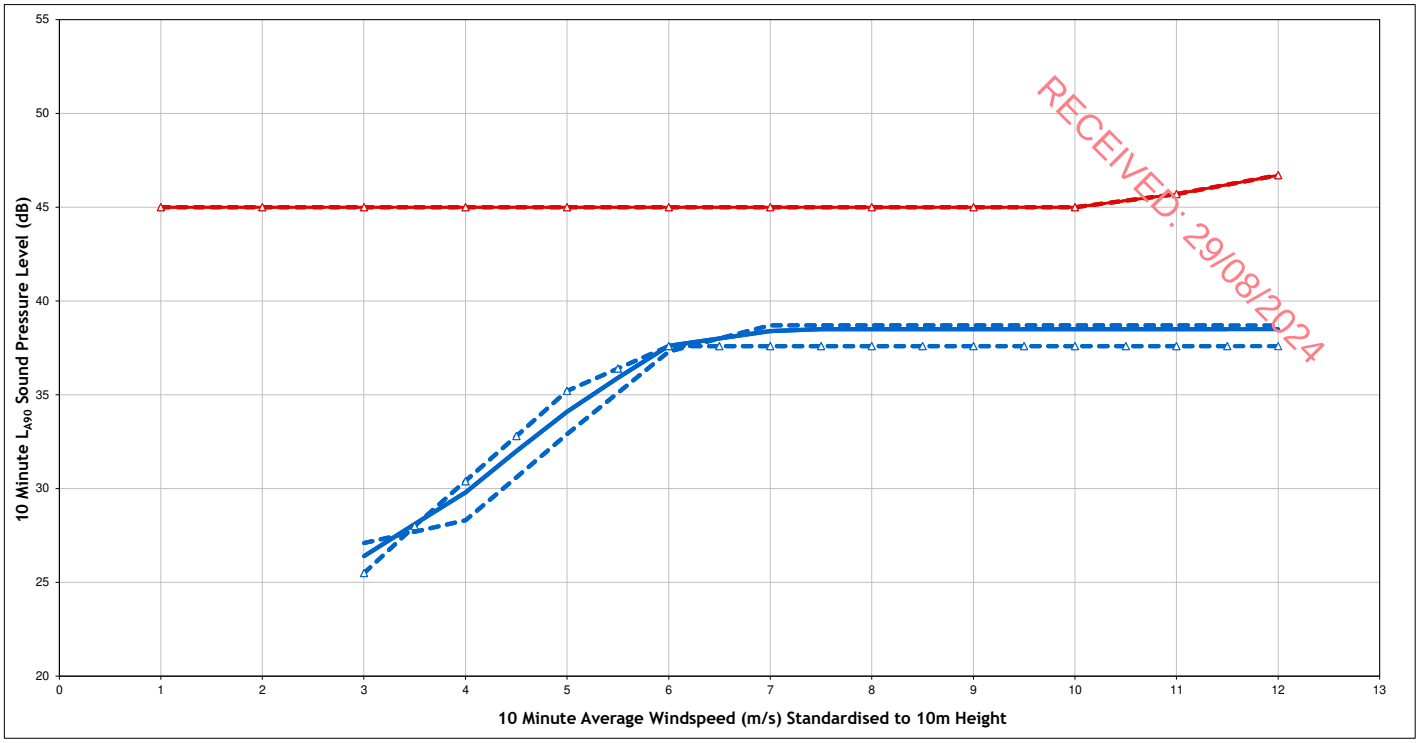


Legend:

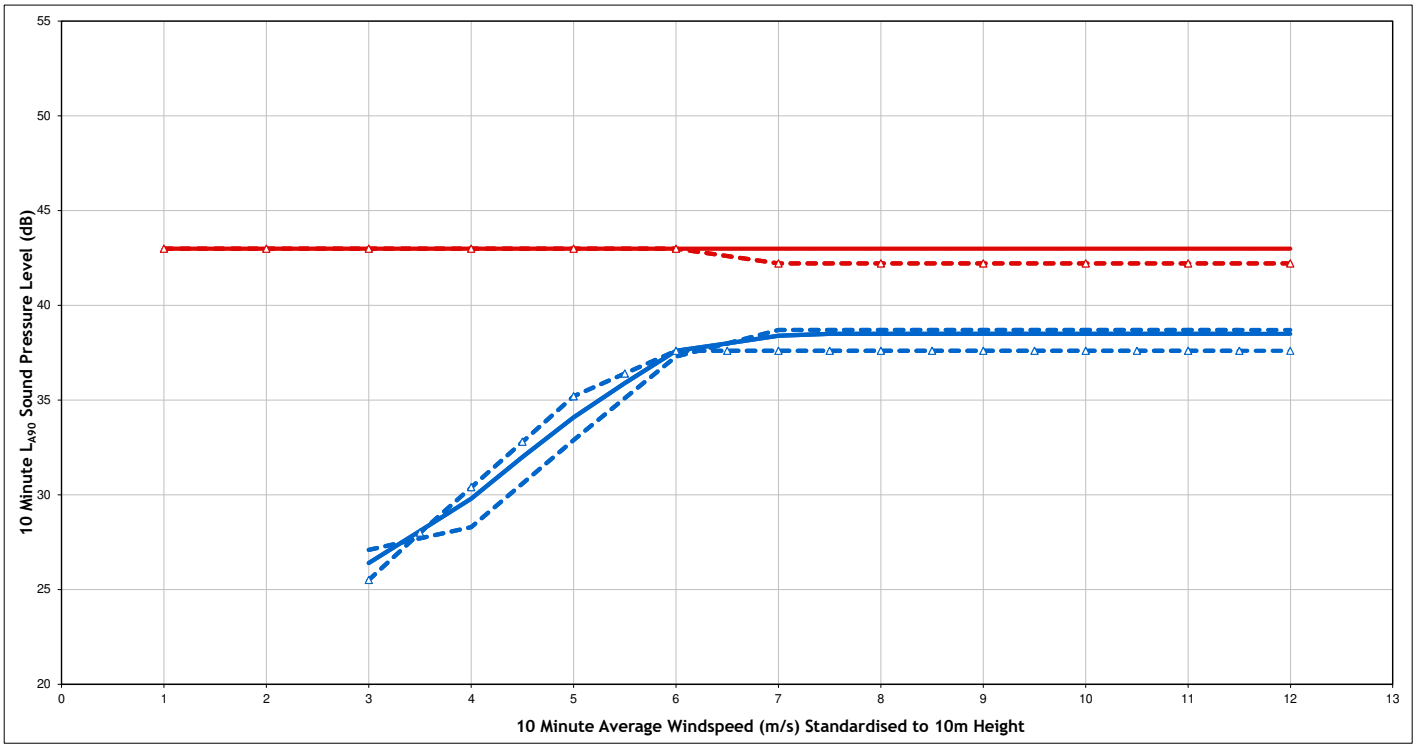
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL12 - NSR39
Figure Number	Figure A1.4l
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL13 - NSR16



Night Time - NAL13 - NSR16

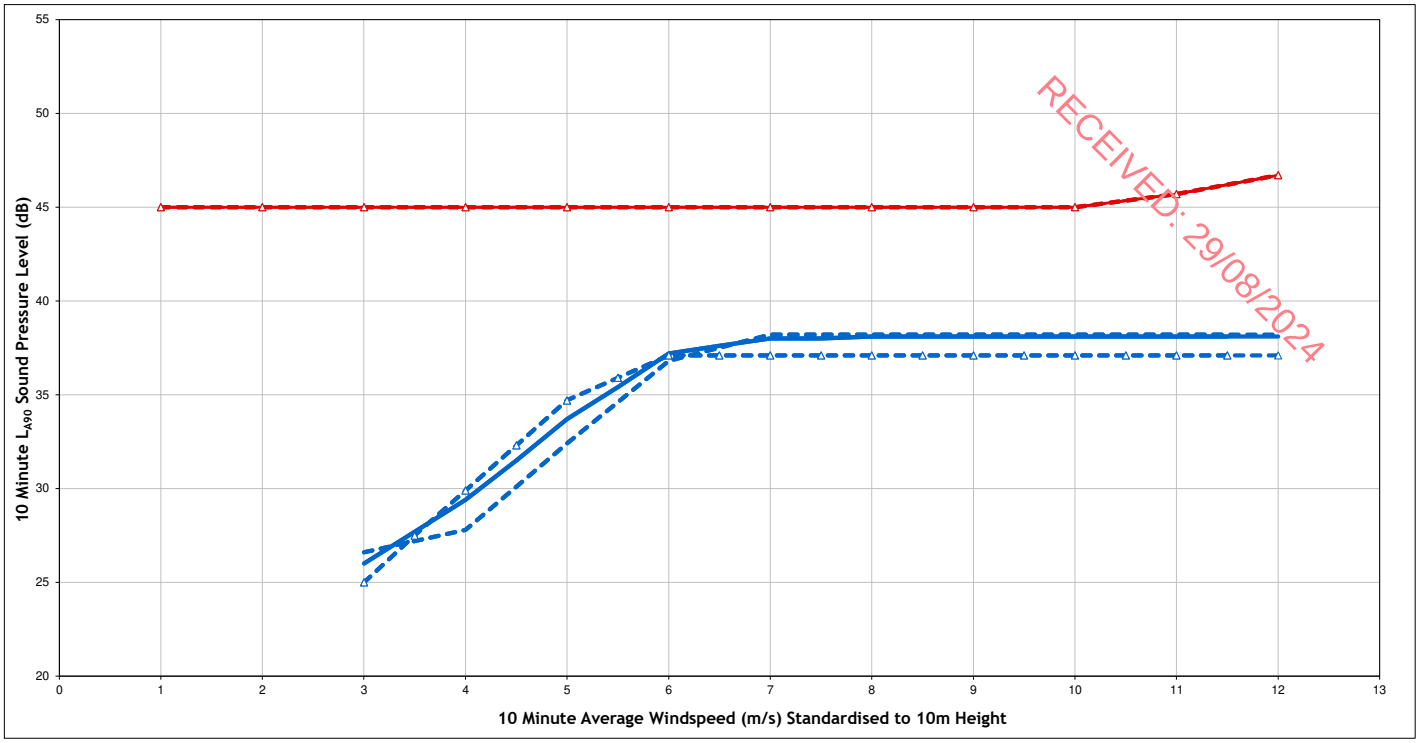


Legend:

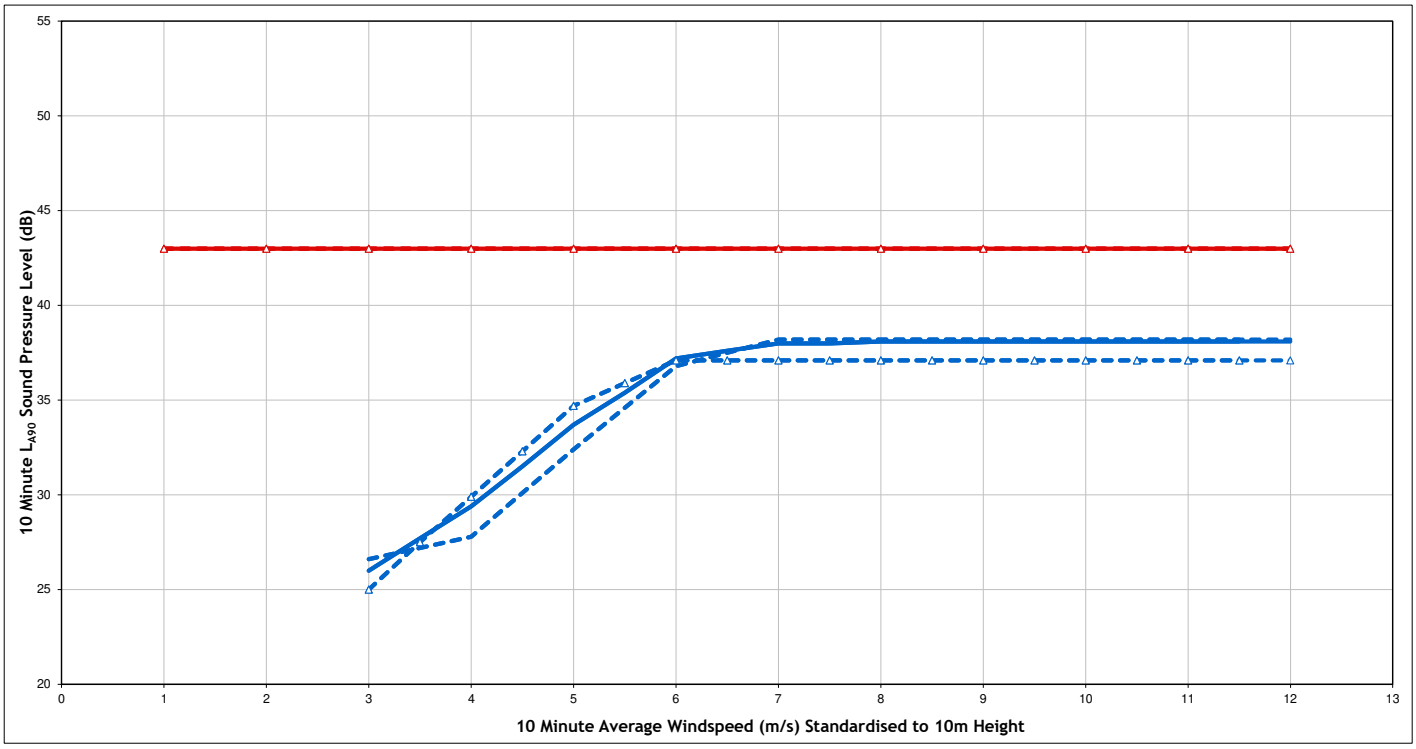
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL13 - NSR16
Figure Number	Figure A1.4m
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL14 - NSR34



Night Time - NAL14 - NSR34

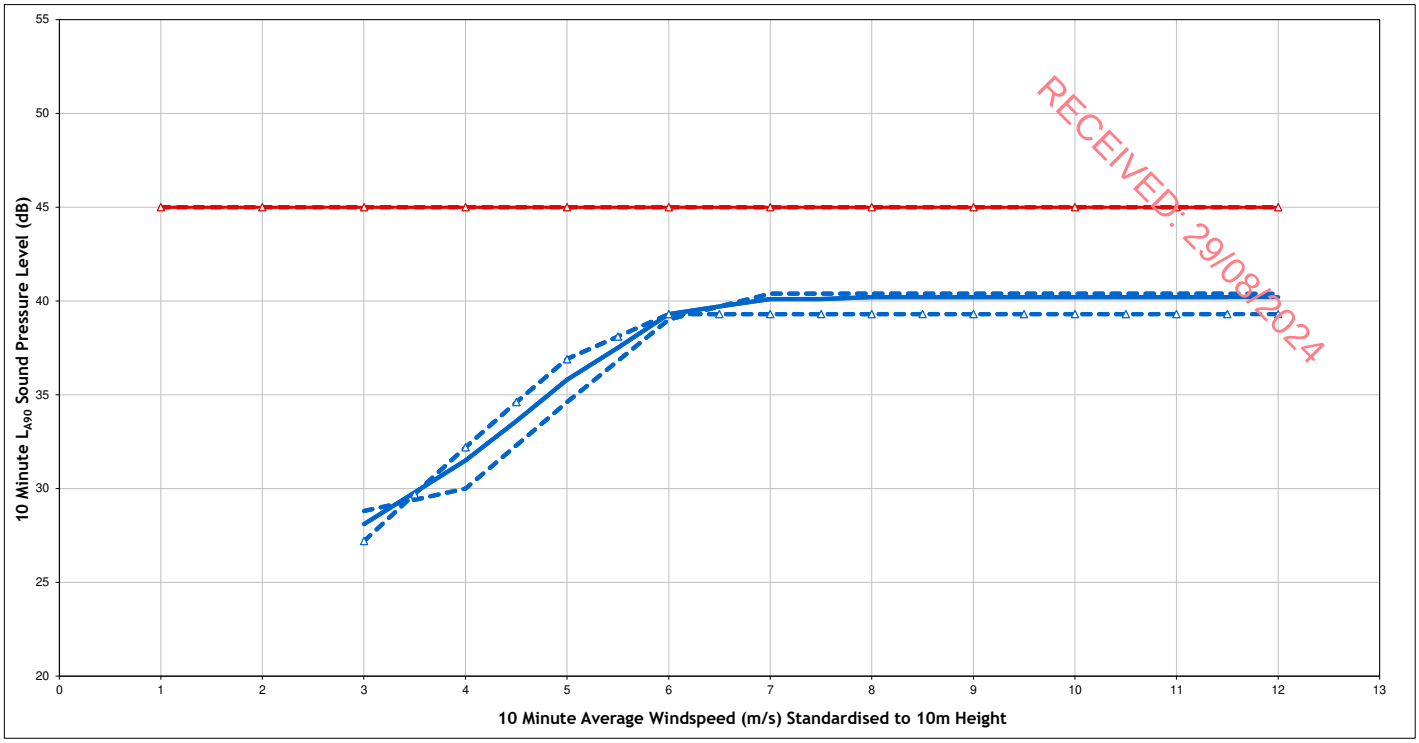


Legend:

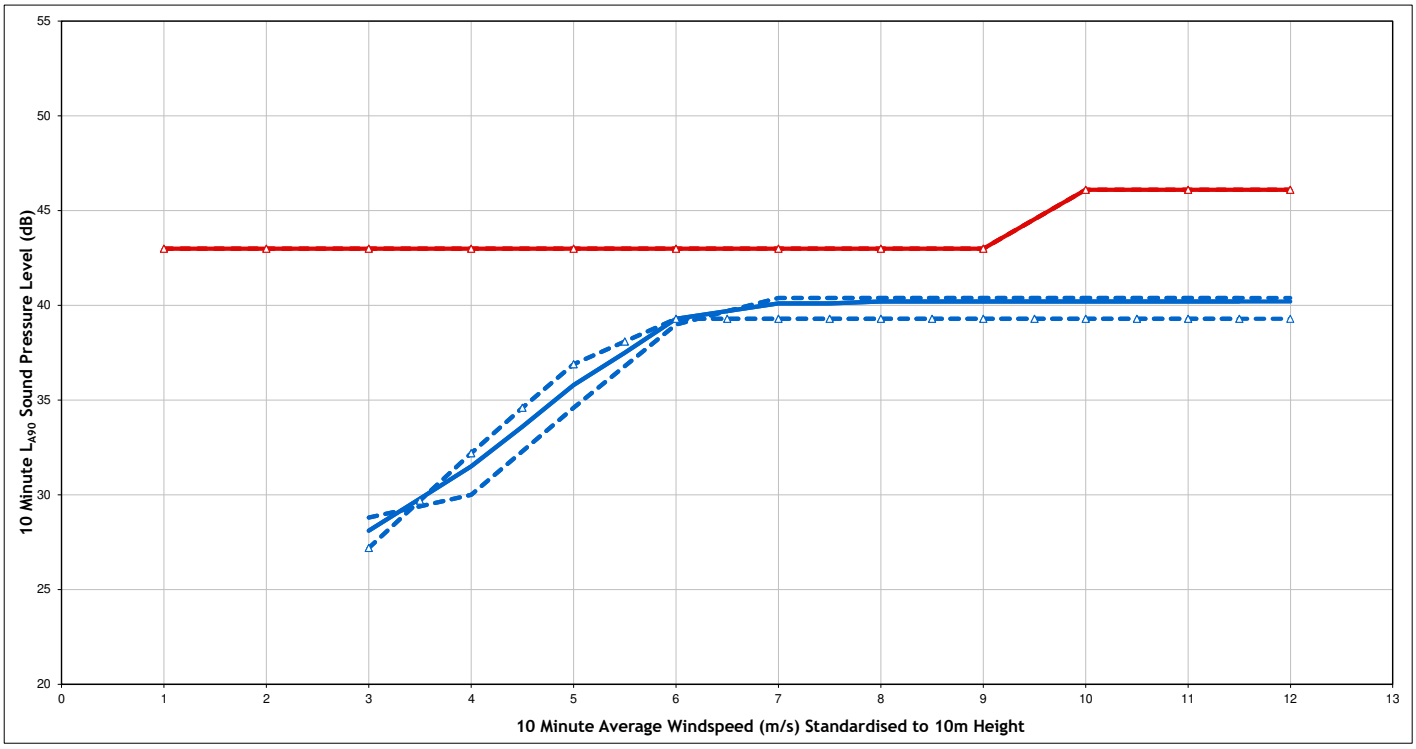
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL14 - NSR34
Figure Number	Figure A1.4n
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL15 - NSR4



Night Time - NAL15 - NSR4

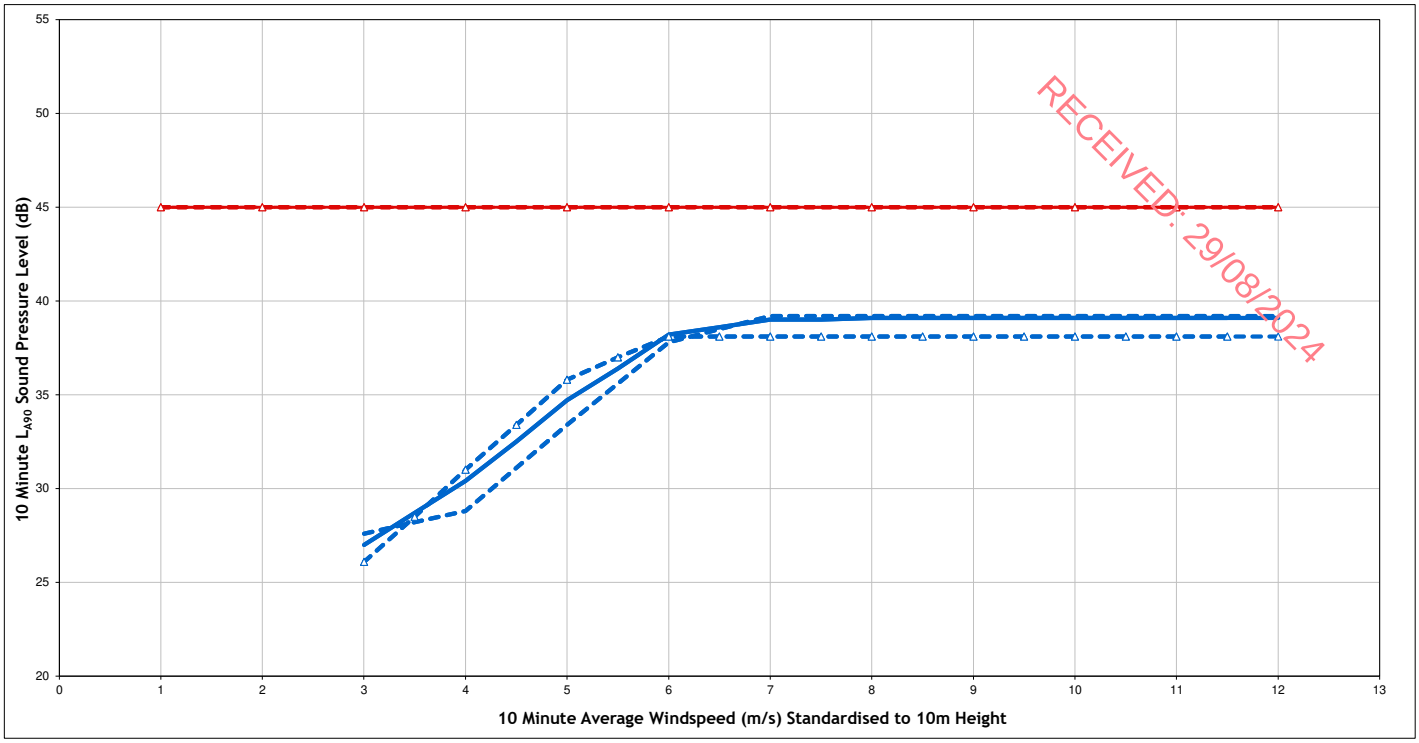


Legend:

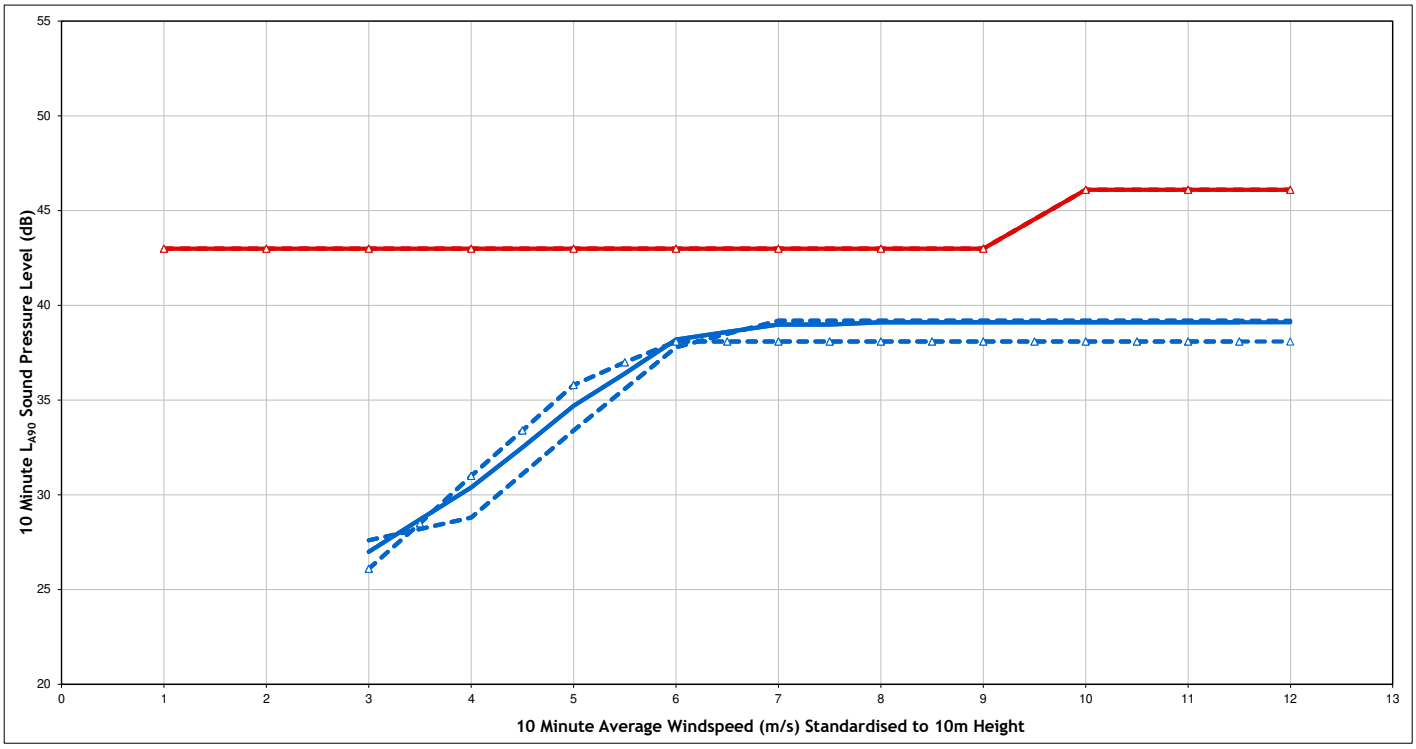
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL15 - NSR4
Figure Number	Figure A1.4o
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL16 - NSR8(562253,672814)



Night Time - NAL16 - NSR8(562253,672814)

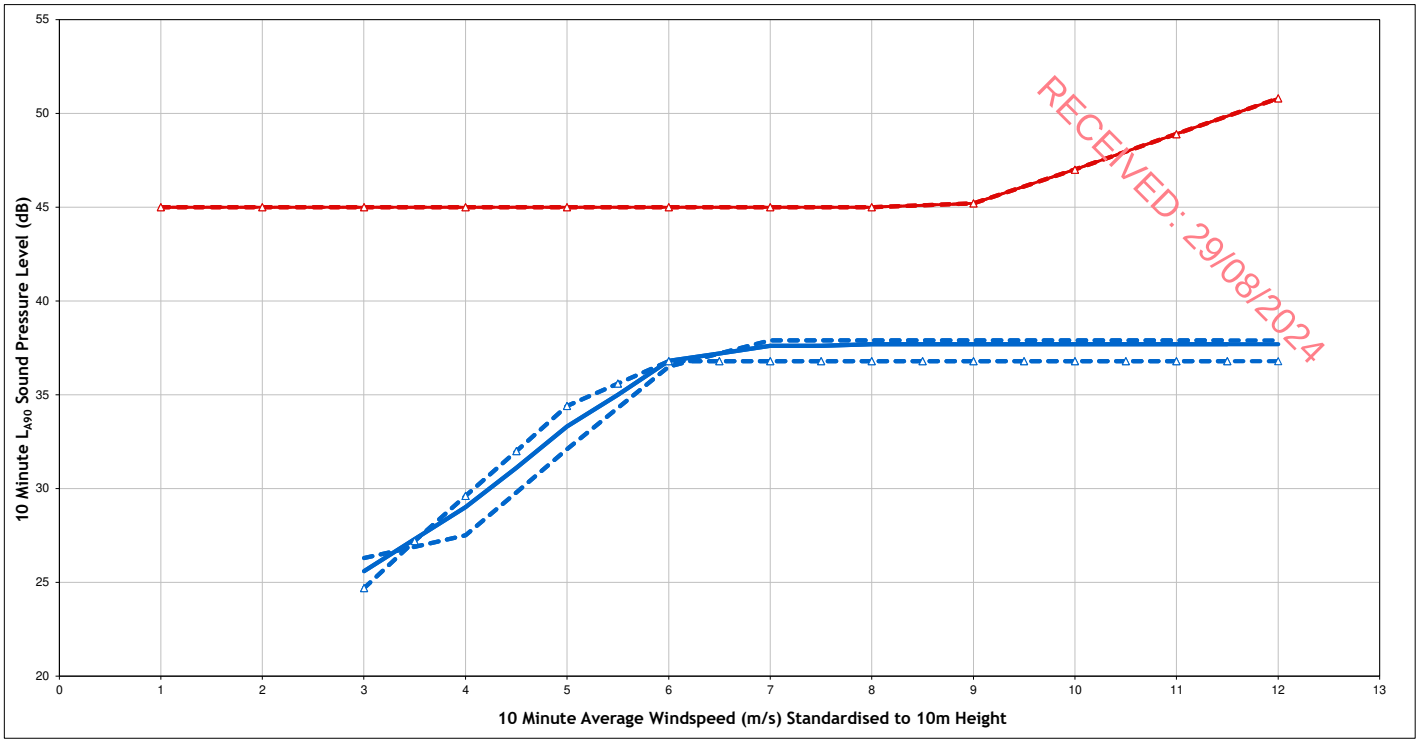


Legend:

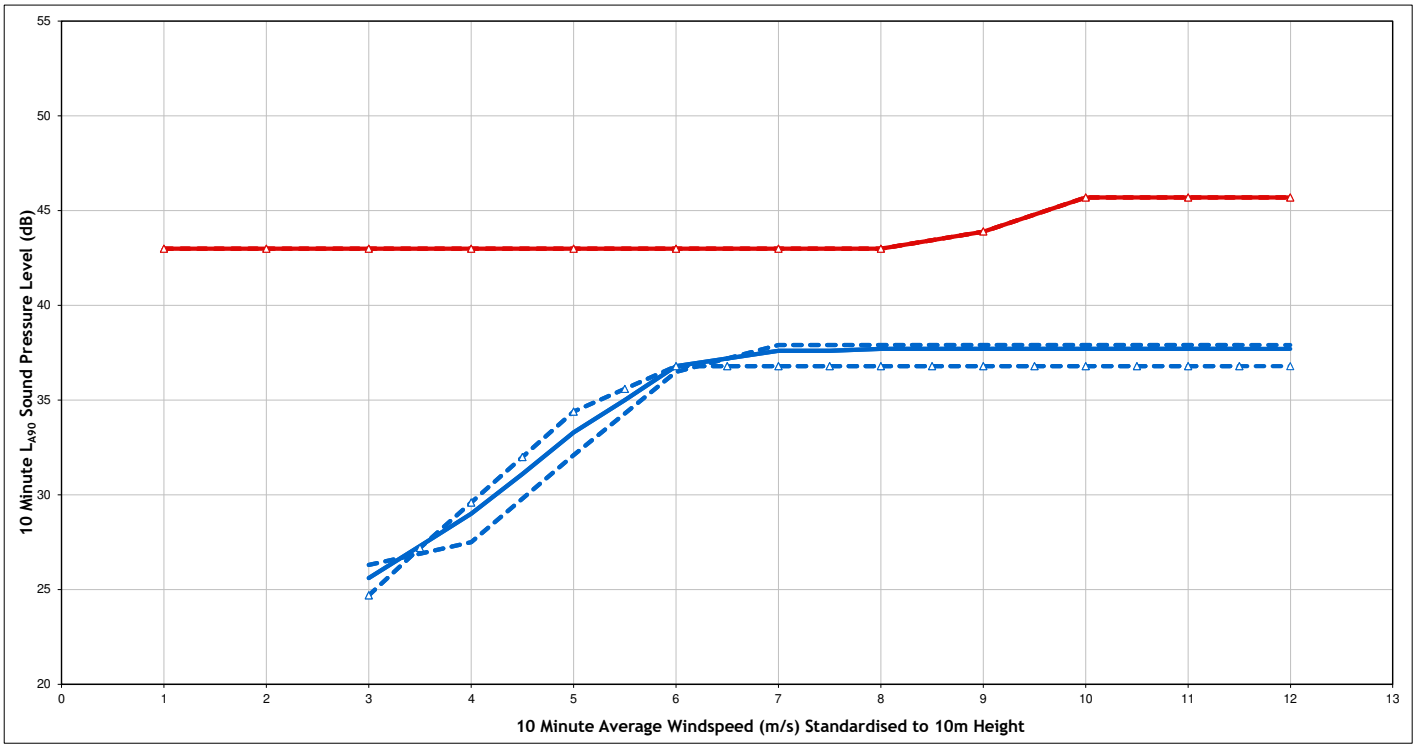
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL16 - NSR8(562253,672814)
Figure Number	Figure A1.4p
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL17 - NSR13



Night Time - NAL17 - NSR13

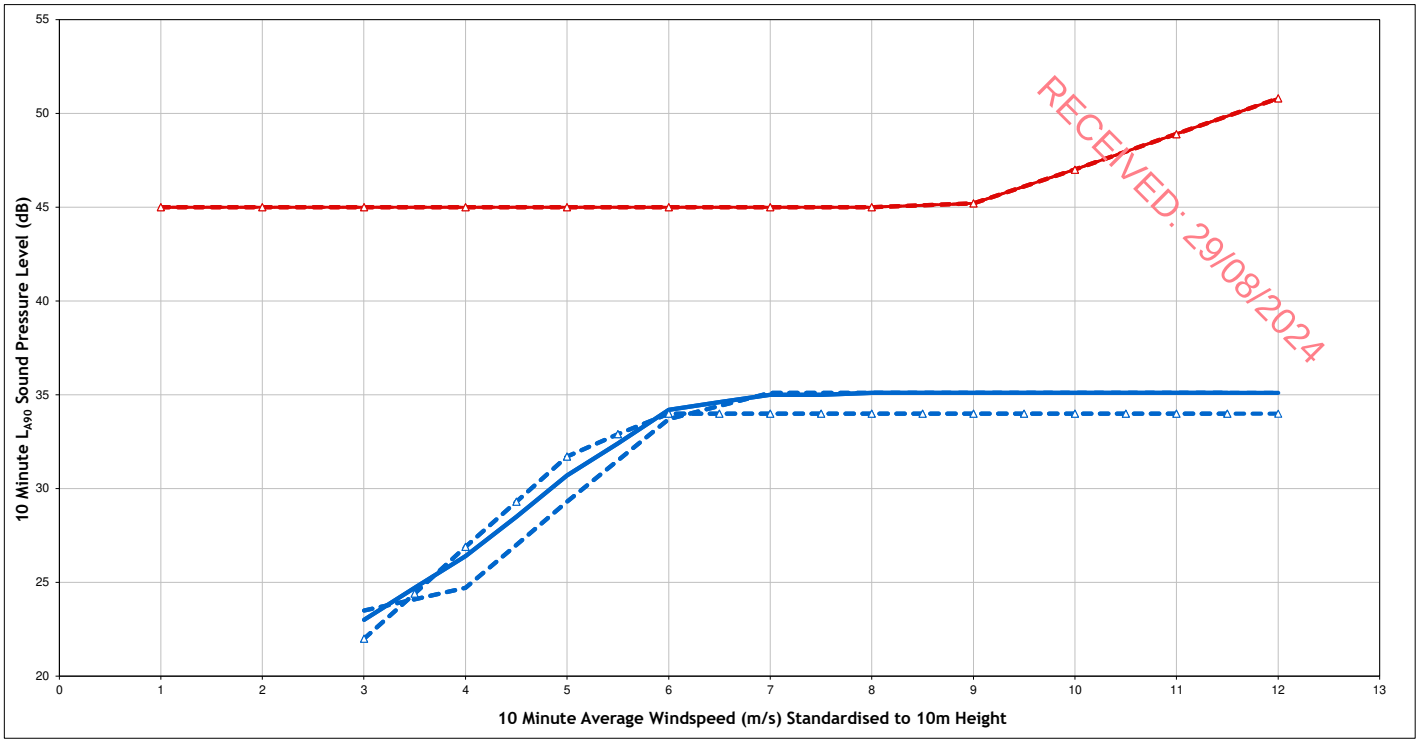


Legend:

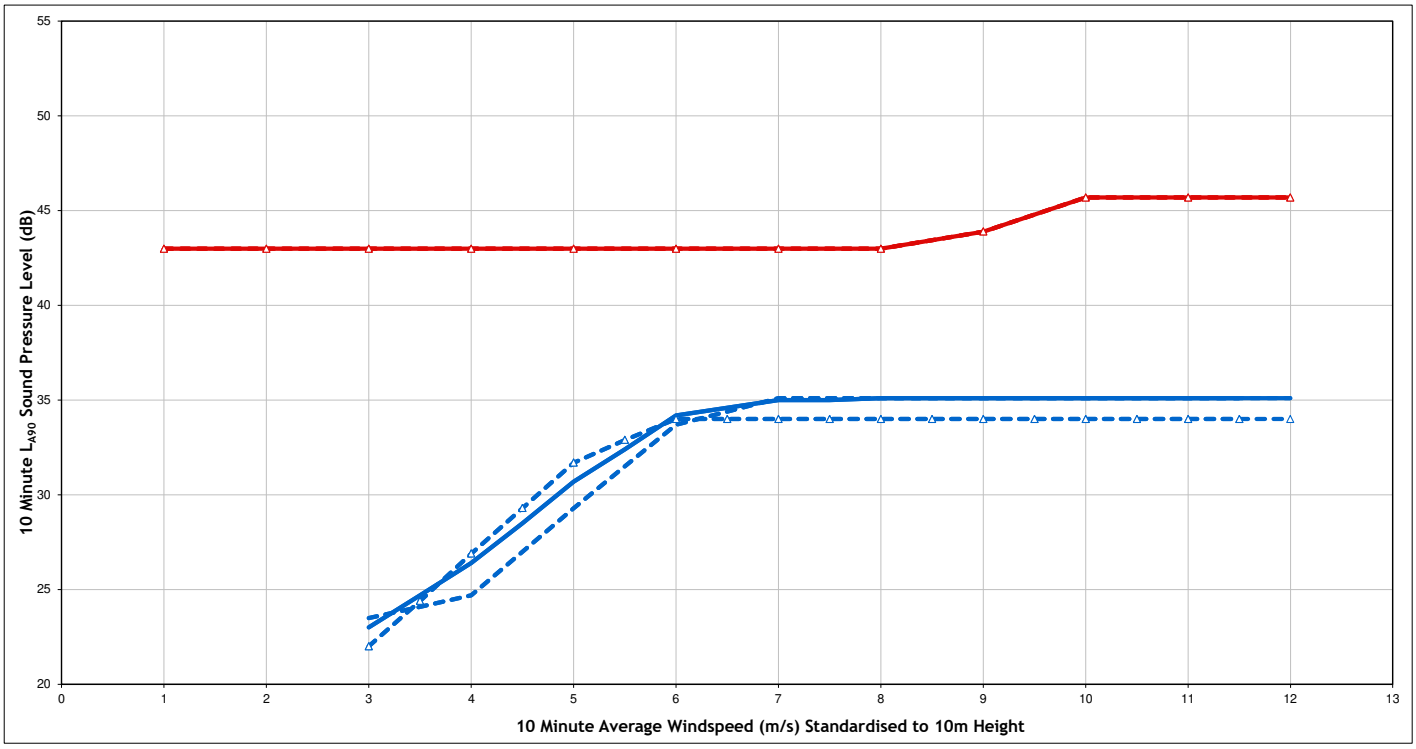
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL17 - NSR13
Figure Number	Figure A1.4q
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL18 - NSR46



Night Time - NAL18 - NSR46

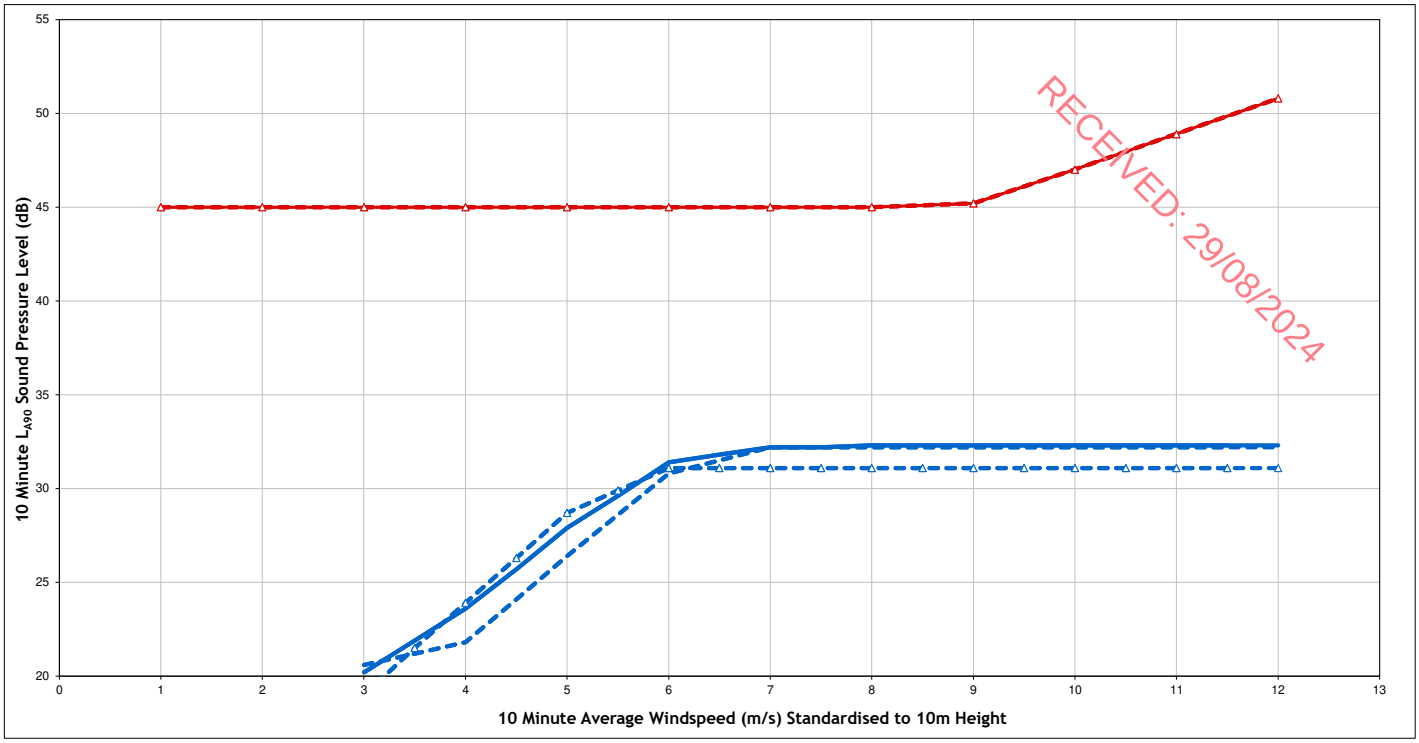


Legend:

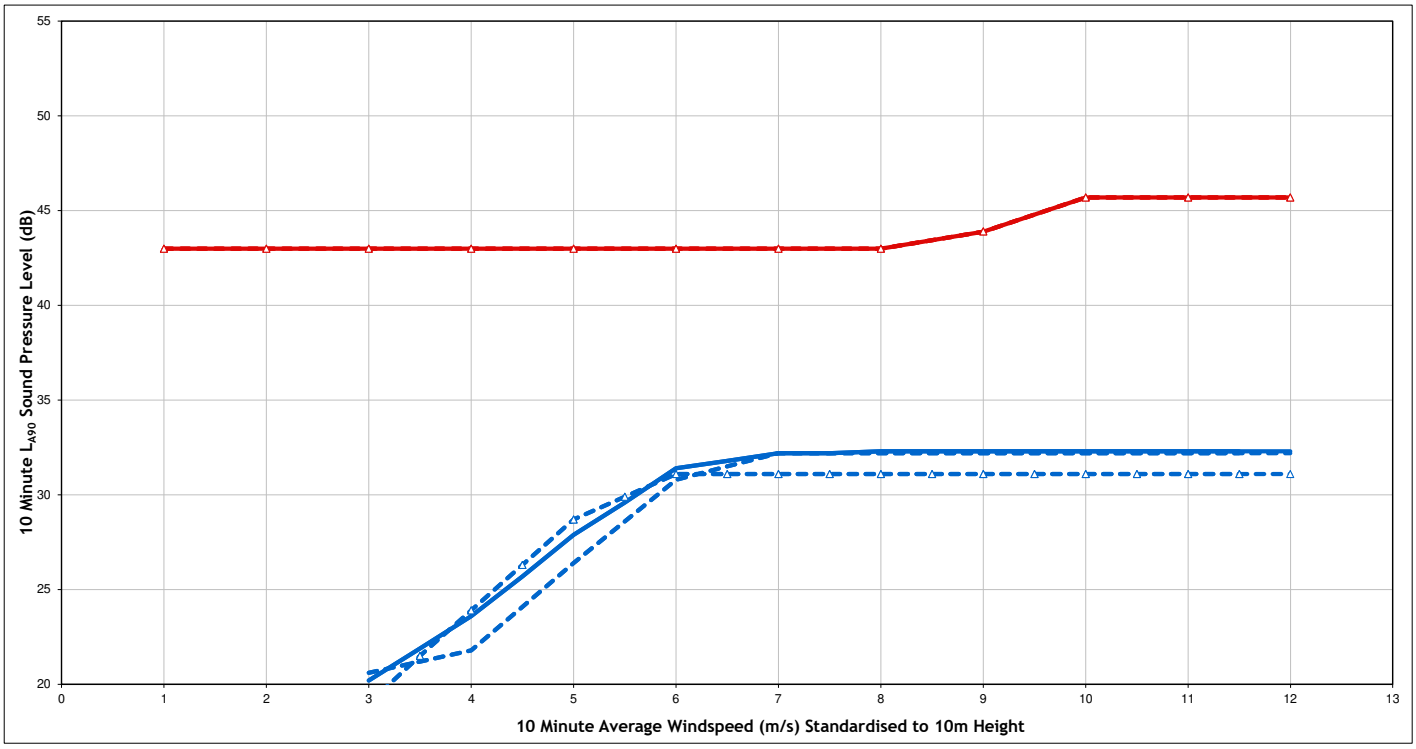
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL18 - NSR46
Figure Number	Figure A1.4r
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

Daytime - NAL19 - NSR78



Night Time - NAL19 - NSR78



Legend:

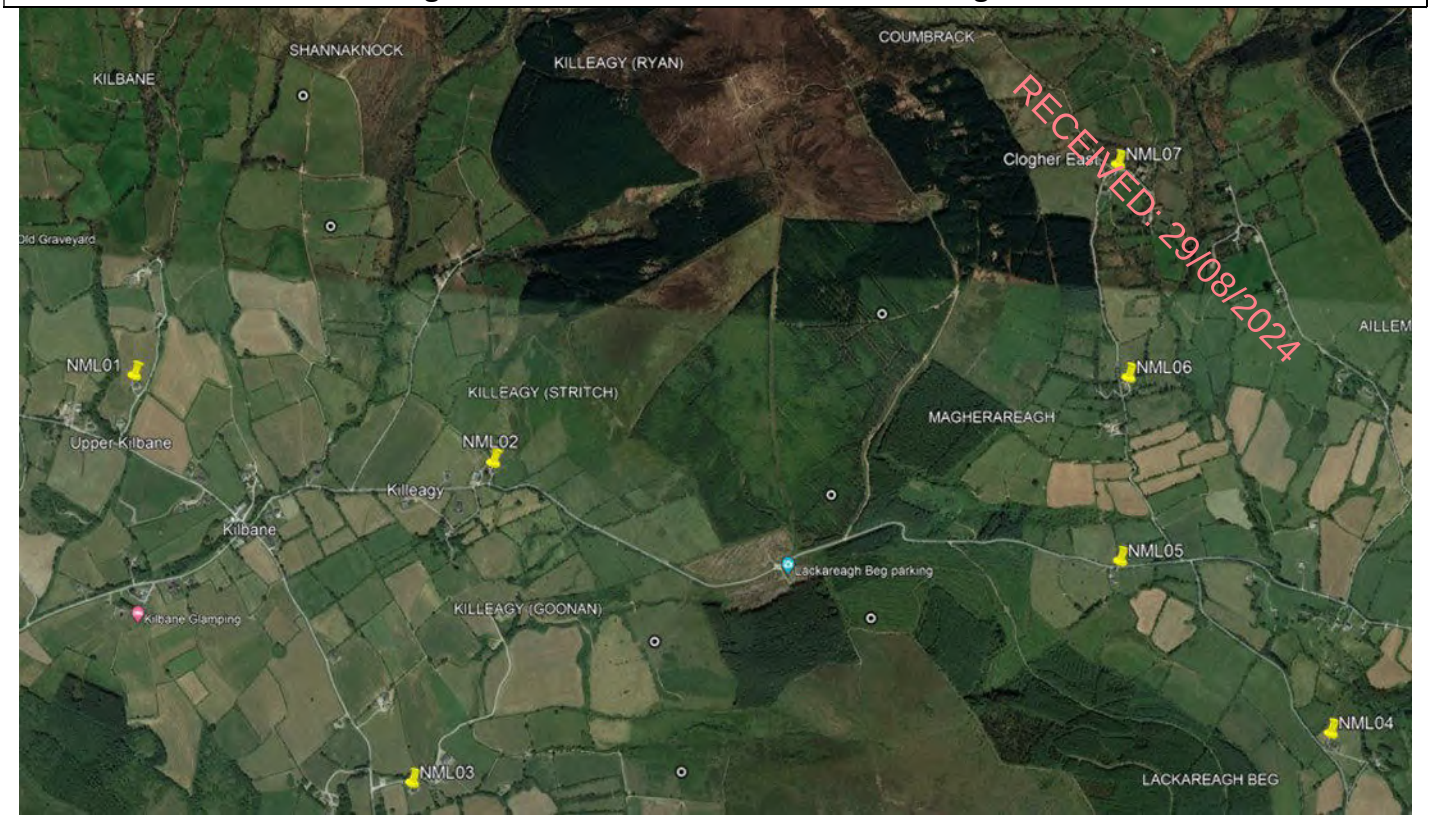
- Total WEDG Noise Limit
- Site Specific Noise Limit
- Proposed Development (Vestas V150 6 MW STE)
- Proposed Development (Nordex N149 5.7 MW STE)
- Proposed Development (Siemens-Gamesa SG-155 6.6 MW)

Project	Lackereagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Noise Assessment NAL19 - NSR78
Figure Number	Figure A1.4s
Scale	NTS
Drawn	MR
Checked	AD
Date	15/05/2024
Document Reference	IE00101 - Models

EDF renewables

tnei

Lackareagh Wind Farm - Installed Noise Monitoring Locations



Reproduced under Google Earth pro licence

Present during the course of the installation:

- Colum Breslin, TNEI Ireland Ltd

Unless specified, all noise meters were installed at least 3.5 m from any hard-reflecting surface except the ground and less than 20 m from the dwelling and away from obvious noise sources, such as boiler flues.

Detailed information and pictures for each of the installed locations are provided below. The original full-size pictures are available on request. Noise monitoring equipment was installed at seven locations from the 4th of April to the 21st of June 2023.

Noise Monitoring Location (NML)

NML	Installation Location (ITM)
NML01	561618, 673080
NML02	562785, 672805
NML03	562514, 671783
NML04	565447, 671967
NML05	564770, 672512
NML06	564793, 673086
NML07	564748, 673758

NML01	
 Reproduced under Google Earth pro licence	
North	**South**
	
East	**West**
	

Description
Installed at NML01, located to the west of the proposed wind farm site boundary. The kit was positioned in the residential amenity area, along the western garden boundary. Watercourses were audible both to the east and the west of the house, therefore the kit was sited such that the separation distance from the two watercourses was maximised. In addition, birdsong and wind induced noise from the vegetation were audible. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground. A rain gauge was installed at this location.

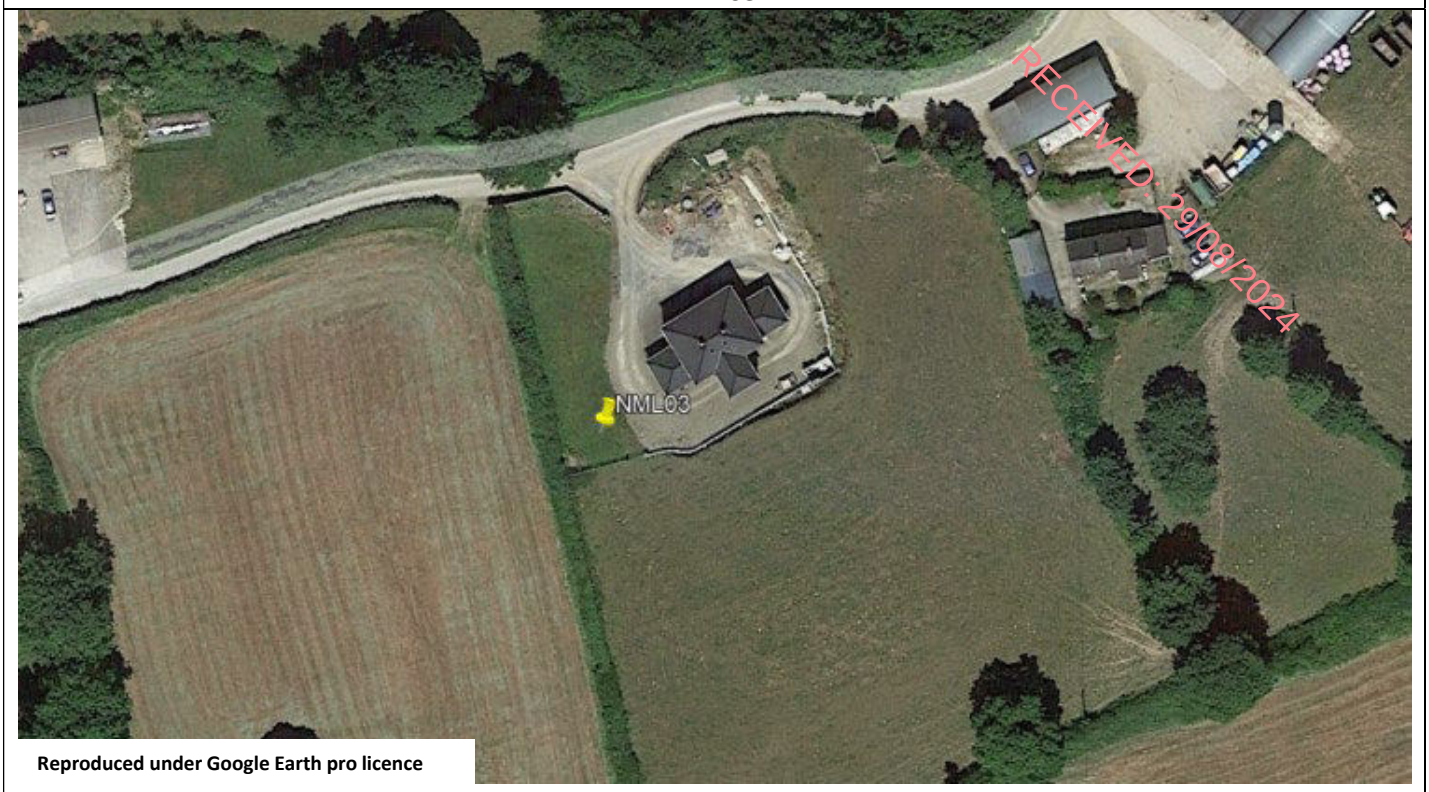
NML02

Reproduced under Google Earth pro licence

North	South
	
East	**West**
	

Description
Installed at NML02, located towards the centre of the Proposed Development. The noise monitoring equipment was installed to the southwest of the property, along the boundary fence line. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground. Birdsong, wind induced noise from the vegetation and a dog barking were the main noise sources observed.

NML03

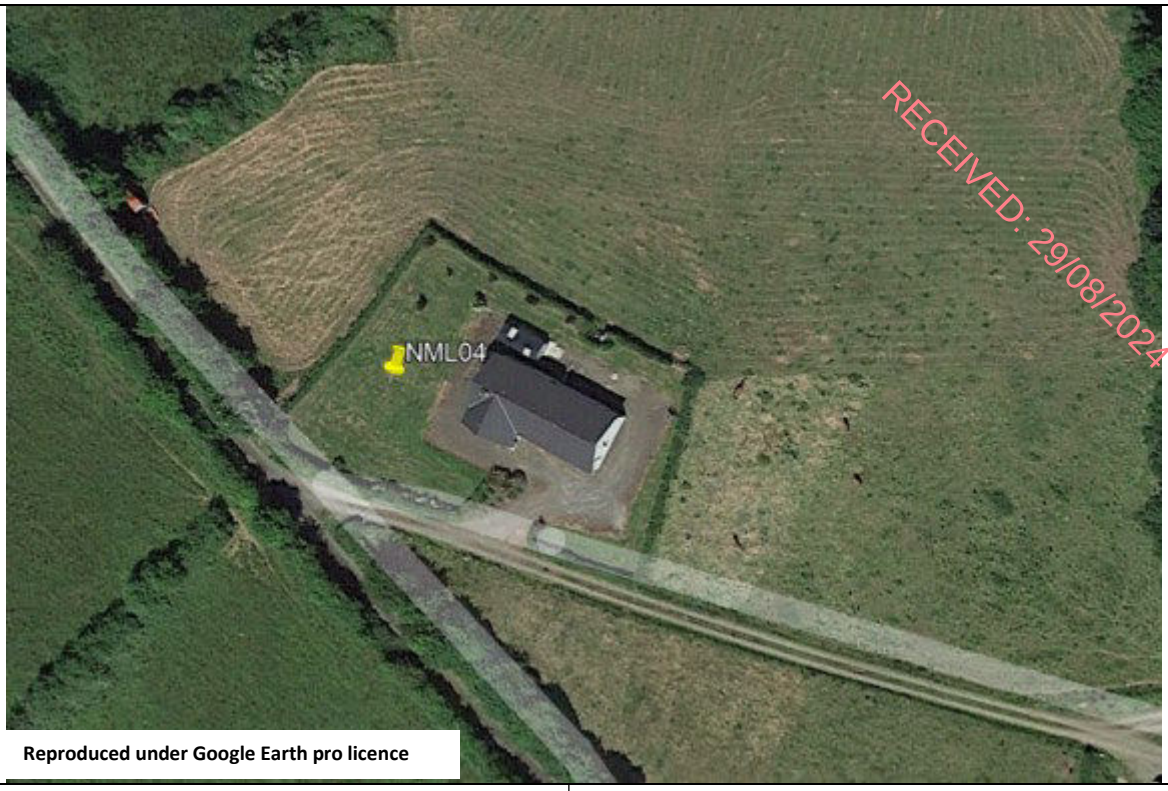


Reproduced under Google Earth pro licence

North	South
	
East	**West**
	

Description
Installed at NML03, located to the west of the proposed wind farm site boundary. The noise monitoring equipment was installed to the west of the property, adjacent to the garden boundary. Cattle lowing, trees and birdsong were the main noise sources observed. There was a cattle yard approximately 100 m from the monitoring location within which farm machinery was operating. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground.

NML04



Reproduced under Google Earth pro licence

North	South
	
East	**West**
	

Description
Installed at NML04, located to the southeast of the proposed wind farm site boundary. The noise monitoring equipment was installed to the west of the property, within the centre of a grassy garden area. Wind induced noise from the surrounding vegetation and birdsong were the main noise sources observed. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground.

NML05

Reproduced under Google Earth pro licence

North	South
	
East	**West**
	

Description
Installed at NML05, located to the east of the proposed wind farm site boundary. The noise monitoring equipment was installed to the east of the property, within the centre of a grassy garden area. Birdsong, wind induced noise from the vegetation and trees and cars passing were the main noise sources observed. In addition, a watercourse was faintly audible which runs along the southern border to the garden, therefore this position was selected to maximise separation distance. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground. A rain gauge was installed at this location.

NML06

Reproduced under Google Earth pro licence

North	South
	
East	**West**
	

Description
Installed at NML06, located to the east of the proposed wind farm site boundary. The noise monitoring equipment was installed to the south of the property, within the centre of a grassy garden area. Birdsong (quite loud and constant), and wind induced noise from the vegetation were the main noise sources observed. Distant road noise was audible. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground.

NML07

Reproduced under Google Earth pro licence

North	South
	
East	**West**
	

Description
Installed at NML07, located to the east of the proposed wind farm site boundary. The noise monitoring equipment was installed to the north of the property, within the centre of a grassy garden area and approximately 40 m away from the property. This location was selected to avoid being too close to nearby trees and was deemed representative of the general soundscape observed in the area. Birdsong (quite loud and constant), and wind induced noise from the vegetation were the main noise sources observed. Distant road noise was audible. The noise meter was located in a free field position, greater than 3.5m from any hard reflecting surface except the ground.

Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location 1 (NML01)
Description	The noise kit was installed to the west of the property. The location was to the west of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground). A rain gauge was installed at this location.
Approximate Irish Transverse Mercator (ITM) Reference	561618, 673080
Noise sources noted during installation, weekly inspection and removal	Birdsong, streams to the east and west of the property and wind induced noise from the vegetation were the main noise sources observed.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 019	NL31	00593595	23/07/2022
Pre Amplifier	Rion	NH-21	-	23/07/2022
Microphone	Rion	UC-53a	313300	23/07/2022
Calibrator	Cal 001	NC-74	34762316	21/03/2023
Calibrator	Cal 003	NC-74	35173441	18/04/2023

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0101	10:30 04/04/23	11:45 04/05/23	94.0	93.9	-0.1	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. Birdsong and the watercourses to the east and west of the property were audible. No other significant noise sources were identified.
0102	12:00 04/05/23	10:30 01/06/23	94.0	94.1	0.1	**04/05: Maintenance:** Audibility of the watercourses had reduced due to a recent dry spell. The soundscape consisted of birdsong, cows lowing in the adjacent fields and wind induced noise from the vegetation and trees.
0103	10:30 01/06/23	10:30 21/06/23	94.0	94.1	0.1	**01/06: Maintenance:** The soundscape consisted of distant road noise, prominently birdsong, wind induced noise from the vegetation and trees. The watercourses were barely audible during this visit.

						21/06: Equipment Decommission: The soundscape consisted of prominent birdsong and wind induced noise from the vegetation and trees. The watercourses were barely audible during this visit.

PHOTOGRAPHS

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Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location 2 (NML02)
Description	The noise kit was installed to the southeast of the property. The location was to the west of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground).
Approximate Irish Transverse Mercator (ITM) Reference	562785, 672805
Noise sources noted during installation, weekly inspection and removal	Birdsong, dog barking and wind induced noise from the vegetation and trees were the main noise sources observed.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 006	NL32	00482652	06/01/2022
Pre Amplifier	Rion	NH-21	-	06/01/2022
Microphone	Rion	UC-53a	314027	06/01/2022
Calibrator	Cal 001	NC-74	34762316	21/03/2023
Calibrator	Cal 003	NC-74	35173441	18/04/2023

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0201	11:00 04/04/23	12:05 04/05/23	94.0	93.9	-0.1	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. The soundscape consisted of birdsong and wind induced vegetation noise.
0202	12:20 04/05/23	11:55 01/06/23	94.0	94.2	0.2	**04/05: Maintenance:** Chainsaw and trimmer noise was audible in the distance with ongoing tractor activity in adjacent farm also present. Birdsong was also observed. Due to the equipment being moved by the resident the measurements were prematurely halted, resulting in a period of no measurement data between 10/04/23 16:20 and 04/05/23 12:20.
0203	12:10 01/06/23	12:00 21/06/23	94.0	94.1	0.1	**01/06: Maintenance:** During this visit the soundscape consisted of distant road noise, prominent birdsong, Sheep bleating in distance and wind induced noise from the vegetation and trees.

						21/06: Equipment Decommission: During this visit the soundscape consisted of prominent birdsong, distant road noise and wind induced noise from the vegetation and trees.

PHOTOGRAPHS

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Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location 3 (NML03)
Description	The noise kit was installed to the west of the property. The location was to the south-west of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground).
Approximate Irish Transverse Mercator (ITM) Reference	562528, 671793
Noise sources noted during installation, weekly inspection and removal	Cattle lowing, trees and birdsong were the main noise sources observed. There was a cattle yard approximately 100 m from the monitoring location within which farm machinery was operating.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 025	NL32	00703296	15/11/2021
Pre Amplifier	Rion	NH-21	-	15/11/2021
Microphone	Rion	UC-53a	617048	15/11/2021
Calibrator	Cal 001	NC-74	34762316	21/03/2023
Calibrator	Cal 003	NC-74	35173441	18/04/2023

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0301	11:40 04/04/23	11:25 04/05/23	94.0	93.9	-0.1	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. The soundscape consisted of birdsong, wind induced noise from the vegetation and trees and the nearby cattle yard within which farming machinery was operational.
0302	11:40 04/05/23	11:45 01/06/23	94.0	94.1	0.1	**04/05: Maintenance:** The soundscape consisted of chainsaw noise in the distance, birdsong, tractor activity in the adjacent farm and wind induced noise from the vegetation and trees.
0303	12:00 01/06/23	11:30 21/06/23	94.0	94.1	0.1	**01/06: Maintenance:** The soundscape consisted of distant road noise, prominent birdsong constant and cattle lowing. **21/06: Equipment Decommission:** The soundscape consisted of prominent birdsong and wind induced noise from the vegetation and trees.

PHOTOGRAPHS

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Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location 4 (NML04)
Description	The noise kit was installed to the west of the property. The location was to the south-east of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground).
Approximate Irish Transverse Mercator (ITM) Reference	565447, 671967
Noise sources noted during installation, weekly inspection and removal	Wind induced noise from the surrounding vegetation and trees and birdsong were the main noise sources observed.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 040	NL32	01176428	22/11/2021
Pre Amplifier	Rion	NH-21	-	22/11/2021
Microphone	Rion	UC-53a	12471	22/11/2021
Calibrator	Cal 001	NC-74	34762316	21/03/2023
Calibrator	Cal 003	NC-74	35173441	18/04/2023

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0401	12:20 04/04/23	12:55 04/05/23	94.0	94.0	0.0	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. The soundscape consisted of birdsong and wind induced noise from the vegetation and trees.
0402	13:10 04/05/23	12:45 01/06/23	94.0	94.2	0.2	**04/05: Maintenance:** The soundscape consisted of birdsong and wind induced noise from the vegetation and trees.
0403	13:00 01/06/23	12:30 21/06/23	94.0	94.1	0.1	**01/06: Maintenance:** The soundscape consisted of distant road noise, prominent birdsong and wind induced noise from the vegetation and trees. **21/06: Equipment Decommission:** The soundscape consisted of distant road noise, prominent birdsong and wind induced noise from the vegetation and trees.

PHOTOGRAPHS

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Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location (NML) 5
Description	The noise kit was installed to the east of the property. The location was to the east of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground). A rain gauge was installed at this location.
Approximate Irish Transverse Mercator (ITM) Reference	564770, 672512
Noise sources noted during installation, weekly inspection and removal	Birdsong, wind induced noise form the vegetation and trees and cars passing were the main noise sources observed. This location was selected to avoid being too close to nearby trees which surrounded the garden and was far away from the stream to the south of the property.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 018	NL31	01283554	04/08/2021
Pre Amplifier	Rion	NH-21	-	04/08/2021
Microphone	Rion	UC-53a	315581	04/08/2021
Calibrator	Cal 001	NC-74	34762316	21/03/2023
Calibrator	Cal 003	NC-74	35173441	18/04/2023

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0501	12:40 04/04/23	12:40 04/05/23	94.0	94.1	0.1	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. The soundscape consisted of birdsong, distant road noise and wind induced noise from the vegetation and trees.
0502	12:50 04/05/23	12:20 01/06/23	94.0	94.2	0.2	**04/05: Maintenance:** The soundscape consisted of birdsong and road noise.
0503	12:40 01/06/23	12:30 21/06/23	94.0	93.9	-0.1	**01/06: Maintenance:** The soundscape consisted of distant road noise, prominent birdsong, nearby operational tractors and wind induced noise from the vegetation and trees. **21/06: Equipment Decommission:** During this visit the soundscape consisted of prominent birdsong, distant road noise and wind induced noise from the vegetation and trees.

PHOTOGRAPHS

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Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location 6 (NML06)
Description	The noise kit was installed to the south of the property. The location was to the east of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground).
Approximate Irish Transverse Mercator (ITM) Reference	564793, 673086
Noise sources noted during installation, weekly inspection and removal	Birdsong (prominent), and wind induced noise from the vegetation and trees were the main noise sources observed.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 067	NL52	00721061	21/08/22
Pre Amplifier	Rion	NH-21	22167	21/08/22
Microphone	Rion	UC-53a	22049	21/08/22
Calibrator	Cal 001	NC-74	34762316	21/03/23
Calibrator	Cal 003	NC-74	35173441	18/04/23

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0601	13:10 04/04/23	13:20 04/05/23	94.0	94.0	0.0	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. Birdsong was very prominent with distant road noise and wind induced noise from the vegetation and trees also audible.
0602	13:40 04/05/23	13:00 01/06/23	94.0	94.2	0.2	**04/05: Maintenance:** The soundscape consisted of birdsong and wind induced noise from the vegetation and trees.
0603	13:20 01/06/23	12:30 21/06/23	94.0	94.0	0.0	**01/06: Maintenance:** The soundscape consisted of distant road noise, Prominent birdsong and wind induced noise from the vegetation and trees. During this visit, noise from construction activities on the driveway were also audible. **21/06: Equipment Decommission:** Prominent birdsong, road noise and wind induced noise from the vegetation and trees were audible during this visit.

PHOTOGRAPHS

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Noise Monitoring Field Data Sheet

Project Title	Lackareagh Wind Farm, Co. Clare	**Project Number**	IE00101
Client	EDF Renewables Ireland	**Surveyor**	CB

MONITORING LOCATION

Location Name	Noise Monitoring Location 7 (NML07)
Description	The noise kit was installed to the north of the property. The location was to the east of the proposed development. The kit was placed greater than 3.5 m away from any reflective surfaces (excluding the ground).
Approximate Irish Transverse Mercator (ITM) Reference	564748, 673758
Noise sources noted during installation, weekly inspection and removal	Birdsong (prominent), and wind induced noise from the vegetation were the main noise sources observed.

NOISE MONITORING EQUIPMENT DETAILS

Survey	Kit Number	Model	Serial Number	Last Calibrated/ Conformance Checked
Sound Level Meter	SLM 054	NL52	00410235	12/08/2021
Pre Amplifier	Rion	NH-21	10677	12/08/2021
Microphone	Rion	UC-53a	19117	12/08/2021
Calibrator	Cal 003	NC-74	35173441	18/04/2023
Calibrator	Cal 001	NC-74	34762316	21/03/2023

NOISE MONITORING EQUIPMENT SETTINGS

	Network (A,B,Z)	Index and Time	Time Weighting (Slow, Fast)	Range (dB)	Audio
Parameters Recorded	A	$L_{A9010min}$, $L_{Aeq10min}$	Fast	20-110	No

DATA

File Name	Start Time	End Time	Cal. at Start	Cal. at End	Drift	Observations
0701	13:50 04/04/23	13:40 04/05/23	94.0	94.0	0.0	**04/04: Installation:** A walk around the property was undertaken to identify any potential water courses, drains etc and other noise sources, such as boiler flues, pumps etc. The soundscape consisted of birdsong, wind induced noise from the vegetation and trees and distant road noise.
0702	14:00 04/05/23	13:30 01/06/23	94.0	94.4	0.4	**04/05: Maintenance:** The soundscape consisted of birdsong during this visit.
0703	13:50 01/06/23	13:50 21/06/23	94.0	94.3	0.3	**01/06: Maintenance:** The soundscape consisted of road noise, prominent birdsong and wind induced noise from the vegetation and trees. **21/06: Equipment Decommission:** The soundscape consisted of road noise, prominent birdsong and wind induced noise from the vegetation and trees.

PHOTOGRAPHS

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Annex 3 – Calibration/ Conformance Certificates for Sound Level Meters and Calibrator

NSAI

National Metrology Laboratory

Certificate of Calibration

Issued to

TNEI Ireland Limited
Unit S12 Synergy Centre
Technological University Dublin Campus
Tallaght
Dublin 24

Certificate Number	231533
Item Calibrated	RION NC-74 Sound Level Calibrator
Serial Number	35173441
ID Number	None
Order Number	18
Date Received	06 Apr 2023
NML Procedure Number	AP-NM-13
Method	The above calibrator was allowed to stabilize for a suitable period in laboratory conditions. It was then calibrated by measuring the sound pressure level generated in its measuring cavity. The calibrator's operating frequency was also measured.
Calibration Standards	Norsonic 1504A Calibration System incorporating: Agilent 34401A Digital Multimeter, File No. 0736 [Cal Due: 16 Aug 2023] B & K 4134 Measuring Microphone, File No. 0744 [Cal Due: 03 Jun 2023] B & K 4228 Pistonphone, File No. 0740 [Cal Due: 04 Jun 2023]

Calibrated by David Fleming

Approved by Paul Hetherington

Date of Calibration 18 Apr 2023

Date of Issue 18 Apr 2023

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

NSAI

National Metrology Laboratory

RECEIVED: 29/08/2024

Certificate of Calibration

Issued to

TNEI Ireland Limited
Unit S12 Synergy Centre
Technological University Dublin Campus
Tallaght
Dublin 24

Certificate Number	**231154**
Item Calibrated	RION NC-74 Sound Level Calibrator
Serial Number	34762316
ID Number	None
Order Number	16
Date Received	14 Mar 2023
NML Procedure Number	AP-NM-13
Method	The above calibrator was allowed to stabilize for a suitable period in laboratory conditions. It was then calibrated by measuring the sound pressure level generated in its measuring cavity. The calibrator's operating frequency was also measured.
Calibration Standards	Norsonic 1504A Calibration System incorporating: Agilent 34401A Digital Multimeter, File No. 0736 [Cal Due: 16 Aug 2023] B & K 4134 Measuring Microphone, File No. 0744 [Cal Due: 03 Jun 2023] B & K 4228 Pistonphone, File No. 0740 [Cal Due: 04 Jun 2023]

Calibrated by	David Fleming	**Approved by**	Paul Hetherington
Date of Calibration	21 Mar 2023	**Date of Issue**	21 Mar 2023

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

MEASUREMENT SYSTEMS

CERTIFICATE OF CONFORMANCE

Date of Issue	**12 August 2021**
Customer	**TNEI Services Ltd**
Certificate Number	**CONF082104**

	Manufacturer	**Type**	**Serial Number**
Sound Level Meter	Rion	NL-52	00410235
Preamplifier	Rion	NH-25	10677
Microphone	Rion	UC-59	19117

This is to certify that the instrument was tested and calibrated at the Manufacturer's factory according to their specification and that the product satisfied all the relevant requirements of the following Standards:

IEC 61672-1:2013 Class 1.

The instrument also received a functional check by ANV Measurement Systems prior to despatch in the UK, in accordance with our standard procedures.

Signed..... Position. Calibration Technician Date. 12 August 2021

B. Bogdan

BEAUFORT COURT, 17 ROEBUCK WAY, MILTON KEYNES, MK5 8HL
☎ 01908 642846 🖹 01908 642814
✉ info@noise-and-vibration.co.uk 💻 www.noise-and-vibration.co.uk

MEASUREMENT SYSTEMS

CERTIFICATE OF CONFORMANCE

Date of Issue	**21 October 2022**
Customer	**TNEI Ireland Ltd**
Certificate Number	**CONF102213**

	Manufacturer	**Type**	**Serial Number**
Sound Level Meter	Rion	NL-52	00721061
Preamplifier	Rion	NH-25	22167
Microphone	Rion	UC-59	22049

This is to certify that the instrument was tested and calibrated at the Manufacturer's factory according to their specification and that the product satisfied all the relevant requirements of the following Standards:

IEC 61672-1:2013 Class 1.

The instrument also received a functional check by ANV Measurement Systems prior to despatch in the UK, in accordance with our standard procedures.

Signed..... Position. Calibration Technician Date. 21 October 2022

B. Bogdan

BEAUFORT COURT, 17 ROEBUCK WAY, MILTON KEYNES, MK5 8HL
☎ 01908 642846 🖷 01908 642814
✉ info@noise-and-vibration.co.uk 💻 www.noise-and-vibration.co.uk

NSAI

National Metrology Laboratory

RECEIVED: 29/08/2024

Certificate of Calibration

Issued to	TNEI Ireland Limited Unit S12 Synergy Centre Technological University Dublin Campus Tallaght Dublin D24 A386
Attention of	Ewan Watson

Certificate Number	**215238**
Item Calibrated	Rion NL-32 Sound Level Meter, complete with Rion UC53A Microphone
Serial Numbers	00482652 (Sound Level Meter) and 314027 (Microphone)
ID Number	SLM006
Order Number	4
Date Received	14 Dec 2021
NML Procedure Number	AP-NM-09
Method	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006), *Periodic tests, specification for the verification of sound level meters*. This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003).
Calibration Standards	Norsonic 1504A Calibration System incorporating: SR DS360 Signal Generator, No. 0735 [Cal Due Date: 10 Jun 2022] Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 10 Jun 2022] B&K 4134 Measuring Microphone, No. 0744 [Cal Due Date: 03 Jun 2023] B&K 4228 Pistonphone, No. 0740 [Cal Due Date: 04 Jun 2023] B&K 4226 Acoustical Calibrator, No. 0150 [Cal Due Date: 07 Oct 2022]

Calibrated by	David Fleming	**Approved by**	Paul Hetherington
Date of Calibration	06 Jan 2022	**Date of Issue**	06 Jan 2022

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

NSAI
National Metrology Laboratory

RECEIVED: 29/08/2024

Certificate of Calibration

Issued to	TNEI Group Floor 7 West One Forth Banks Newcastle Upon Tyne England
Attention of	Ewan Watson

Certificate Number	**212989**
Item Calibrated	Rion NL-31 Sound Level Meter, complete with Rion UC53A Microphone
Serial Numbers	01283554 (Sound Level Meter) and 315581 (Microphone)
ID Number	SLM018
Order Number	1696
Date Received	20 Jul 2021
NML Procedure Number	AP-NM-09
Method	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006), *Periodic tests, specification for the verification of sound level meters.* This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003).
Calibration Standards	Norsonic 1504A Calibration System incorporating: SR DS360 Signal Generator, No. 0735 [Cal Due Date: 10 Jun 2022] Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 10 Jun 2022] B&K 4134 Measuring Microphone, No. 0743 [Cal Due Date: 27 May 2022] B&K 4228 Pistonphone, No. 0741 [Cal Due Date: 26 May 2022] B&K 4226 Acoustical Calibrator, No. 0150 [Cal Due Date: 02 Sep 2021]

Calibrated by	David Fleming	Approved by	Paul Hetherington
Date of Calibration	04 Aug 2021	Date of Issue	04 Aug 2021

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org).

NSAI

National Metrology Laboratory

RECEIVED: 29/08/2024

Certificate of Calibration

Issued to

TNEI Group
Synergy Centre
TU Dublin
Tallaght
Dublin 24

Certificate Number	223016
Item Calibrated	Rion NL-31 Sound Level Meter, complete with Rion UC53A Microphone
Serial Numbers	00593595 (Sound Level Meter) and 313300 (Microphone)
ID Number	SLM019
Order Number	8
Date Received	11 Jul 2022
NML Procedure Number	AP-NM-09
Method	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006), *Periodic tests, specification for the verification of sound level meters.* This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003).
Calibration Standards	Norsonic 1504A Calibration System incorporating: SR DS360 Signal Generator, No. 0735 [Cal Due Date: 05 Aug 2022] Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 05 Aug 2022] B&K 4134 Measuring Microphone, No. 0744 [Cal Due Date: 03 Jun 2023] B&K 4228 Pistonphone, No. 0740 [Cal Due Date: 04 Jun 2023] B&K 4226 Acoustical Calibrator, No. 0150 [Cal Due Date: 07 Oct 2022]

Calibrated by	David Fleming	**Approved by**	Paul Hetherington
Date of Calibration	23 Jul 2022	**Date of Issue**	23 Jul 2022

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

Glas Naíon | Baile Átha Cliath 11 | Eire
Glasnevin | Dublin 11 | Ireland T+ 353 1 808 2609 | F+353 1 808 2603 | NSAI.ie

NSAI
National Metrology Laboratory

RECEIVED: 29/08/2024

Certificate of Calibration

Issued to

TNEI Ireland Limited
Unit S12 Synergy Centre
Technological University Dublin Campus
Tallaght
Dublin
D24 A386

Attention of Ewan Watson

Certificate Number	**214283**
Item Calibrated	Rion NL-32 Sound Level Meter, complete with Rion UC53A Microphone
Serial Numbers	00703296 (Sound Level Meter) and 617048 (Microphone)
ID Number	SLM025
Order Number	3
Date Received	18 Oct 2021
NML Procedure Number	AP-NM-09
Method	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006), *Periodic tests, specification for the verification of sound level meters*. This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003).
Calibration Standards	Norsonic 1504A Calibration System incorporating: SR DS360 Signal Generator, No. 0735 [Cal Due Date: 10 Jun 2022] Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 10 Jun 2022] B&K 4134 Measuring Microphone, No. 0744 [Cal Due Date: 03 Jun 2023] B&K 4228 Pistonphone, No. 0740 [Cal Due Date: 04 Jun 2023] B&K 4226 Acoustical Calibrator, No. 0150 [Cal Due Date: 07 Oct 2022]

Calibrated by	David Fleming	**Approved by**	Paul Hetherington
Date of Calibration	15 Nov 2021	**Date of Issue**	15 Nov 2021

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

NSAI

National Metrology Laboratory

Certificate of Calibration

Issued to	TNEI Ireland Limited Unit S12 Synergy Centre Technological University Dublin Campus Tallaght Dublin D24 A386
Attention of	Ewan Watson

Certificate Number	**214285**
Item Calibrated	Rion NL-52 Sound Level Meter, complete with Rion UC59 Microphone
Serial Numbers	01176428 (Sound Level Meter) and 12471 (Microphone)
ID Number	SLM040
Order Number	3
Date Received	18 Oct 2021
NML Procedure Number	AP-NM-09
Method	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006), *Periodic tests, specification for the verification of sound level meters*. This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003).
Calibration Standards	Norsonic 1504A Calibration System incorporating: SR DS360 Signal Generator, No. 0735 [Cal Due Date: 10 Jun 2022] Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 10 Jun 2022] B&K 4134 Measuring Microphone, No. 0744 [Cal Due Date: 03 Jun 2023] B&K 4228 Pistonphone, No. 0740 [Cal Due Date: 04 Jun 2023] B&K 4226 Acoustical Calibrator, No. 0150 [Cal Due Date: 07 Oct 2022]

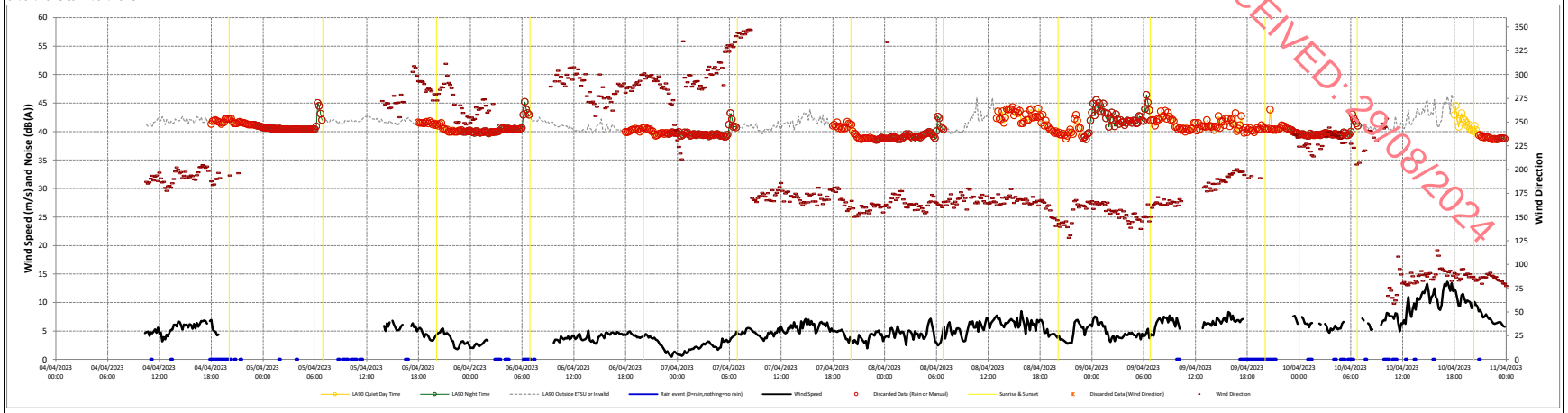
Calibrated by	David Fleming	**Approved by**	Paul Hetherington
Date of Calibration	22 Nov 2021	Date of Issue	22 Nov 2021

CIPM MRA

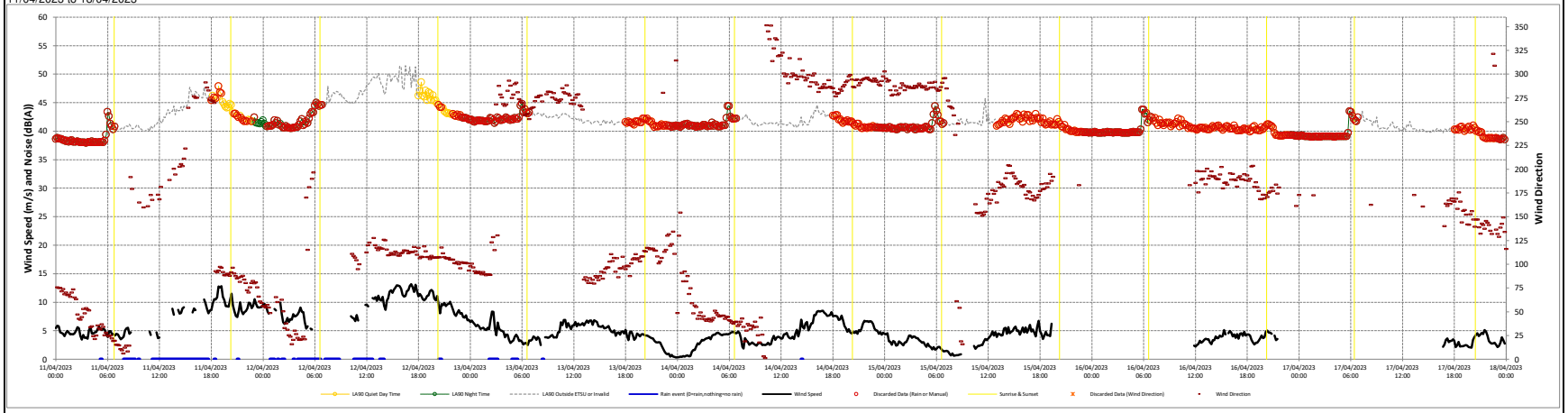
This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

Annex 4 – Time Series Graphs

04/04/2023 to 11/04/2023



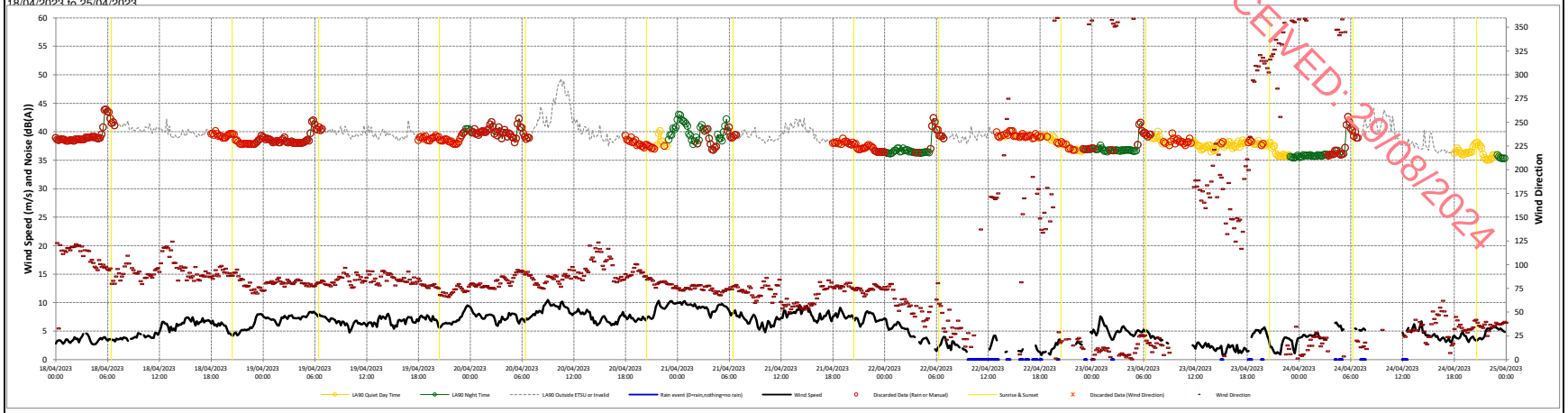
11/04/2023 to 18/04/2023

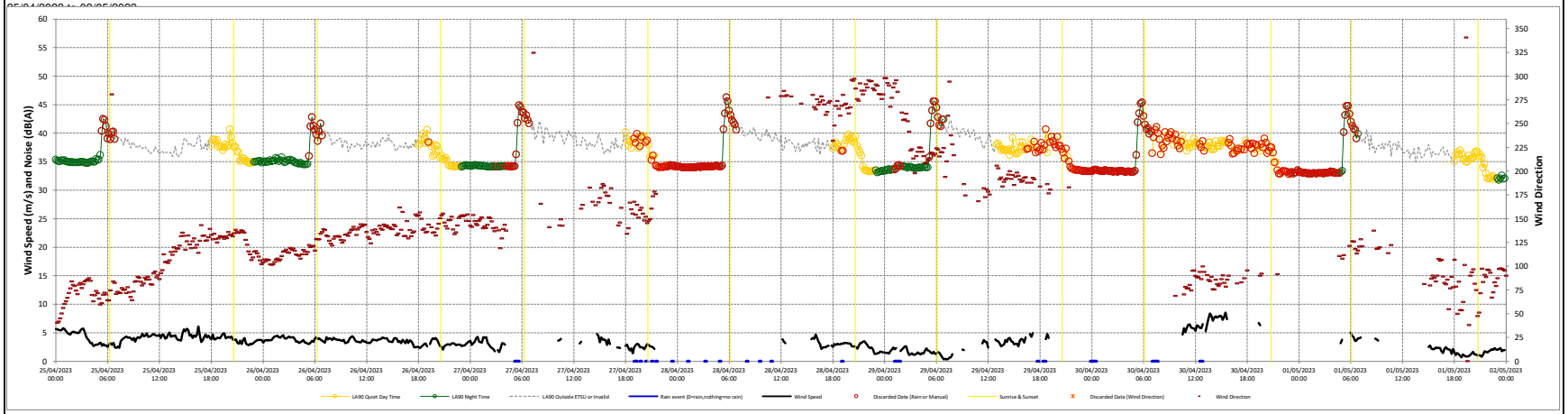


Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML1 Page 1 of 6
Date	17/05/2024

tnei

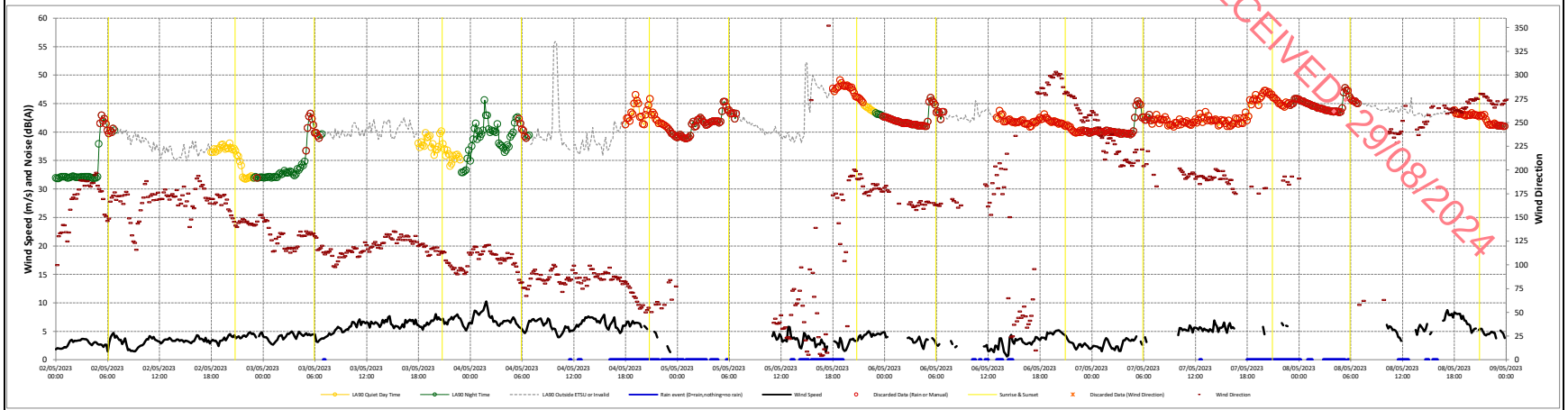
18/04/2023 to 25/04/2023

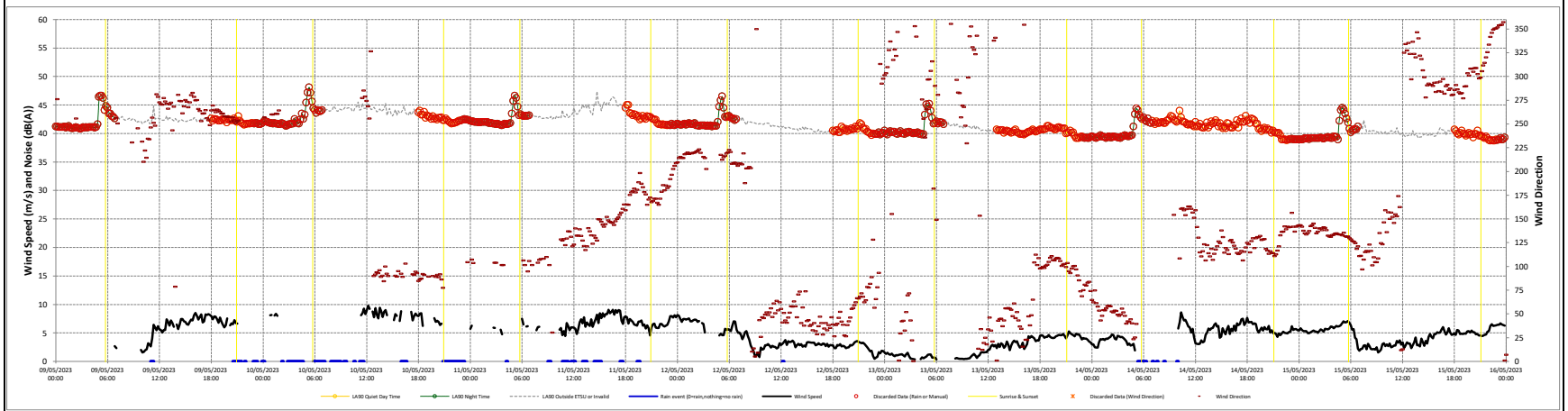




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML1 Page 2 of 6
Date	17/05/2024

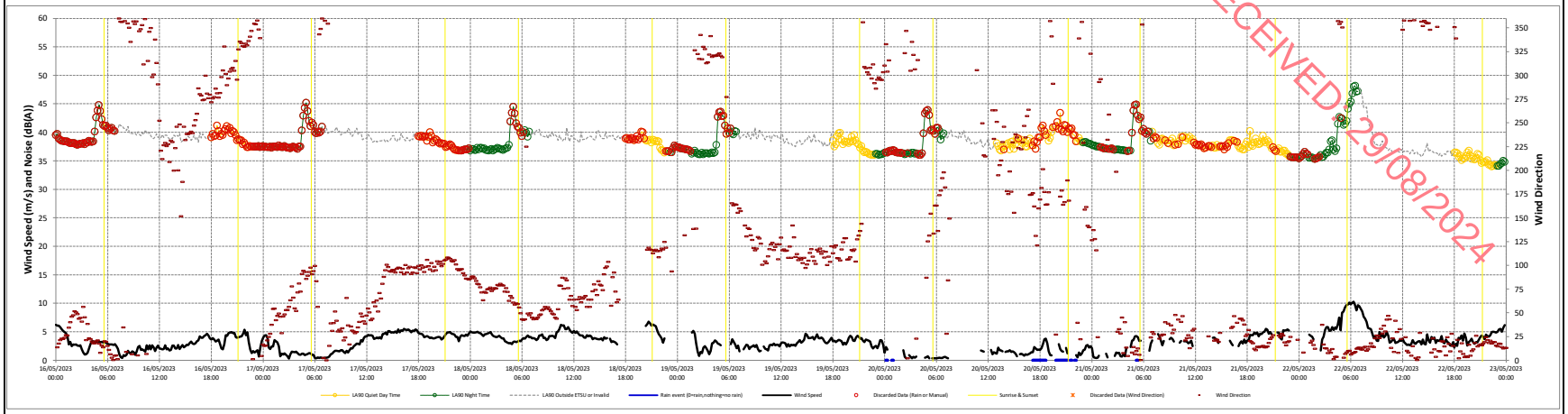
tnei

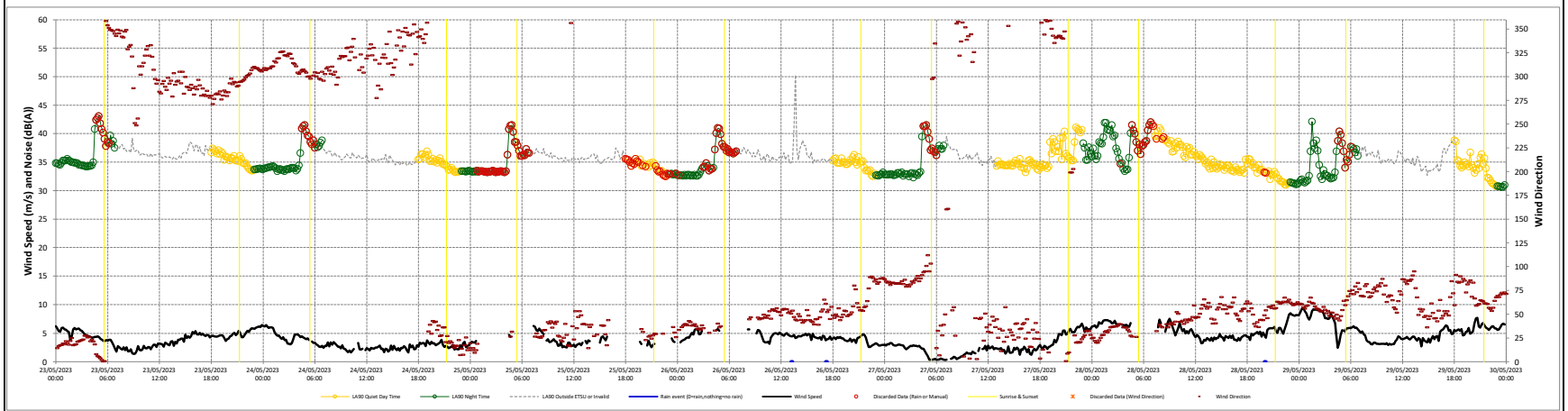




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML1 Page 3 of 6
Date	17/05/2024

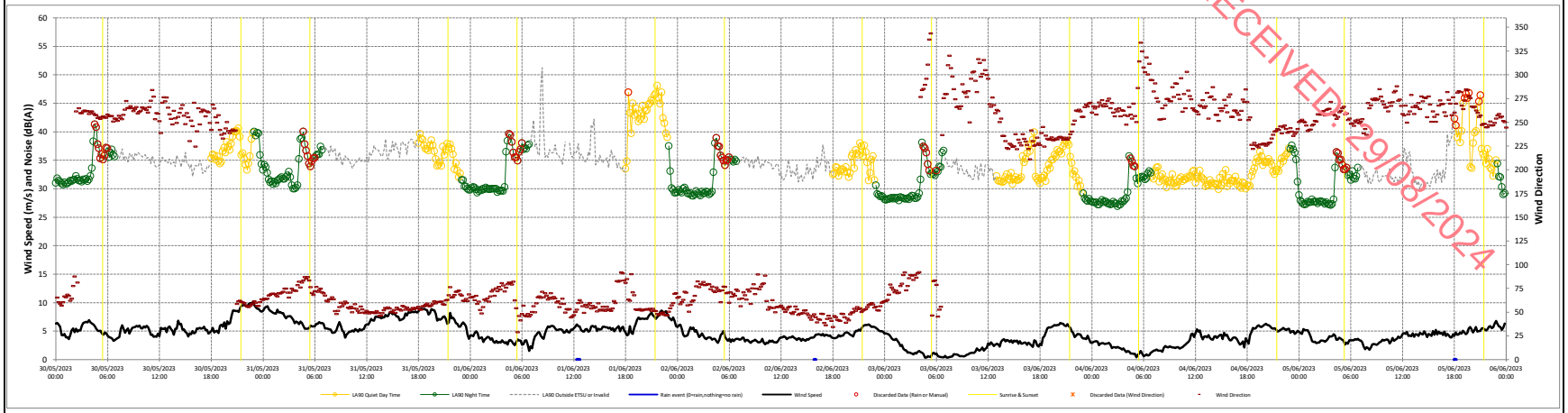
tnei

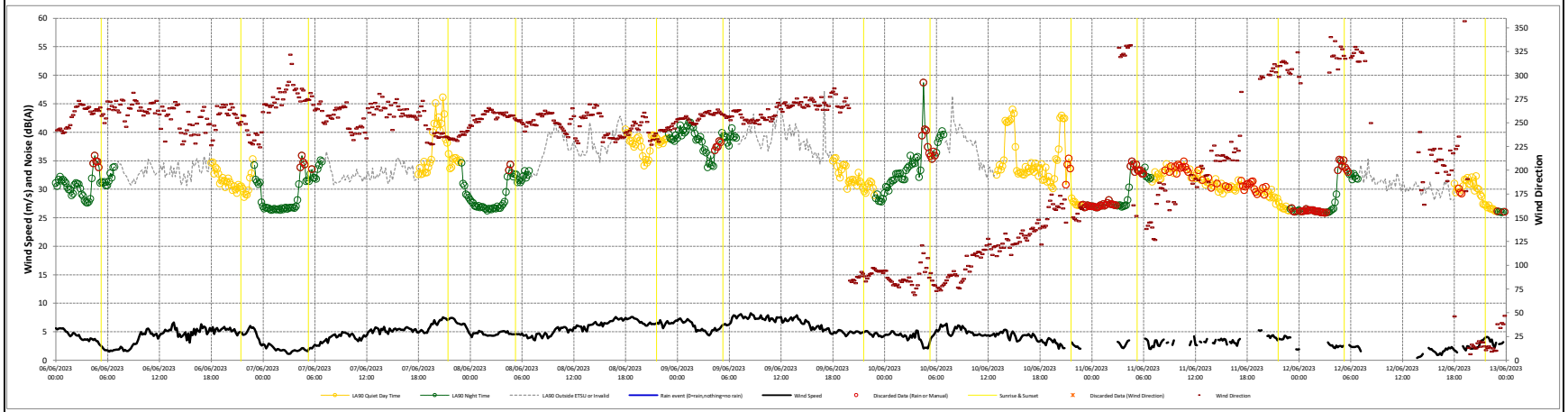




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML1 Page 4 of 6
Date	17/05/2024

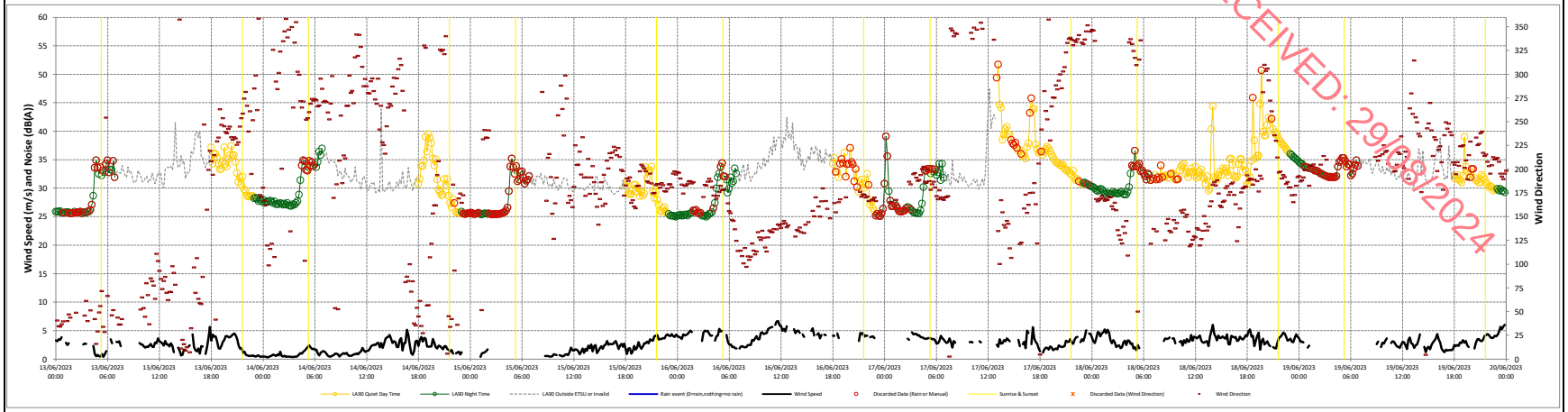
tnei

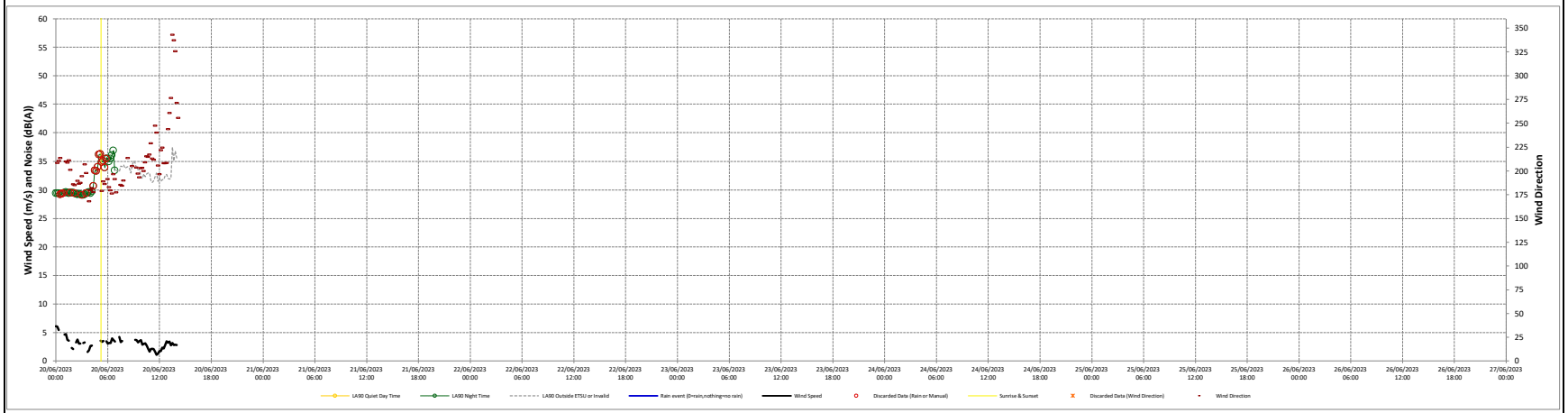




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML1 Page 5 of 6
Date	17/05/2024

tnei

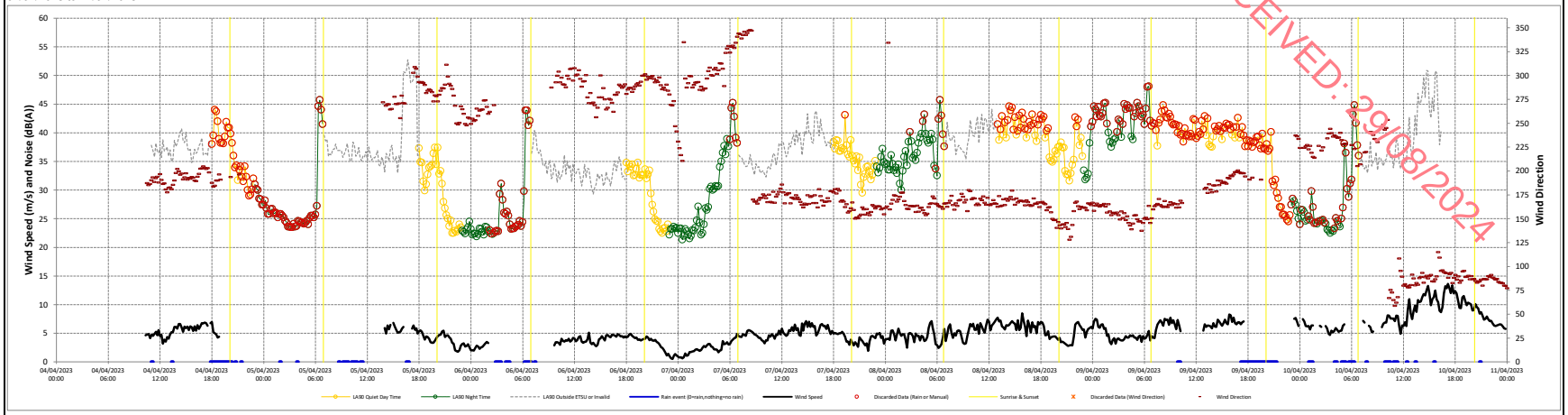




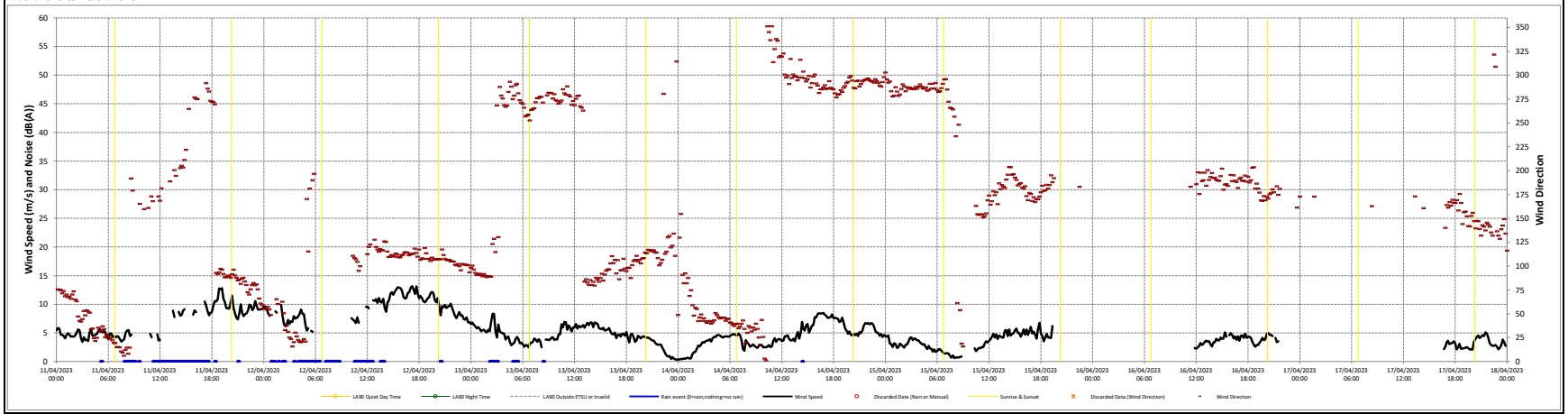
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML1 Page 6 of 6
Date	17/05/2024

tnei

04/04/2023 to 11/04/2023

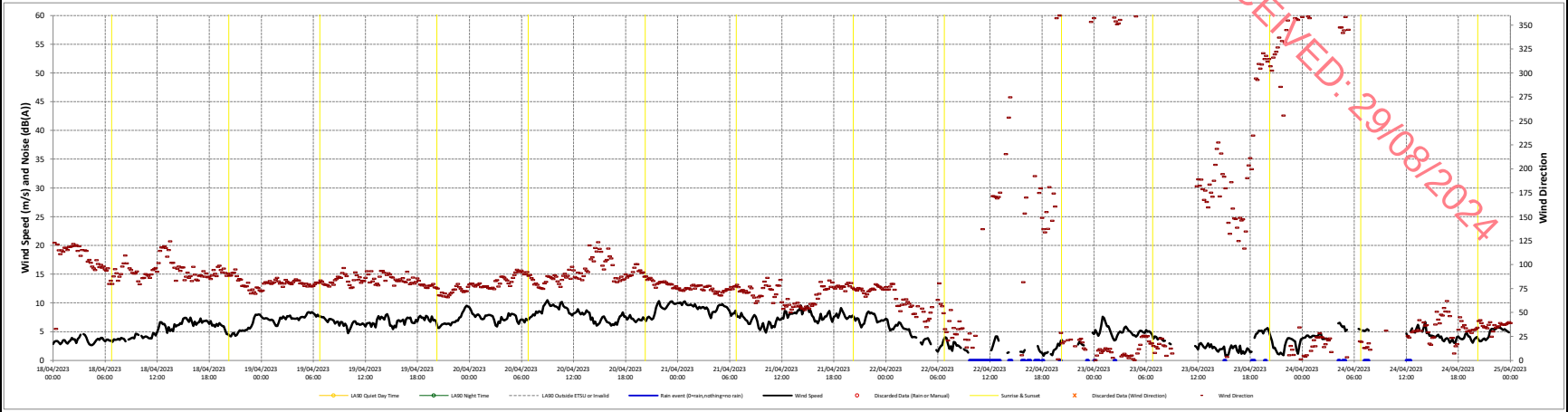


11/04/2023 to 18/04/2023

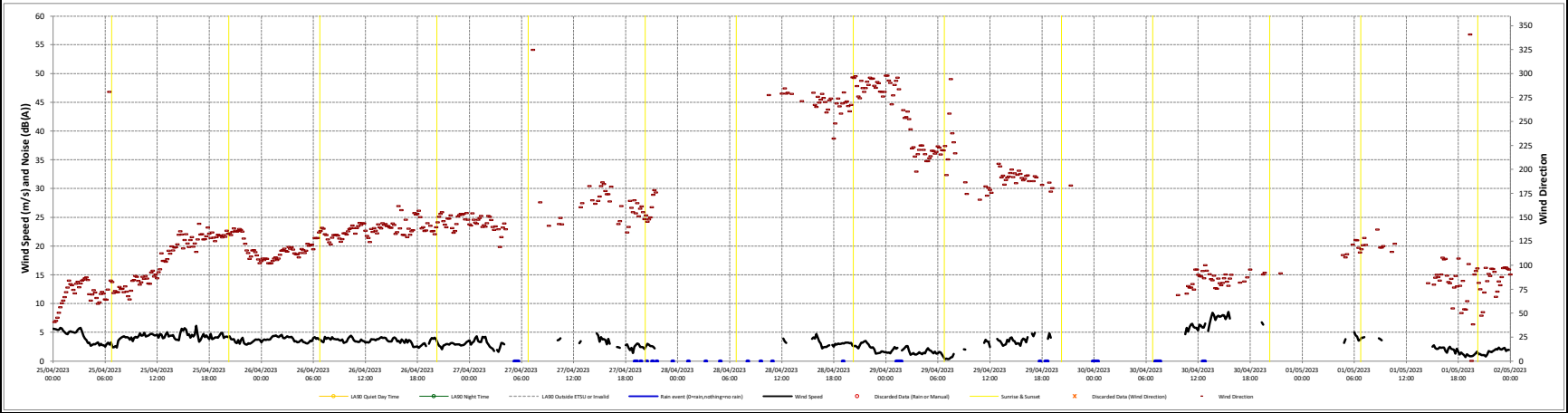


Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML2 Page 1 of 6
Date	16/05/2024

18/04/2023 to 25/04/2023



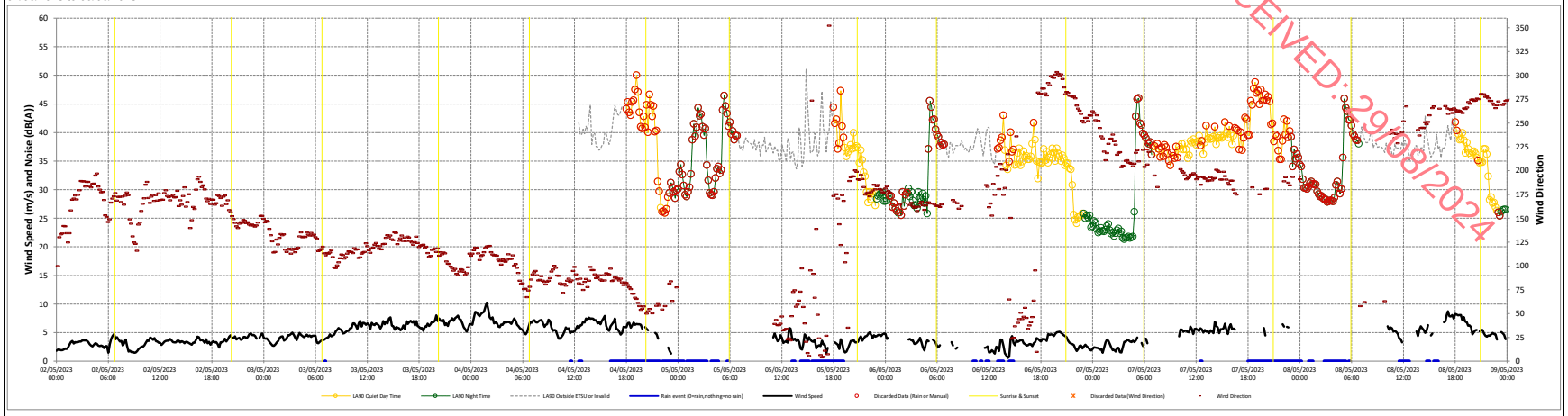
25/04/2023 to 02/05/2023



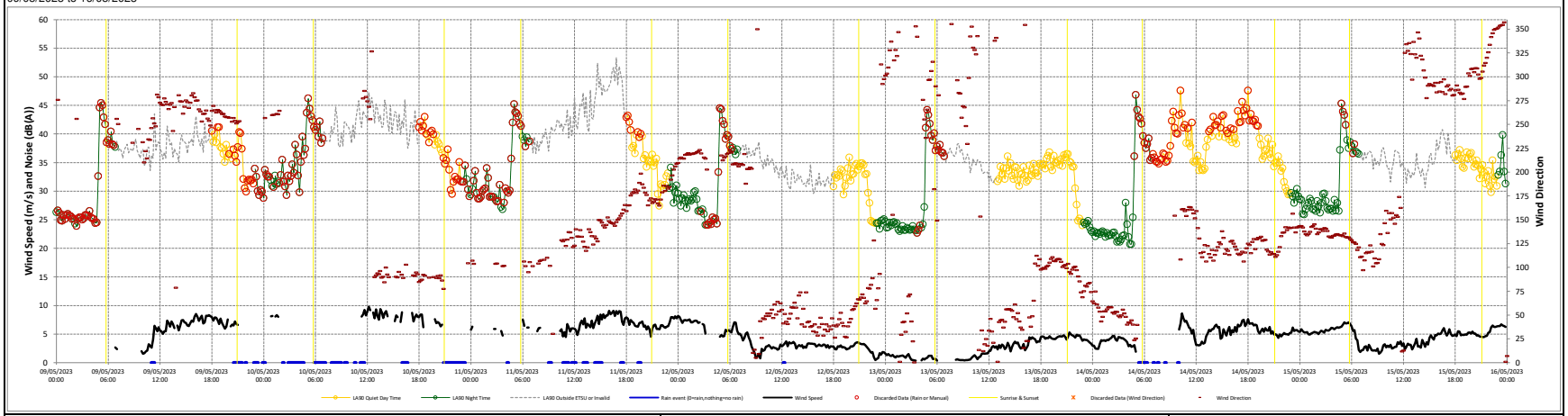
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML2 Page 2 of 6
Date	16/05/2024

tnei

02/05/2023 to 09/05/2023



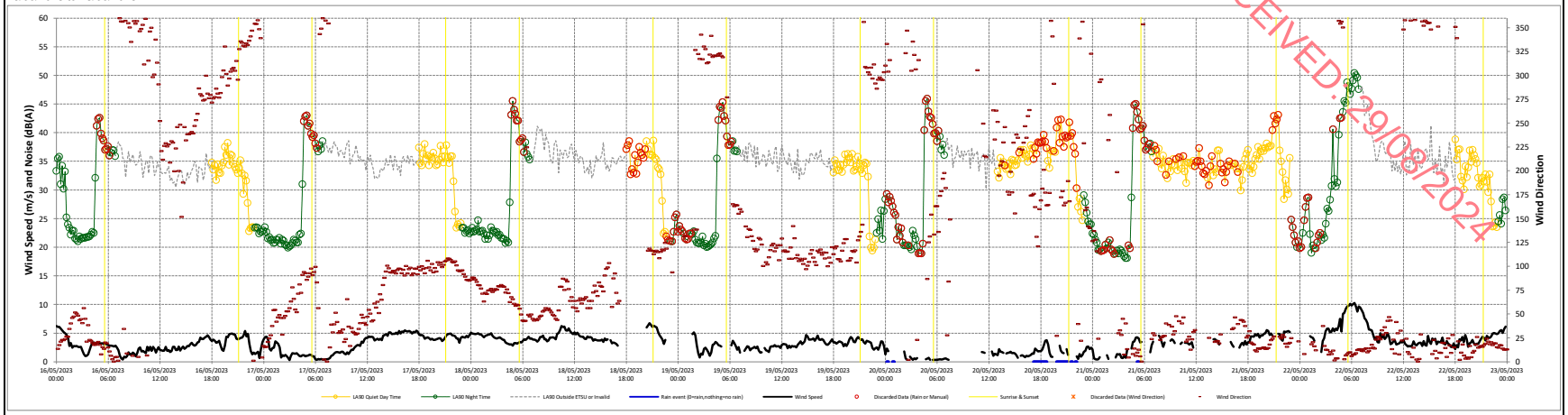
09/05/2023 to 16/05/2023



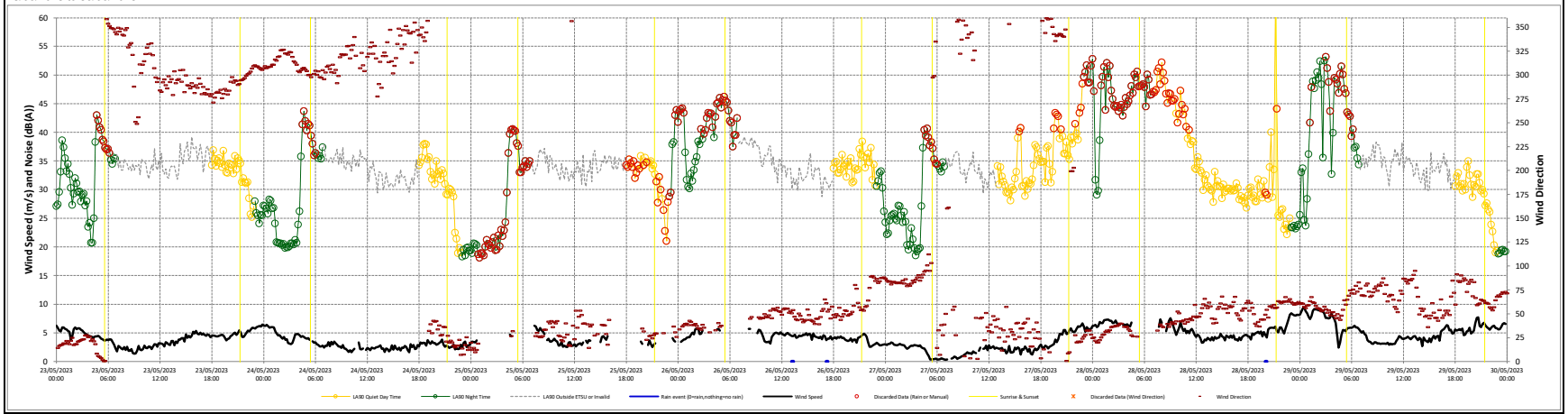
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML2 Page 3 of 6
Date	16/05/2024

tnei

16/05/2023 to 23/05/2023



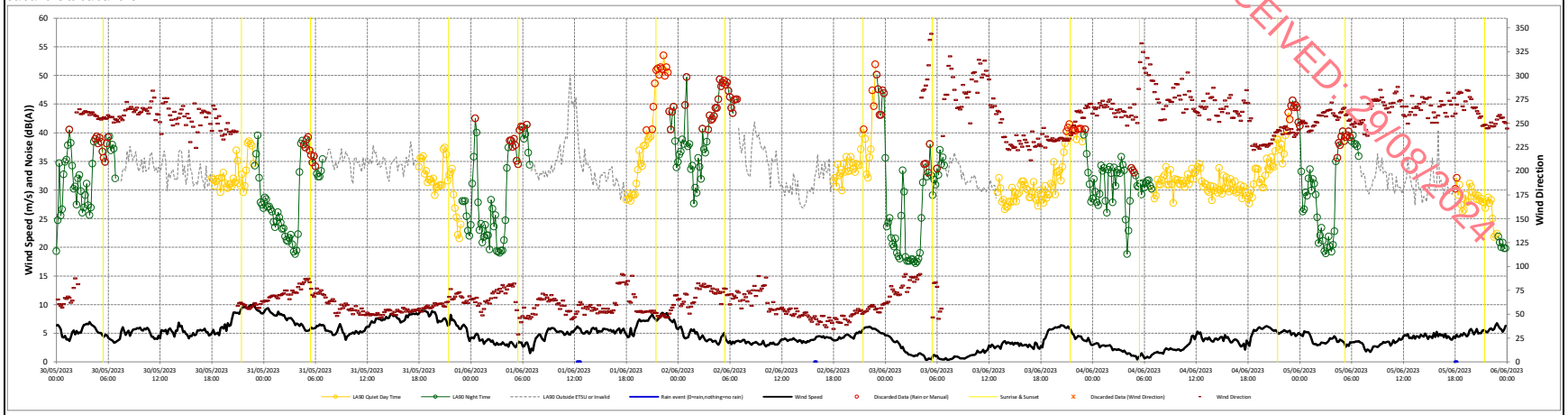
23/05/2023 to 30/05/2023



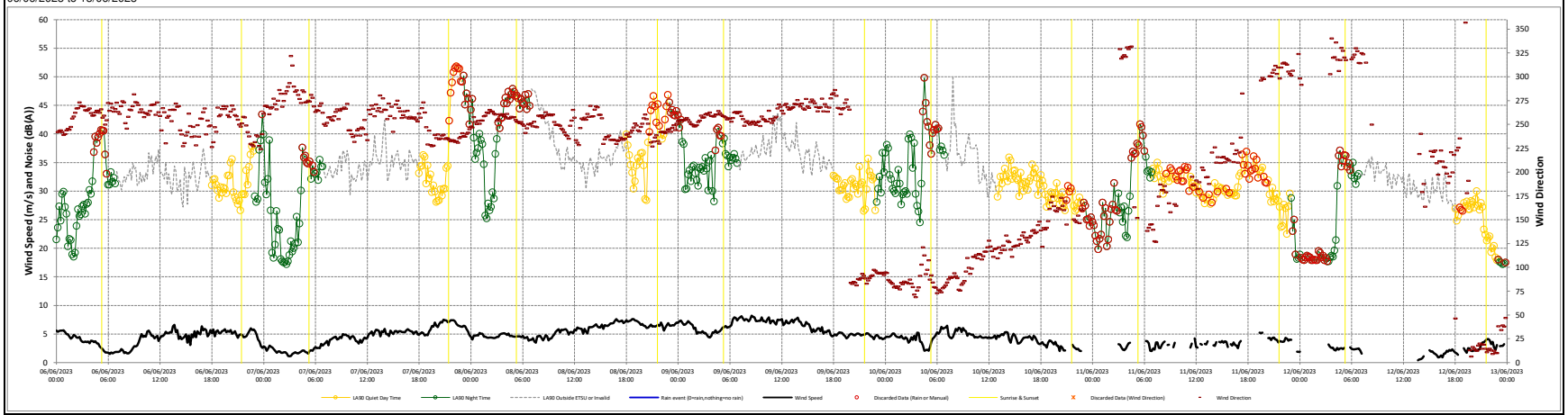
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML2 Page 4 of 6
Date	16/05/2024

tnei

30/05/2023 to 06/06/2023



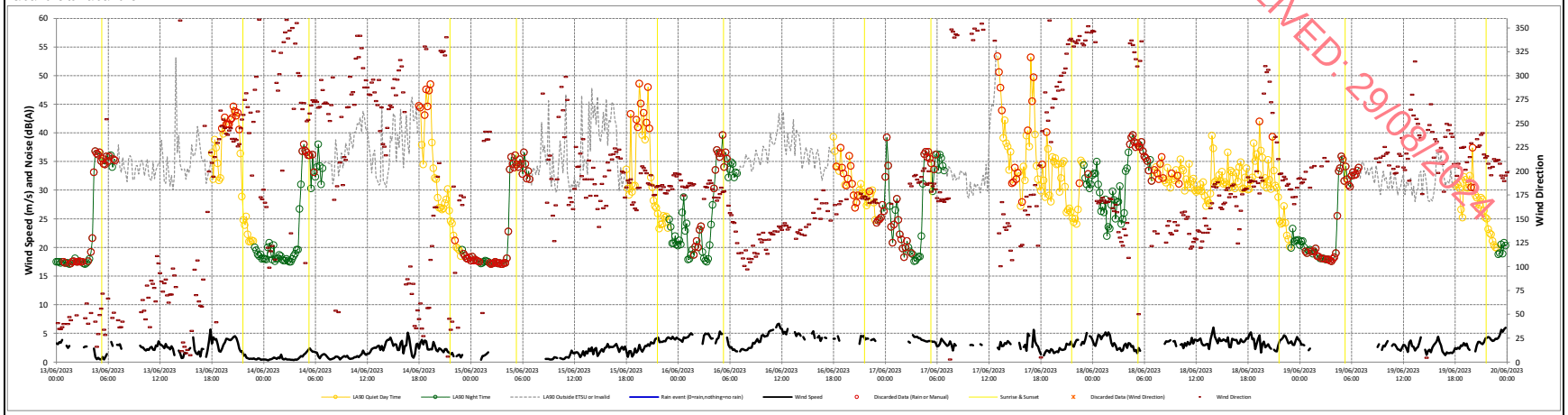
06/06/2023 to 13/06/2023



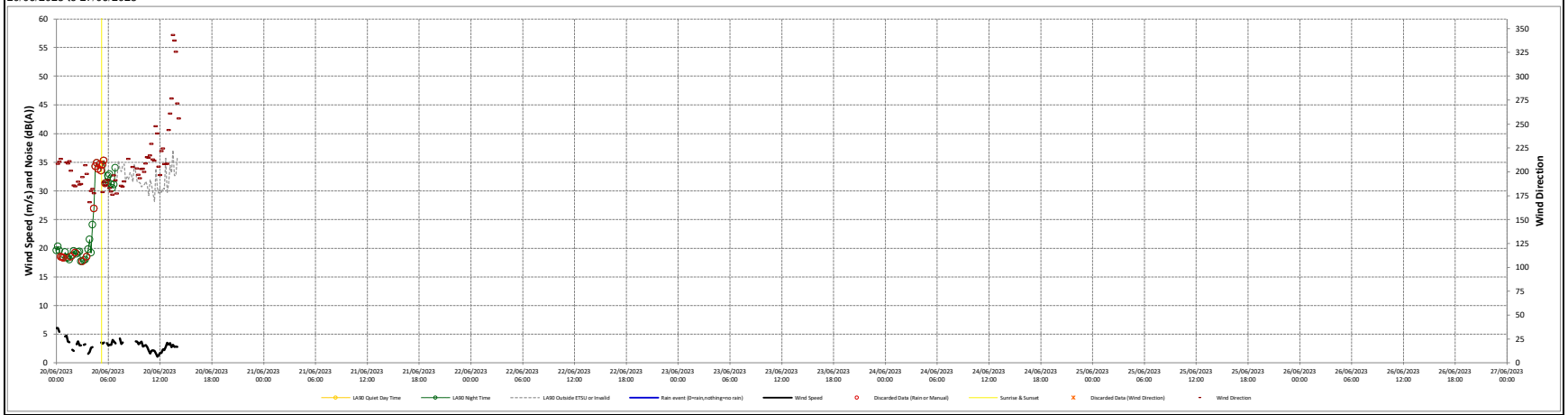
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML2 Page 5 of 6
Date	16/05/2024

tnei

13/06/2023 to 20/06/2023



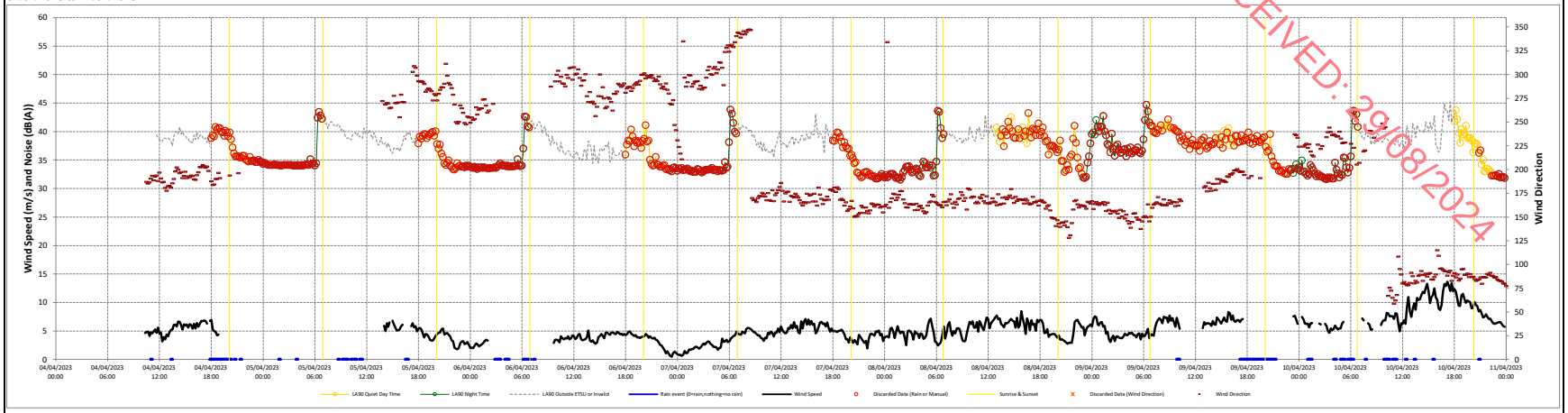
20/06/2023 to 27/06/2023



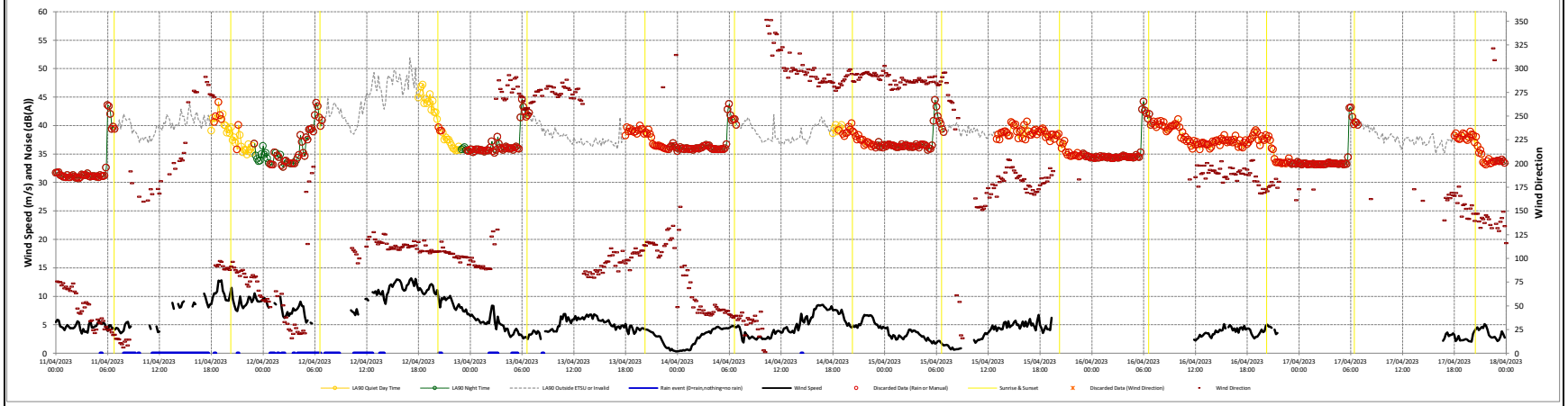
Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML2 Page 6 of 6
Date	16/05/2024

tnei

04/04/2023 to 11/04/2023



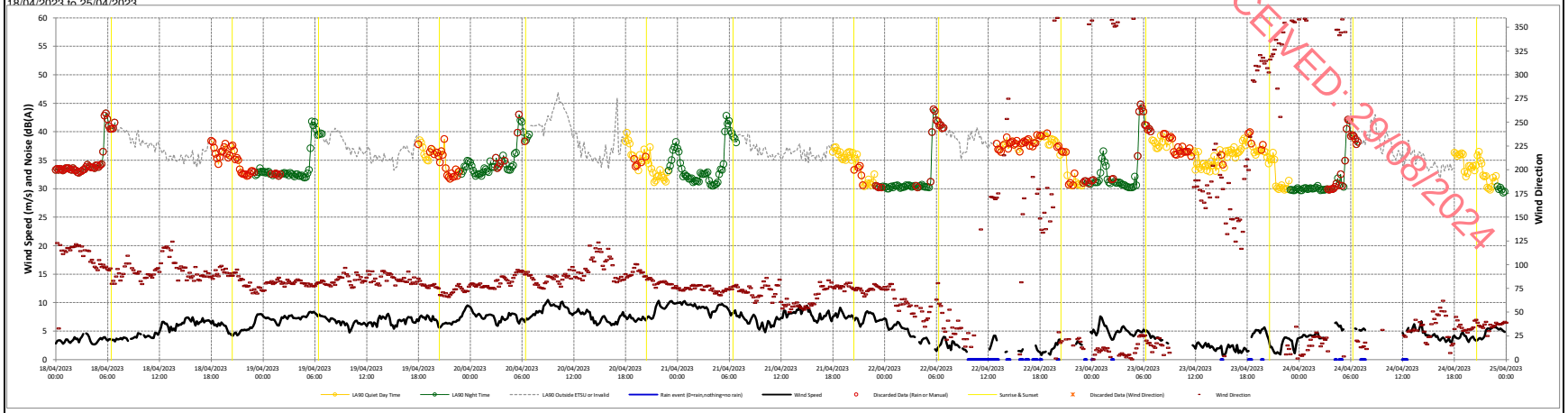
11/04/2023 to 18/04/2023

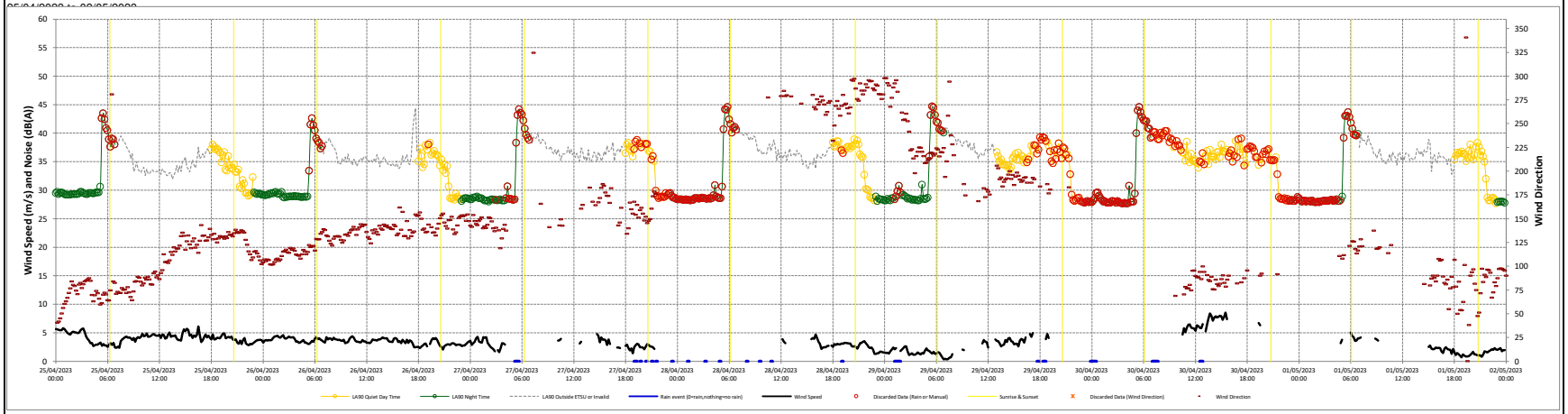


Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML3 Page 1 of 6
Date	17/05/2024

tnei

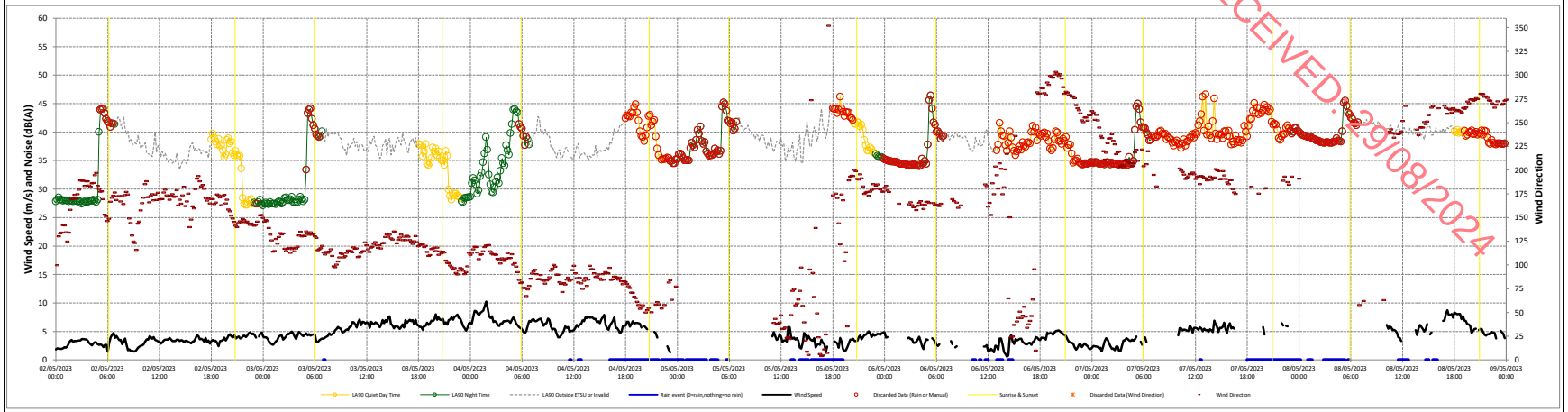
18/04/2023 to 25/04/2023

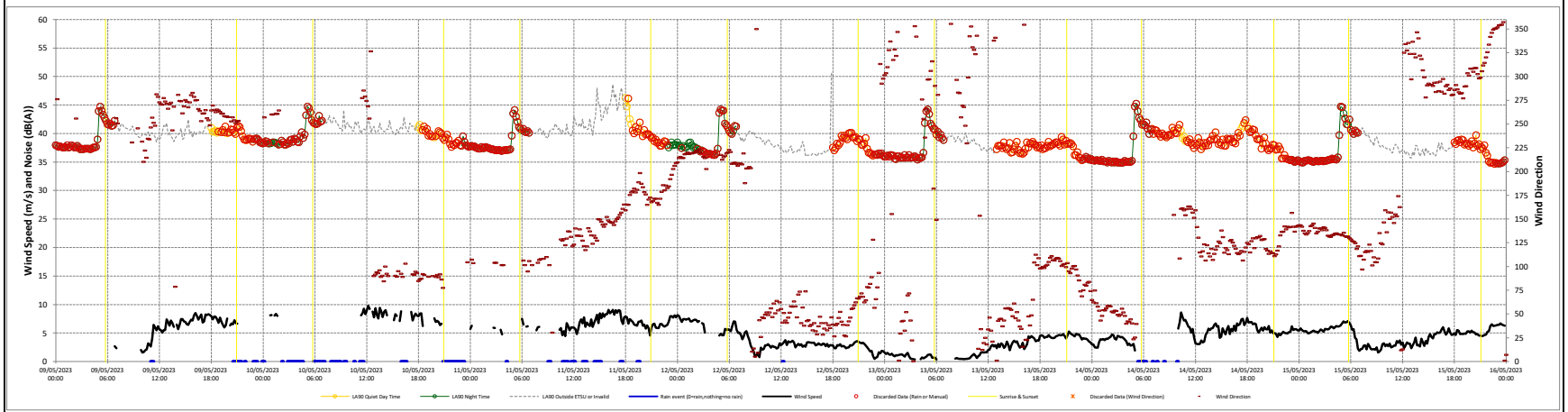




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML3 Page 2 of 6
Date	17/05/2024

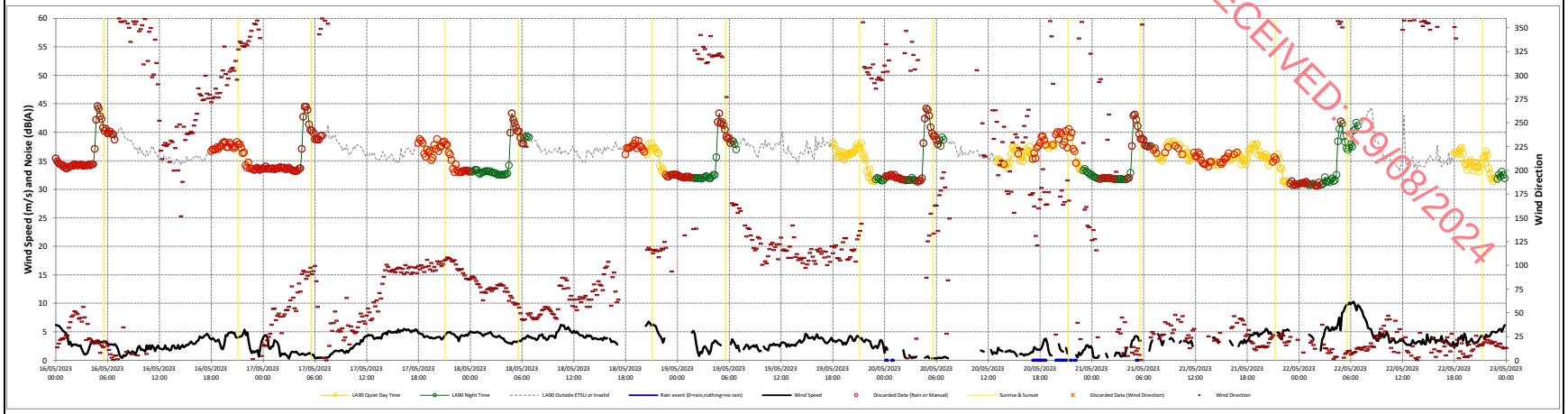
tnei

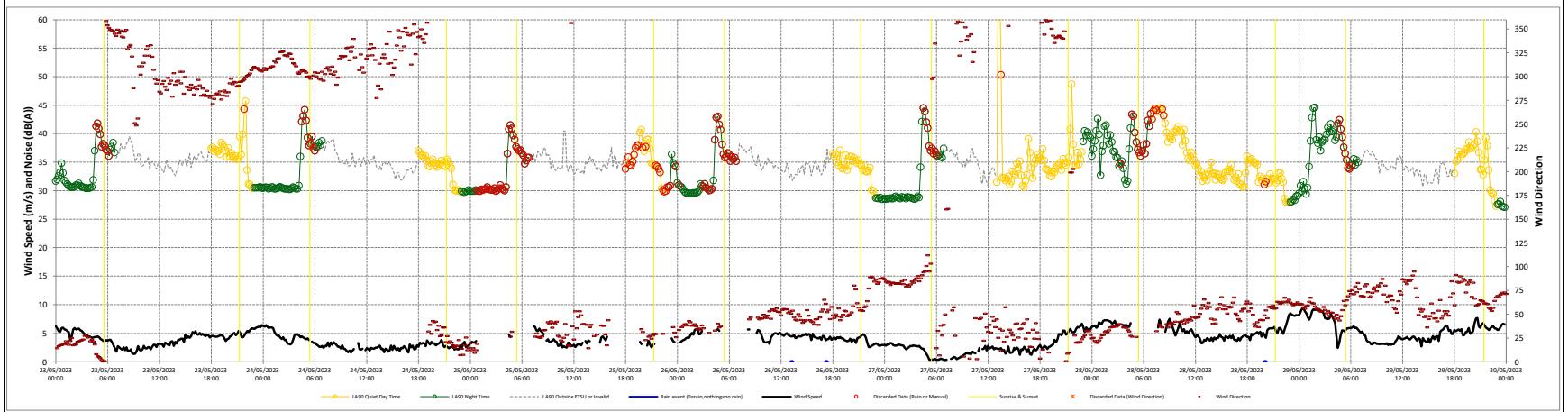




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML3 Page 3 of 6
Date	17/05/2024

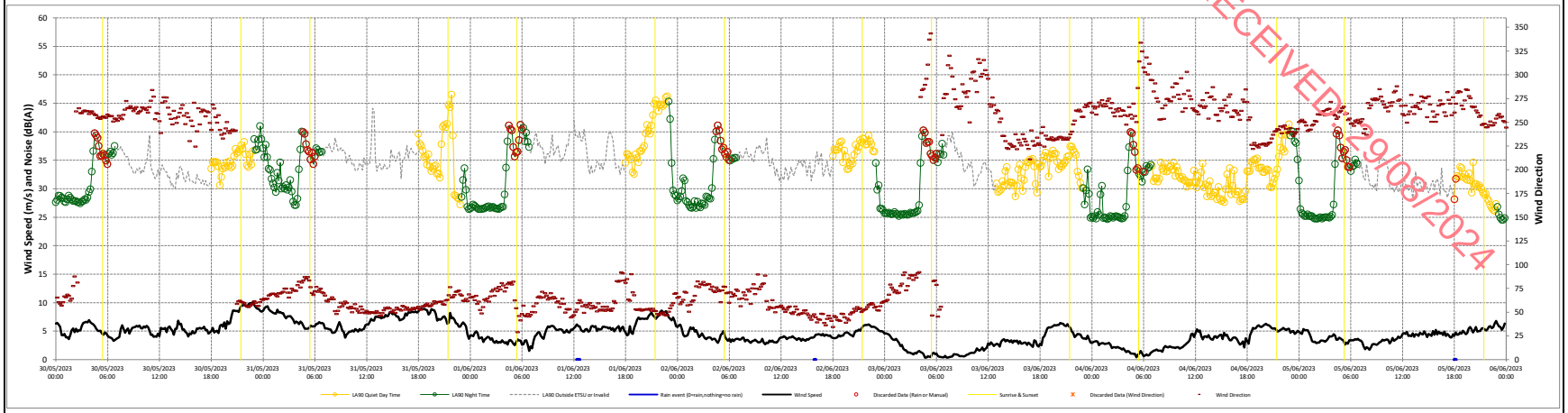
tnei

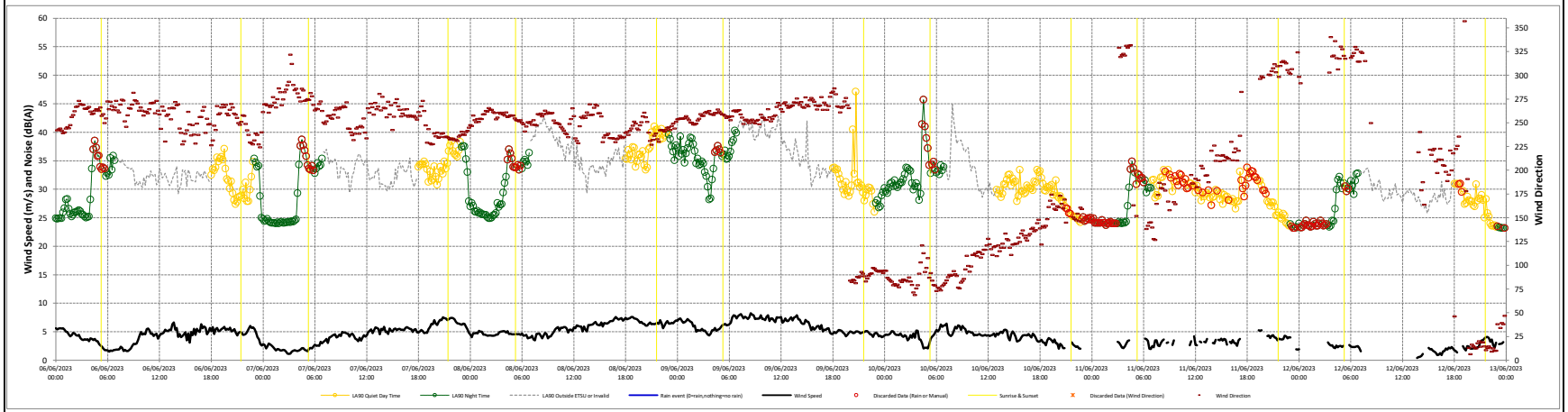




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML3 Page 4 of 6
Date	17/05/2024

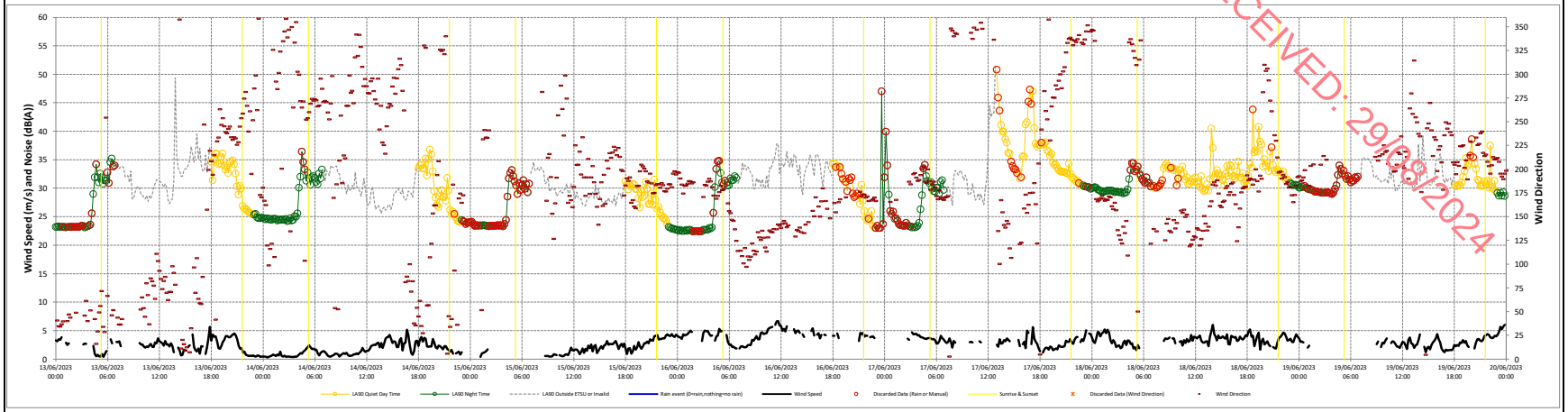
tnei

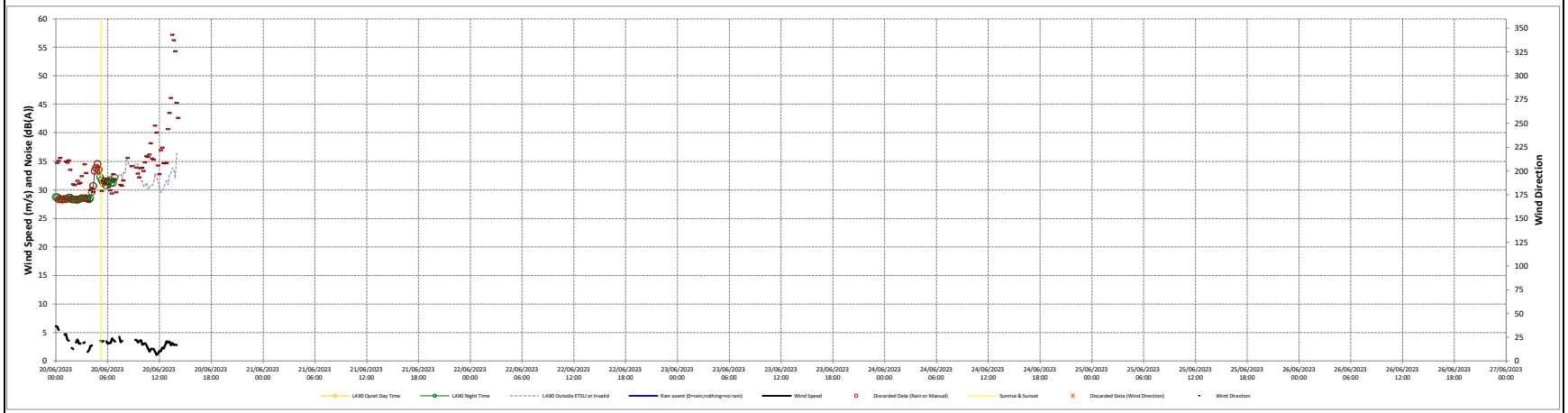




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML3 Page 5 of 6
Date	17/05/2024

tnei





Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML3 Page 6 of 6
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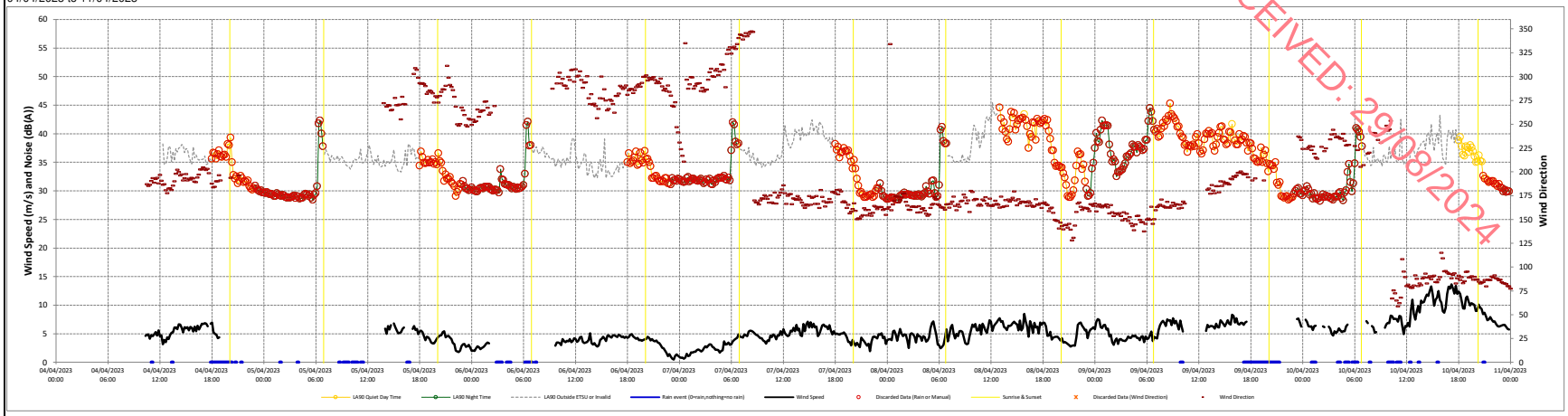
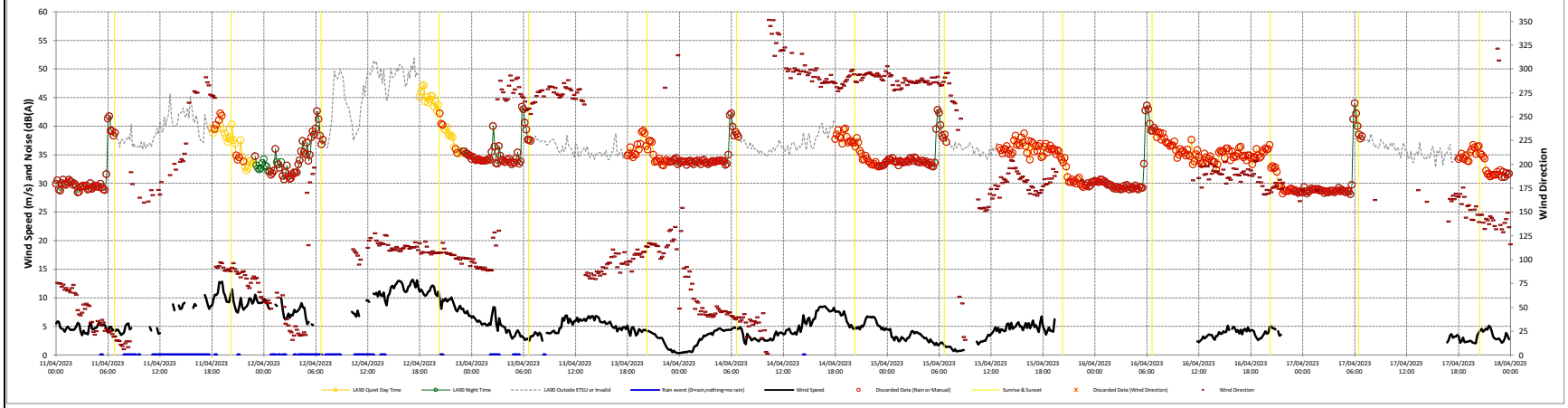
tnei

04/04/2023 to 11/04/2023



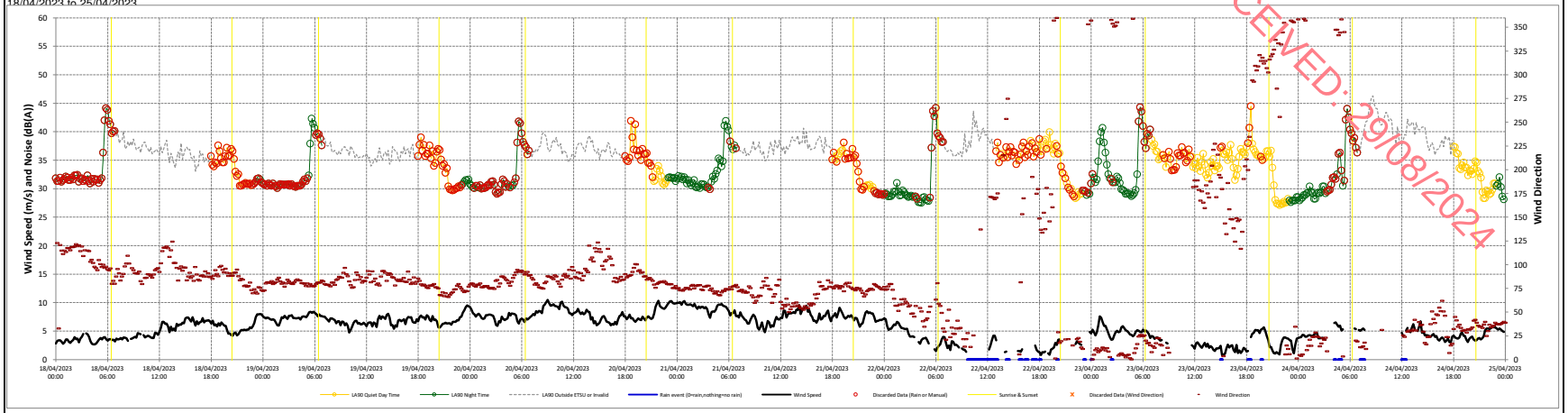
11/04/2023 to 18/04/2023

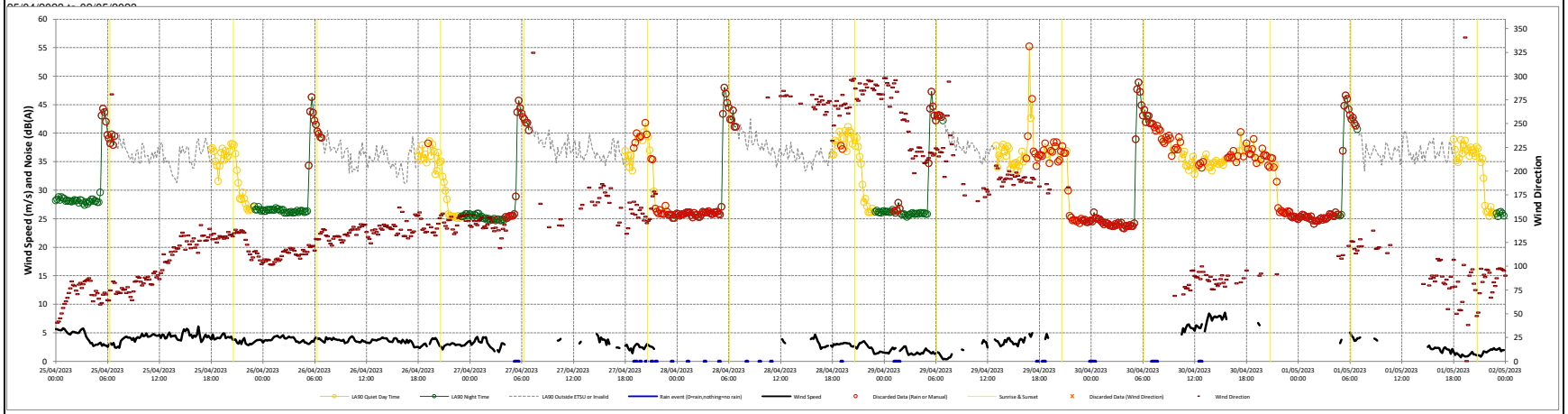


Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML4 Page 1 of 6
Date	17/05/2024

tnei

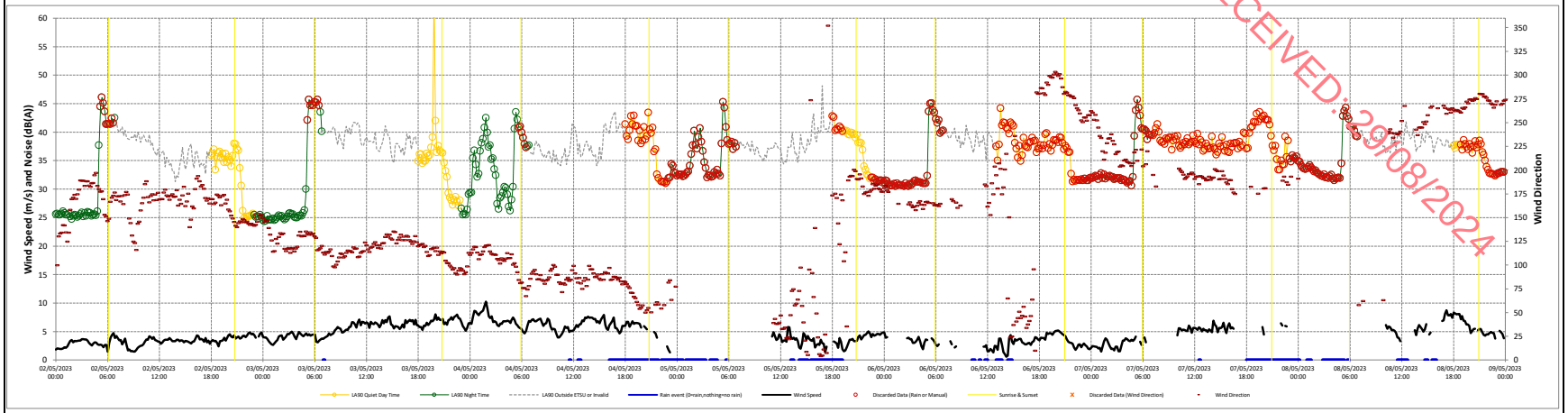
18/04/2023 to 25/04/2023

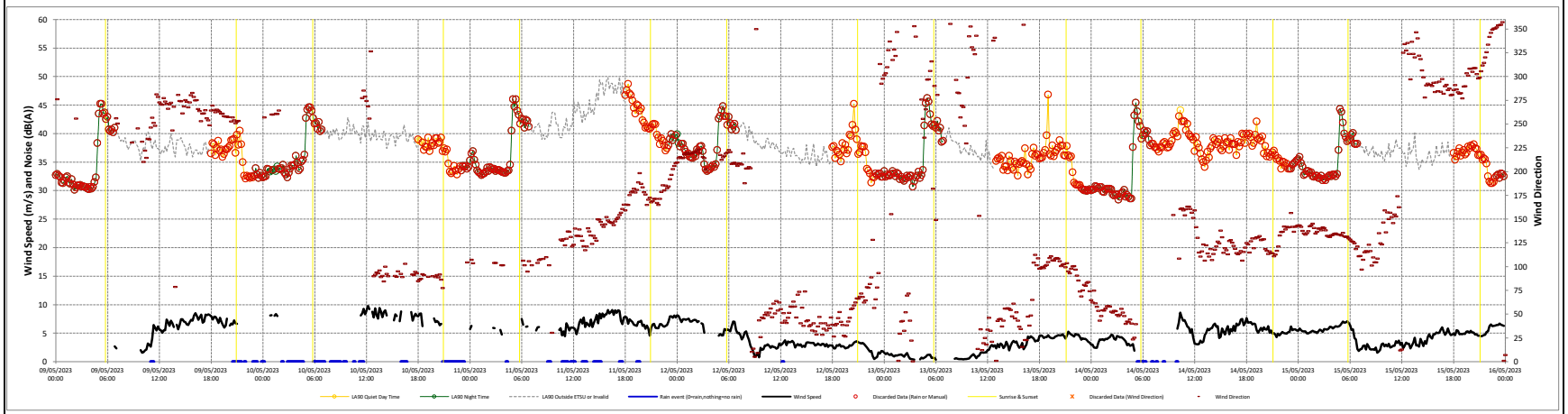




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML4 Page 2 of 6
Date	17/05/2024

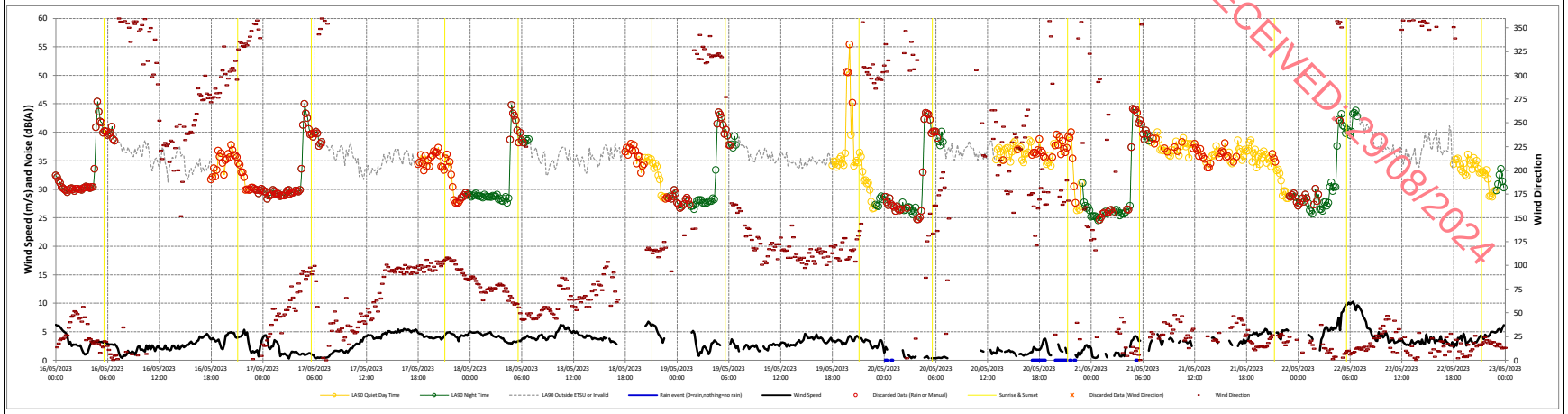
tnei

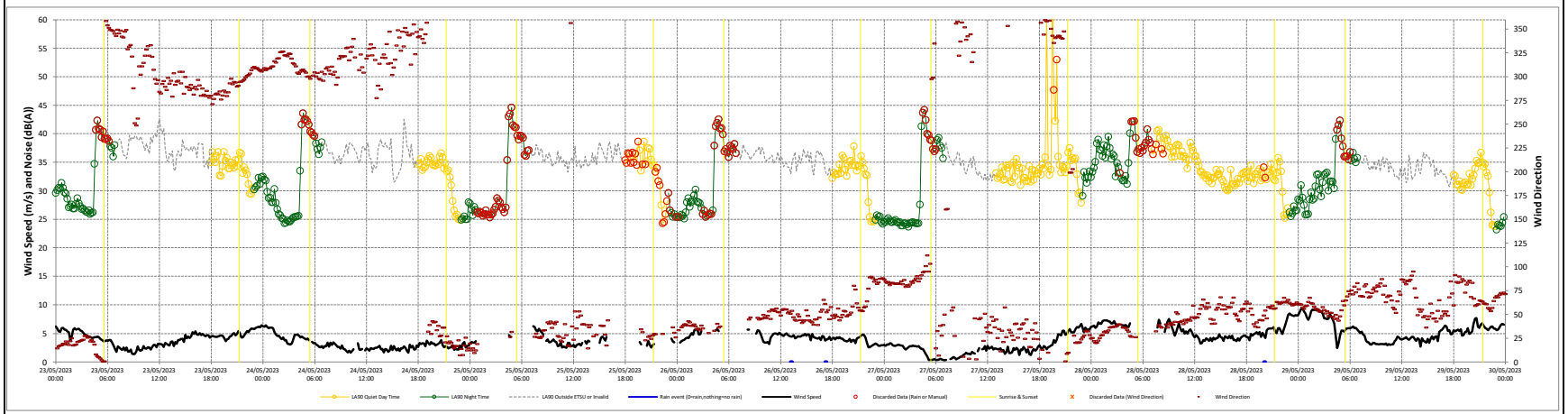




Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML4 Page 3 of 6
Date	17/05/2024

tnei





Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML4 Page 4 of 6
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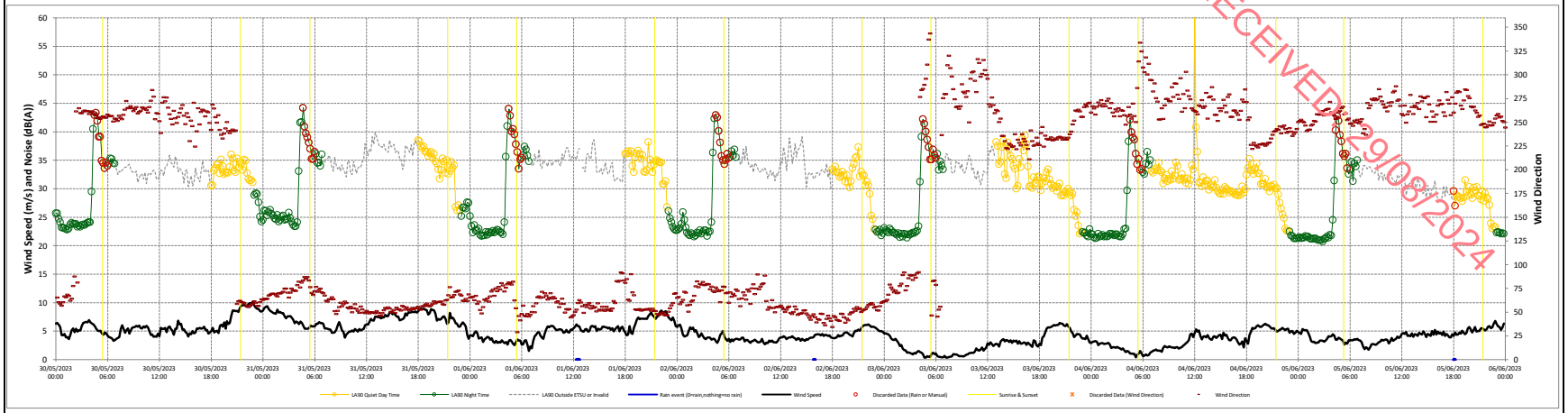

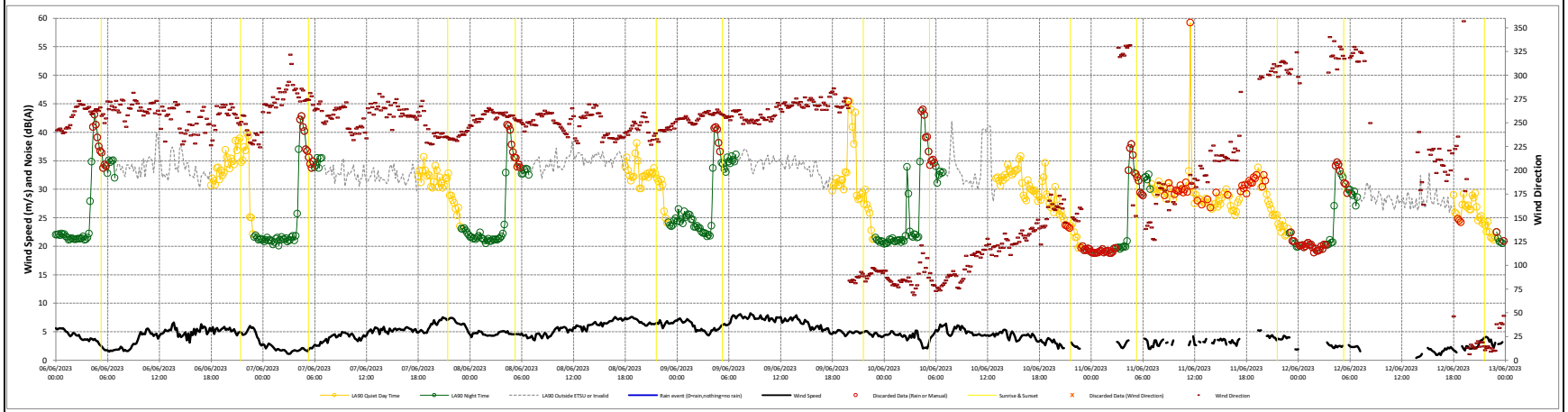

Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML4 Page 5 of 6
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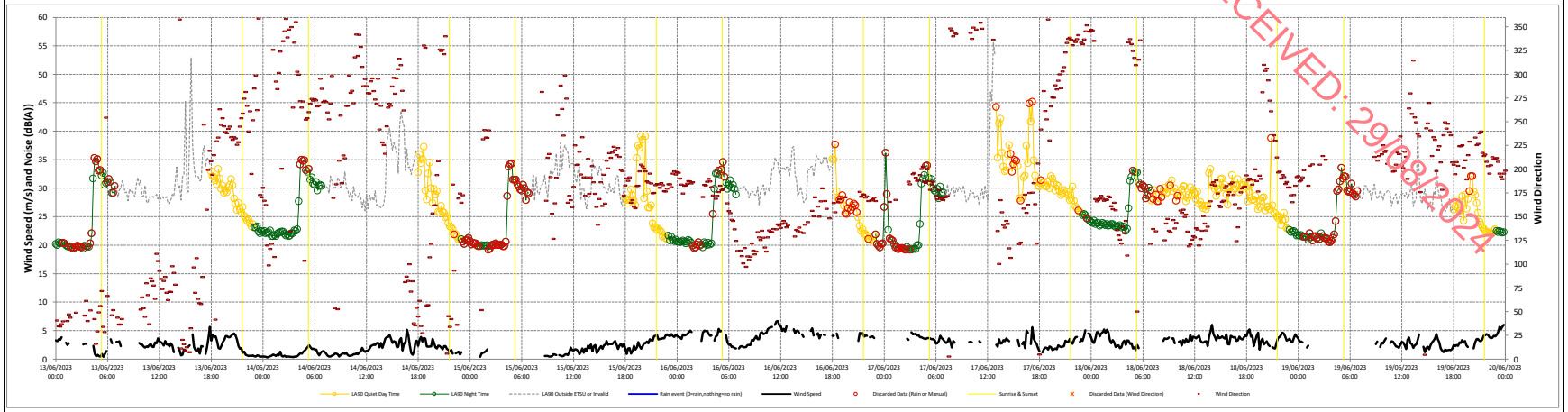
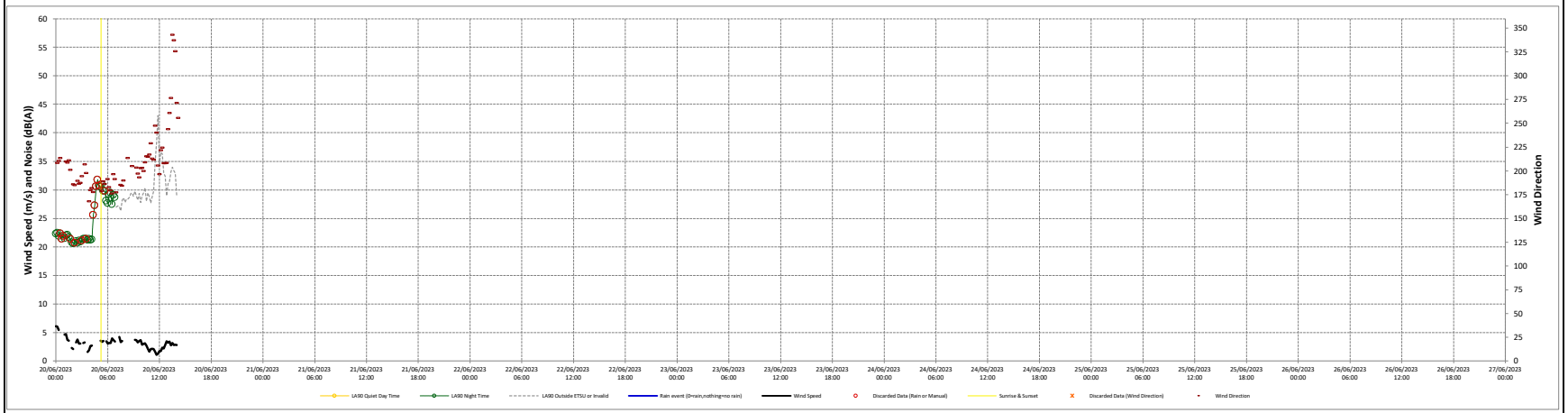
tnei





Project	Lackareagh Wind Farm, Co. Clare
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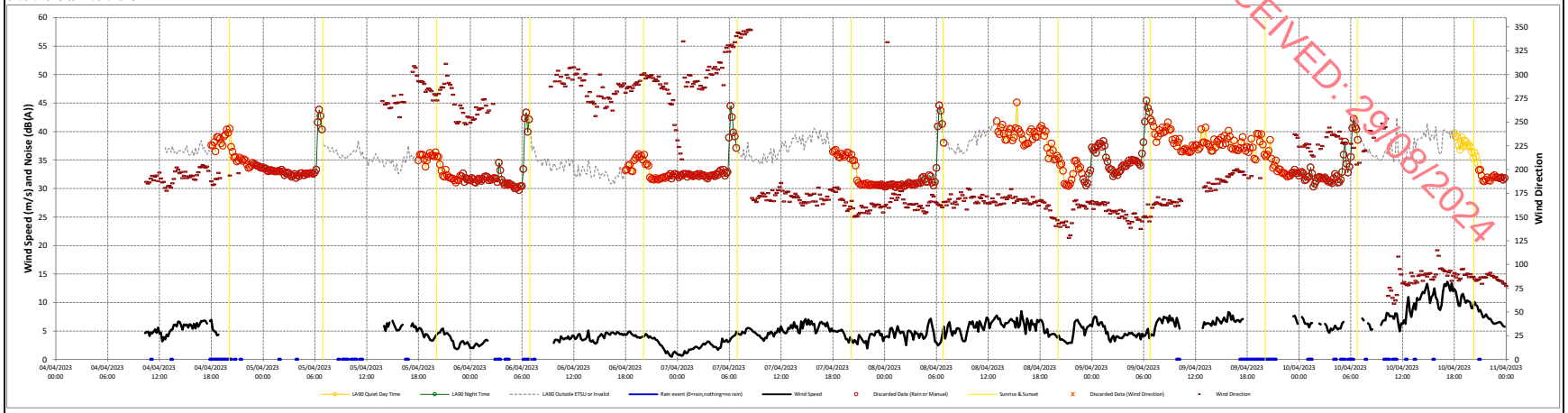
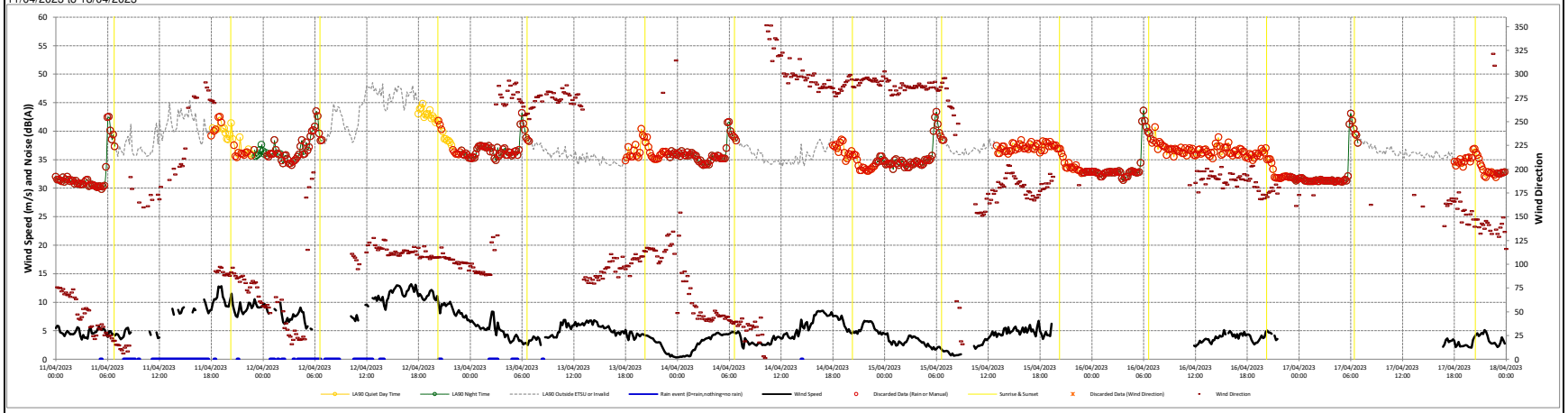
04/04/2023 to 11/04/2023



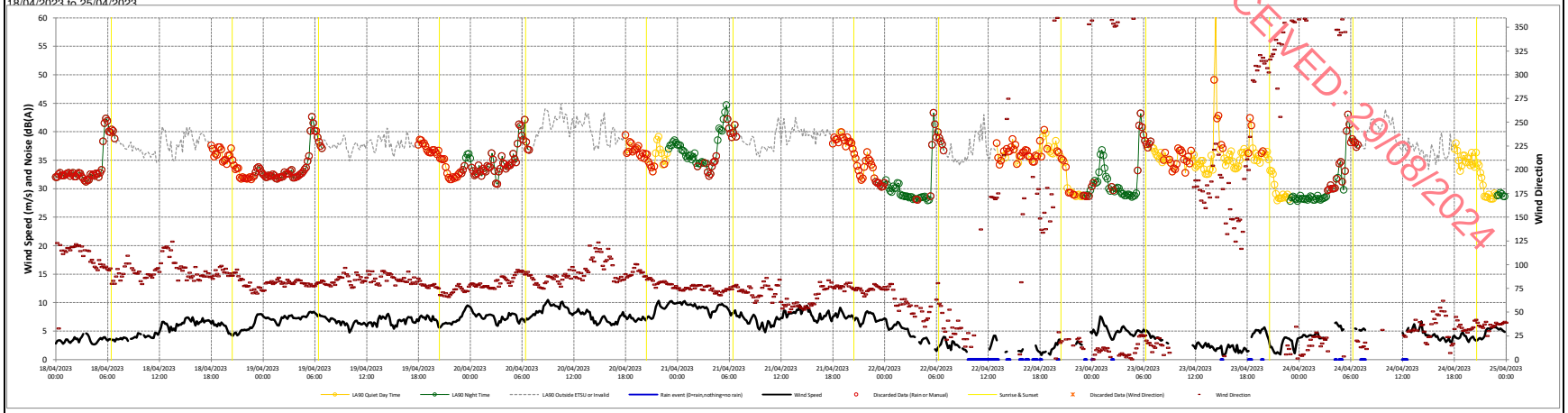
11/04/2023 to 18/04/2023

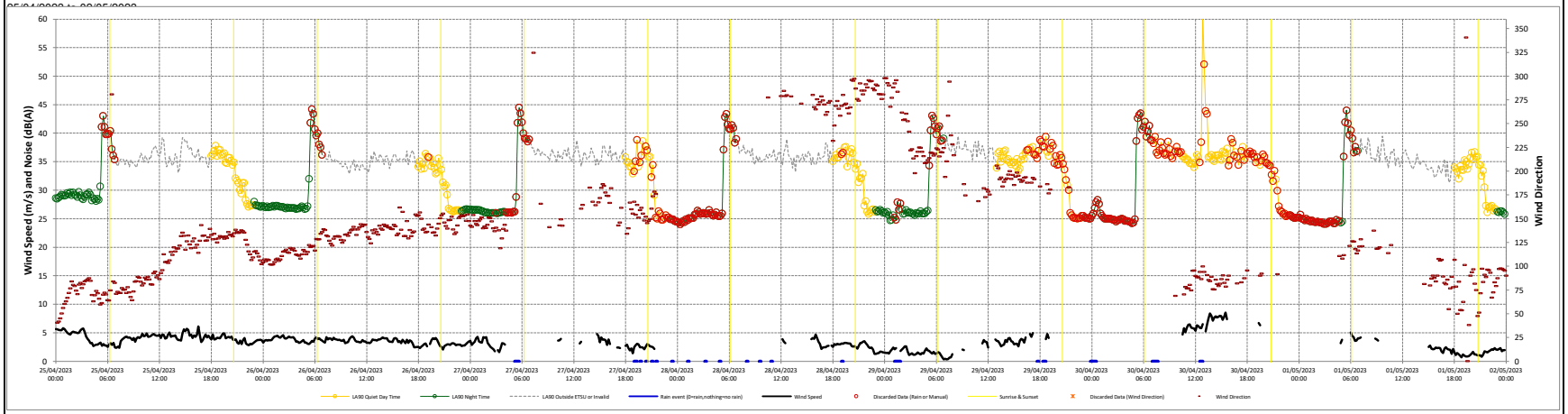


Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML5 Page 1 of 6
Date	17/05/2024

tnei

18/04/2023 to 25/04/2023





Project	Lackareagh Wind Farm, Co. Clare
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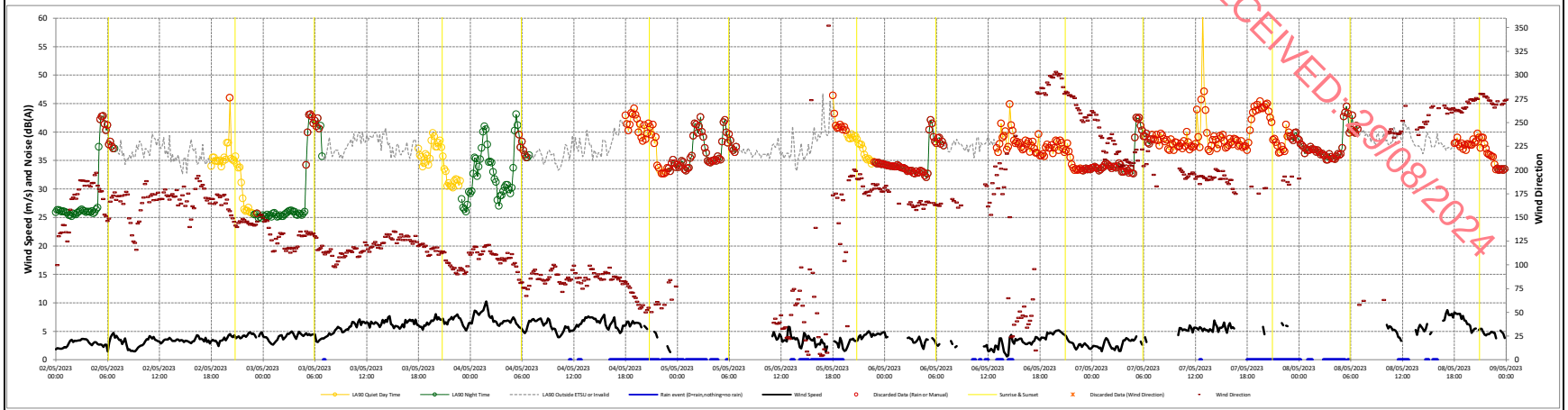
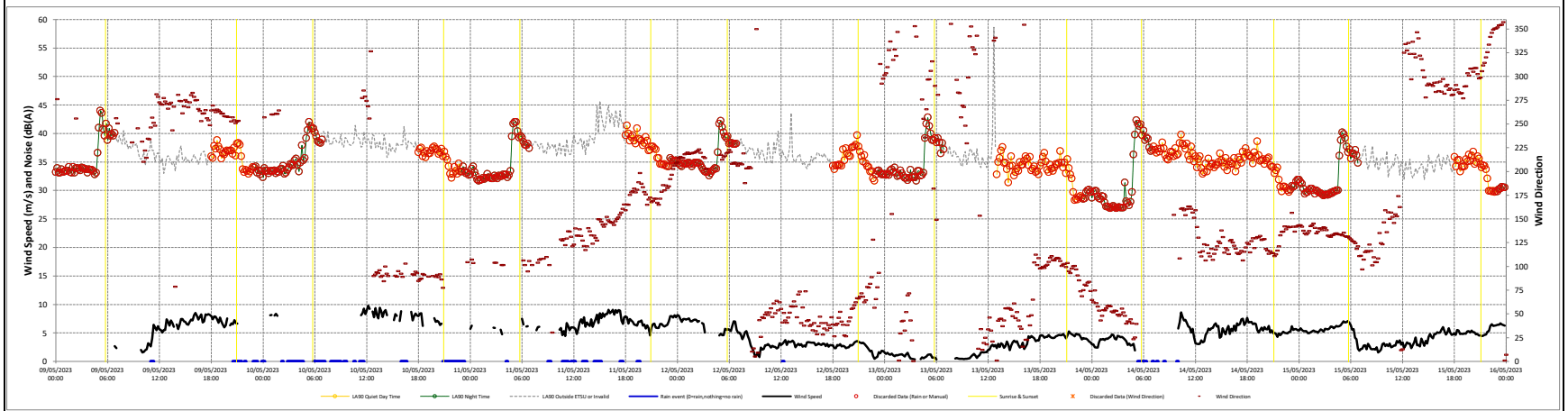
tnei





Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML5 Page 3 of 6
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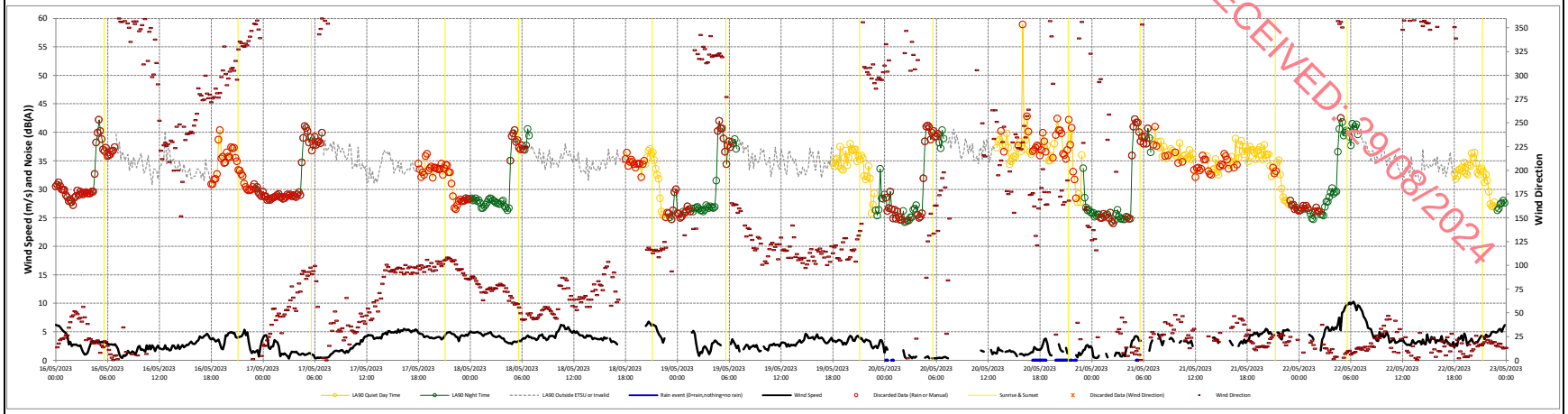
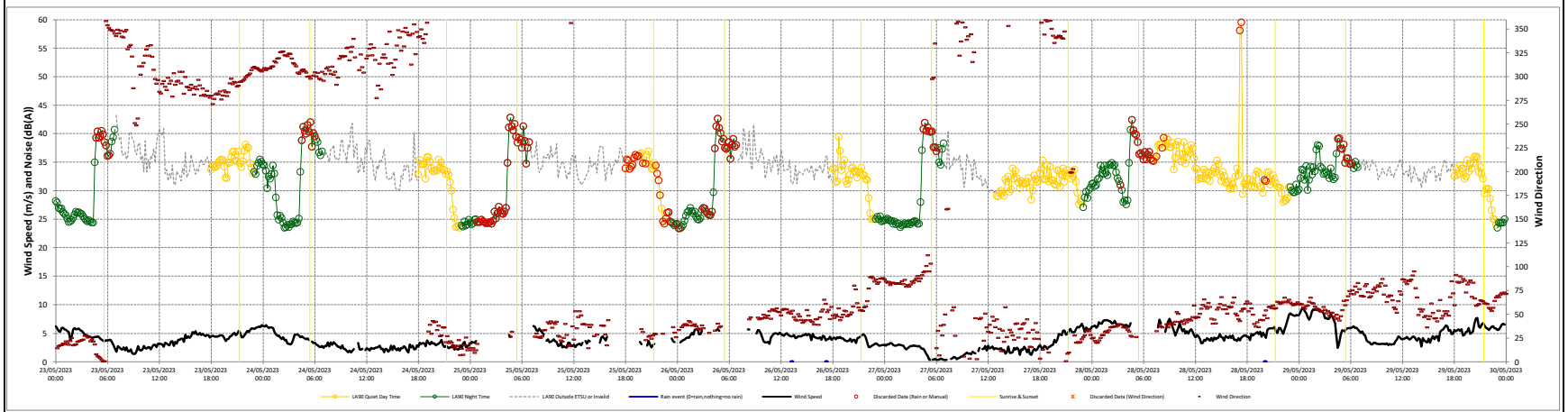
tnei





Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
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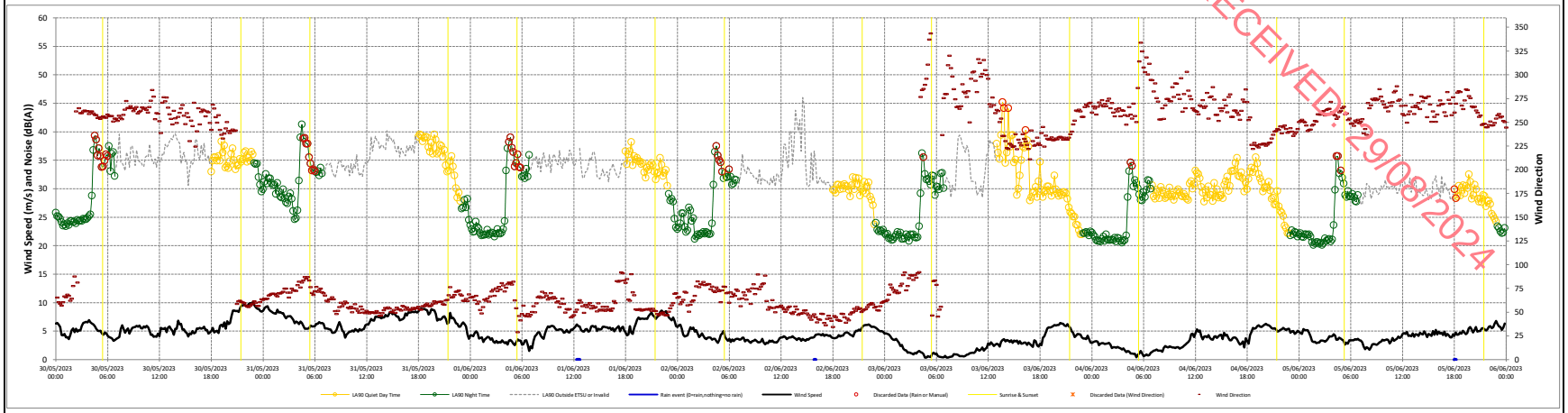
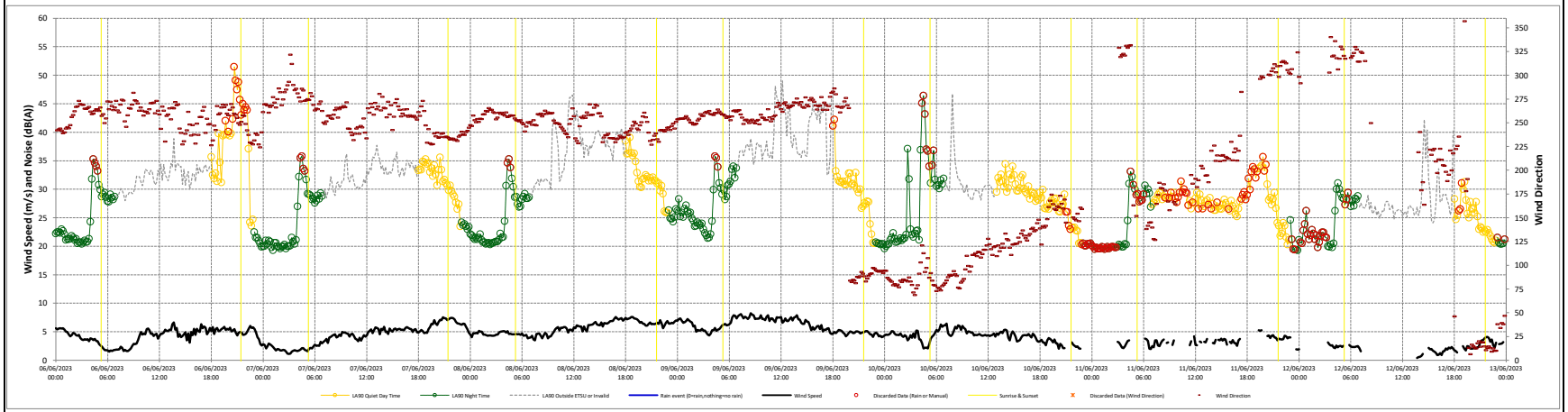
tnei





Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
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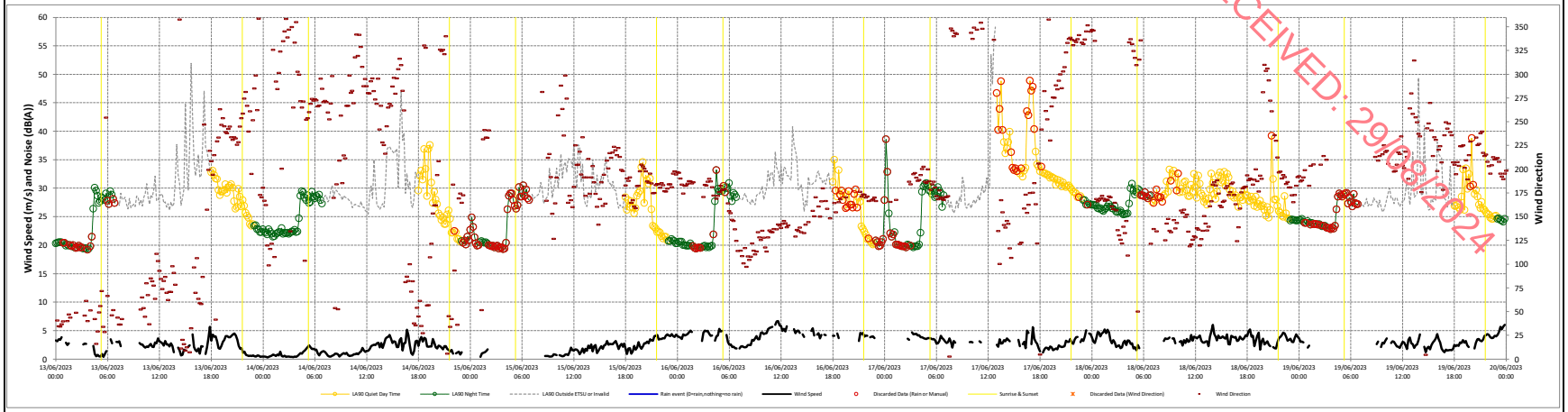

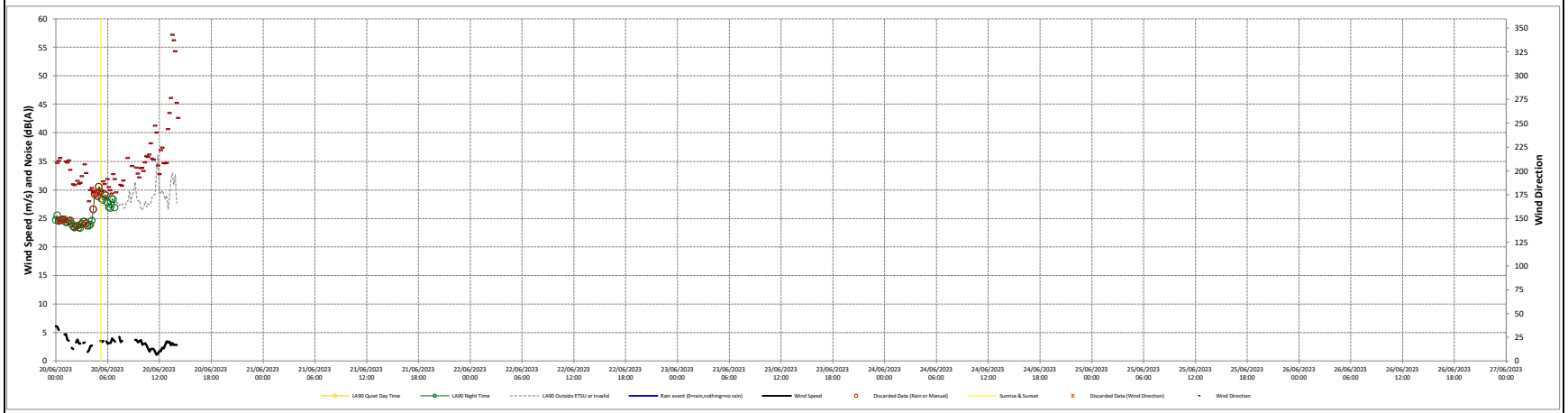

Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
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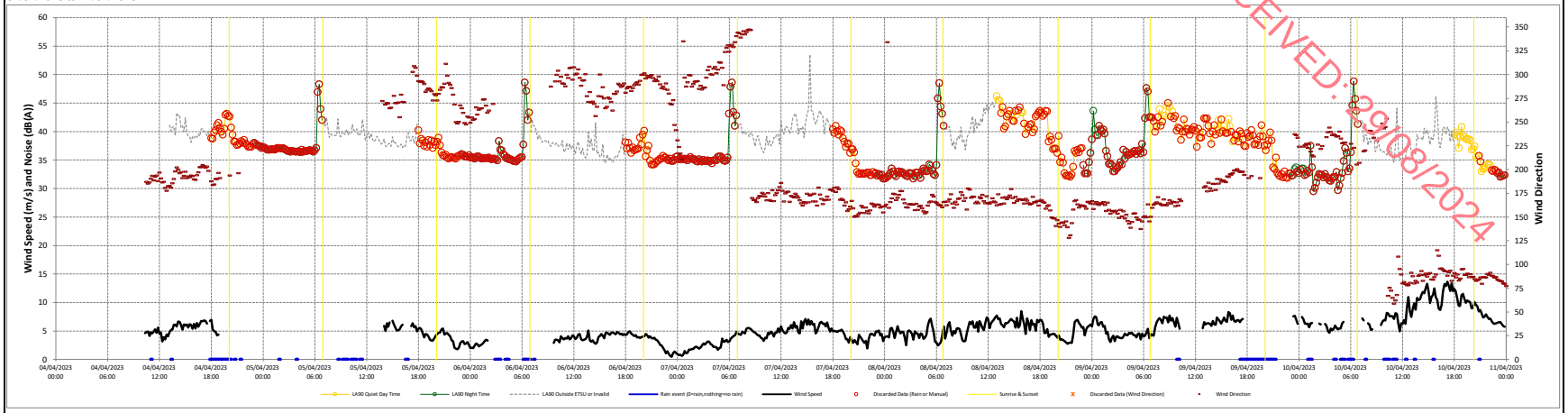
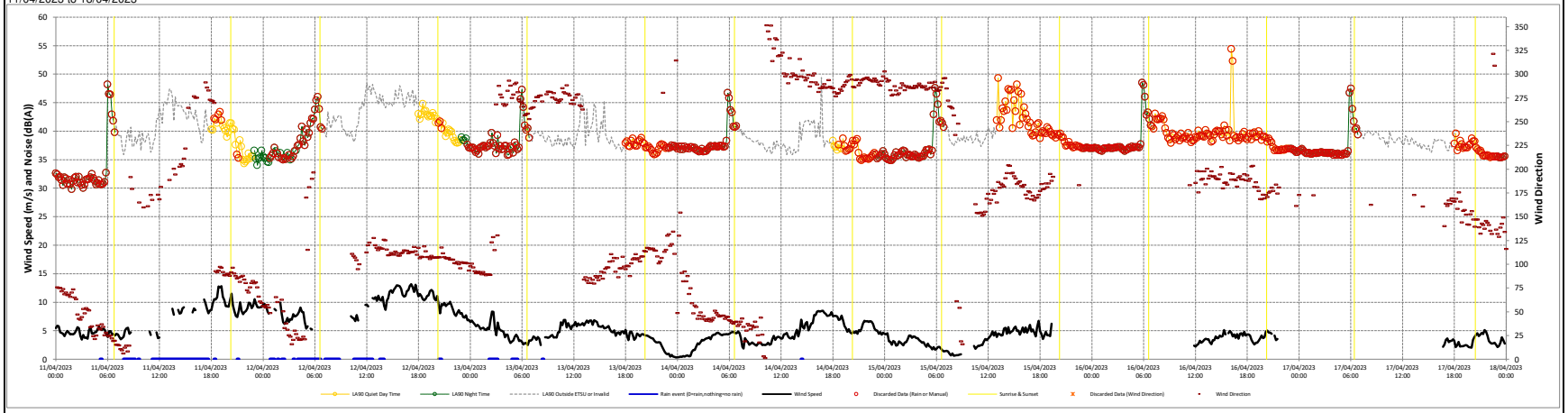
04/04/2023 to 11/04/2023



11/04/2023 to 18/04/2023



Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML6 Page 1 of 6
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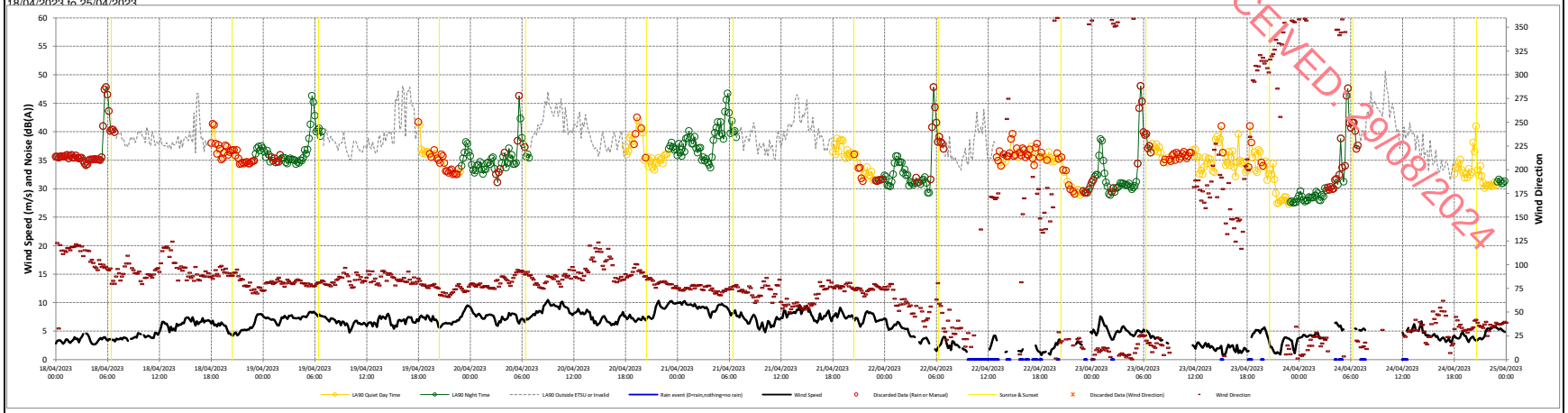
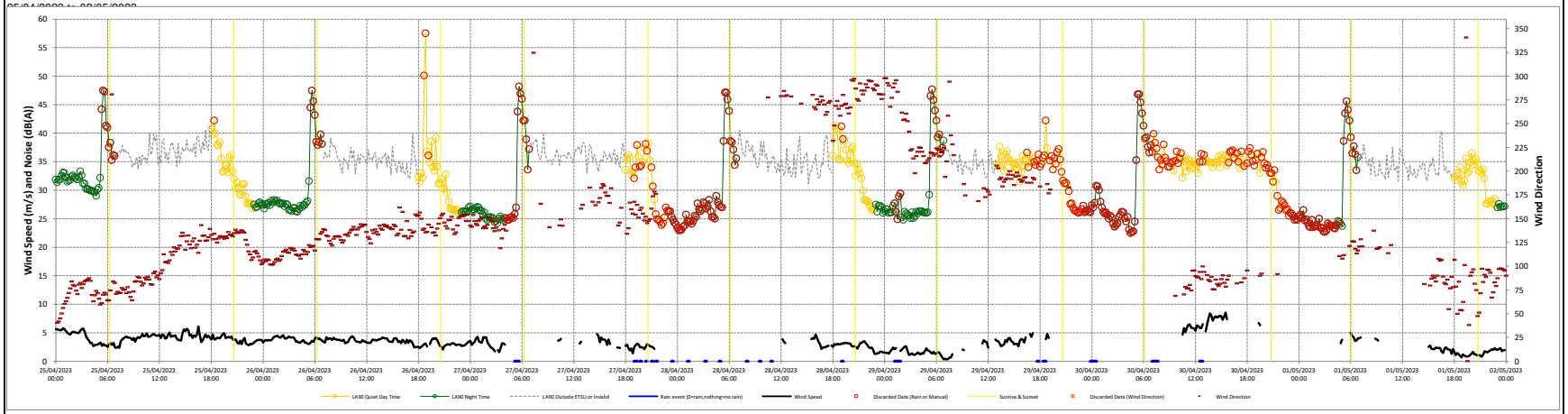
18/04/2023 to 25/04/2023





Project	Lackareagh Wind Farm, Co. Clare
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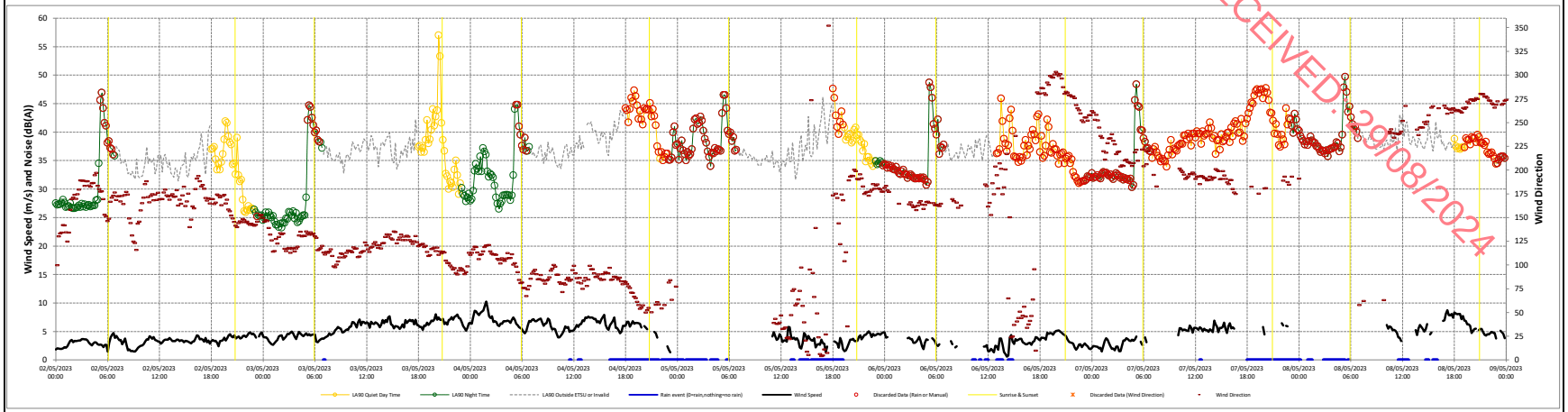

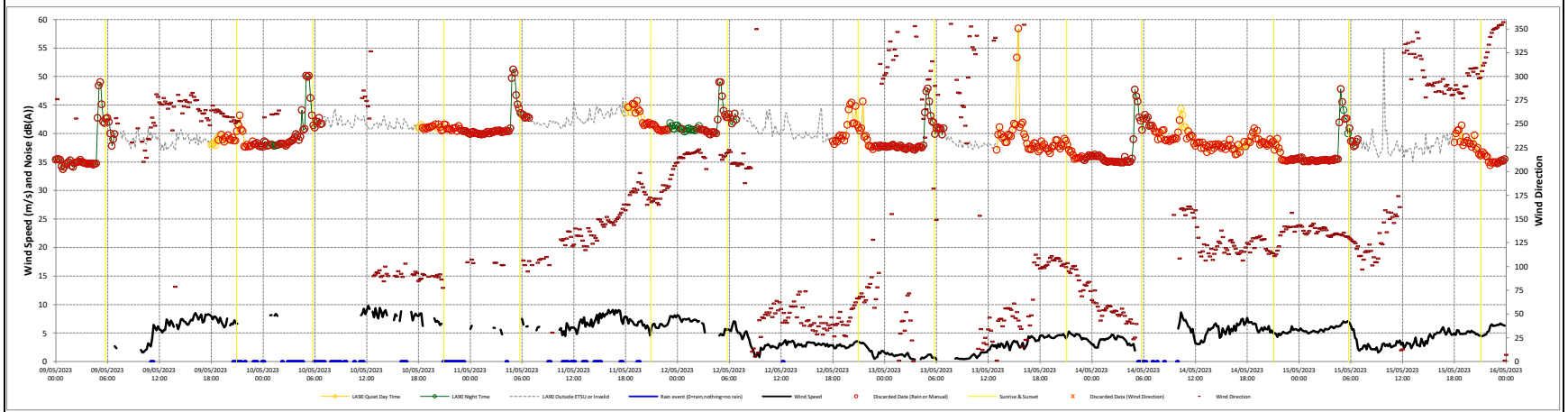

Project	Lackareagh Wind Farm, Co. Clare
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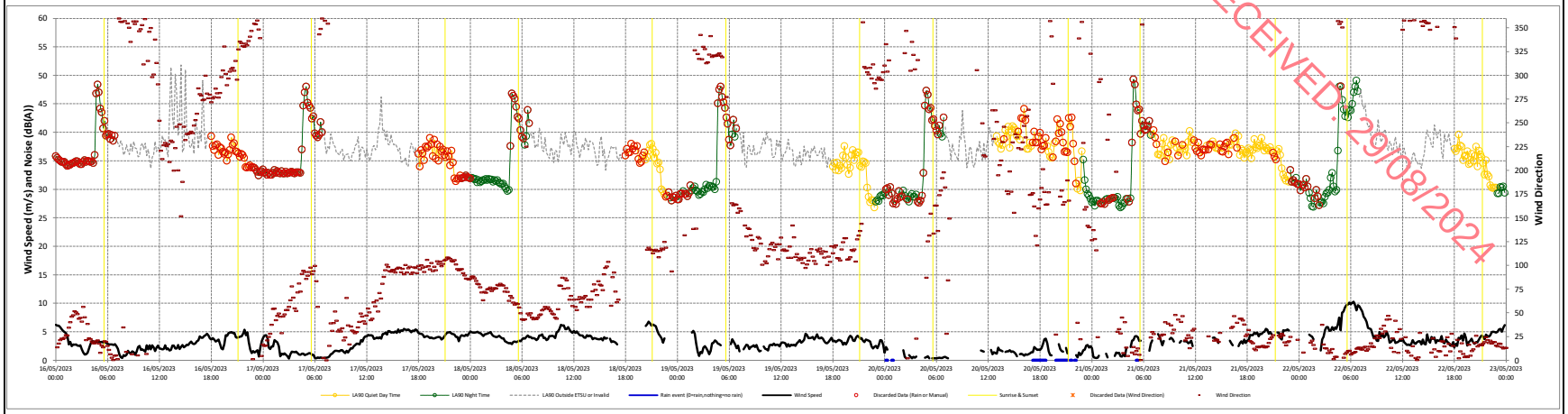

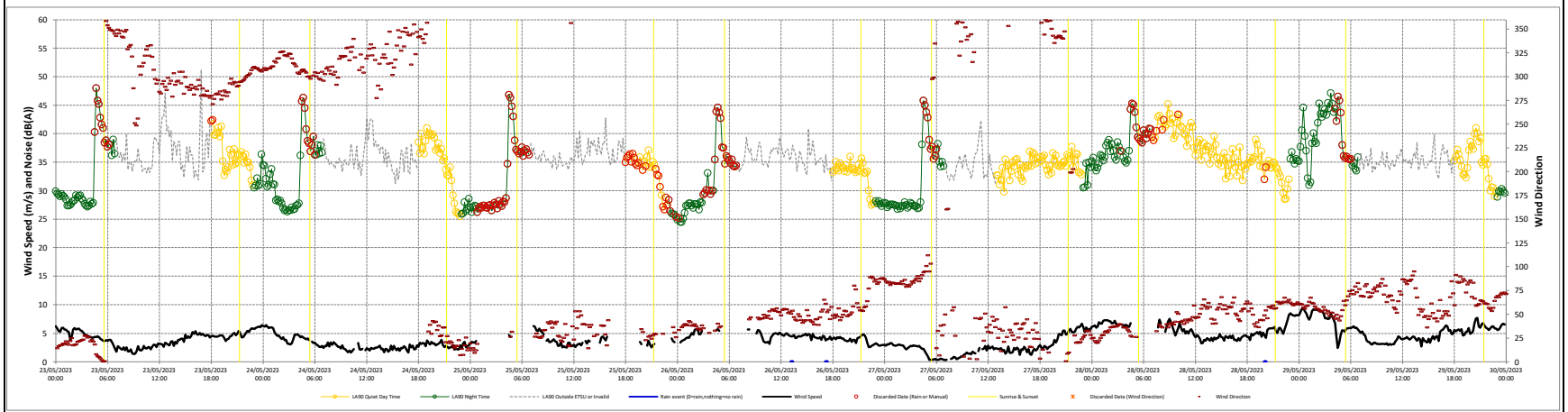

Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
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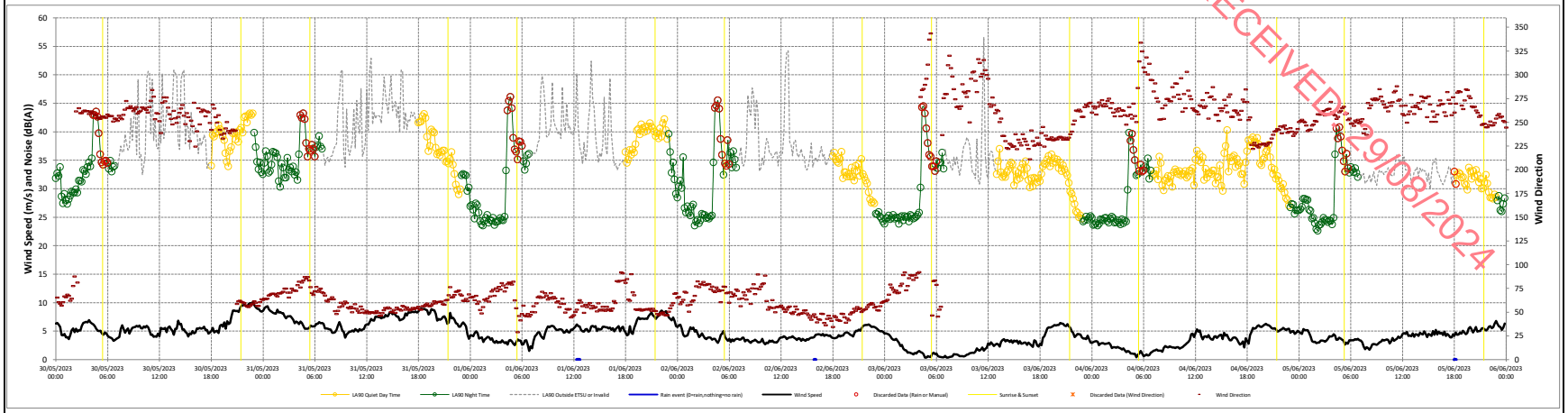

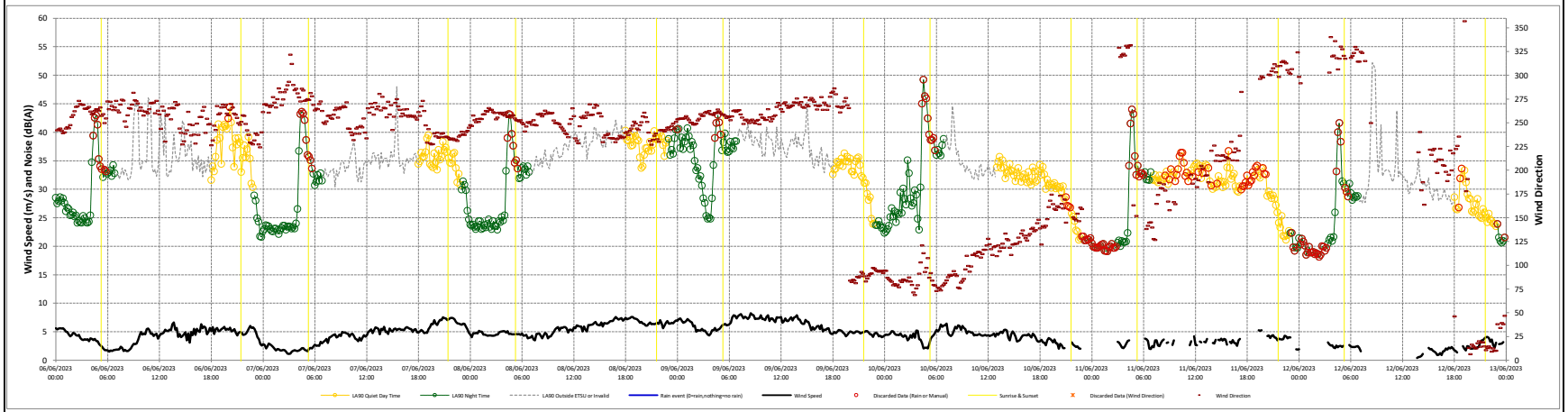

Project	Lackareagh Wind Farm, Co. Clare
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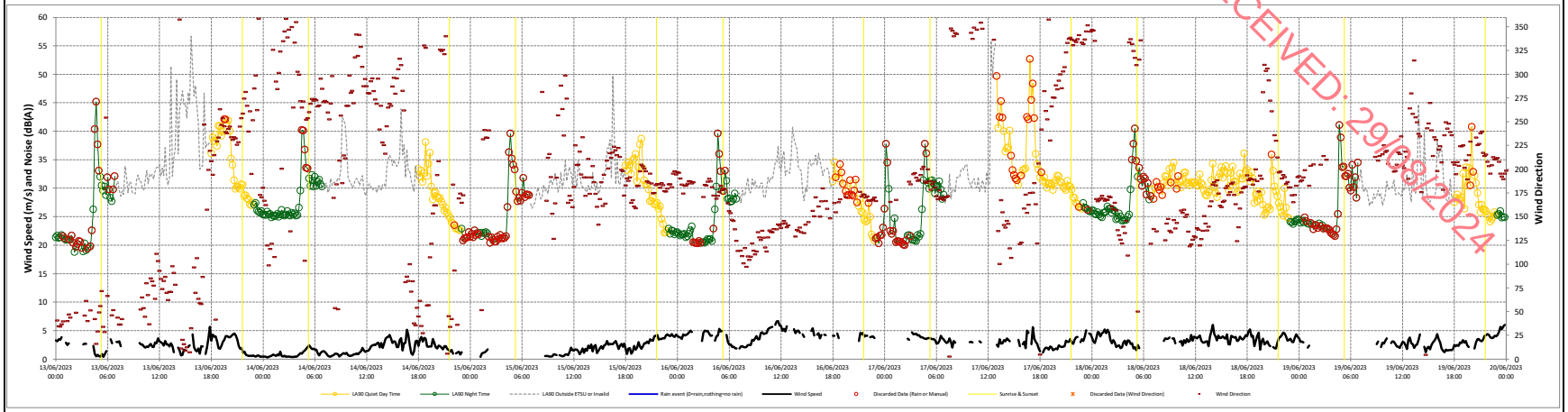

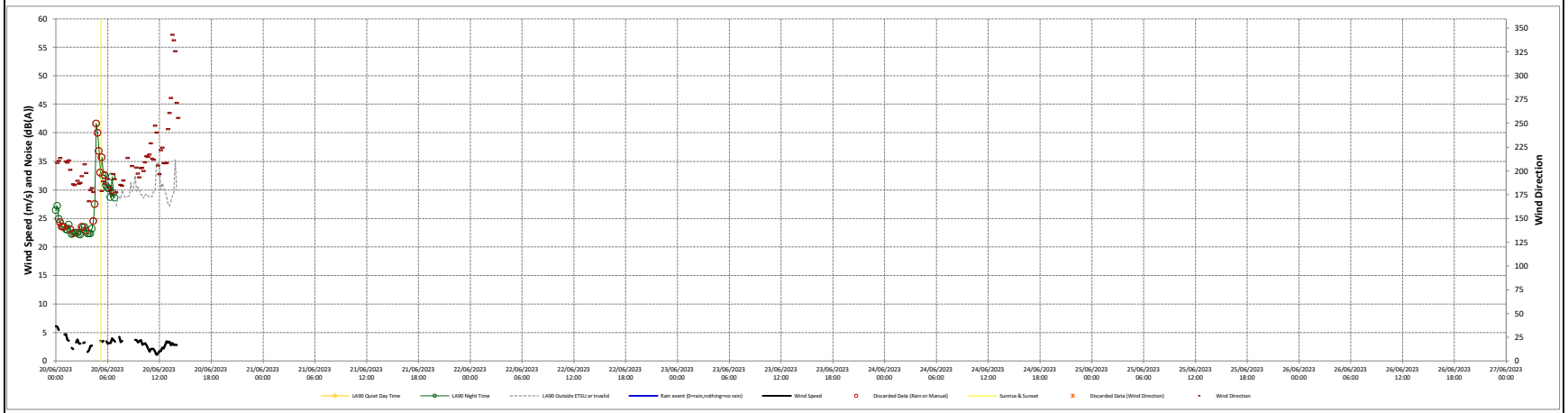

Project	Lackareagh Wind Farm, Co. Clare
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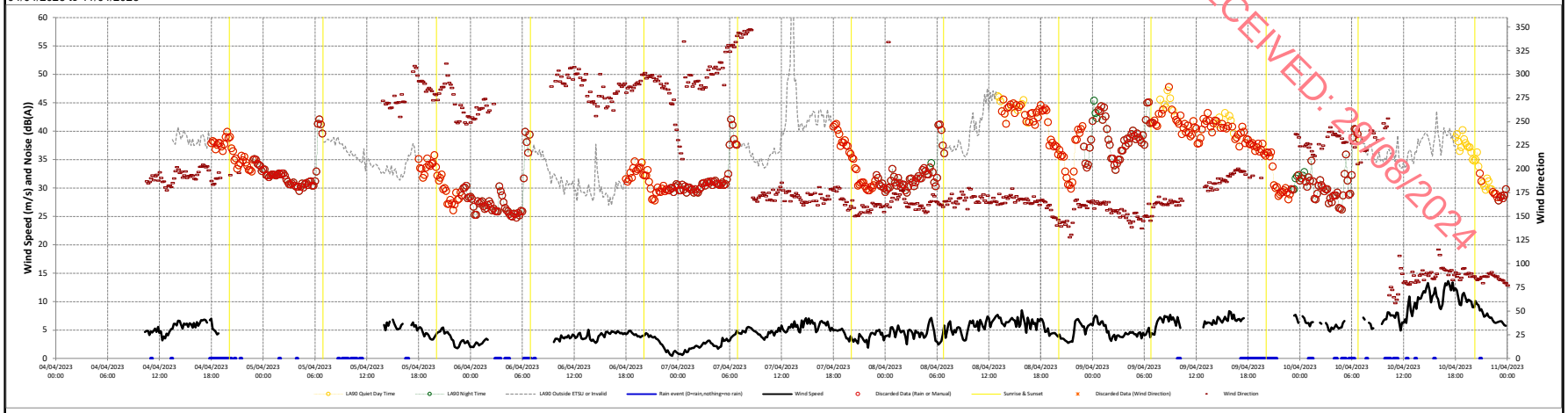
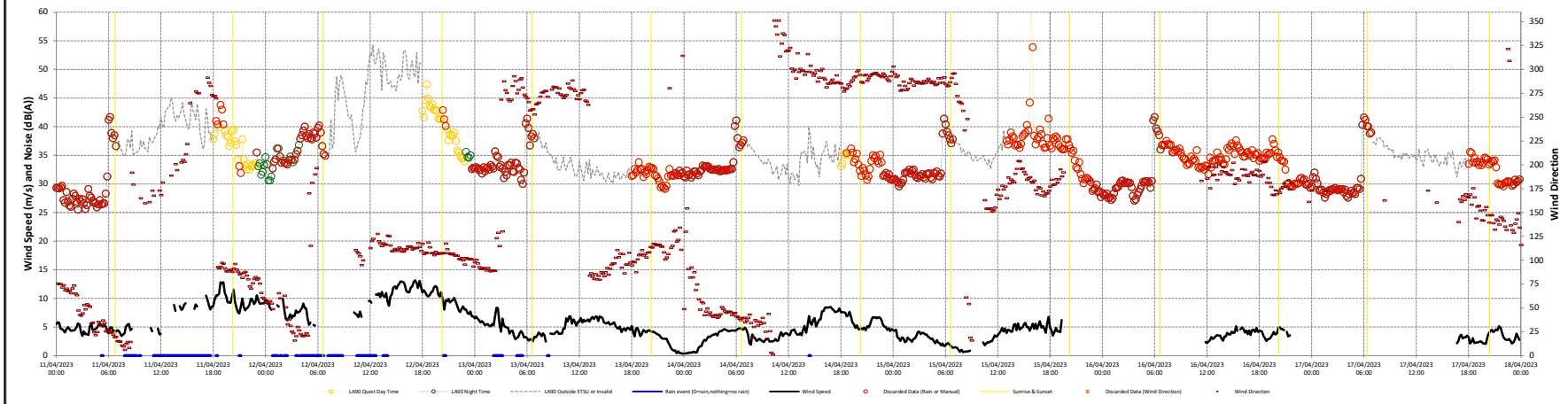
04/04/2023 to 11/04/2023



11/04/2023 to 18/04/2023



Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
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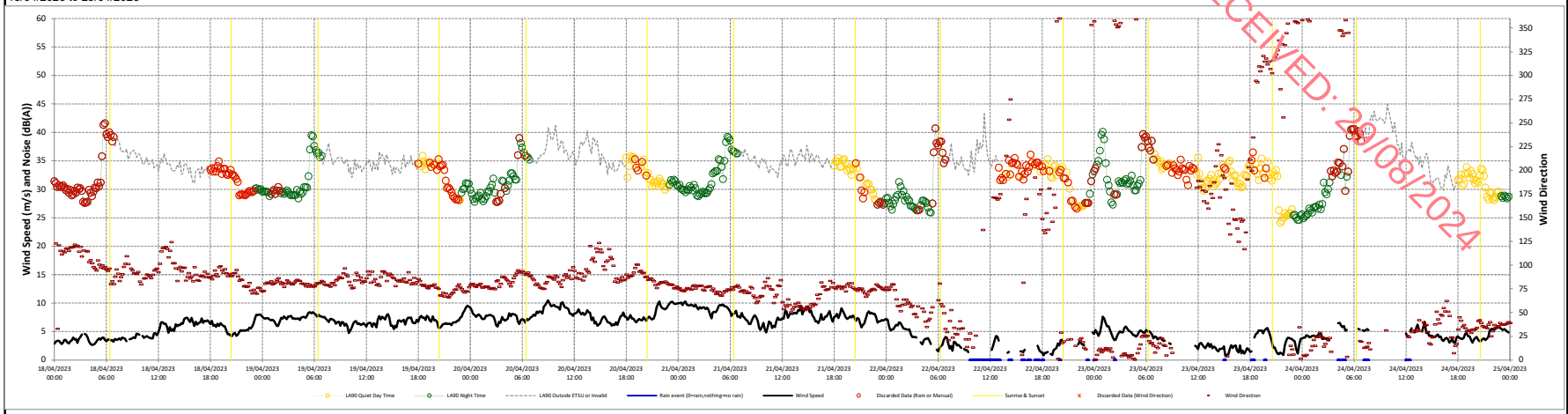
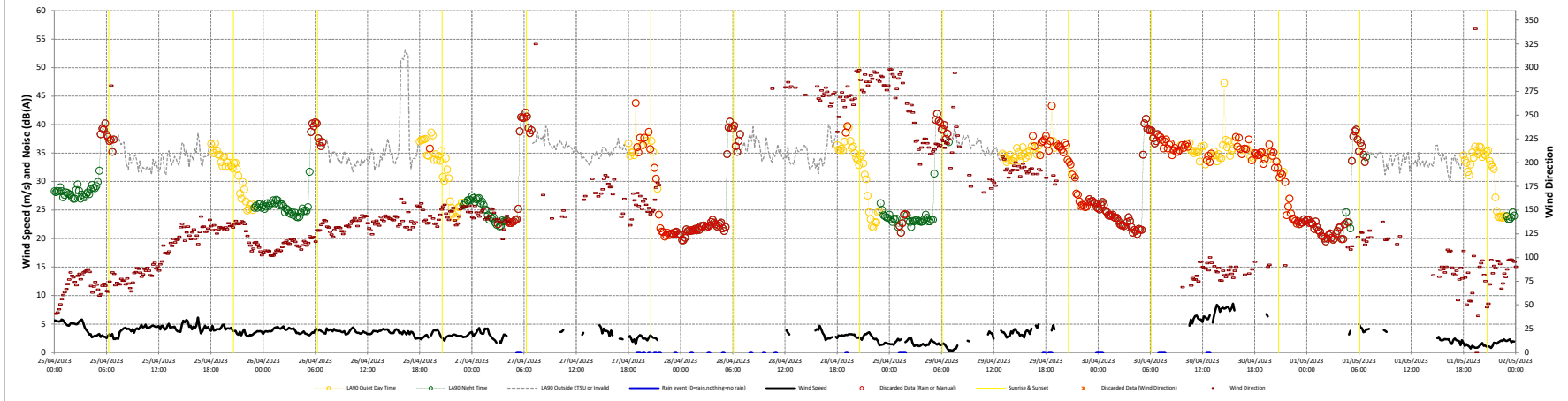
tnei

18/04/2023 to 25/04/2023



25/04/2023 to 02/05/2023



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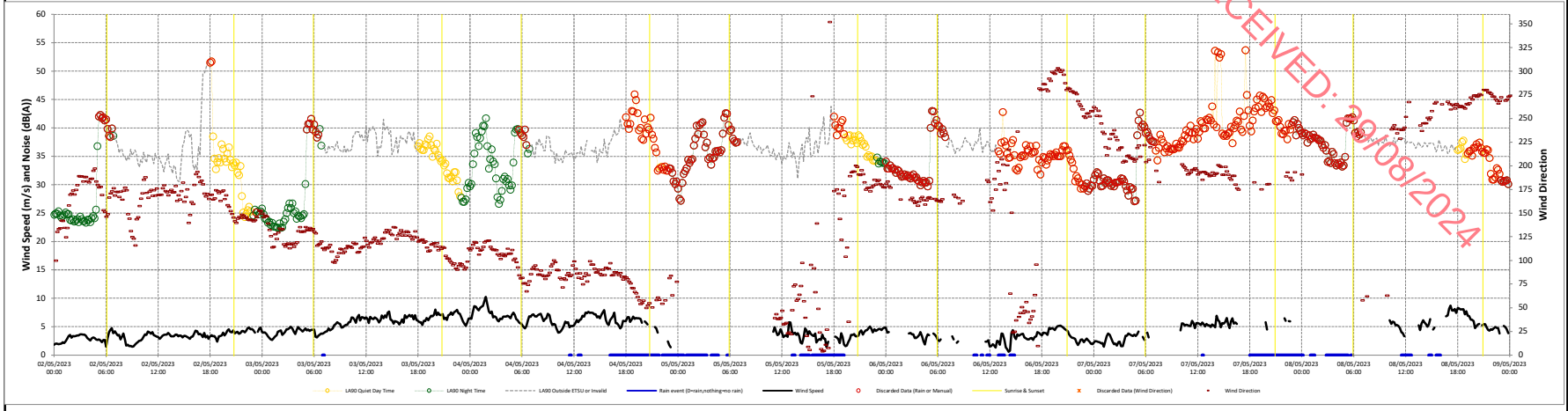
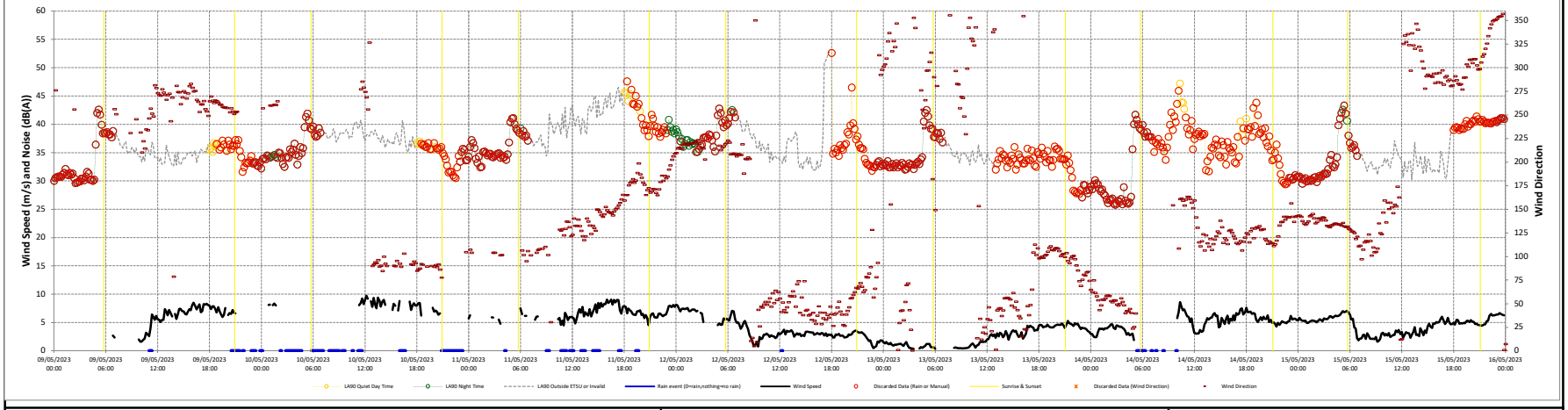
02/05/2023 to 09/05/2023



09/05/2023 to 16/05/2023



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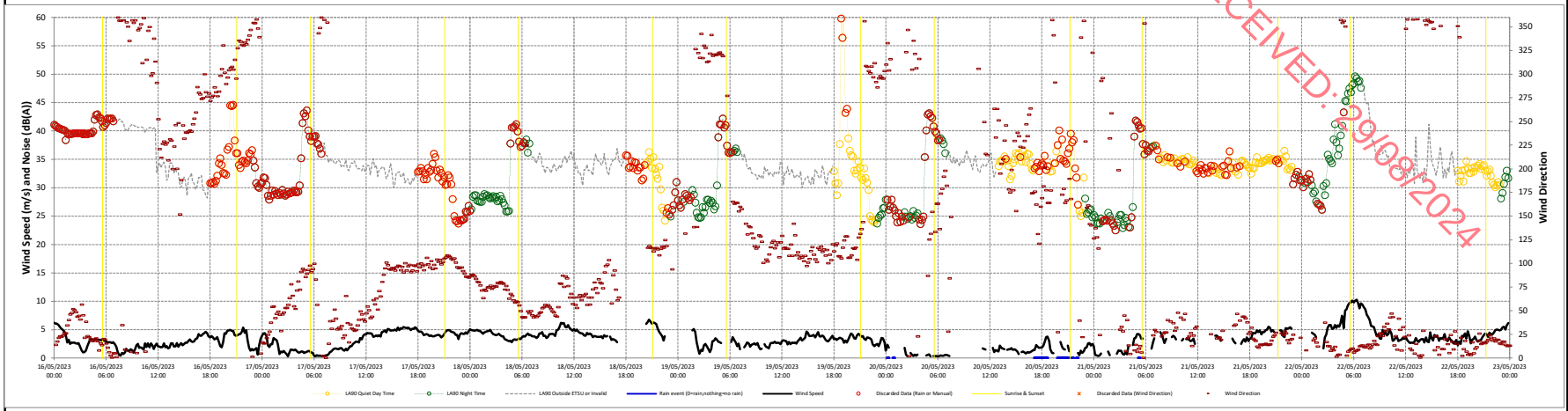
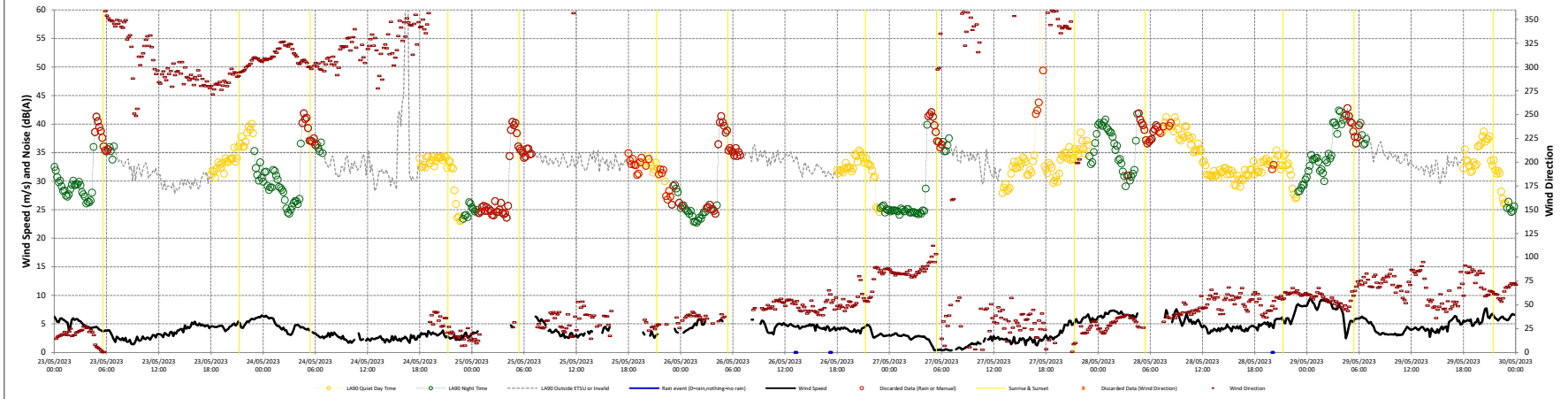
16/05/2023 to 23/05/2023



23/05/2023 to 30/05/2023



Project	Lackareagh Wind Farm, Co. Clare
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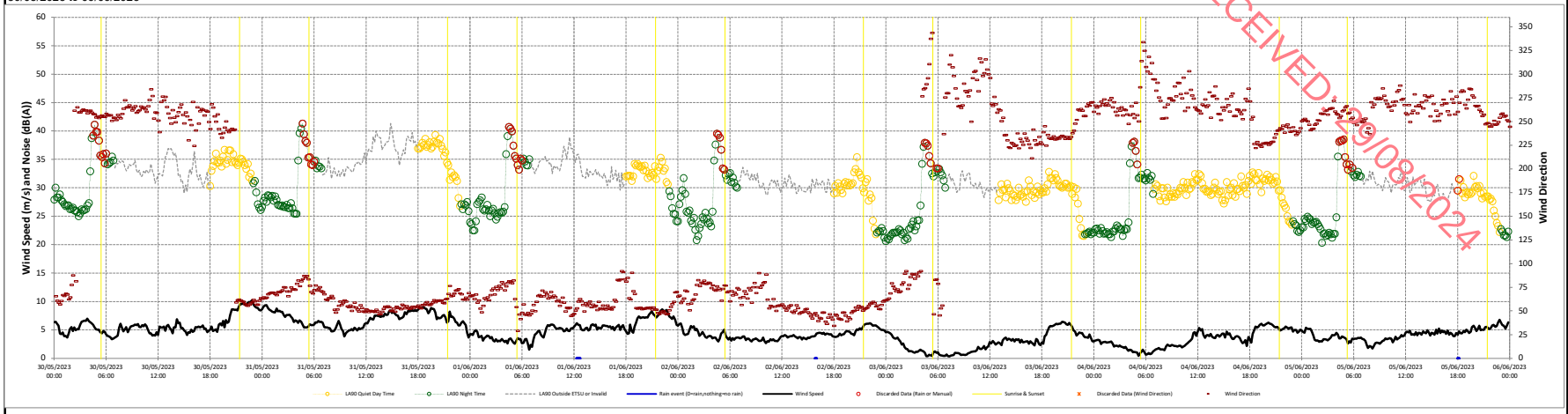
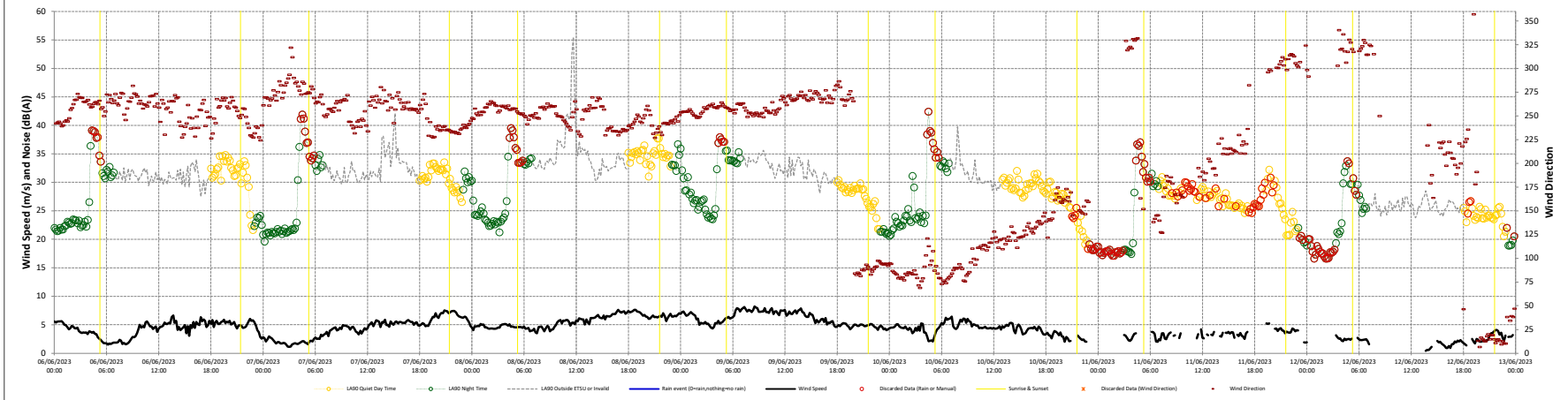
30/05/2023 to 06/06/2023



06/06/2023 to 13/06/2023



Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
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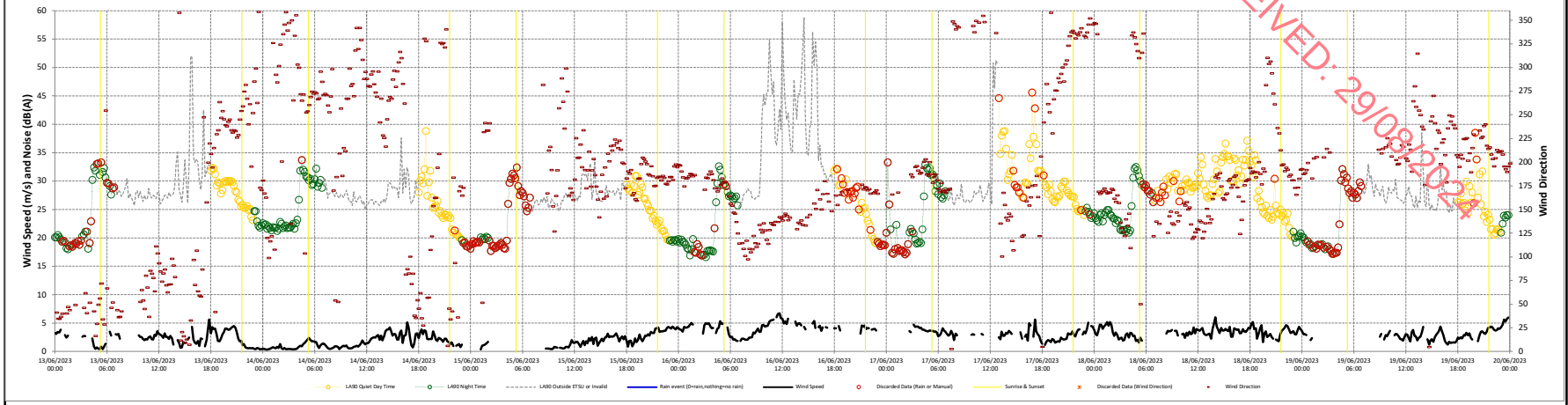
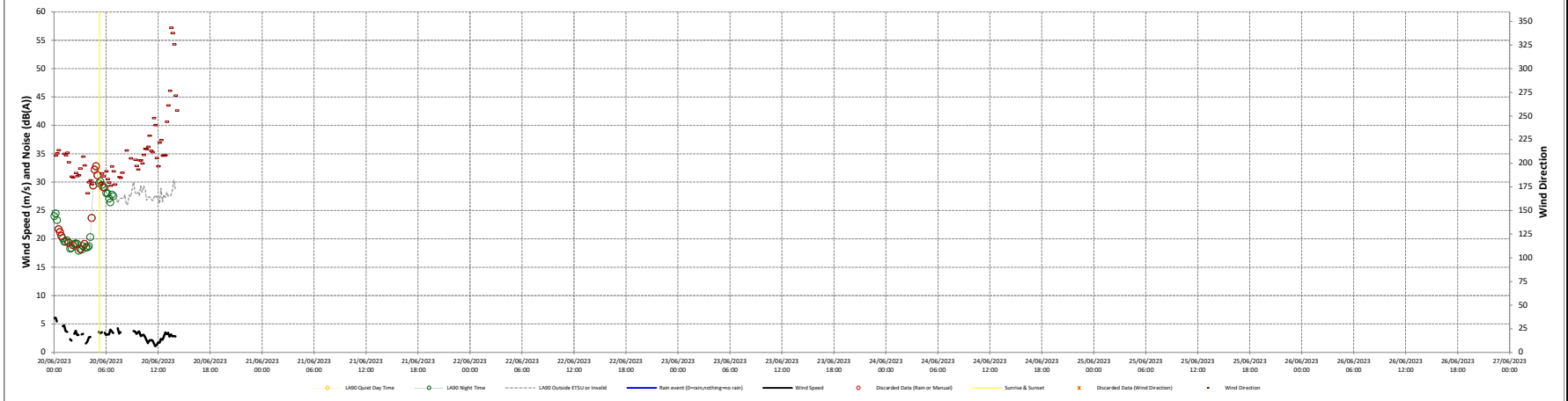
13/06/2023 to 20/06/2023



20/06/2023 to 27/06/2023



Project	Lackareagh Wind Farm, Co. Clare
Client	EDF Renewables
Title	Time Serie for NML7 Page 6 of 6
Date	17/05/2024

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Annex 5 – NSR Coordinates and Prediction Modelling Results

Table A5.1: Noise Sensitive Receptors

Noise Sensitive Receptor (NSR)	Easting (m)	Northing (m)	Elevation (m AOD)	Background Noise Data Used	Is this NSR also an NAL?
NSR01	561661	673439	128	NML1	No, Derelict
NSR02	564701	673085	185	NML6	Yes, NAL2
NSR03	562657	672616	139	NML2	No
NSR04	562790	672824	161	NML2	Yes, NAL15
NSR05	562676	671693	88	NML3	No
NSR06	562680	672705	143	NML2	No
NSR07	564757	672486	168	NML5	Yes, NAL3
NSR08	562222	672808	106	NML2	Yes, NAL16
NSR09	564794	673117	172	NML6	No
NSR10	564716	673715	207	NML7	Yes, NAL1
NSR11	562590	671808	84	NML3	No
NSR12	564761	672966	177	NML6	No
NSR13	561633	673083	95	NML1	Yes, NAL17
NSR14	562647	672798	146	NML2	No
NSR15	562010	672778	90	NML2	No
NSR16	562529	671794	80	NML3	Yes, NAL13
NSR17	561998	672751	88	NML2	No
NSR18	561803	672813	80	NML2	No
NSR19	561838	672785	81	NML2	No
NSR20	562089	672686	92	NML2	No
NSR21	561579	672964	85	NML1	No
NSR22	562059	672671	91	NML2	No
NSR23	561980	672693	87	NML2	No
NSR24	561947	672696	85	NML2	No
NSR25	561853	672723	81	NML2	No
NSR26	561968	672666	86	NML2	No
NSR27	561942	672666	85	NML2	No
NSR28	562416	671818	74	NML3	No
NSR29	562038	672619	89	NML2	No
NSR30	562002	672616	87	NML2	No
NSR31	561489	672953	88	NML1	No
NSR32	562066	672595	90	NML2	No
NSR33	562004	672602	87	NML2	No
NSR34	562272	672216	80	NML3	Yes, NAL14
NSR35	562075	672553	88	NML2	No
NSR36	561435	672956	87	NML1	No
NSR37	561954	672579	84	NML2	No
NSR38	562291	672007	74	NML3	No
NSR39	562385	671518	68	NML3	Yes, NAL12
NSR40	561933	672538	84	NML2	No
NSR41	561389	672923	82	NML1	No
NSR42	562360	671406	67	NML3	No
NSR43	561896	672506	81	NML2	No
NSR44	565161	673542	178	NML7	No
NSR45	561867	672492	79	NML2	No
NSR46	561052	673780	145	NML1	Yes, NAL18
NSR47	565115	673731	183	NML7	No
NSR48	562221	671777	64	NML3	No
NSR49	562345	671342	65	NML3	No

Table A5.1: Noise Sensitive Receptors

Noise Sensitive Receptor (NSR)	Easting (m)	Northing (m)	Elevation (m AOD)	Background Noise Data Used	Is this NSR also an NAL?
NSR50	561842	672467	76	NML2	No
NSR51	561010	673785	146	NML1	No
NSR52	561806	672456	74	NML2	No
NSR53	561626	672516	63	NML2	No
NSR54	561644	672378	60	NML2	No
NSR55	562400	670949	63	NML3	Yes, NAL11
NSR56	565364	672522	131	NML5	No
NSR57	561531	672385	54	NML2	No
NSR58	560905	673232	89	NML1	No
NSR59	561587	672347	55	NML2	No
NSR60	561441	672436	53	NML2	No
NSR61	565472	673141	193	NML6	No
NSR62	565485	672351	124	NML5	No
NSR63	565515	672347	124	NML5	No
NSR64	560877	672991	69	NML1	No
NSR65	565466	671964	142	NML4	Yes, NAL4
NSR66	565549	673074	197	NML6	No
NSR67	565560	672326	126	NML5	No
NSR68	560794	673038	69	NML1	No
NSR69	560656	673588	132	NML1	No
NSR70	565513	671844	150	NML4	No
NSR71	560762	673013	64	NML1	No
NSR72	562292	670677	54	NML3	No
NSR73	565643	672341	134	NML5	No
NSR74	560724	672996	64	NML1	No
NSR75	562397	670509	54	NML3	Yes, NAL10
NSR76	562285	670594	55	NML3	No
NSR77	560484	674120	194	NML1	No
NSR78	560471	674182	203	NML1	Yes, NAL19
NSR79	561810	671127	54	NML3	No
NSR80	565714	672811	184	NML6	No
NSR81	562316	670473	56	NML3	No
NSR82	561860	670924	54	NML3	No
NSR83	562313	670419	57	NML3	No
NSR84	565817	672355	141	NML5	No
NSR85	562110	670555	61	NML3	No
NSR86	562272	670414	58	NML3	No
NSR87	565484	671230	149	NML4	Yes, NAL5
NSR88	562199	670304	60	NML3	No
NSR89	561527	671204	77	NML3	No
NSR90	560306	673295	89	NML1	No
NSR91	565995	672317	157	NML5	No
NSR92	562187	670277	61	NML3	No
NSR93	560370	672954	61	NML1	No
NSR94	566011	672201	146	NML5	No
NSR95	560305	673039	70	NML1	No
NSR96	561659	670701	94	NML3	No
NSR97	560835	672028	51	NML3	No
NSR98	561295	671537	68	NML3	No

Table A5.1: Noise Sensitive Receptors

Noise Sensitive Receptor (NSR)	Easting (m)	Northing (m)	Elevation (m AOD)	Background Noise Data Used	Is this NSR also an NAL?
NSR99	566125	672239	156	NML5	No
NSR100	565241	670627	134	NML4	Yes, NAL6
NSR101	561025	671794	55	NML3	No
NSR102	566216	672164	145	NML5	No
NSR103	561864	670256	85	NML3	No
NSR104	561160	671571	72	NML3	No
NSR105	562916	669671	97	NML3	Yes, NAL9
NSR106	566252	672219	156	NML5	No
NSR107	566271	672276	168	NML5	No
NSR108	566327	672213	153	NML5	No, Derelict
NSR109	559925	673283	102	NML1	No
NSR110	562081	669846	65	NML3	No
NSR111	561874	669960	83	NML3	No
NSR112	563014	669430	98	NML3	No
NSR113	560947	671461	108	NML3	No
NSR114	565577	670435	99	NML4	No
NSR115	562065	669758	68	NML3	No
NSR116	566511	672054	136	NML5	No
NSR117	559688	673607	129	NML1	No
NSR118	559797	673004	65	NML1	No
NSR119	559657	673640	133	NML1	No
NSR120	561856	669813	83	NML3	No
NSR121	559749	673009	67	NML1	No
NSR122	561914	669731	81	NML3	No
NSR123	565833	670493	101	NML4	No
NSR124	565533	670225	90	NML4	No
NSR125	563141	669238	95	NML3	No
NSR126	564758	669592	96	NML4	Yes, NAL7
NSR127	564899	669681	95	NML4	No
NSR128	566629	671963	142	NML5	No
NSR129	565519	670158	86	NML4	No
NSR130	563209	669187	94	NML3	No
NSR131	566028	670519	111	NML4	No
NSR132	564827	669502	87	NML4	No
NSR133	563170	669116	94	NML3	Yes, NAL8
NSR134	559555	673025	74	NML1	No
NSR135	565020	669608	84	NML4	No
NSR136	565456	669970	87	NML4	No
NSR137	559405	674249	233	NML1	No
NSR138	564914	669501	81	NML4	No
NSR139	566086	670481	109	NML4	No
NSR140	564552	669302	87	NML4	No
NSR141	564642	669335	85	NML4	No
NSR142	563343	669044	94	NML3	No
NSR143	564711	669345	81	NML4	No
NSR144	566826	671987	162	NML5	No
NSR145	563595	669001	97	NML3	No
NSR146	564726	669301	78	NML4	No
NSR147	566871	671989	164	NML5	No

Table A5.1: Noise Sensitive Receptors

Noise Sensitive Receptor (NSR)	Easting (m)	Northing (m)	Elevation (m AOD)	Background Noise Data Used	Is this NSR also an NAL?
NSR148	561961	669350	85	NML3	No
NSR149	564703	669272	78	NML4	No
NSR150	559670	672291	44	NML3	No
NSR151	566883	671979	164	NML5	No
NSR152	561828	669418	93	NML3	No
NSR153	566882	671887	150	NML5	No
NSR154	559994	671744	167	NML3	No
NSR155	566141	670341	104	NML4	No
NSR156	559413	672841	60	NML1	No
NSR157	566945	671972	159	NML5	No
NSR158	565203	669501	72	NML4	No
NSR159	566938	671893	149	NML5	No
NSR160	564692	669181	74	NML4	No

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR1	Total WEDG Noise Limit L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Predicted Wind Turbine Noise L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Exceedance Level	-	-	-	-	-	-	-	-	-	-
NSR2	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.9	46.1
	Predicted Wind Turbine Noise L_{A90} dB	27.8	29.1	33.7	38.0	39.4	39.4	39.4	39.4	39.4	39.4
	Exceedance Level	-17.2	-15.9	-11.3	-7.0	-5.6	-5.6	-5.6	-5.9	-6.5	-6.7
NSR3	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	29.4	30.6	35.3	39.6	40.9	40.9	40.9	40.9	40.9	40.9
	Exceedance Level	-15.6	-14.4	-9.7	-5.4	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1
NSR4	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	28.8	30.1	34.7	39.0	40.4	40.4	40.4	40.4	40.4	40.4
	Exceedance Level	-16.2	-14.9	-10.3	-6.0	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
NSR5	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	27.7	29.0	33.6	37.9	39.3	39.3	39.3	39.3	39.3	39.3
	Exceedance Level	-17.3	-16.0	-11.4	-7.1	-5.7	-5.7	-5.7	-5.7	-6.4	-7.4
NSR6	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	28.7	30.0	34.6	38.9	40.3	40.3	40.3	40.3	40.3	40.3
	Exceedance Level	-16.3	-15.0	-10.4	-6.1	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7
NSR7	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	28.0	29.3	33.9	38.2	39.6	39.6	39.6	39.6	39.6	39.6
	Exceedance Level	-17.0	-15.7	-11.1	-6.8	-5.4	-5.4	-5.4	-5.4	-6.0	-8.7
NSR8	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	27.5	28.8	33.4	37.8	39.1	39.1	39.1	39.1	39.1	39.1
	Exceedance Level	-17.5	-16.2	-11.6	-7.2	-5.9	-5.9	-5.9	-5.9	-5.9	-5.9
NSR9	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.9	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.7	28.0	32.6	36.9	38.3	38.3	38.3	38.3	38.3	38.3
	Exceedance Level	-18.3	-17.0	-12.4	-8.1	-6.7	-6.7	-6.7	-7.0	-7.6	-7.8
NSR10	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.3	26.6	31.2	35.5	36.9	36.9	36.9	36.9	36.9	36.9
	Exceedance Level	-19.7	-18.4	-13.8	-9.5	-8.1	-8.1	-8.1	-8.1	-8.1	-8.1
NSR11	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	27.5	28.8	33.4	37.7	39.1	39.1	39.1	39.1	39.1	39.1
	Exceedance Level	-17.5	-16.2	-11.6	-7.3	-5.9	-5.9	-5.9	-5.9	-6.6	-7.6
NSR12	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.9	46.1
	Predicted Wind Turbine Noise L_{A90} dB	27.4	28.7	33.3	37.6	38.9	38.9	38.9	38.9	38.9	38.9
	Exceedance Level	-17.6	-16.3	-11.7	-7.4	-6.1	-6.1	-6.1	-6.4	-7.0	-7.2
NSR13	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	26.3	27.6	32.2	36.6	37.9	37.9	37.9	37.9	37.9	37.9
	Exceedance Level	-18.7	-17.4	-12.8	-8.4	-7.1	-7.1	-7.3	-9.1	-11.0	-12.9
NSR14	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	28.5	29.8	34.4	38.8	40.1	40.1	40.1	40.1	40.1	40.1
	Exceedance Level	-16.5	-15.2	-10.6	-6.2	-4.9	-4.9	-4.9	-4.9	-4.9	-4.9
NSR15	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	26.5	27.8	32.4	36.7	38.1	38.1	38.1	38.1	38.1	38.1
	Exceedance Level	-18.5	-17.2	-12.6	-8.3	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9
NSR16	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	26.9	28.2	32.8	37.2	38.5	38.5	38.5	38.5	38.5	38.5
	Exceedance Level	-18.1	-16.8	-12.2	-7.8	-6.5	-6.5	-6.5	-6.5	-7.2	-8.2
NSR17	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	26.3	27.6	32.2	36.5	37.9	37.9	37.9	37.9	37.9	37.9
	Exceedance Level	-18.7	-17.4	-12.8	-8.5	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1
NSR18	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.6	26.9	31.5	35.8	37.2	37.2	37.2	37.2	37.2	37.2
	Exceedance Level	-19.4	-18.1	-13.5	-9.2	-7.8	-7.8	-7.8	-7.8	-7.8	-7.8
NSR19	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	35.9	37.2	37.2	37.2	37.2	37.2	37.2
	Exceedance Level	-19.3	-18.0	-13.4	-9.1	-7.8	-7.8	-7.8	-7.8	-7.8	-7.8
NSR20	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	26.4	27.7	32.3	36.6	38.0	38.0	38.0	38.0	38.0	38.0
	Exceedance Level	-18.6	-17.3	-12.7	-8.4	-7.0	-7.0	-7.0	-7.0	-7.0	-7.0
NSR21	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	25.5	26.8	31.4	35.7	37.1	37.1	37.1	37.1	37.1	37.1
	Exceedance Level	-19.5	-18.2	-13.6	-9.3	-7.9	-7.9	-8.1	-9.9	-11.8	-13.7
NSR22	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	26.2	27.5	32.1	36.4	37.8	37.8	37.8	37.8	37.8	37.8
	Exceedance Level	-18.8	-17.5	-12.9	-8.6	-7.2	-7.2	-7.2	-7.2	-7.2	-7.2
NSR23	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.9	27.2	31.8	36.2	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-19.1	-17.8	-13.2	-8.8	-7.5	-7.5	-7.5	-7.5	-7.5	-7.5
NSR24	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.8	27.1	31.7	36.0	37.4	37.4	37.4	37.4	37.4	37.4
	Exceedance Level	-19.2	-17.9	-13.3	-9.0	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6
	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR25	Predicted Wind Turbine Noise L_{A90} dB	25.4	26.7	31.4	35.7	37.0	37.0	37.0	37.0	37.0	37.0
	Exceedance Level	-19.6	-18.3	-13.6	-9.3	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0
NSR26	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.8	27.1	31.7	36.0	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-19.2	-17.9	-13.3	-9.0	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7
NSR27	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.6	26.9	31.5	35.9	37.2	37.2	37.2	37.2	37.2	37.2
	Exceedance Level	-19.4	-18.1	-13.5	-9.1	-7.8	-7.8	-7.8	-7.8	-7.8	-7.8
NSR28	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	26.2	27.5	32.1	36.4	37.7	37.7	37.7	37.7	37.7	37.7
	Exceedance Level	-18.8	-17.5	-12.9	-8.6	-7.3	-7.3	-7.3	-7.3	-8.0	-9.0
NSR29	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.9	27.2	31.8	36.1	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-19.1	-17.8	-13.2	-8.9	-7.5	-7.5	-7.5	-7.5	-7.5	-7.5
NSR30	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	36.0	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-19.3	-18.0	-13.4	-9.0	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7
NSR31	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	24.9	26.2	30.8	35.1	36.5	36.5	36.5	36.5	36.5	36.5
	Exceedance Level	-20.1	-18.8	-14.2	-9.9	-8.5	-8.5	-8.7	-10.5	-12.4	-14.3
NSR32	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	26.0	27.3	31.9	36.2	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-19.0	-17.7	-13.1	-8.8	-7.5	-7.5	-7.5	-7.5	-7.5	-7.5
NSR33	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	35.9	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-19.3	-18.0	-13.4	-9.1	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7
NSR34	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	27.6	28.9	33.5	37.8	39.2	39.2	39.2	39.2	39.2	39.2
	Exceedance Level	-17.4	-16.1	-11.5	-7.2	-5.8	-5.8	-5.8	-5.8	-6.5	-7.5
NSR35	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.9	27.2	31.8	36.1	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-19.1	-17.8	-13.2	-8.9	-7.5	-7.5	-7.5	-7.5	-7.5	-7.5
NSR36	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	24.6	25.9	30.5	34.8	36.1	36.1	36.1	36.1	36.1	36.1
	Exceedance Level	-20.4	-19.1	-14.5	-10.2	-8.9	-8.9	-9.1	-10.9	-12.8	-14.7
NSR37	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	26.0	27.3	31.9	36.2	37.6	37.6	37.6	37.6	37.6	37.6
	Exceedance Level	-19.0	-17.7	-13.1	-8.8	-7.4	-7.4	-7.4	-7.4	-7.4	-7.4
NSR38	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	27.5	28.8	33.4	37.7	39.0	39.0	39.0	39.0	39.0	39.0
	Exceedance Level	-17.5	-16.2	-11.6	-7.3	-6.0	-6.0	-6.0	-6.0	-6.7	-7.7
NSR39	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	24.9	26.2	30.8	35.1	36.5	36.5	36.5	36.5	36.5	36.5
	Exceedance Level	-20.1	-18.8	-14.2	-9.9	-8.5	-8.5	-8.5	-8.5	-9.2	-10.2
NSR40	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.8	27.1	31.7	36.0	37.4	37.4	37.4	37.4	37.4	37.4
	Exceedance Level	-19.2	-17.9	-13.3	-9.0	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6
NSR41	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	24.2	25.5	30.1	34.4	35.7	35.7	35.7	35.7	35.7	35.7
	Exceedance Level	-20.8	-19.5	-14.9	-10.6	-9.3	-9.3	-9.5	-11.3	-13.2	-15.1
NSR42	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	25.2	26.5	31.1	35.4	36.8	36.8	36.8	36.8	36.8	36.8
	Exceedance Level	-19.8	-18.5	-13.9	-9.6	-8.2	-8.2	-8.2	-8.2	-8.9	-9.9
NSR43	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	35.9	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-19.3	-18.0	-13.4	-9.1	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7
NSR44	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	24.9	26.2	30.8	35.2	36.5	36.5	36.5	36.5	36.5	36.5
	Exceedance Level	-20.1	-18.8	-14.2	-9.8	-8.5	-8.5	-8.5	-8.5	-8.5	-8.5
NSR45	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.5	26.8	31.4	35.8	37.1	37.1	37.1	37.1	37.1	37.1
	Exceedance Level	-19.5	-18.2	-13.6	-9.2	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9
NSR46	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	23.4	24.7	29.3	33.6	34.9	34.9	34.9	34.9	34.9	34.9
	Exceedance Level	-21.6	-20.3	-15.7	-11.4	-10.1	-10.1	-10.3	-12.1	-14.0	-15.9
NSR47	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	24.5	25.8	30.4	34.7	36.1	36.1	36.1	36.1	36.1	36.1
	Exceedance Level	-20.5	-19.2	-14.6	-10.3	-8.9	-8.9	-8.9	-8.9	-8.9	-8.9
NSR48	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	26.6	27.9	32.5	36.9	38.2	38.2	38.2	38.2	38.2	38.2
	Exceedance Level	-18.4	-17.1	-12.5	-8.1	-6.8	-6.8	-6.8	-6.8	-7.5	-8.5
NSR49	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	24.8	26.1	30.7	35.0	36.4	36.4	36.4	36.4	36.4	36.4

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
	Exceedance Level	-20.2	-18.9	-14.3	-10.0	-8.6	-8.6	-8.6	-8.6	-9.3	-10.3
NSR50	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.3	26.6	31.3	35.6	36.9	36.9	36.9	36.9	36.9	36.9
	Exceedance Level	-19.7	-18.4	-13.7	-9.4	-8.1	-8.1	-8.1	-8.1	-8.1	-8.1
NSR51	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	23.2	24.5	29.1	33.4	34.7	34.7	34.7	34.7	34.7	34.7
	Exceedance Level	-21.8	-20.5	-15.9	-11.6	-10.3	-10.3	-10.5	-12.3	-14.2	-16.1
NSR52	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	25.1	26.4	31.0	35.3	36.7	36.7	36.7	36.7	36.7	36.7
	Exceedance Level	-19.9	-18.6	-14.0	-9.7	-8.3	-8.3	-8.3	-8.3	-8.3	-8.3
NSR53	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	24.3	25.6	30.2	34.5	35.9	35.9	35.9	35.9	35.9	35.9
	Exceedance Level	-20.7	-19.4	-14.8	-10.5	-9.1	-9.1	-9.1	-9.1	-9.1	-9.1
NSR54	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	24.1	25.4	30.0	34.3	35.7	35.7	35.7	35.7	35.7	35.7
	Exceedance Level	-20.9	-19.6	-15.0	-10.7	-9.3	-9.3	-9.3	-9.3	-9.3	-9.3
NSR55	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	22.2	23.5	28.1	32.4	33.8	33.8	33.8	33.8	33.8	33.8
	Exceedance Level	-22.8	-21.5	-16.9	-12.6	-11.2	-11.2	-11.2	-11.2	-11.9	-12.9
NSR56	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	23.9	25.2	29.8	34.1	35.5	35.5	35.5	35.5	35.5	35.5
	Exceedance Level	-21.1	-19.8	-15.2	-10.9	-9.5	-9.5	-9.5	-9.5	-10.1	-12.8
NSR57	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	24.0	25.3	30.0	34.3	35.6	35.6	35.6	35.6	35.6	35.6
	Exceedance Level	-21.0	-19.7	-15.0	-10.7	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
NSR58	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	22.1	23.4	28.1	32.4	33.7	33.7	33.7	33.7	33.7	33.7
	Exceedance Level	-22.9	-21.6	-16.9	-12.6	-11.3	-11.3	-11.5	-13.3	-15.2	-17.1
NSR59	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	24.2	25.5	30.1	34.4	35.8	35.8	35.8	35.8	35.8	35.8
	Exceedance Level	-20.8	-19.5	-14.9	-10.6	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2
NSR60	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	Predicted Wind Turbine Noise L_{A90} dB	23.7	25.0	29.6	34.0	35.3	35.3	35.3	35.3	35.3	35.3
	Exceedance Level	-21.3	-20.0	-15.4	-11.0	-9.7	-9.7	-9.7	-9.7	-9.7	-9.7
NSR61	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.9	46.1
	Predicted Wind Turbine Noise L_{A90} dB	24.2	25.4	30.1	34.4	35.7	35.7	35.7	35.7	35.7	35.7
	Exceedance Level	-20.8	-19.6	-14.9	-10.6	-9.3	-9.3	-9.3	-9.6	-10.2	-10.4
NSR62	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	22.9	24.2	28.8	33.1	34.4	34.4	34.4	34.4	34.4	34.4
	Exceedance Level	-22.1	-20.8	-16.2	-11.9	-10.6	-10.6	-10.6	-10.6	-11.2	-13.9
NSR63	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	22.7	24.0	28.6	32.9	34.2	34.2	34.2	34.2	34.2	34.2
	Exceedance Level	-22.3	-21.0	-16.4	-12.1	-10.8	-10.8	-10.8	-10.8	-11.4	-14.1
NSR64	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.2	33.2	33.2	33.2	33.2	33.2
	Exceedance Level	-23.3	-22.0	-17.4	-13.1	-11.8	-11.8	-12.0	-13.8	-15.7	-17.6
NSR65	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.6	32.9	32.9	32.9	32.9	32.9	32.9
	Exceedance Level	-23.6	-22.3	-17.7	-13.4	-12.1	-12.1	-12.1	-12.1	-12.2	-15.3
NSR66	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.9	46.1
	Predicted Wind Turbine Noise L_{A90} dB	23.7	25.0	29.6	33.9	35.3	35.3	35.3	35.3	35.3	35.3
	Exceedance Level	-21.3	-20.0	-15.4	-11.1	-9.7	-9.7	-9.7	-10.0	-10.6	-10.8
NSR67	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	22.3	23.6	28.3	32.6	33.9	33.9	33.9	33.9	33.9	33.9
	Exceedance Level	-22.7	-21.4	-16.7	-12.4	-11.1	-11.1	-11.1	-11.1	-11.7	-14.4
NSR68	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	21.3	22.6	27.2	31.5	32.8	32.8	32.8	32.8	32.8	32.8
	Exceedance Level	-23.7	-22.4	-17.8	-13.5	-12.2	-12.2	-12.4	-14.2	-16.1	-18.0
NSR69	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	22.1	23.3	28.0	32.3	33.6	33.6	33.6	33.6	33.6	33.6
	Exceedance Level	-22.9	-21.7	-17.0	-12.7	-11.4	-11.4	-11.6	-13.4	-15.3	-17.2
NSR70	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-24.2	-22.9	-18.3	-14.0	-12.6	-12.6	-12.6	-12.6	-12.7	-15.8
NSR71	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	21.1	22.4	27.0	31.3	32.6	32.6	32.6	32.6	32.6	32.6
	Exceedance Level	-23.9	-22.6	-18.0	-13.7	-12.4	-12.4	-12.6	-14.4	-16.3	-18.2
NSR72	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.3	22.6	27.3	31.6	32.9	32.9	32.9	32.9	32.9	32.9
	Exceedance Level	-23.7	-22.4	-17.7	-13.4	-12.1	-12.1	-12.1	-12.1	-12.8	-13.8
NSR73	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	22.7	24.0	28.7	33.0	34.3	34.3	34.3	34.3	34.3	34.3
	Exceedance Level	-22.3	-21.0	-16.3	-12.0	-10.7	-10.7	-10.7	-10.7	-11.3	-14.0

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR74	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	20.9	22.2	26.8	31.1	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-24.1	-22.8	-18.2	-13.9	-12.6	-12.6	-12.8	-14.6	-16.5	-18.4
NSR75	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	20.1	21.3	26.0	30.3	31.6	31.6	31.6	31.6	31.6	31.6
	Exceedance Level	-24.9	-23.7	-19.0	-14.7	-13.4	-13.4	-13.4	-13.4	-14.1	-15.1
NSR76	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	22.1	23.4	28.1	32.4	33.7	33.7	33.7	33.7	33.7	33.7
	Exceedance Level	-22.9	-21.6	-16.9	-12.6	-11.3	-11.3	-11.3	-11.3	-12.0	-13.0
NSR77	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	20.7	22.0	26.6	30.9	32.2	32.2	32.2	32.2	32.2	32.2
	Exceedance Level	-24.3	-23.0	-18.4	-14.1	-12.8	-12.8	-13.0	-14.8	-16.7	-18.6
NSR78	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	20.5	21.8	26.4	30.7	32.1	32.1	32.1	32.1	32.1	32.1
	Exceedance Level	-24.5	-23.2	-18.6	-14.3	-12.9	-12.9	-13.1	-14.9	-16.8	-18.7
NSR79	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	22.8	24.1	28.7	33.0	34.4	34.4	34.4	34.4	34.4	34.4
	Exceedance Level	-22.2	-20.9	-16.3	-12.0	-10.6	-10.6	-10.6	-10.6	-11.3	-12.3
NSR80	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.9	46.1
	Predicted Wind Turbine Noise L_{A90} dB	22.7	24.0	28.6	32.9	34.3	34.3	34.3	34.3	34.3	34.3
	Exceedance Level	-22.3	-21.0	-16.4	-12.1	-10.7	-10.7	-10.7	-11.0	-11.6	-11.8
NSR81	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.3	33.3	33.3	33.3	33.3	33.3
	Exceedance Level	-23.3	-22.0	-17.4	-13.1	-11.7	-11.7	-11.7	-11.7	-12.4	-13.4
NSR82	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	22.3	23.6	28.2	32.5	33.8	33.8	33.8	33.8	33.8	33.8
	Exceedance Level	-22.7	-21.4	-16.8	-12.5	-11.2	-11.2	-11.2	-11.2	-11.9	-12.9
NSR83	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.7	33.0	33.0	33.0	33.0	33.0	33.0
	Exceedance Level	-23.6	-22.3	-17.7	-13.3	-12.0	-12.0	-12.0	-12.0	-12.7	-13.7
NSR84	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.3	33.3	33.3	33.3	33.3	33.3
	Exceedance Level	-23.3	-22.0	-17.4	-13.1	-11.7	-11.7	-11.7	-11.7	-12.3	-15.0
NSR85	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.3	33.3	33.3	33.3	33.3	33.3
	Exceedance Level	-23.3	-22.0	-17.4	-13.1	-11.7	-11.7	-11.7	-11.7	-12.4	-13.4
NSR86	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.3	22.6	27.2	31.5	32.9	32.9	32.9	32.9	32.9	32.9
	Exceedance Level	-23.7	-22.4	-17.8	-13.5	-12.1	-12.1	-12.1	-12.1	-12.8	-13.8
NSR87	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	17.2	18.5	23.1	27.4	28.7	28.7	28.7	28.7	28.7	28.7
	Exceedance Level	-27.8	-26.5	-21.9	-17.6	-16.3	-16.3	-16.3	-16.3	-16.4	-19.5
NSR88	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	20.9	22.2	26.8	31.1	32.5	32.5	32.5	32.5	32.5	32.5
	Exceedance Level	-24.1	-22.8	-18.2	-13.9	-12.5	-12.5	-12.5	-12.5	-13.2	-14.2
NSR89	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.9	23.2	27.8	32.1	33.5	33.5	33.5	33.5	33.5	33.5
	Exceedance Level	-23.1	-21.8	-17.2	-12.9	-11.5	-11.5	-11.5	-11.5	-12.2	-13.2
NSR90	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	20.0	21.3	25.9	30.2	31.6	31.6	31.6	31.6	31.6	31.6
	Exceedance Level	-25.0	-23.7	-19.1	-14.8	-13.4	-13.4	-13.6	-15.4	-17.3	-19.2
NSR91	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-24.2	-22.9	-18.3	-14.0	-12.6	-12.6	-12.6	-12.6	-13.2	-15.9
NSR92	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
	Exceedance Level	-24.2	-22.9	-18.3	-14.0	-12.7	-12.7	-12.7	-12.7	-13.4	-14.4
NSR93	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	19.1	20.4	25.1	29.4	30.7	30.7	30.7	30.7	30.7	30.7
	Exceedance Level	-25.9	-24.6	-19.9	-15.6	-14.3	-14.3	-14.5	-16.3	-18.2	-20.1
NSR94	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	20.5	21.8	26.4	30.7	32.1	32.1	32.1	32.1	32.1	32.1
	Exceedance Level	-24.5	-23.2	-18.6	-14.3	-12.9	-12.9	-12.9	-12.9	-13.5	-16.2
NSR95	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	19.7	21.0	25.6	29.9	31.3	31.3	31.3	31.3	31.3	31.3
	Exceedance Level	-25.3	-24.0	-19.4	-15.1	-13.7	-13.7	-13.9	-15.7	-17.6	-19.5
NSR96	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-24.2	-22.9	-18.3	-14.0	-12.6	-12.6	-12.6	-12.6	-13.3	-14.3
NSR97	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.1	22.4	27.0	31.4	32.7	32.7	32.7	32.7	32.7	32.7
	Exceedance Level	-23.9	-22.6	-18.0	-13.6	-12.3	-12.3	-12.3	-12.3	-13.0	-14.0
	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR98	Predicted Wind Turbine Noise L_{A90} dB	21.8	23.1	27.8	32.1	33.4	33.4	33.4	33.4	33.4	33.4
	Exceedance Level	-23.2	-21.9	-17.2	-12.9	-11.6	-11.6	-11.6	-11.6	-12.3	-13.3
NSR99	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	19.9	21.2	25.8	30.2	31.5	31.5	31.5	31.5	31.5	31.5
	Exceedance Level	-25.1	-23.8	-19.2	-14.8	-13.5	-13.5	-13.5	-13.5	-14.1	-16.8
NSR100	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	16.0	17.3	21.9	26.2	27.6	27.6	27.6	27.6	27.6	27.6
	Exceedance Level	-29.0	-27.7	-23.1	-18.8	-17.4	-17.4	-17.4	-17.4	-17.5	-20.6
NSR101	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.6	33.0	33.0	33.0	33.0	33.0	33.0
	Exceedance Level	-23.6	-22.3	-17.7	-13.4	-12.0	-12.0	-12.0	-12.0	-12.7	-13.7
NSR102	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	19.4	20.7	25.3	29.6	31.0	31.0	31.0	31.0	31.0	31.0
	Exceedance Level	-25.6	-24.3	-19.7	-15.4	-14.0	-14.0	-14.0	-14.0	-14.6	-17.3
NSR103	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	19.8	21.1	25.8	30.1	31.4	31.4	31.4	31.4	31.4	31.4
	Exceedance Level	-25.2	-23.9	-19.2	-14.9	-13.6	-13.6	-13.6	-13.6	-14.3	-15.3
NSR104	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.6	33.0	33.0	33.0	33.0	33.0	33.0
	Exceedance Level	-23.6	-22.3	-17.7	-13.4	-12.0	-12.0	-12.0	-12.0	-12.7	-13.7
NSR105	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	16.9	18.2	22.8	27.1	28.4	28.4	28.4	28.4	28.4	28.4
	Exceedance Level	-28.1	-26.8	-22.2	-17.9	-16.6	-16.6	-16.6	-16.6	-17.3	-18.3
NSR106	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	19.3	20.6	25.2	29.5	30.9	30.9	30.9	30.9	30.9	30.9
	Exceedance Level	-25.7	-24.4	-19.8	-15.5	-14.1	-14.1	-14.1	-14.1	-14.7	-17.4
NSR107	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	19.4	20.7	25.3	29.6	30.9	30.9	30.9	30.9	30.9	30.9
	Exceedance Level	-25.6	-24.3	-19.7	-15.4	-14.1	-14.1	-14.1	-14.1	-14.7	-17.4
NSR108	Total WEDG Noise Limit L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Predicted Wind Turbine Noise L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Exceedance Level	-	-	-	-	-	-	-	-	-	-
NSR109	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	19.0	20.3	24.9	29.3	30.6	30.6	30.6	30.6	30.6	30.6
	Exceedance Level	-26.0	-24.7	-20.1	-15.7	-14.4	-14.4	-14.6	-16.4	-18.3	-20.2
NSR110	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	18.8	20.1	24.8	29.1	30.4	30.4	30.4	30.4	30.4	30.4
	Exceedance Level	-26.2	-24.9	-20.2	-15.9	-14.6	-14.6	-14.6	-14.6	-15.3	-16.3
NSR111	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	18.8	20.1	24.7	29.0	30.4	30.4	30.4	30.4	30.4	30.4
	Exceedance Level	-26.2	-24.9	-20.3	-16.0	-14.6	-14.6	-14.6	-14.6	-15.3	-16.3
NSR112	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	15.9	17.2	21.9	26.2	27.5	27.5	27.5	27.5	27.5	27.5
	Exceedance Level	-29.1	-27.8	-23.1	-18.8	-17.5	-17.5	-17.5	-17.5	-18.2	-19.2
NSR113	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	20.3	21.6	26.3	30.6	31.9	31.9	31.9	31.9	31.9	31.9
	Exceedance Level	-24.7	-23.4	-18.7	-14.4	-13.1	-13.1	-13.1	-13.1	-13.8	-14.8
NSR114	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	15.2	16.5	21.1	25.4	26.8	26.8	26.8	26.8	26.8	26.8
	Exceedance Level	-29.8	-28.5	-23.9	-19.6	-18.2	-18.2	-18.2	-18.2	-18.3	-21.4
NSR115	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	18.5	19.8	24.4	28.7	30.1	30.1	30.1	30.1	30.1	30.1
	Exceedance Level	-26.5	-25.2	-20.6	-16.3	-14.9	-14.9	-14.9	-14.9	-15.6	-16.6
NSR116	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	17.9	19.2	23.8	28.1	29.5	29.5	29.5	29.5	29.5	29.5
	Exceedance Level	-27.1	-25.8	-21.2	-16.9	-15.5	-15.5	-15.5	-15.5	-16.1	-18.8
NSR117	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	18.1	19.4	24.0	28.3	29.7	29.7	29.7	29.7	29.7	29.7
	Exceedance Level	-26.9	-25.6	-21.0	-16.7	-15.3	-15.3	-15.5	-17.3	-19.2	-21.1
NSR118	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	17.6	18.9	23.5	27.8	29.2	29.2	29.2	29.2	29.2	29.2
	Exceedance Level	-27.4	-26.1	-21.5	-17.2	-15.8	-15.8	-16.0	-17.8	-19.7	-21.6
NSR119	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	18.0	19.3	23.9	28.2	29.5	29.5	29.5	29.5	29.5	29.5
	Exceedance Level	-27.0	-25.7	-21.1	-16.8	-15.5	-15.5	-15.7	-17.5	-19.4	-21.3
NSR120	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	18.3	19.6	24.2	28.5	29.8	29.8	29.8	29.8	29.8	29.8
	Exceedance Level	-26.7	-25.4	-20.8	-16.5	-15.2	-15.2	-15.2	-15.2	-15.9	-16.9
NSR121	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	18.1	19.4	24.0	28.3	29.7	29.7	29.7	29.7	29.7	29.7
	Exceedance Level	-26.9	-25.6	-21.0	-16.7	-15.3	-15.3	-15.5	-17.3	-19.2	-21.1
NSR122	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	18.1	19.4	24.0	28.3	29.7	29.7	29.7	29.7	29.7	29.7

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
	Exceedance Level	-26.9	-25.6	-21.0	-16.7	-15.3	-15.3	-15.3	-15.3	-16.0	-17.0
NSR123	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	15.1	16.4	21.1	25.4	26.7	26.7	26.7	26.7	26.7	26.7
	Exceedance Level	-29.9	-28.6	-23.9	-19.6	-18.3	-18.3	-18.3	-18.3	-18.4	-21.5
NSR124	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.7	16.0	20.6	24.9	26.2	26.2	26.2	26.2	26.2	26.2
	Exceedance Level	-30.3	-29.0	-24.4	-20.1	-18.8	-18.8	-18.8	-18.8	-18.9	-22.0
NSR125	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	46.7
	Predicted Wind Turbine Noise L_{A90} dB	15.3	16.6	21.2	25.5	26.8	26.8	26.8	26.8	26.8	26.8
	Exceedance Level	-29.7	-28.4	-23.8	-19.5	-18.2	-18.2	-18.2	-18.2	-18.9	-19.9
NSR126	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.5	15.8	20.4	24.7	26.0	26.0	26.0	26.0	26.0	26.0
	Exceedance Level	-30.5	-29.2	-24.6	-20.3	-19.0	-19.0	-19.0	-19.0	-19.1	-22.2
NSR127	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.4	15.7	20.3	24.6	25.9	25.9	25.9	25.9	25.9	25.9
	Exceedance Level	-30.6	-29.3	-24.7	-20.4	-19.1	-19.1	-19.1	-19.1	-19.2	-22.3
NSR128	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	17.3	18.6	23.2	27.5	28.9	28.9	28.9	28.9	28.9	28.9
	Exceedance Level	-27.7	-26.4	-21.8	-17.5	-16.1	-16.1	-16.1	-16.1	-16.7	-19.4
NSR129	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.5	14.8	19.5	23.8	25.1	25.1	25.1	25.1	25.1	25.1
	Exceedance Level	-31.5	-30.2	-25.5	-21.2	-19.9	-19.9	-19.9	-19.9	-20.0	-23.1
NSR130	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	15.1	16.4	21.0	25.3	26.7	26.7	26.7	26.7	26.7	26.7
	Exceedance Level	-29.9	-28.6	-24.0	-19.7	-18.3	-18.3	-18.3	-18.3	-19.0	-20.0
NSR131	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.9	16.2	20.9	25.2	26.5	26.5	26.5	26.5	26.5	26.5
	Exceedance Level	-30.1	-28.8	-24.1	-19.8	-18.5	-18.5	-18.5	-18.5	-18.6	-21.7
NSR132	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.0	15.3	19.9	24.3	25.6	25.6	25.6	25.6	25.6	25.6
	Exceedance Level	-31.0	-29.7	-25.1	-20.7	-19.4	-19.4	-19.4	-19.4	-19.5	-22.6
NSR133	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	14.8	16.1	20.7	25.0	26.4	26.4	26.4	26.4	26.4	26.4
	Exceedance Level	-30.2	-28.9	-24.3	-20.0	-18.6	-18.6	-18.6	-18.6	-19.3	-20.3
NSR134	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	17.4	18.7	23.3	27.6	29.0	29.0	29.0	29.0	29.0	29.0
	Exceedance Level	-27.6	-26.3	-21.7	-17.4	-16.0	-16.0	-16.2	-18.0	-19.9	-21.8
NSR135	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.8	24.1	25.4	25.4	25.4	25.4	25.4	25.4
	Exceedance Level	-31.1	-29.8	-25.2	-20.9	-19.6	-19.6	-19.6	-19.6	-19.7	-22.8
NSR136	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.7	14.9	19.6	23.9	25.2	25.2	25.2	25.2	25.2	25.2
	Exceedance Level	-31.3	-30.1	-25.4	-21.1	-19.8	-19.8	-19.8	-19.8	-19.9	-23.0
NSR137	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	16.7	18.0	22.6	26.9	28.3	28.3	28.3	28.3	28.3	28.3
	Exceedance Level	-28.3	-27.0	-22.4	-18.1	-16.7	-16.7	-16.9	-18.7	-20.6	-22.5
NSR138	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.8	24.1	25.5	25.5	25.5	25.5	25.5	25.5
	Exceedance Level	-31.1	-29.8	-25.2	-20.9	-19.5	-19.5	-19.5	-19.5	-19.6	-22.7
NSR139	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.7	16.0	20.6	24.9	26.3	26.3	26.3	26.3	26.3	26.3
	Exceedance Level	-30.3	-29.0	-24.4	-20.1	-18.7	-18.7	-18.7	-18.7	-18.8	-21.9
NSR140	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.8	24.2	25.5	25.5	25.5	25.5	25.5	25.5
	Exceedance Level	-31.1	-29.8	-25.2	-20.8	-19.5	-19.5	-19.5	-19.5	-19.6	-22.7
NSR141	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.9	24.2	25.5	25.5	25.5	25.5	25.5	25.5
	Exceedance Level	-31.1	-29.8	-25.1	-20.8	-19.5	-19.5	-19.5	-19.5	-19.6	-22.7
NSR142	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	14.6	15.9	20.5	24.8	26.2	26.2	26.2	26.2	26.2	26.2
	Exceedance Level	-30.4	-29.1	-24.5	-20.2	-18.8	-18.8	-18.8	-18.8	-19.5	-20.5
NSR143	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.6	14.9	19.5	23.8	25.2	25.2	25.2	25.2	25.2	25.2
	Exceedance Level	-31.4	-30.1	-25.5	-21.2	-19.8	-19.8	-19.8	-19.8	-19.9	-23.0
NSR144	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	16.6	17.9	22.6	26.9	28.2	28.2	28.2	28.2	28.2	28.2
	Exceedance Level	-28.4	-27.1	-22.4	-18.1	-16.8	-16.8	-16.8	-16.8	-17.4	-20.1
NSR145	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	14.4	15.7	20.3	24.7	26.0	26.0	26.0	26.0	26.0	26.0
	Exceedance Level	-30.6	-29.3	-24.7	-20.3	-19.0	-19.0	-19.0	-19.0	-19.7	-20.7
NSR146	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.4	14.7	19.4	23.7	25.0	25.0	25.0	25.0	25.0	25.0
	Exceedance Level	-31.6	-30.3	-25.6	-21.3	-20.0	-20.0	-20.0	-20.0	-20.1	-23.2

Table A5.2 Total WEDG Noise Limits Compliance Table at NSRs – Daytime

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR147	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	16.5	17.8	22.4	26.7	28.0	28.0	28.0	28.0	28.0	28.0
	Exceedance Level	-28.5	-27.2	-22.6	-18.3	-17.0	-17.0	-17.0	-17.0	-17.6	-20.3
NSR148	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	16.9	18.2	22.8	27.2	28.5	28.5	28.5	28.5	28.5	28.5
	Exceedance Level	-28.1	-26.8	-22.2	-17.8	-16.5	-16.5	-16.5	-16.5	-17.2	-18.2
NSR149	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.6	14.9	19.6	23.9	25.2	25.2	25.2	25.2	25.2	25.2
	Exceedance Level	-31.4	-30.1	-25.4	-21.1	-19.8	-19.8	-19.8	-19.8	-19.9	-23.0
NSR150	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	17.2	18.5	23.1	27.4	28.8	28.8	28.8	28.8	28.8	28.8
	Exceedance Level	-27.8	-26.5	-21.9	-17.6	-16.2	-16.2	-16.2	-16.2	-16.9	-17.9
NSR151	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	16.4	17.7	22.3	26.6	28.0	28.0	28.0	28.0	28.0	28.0
	Exceedance Level	-28.6	-27.3	-22.7	-18.4	-17.0	-17.0	-17.0	-17.0	-17.6	-20.3
NSR152	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	16.9	18.2	22.9	27.2	28.5	28.5	28.5	28.5	28.5	28.5
	Exceedance Level	-28.1	-26.8	-22.1	-17.8	-16.5	-16.5	-16.5	-16.5	-17.2	-18.2
NSR153	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	16.2	17.5	22.1	26.4	27.8	27.8	27.8	27.8	27.8	27.8
	Exceedance Level	-28.8	-27.5	-22.9	-18.6	-17.2	-17.2	-17.2	-17.2	-17.8	-20.5
NSR154	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.7
	Predicted Wind Turbine Noise L_{A90} dB	17.6	18.9	23.5	27.8	29.2	29.2	29.2	29.2	29.2	29.2
	Exceedance Level	-27.4	-26.1	-21.5	-17.2	-15.8	-15.8	-15.8	-15.8	-16.5	-17.5
NSR155	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	14.2	15.5	20.1	24.4	25.7	25.7	25.7	25.7	25.7	25.7
	Exceedance Level	-30.8	-29.5	-24.9	-20.6	-19.3	-19.3	-19.3	-19.3	-19.4	-22.5
NSR156	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.2	47.0	48.9	50.8
	Predicted Wind Turbine Noise L_{A90} dB	16.8	18.1	22.7	27.0	28.4	28.4	28.4	28.4	28.4	28.4
	Exceedance Level	-28.2	-26.9	-22.3	-18.0	-16.6	-16.6	-16.8	-18.6	-20.5	-22.4
NSR157	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	16.2	17.5	22.1	26.4	27.7	27.7	27.7	27.7	27.7	27.7
	Exceedance Level	-28.8	-27.5	-22.9	-18.6	-17.3	-17.3	-17.3	-17.3	-17.9	-20.6
NSR158	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.2	14.5	19.1	23.4	24.7	24.7	24.7	24.7	24.7	24.7
	Exceedance Level	-31.8	-30.5	-25.9	-21.6	-20.3	-20.3	-20.3	-20.3	-20.4	-23.5
NSR159	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.6	48.3
	Predicted Wind Turbine Noise L_{A90} dB	16.0	17.3	21.9	26.2	27.5	27.5	27.5	27.5	27.5	27.5
	Exceedance Level	-29.0	-27.7	-23.1	-18.8	-17.5	-17.5	-17.5	-17.5	-18.1	-20.8
NSR160	Total WEDG Noise Limit L_{A90} dB	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	48.2
	Predicted Wind Turbine Noise L_{A90} dB	13.3	14.6	19.3	23.6	24.9	24.9	24.9	24.9	24.9	24.9
	Exceedance Level	-31.7	-30.4	-25.7	-21.4	-20.1	-20.1	-20.1	-20.1	-20.2	-23.3

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR1	Total WEDG Noise Limit L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Predicted Wind Turbine Noise L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Exceedance Level	-	-	-	-	-	-	-	-	-	-
NSR2	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.8	44.7	44.7	44.7
	Predicted Wind Turbine Noise L_{A90} dB	27.8	29.1	33.7	38.0	39.4	39.4	39.4	39.4	39.4	39.4
	Exceedance Level	-15.2	-13.9	-9.3	-5.0	-3.6	-3.6	-4.4	-5.3	-5.3	-5.3
NSR3	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	29.4	30.6	35.3	39.6	40.9	40.9	40.9	40.9	40.9	40.9
	Exceedance Level	-13.6	-12.4	-7.7	-3.4	-2.1	-2.1	-2.1	-5.2	-5.2	-5.2
NSR4	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	28.8	30.1	34.7	39.0	40.4	40.4	40.4	40.4	40.4	40.4
	Exceedance Level	-14.2	-12.9	-8.3	-4.0	-2.6	-2.6	-2.6	-5.7	-5.7	-5.7
NSR5	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	27.7	29.0	33.6	37.9	39.3	39.3	39.3	39.3	39.3	39.3
	Exceedance Level	-15.3	-14.0	-9.4	-5.1	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
NSR6	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	28.7	30.0	34.6	38.9	40.3	40.3	40.3	40.3	40.3	40.3
	Exceedance Level	-14.3	-13.0	-8.4	-4.1	-2.7	-2.7	-2.7	-5.8	-5.8	-5.8
NSR7	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	28.0	29.3	33.9	38.2	39.6	39.6	39.6	39.6	39.6	39.6
	Exceedance Level	-15.0	-13.7	-9.1	-4.8	-3.4	-3.4	-3.4	-4.1	-4.1	-4.1
NSR8	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	27.5	28.8	33.4	37.8	39.1	39.1	39.1	39.1	39.1	39.1
	Exceedance Level	-15.5	-14.2	-9.6	-5.2	-3.9	-3.9	-3.9	-7.0	-7.0	-7.0
NSR9	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.8	44.7	44.7	44.7
	Predicted Wind Turbine Noise L_{A90} dB	26.7	28.0	32.6	36.9	38.3	38.3	38.3	38.3	38.3	38.3
	Exceedance Level	-16.3	-15.0	-10.4	-6.1	-4.7	-4.7	-5.5	-6.4	-6.4	-6.4
NSR10	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	25.3	26.6	31.2	35.5	36.9	36.9	36.9	36.9	36.9	36.9
	Exceedance Level	-17.7	-16.4	-11.8	-7.5	-6.1	-6.1	-6.1	-6.1	-6.1	-6.1
NSR11	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	27.5	28.8	33.4	37.7	39.1	39.1	39.1	39.1	39.1	39.1
	Exceedance Level	-15.5	-14.2	-9.6	-5.3	-3.9	-3.9	-3.9	-3.9	-3.9	-3.9
NSR12	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.8	44.7	44.7	44.7
	Predicted Wind Turbine Noise L_{A90} dB	27.4	28.7	33.3	37.6	38.9	38.9	38.9	38.9	38.9	38.9
	Exceedance Level	-15.6	-14.3	-9.7	-5.4	-4.1	-4.1	-4.9	-5.8	-5.8	-5.8
NSR13	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	26.3	27.6	32.2	36.6	37.9	37.9	37.9	37.9	37.9	37.9
	Exceedance Level	-16.7	-15.4	-10.8	-6.4	-5.1	-5.1	-6.0	-7.8	-7.8	-7.8
NSR14	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	28.5	29.8	34.4	38.8	40.1	40.1	40.1	40.1	40.1	40.1
	Exceedance Level	-14.5	-13.2	-8.6	-4.2	-2.9	-2.9	-2.9	-6.0	-6.0	-6.0
NSR15	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.5	27.8	32.4	36.7	38.1	38.1	38.1	38.1	38.1	38.1
	Exceedance Level	-16.5	-15.2	-10.6	-6.3	-4.9	-4.9	-4.9	-8.0	-8.0	-8.0
NSR16	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	26.9	28.2	32.8	37.2	38.5	38.5	38.5	38.5	38.5	38.5
	Exceedance Level	-16.1	-14.8	-10.2	-5.8	-4.5	-4.5	-4.5	-4.5	-4.5	-4.5
NSR17	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.3	27.6	32.2	36.5	37.9	37.9	37.9	37.9	37.9	37.9
	Exceedance Level	-16.7	-15.4	-10.8	-6.5	-5.1	-5.1	-5.1	-8.2	-8.2	-8.2
NSR18	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.6	26.9	31.5	35.8	37.2	37.2	37.2	37.2	37.2	37.2
	Exceedance Level	-17.4	-16.1	-11.5	-7.2	-5.8	-5.8	-5.8	-8.9	-8.9	-8.9
NSR19	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	35.9	37.2	37.2	37.2	37.2	37.2	37.2
	Exceedance Level	-17.3	-16.0	-11.4	-7.1	-5.8	-5.8	-5.8	-8.9	-8.9	-8.9
NSR20	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.4	27.7	32.3	36.6	38.0	38.0	38.0	38.0	38.0	38.0
	Exceedance Level	-16.6	-15.3	-10.7	-6.4	-5.0	-5.0	-5.0	-8.1	-8.1	-8.1
NSR21	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	25.5	26.8	31.4	35.7	37.1	37.1	37.1	37.1	37.1	37.1
	Exceedance Level	-17.5	-16.2	-11.6	-7.3	-5.9	-5.9	-6.8	-8.6	-8.6	-8.6
NSR22	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.2	27.5	32.1	36.4	37.8	37.8	37.8	37.8	37.8	37.8
	Exceedance Level	-16.8	-15.5	-10.9	-6.6	-5.2	-5.2	-5.2	-8.3	-8.3	-8.3
NSR23	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.9	27.2	31.8	36.2	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-17.1	-15.8	-11.2	-6.8	-5.5	-5.5	-5.5	-8.6	-8.6	-8.6
NSR24	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.8	27.1	31.7	36.0	37.4	37.4	37.4	37.4	37.4	37.4
	Exceedance Level	-17.2	-15.9	-11.3	-7.0	-5.6	-5.6	-5.6	-8.7	-8.7	-8.7
NSR25	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.4	26.7	31.4	35.7	37.0	37.0	37.0	37.0	37.0	37.0

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
	Exceedance Level	-17.6	-16.3	-11.6	-7.3	-6.0	-6.0	-6.0	-9.1	-9.1	-9.1
NSR26	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.8	27.1	31.7	36.0	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-17.2	-15.9	-11.3	-7.0	-5.7	-5.7	-5.7	-8.8	-8.8	-8.8
NSR27	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.6	26.9	31.5	35.9	37.2	37.2	37.2	37.2	37.2	37.2
	Exceedance Level	-17.4	-16.1	-11.5	-7.1	-5.8	-5.8	-5.8	-8.9	-8.9	-8.9
NSR28	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	26.2	27.5	32.1	36.4	37.7	37.7	37.7	37.7	37.7	37.7
	Exceedance Level	-16.8	-15.5	-10.9	-6.6	-5.3	-5.3	-5.3	-5.3	-5.3	-5.3
NSR29	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.9	27.2	31.8	36.1	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-17.1	-15.8	-11.2	-6.9	-5.5	-5.5	-5.5	-8.6	-8.6	-8.6
NSR30	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	36.0	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-17.3	-16.0	-11.4	-7.0	-5.7	-5.7	-5.7	-8.8	-8.8	-8.8
NSR31	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	24.9	26.2	30.8	35.1	36.5	36.5	36.5	36.5	36.5	36.5
	Exceedance Level	-18.1	-16.8	-12.2	-7.9	-6.5	-6.5	-7.4	-9.2	-9.2	-9.2
NSR32	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.0	27.3	31.9	36.2	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-17.0	-15.7	-11.1	-6.8	-5.5	-5.5	-5.5	-8.6	-8.6	-8.6
NSR33	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	35.9	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-17.3	-16.0	-11.4	-7.1	-5.7	-5.7	-5.7	-8.8	-8.8	-8.8
NSR34	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	27.6	28.9	33.5	37.8	39.2	39.2	39.2	39.2	39.2	39.2
	Exceedance Level	-15.4	-14.1	-9.5	-5.2	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8
NSR35	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.9	27.2	31.8	36.1	37.5	37.5	37.5	37.5	37.5	37.5
	Exceedance Level	-17.1	-15.8	-11.2	-6.9	-5.5	-5.5	-5.5	-8.6	-8.6	-8.6
NSR36	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	24.6	25.9	30.5	34.8	36.1	36.1	36.1	36.1	36.1	36.1
	Exceedance Level	-18.4	-17.1	-12.5	-8.2	-6.9	-6.9	-7.8	-9.6	-9.6	-9.6
NSR37	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	26.0	27.3	31.9	36.2	37.6	37.6	37.6	37.6	37.6	37.6
	Exceedance Level	-17.0	-15.7	-11.1	-6.8	-5.4	-5.4	-5.4	-8.5	-8.5	-8.5
NSR38	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	27.5	28.8	33.4	37.7	39.0	39.0	39.0	39.0	39.0	39.0
	Exceedance Level	-15.5	-14.2	-9.6	-5.3	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0
NSR39	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	24.9	26.2	30.8	35.1	36.5	36.5	36.5	36.5	36.5	36.5
	Exceedance Level	-18.1	-16.8	-12.2	-7.9	-6.5	-6.5	-6.5	-6.5	-6.5	-6.5
NSR40	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.8	27.1	31.7	36.0	37.4	37.4	37.4	37.4	37.4	37.4
	Exceedance Level	-17.2	-15.9	-11.3	-7.0	-5.6	-5.6	-5.6	-8.7	-8.7	-8.7
NSR41	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	24.2	25.5	30.1	34.4	35.7	35.7	35.7	35.7	35.7	35.7
	Exceedance Level	-18.8	-17.5	-12.9	-8.6	-7.3	-7.3	-8.2	-10.0	-10.0	-10.0
NSR42	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	25.2	26.5	31.1	35.4	36.8	36.8	36.8	36.8	36.8	36.8
	Exceedance Level	-17.8	-16.5	-11.9	-7.6	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2
NSR43	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.7	27.0	31.6	35.9	37.3	37.3	37.3	37.3	37.3	37.3
	Exceedance Level	-17.3	-16.0	-11.4	-7.1	-5.7	-5.7	-5.7	-8.8	-8.8	-8.8
NSR44	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	24.9	26.2	30.8	35.2	36.5	36.5	36.5	36.5	36.5	36.5
	Exceedance Level	-18.1	-16.8	-12.2	-7.8	-6.5	-6.5	-6.5	-6.5	-6.5	-6.5
NSR45	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.5	26.8	31.4	35.8	37.1	37.1	37.1	37.1	37.1	37.1
	Exceedance Level	-17.5	-16.2	-11.6	-7.2	-5.9	-5.9	-5.9	-9.0	-9.0	-9.0
NSR46	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	23.4	24.7	29.3	33.6	34.9	34.9	34.9	34.9	34.9	34.9
	Exceedance Level	-19.6	-18.3	-13.7	-9.4	-8.1	-8.1	-9.0	-10.8	-10.8	-10.8
NSR47	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	24.5	25.8	30.4	34.7	36.1	36.1	36.1	36.1	36.1	36.1
	Exceedance Level	-18.5	-17.2	-12.6	-8.3	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9
NSR48	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	26.6	27.9	32.5	36.9	38.2	38.2	38.2	38.2	38.2	38.2
	Exceedance Level	-16.4	-15.1	-10.5	-6.1	-4.8	-4.8	-4.8	-4.8	-4.8	-4.8
NSR49	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	24.8	26.1	30.7	35.0	36.4	36.4	36.4	36.4	36.4	36.4
	Exceedance Level	-18.2	-16.9	-12.3	-8.0	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6
	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR50	Predicted Wind Turbine Noise L_{A90} dB	25.3	26.6	31.3	35.6	36.9	36.9	36.9	36.9	36.9	36.9
	Exceedance Level	-17.7	-16.4	-11.7	-7.4	-6.1	-6.1	-6.1	-9.2	-9.2	-9.2
NSR51	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	23.2	24.5	29.1	33.4	34.7	34.7	34.7	34.7	34.7	34.7
	Exceedance Level	-19.8	-18.5	-13.9	-9.6	-8.3	-8.3	-9.2	-11.0	-11.0	-11.0
NSR52	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	25.1	26.4	31.0	35.3	36.7	36.7	36.7	36.7	36.7	36.7
	Exceedance Level	-17.9	-16.6	-12.0	-7.7	-6.3	-6.3	-6.3	-9.4	-9.4	-9.4
NSR53	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	24.3	25.6	30.2	34.5	35.9	35.9	35.9	35.9	35.9	35.9
	Exceedance Level	-18.7	-17.4	-12.8	-8.5	-7.1	-7.1	-7.1	-10.2	-10.2	-10.2
NSR54	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	24.1	25.4	30.0	34.3	35.7	35.7	35.7	35.7	35.7	35.7
	Exceedance Level	-18.9	-17.6	-13.0	-8.7	-7.3	-7.3	-7.3	-10.4	-10.4	-10.4
NSR55	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	22.2	23.5	28.1	32.4	33.8	33.8	33.8	33.8	33.8	33.8
	Exceedance Level	-20.8	-19.5	-14.9	-10.6	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2
NSR56	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	23.9	25.2	29.8	34.1	35.5	35.5	35.5	35.5	35.5	35.5
	Exceedance Level	-19.1	-17.8	-13.2	-8.9	-7.5	-7.5	-7.5	-8.2	-8.2	-8.2
NSR57	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	24.0	25.3	30.0	34.3	35.6	35.6	35.6	35.6	35.6	35.6
	Exceedance Level	-19.0	-17.7	-13.0	-8.7	-7.4	-7.4	-7.4	-10.5	-10.5	-10.5
NSR58	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	22.1	23.4	28.1	32.4	33.7	33.7	33.7	33.7	33.7	33.7
	Exceedance Level	-20.9	-19.6	-14.9	-10.6	-9.3	-9.3	-10.2	-12.0	-12.0	-12.0
NSR59	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	24.2	25.5	30.1	34.4	35.8	35.8	35.8	35.8	35.8	35.8
	Exceedance Level	-18.8	-17.5	-12.9	-8.6	-7.2	-7.2	-7.2	-10.3	-10.3	-10.3
NSR60	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	46.1	46.1	46.1
	Predicted Wind Turbine Noise L_{A90} dB	23.7	25.0	29.6	34.0	35.3	35.3	35.3	35.3	35.3	35.3
	Exceedance Level	-19.3	-18.0	-13.4	-9.0	-7.7	-7.7	-7.7	-10.8	-10.8	-10.8
NSR61	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.8	44.7	44.7	44.7
	Predicted Wind Turbine Noise L_{A90} dB	24.2	25.4	30.1	34.4	35.7	35.7	35.7	35.7	35.7	35.7
	Exceedance Level	-18.8	-17.6	-12.9	-8.6	-7.3	-7.3	-8.1	-9.0	-9.0	-9.0
NSR62	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	22.9	24.2	28.8	33.1	34.4	34.4	34.4	34.4	34.4	34.4
	Exceedance Level	-20.1	-18.8	-14.2	-9.9	-8.6	-8.6	-8.6	-9.3	-9.3	-9.3
NSR63	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	22.7	24.0	28.6	32.9	34.2	34.2	34.2	34.2	34.2	34.2
	Exceedance Level	-20.3	-19.0	-14.4	-10.1	-8.8	-8.8	-8.8	-9.5	-9.5	-9.5

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR64	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.2	33.2	33.2	33.2	33.2	33.2
	Exceedance Level	-21.3	-20.0	-15.4	-11.1	-9.8	-9.8	-10.7	-12.5	-12.5	-12.5
NSR65	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.6	32.9	32.9	32.9	32.9	32.9	32.9
	Exceedance Level	-21.6	-20.3	-15.7	-11.4	-10.1	-10.1	-10.1	-10.1	-10.1	-10.1
NSR66	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.8	44.7	44.7	44.7
	Predicted Wind Turbine Noise L_{A90} dB	23.7	25.0	29.6	33.9	35.3	35.3	35.3	35.3	35.3	35.3
	Exceedance Level	-19.3	-18.0	-13.4	-9.1	-7.7	-7.7	-8.5	-9.4	-9.4	-9.4
NSR67	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	22.3	23.6	28.3	32.6	33.9	33.9	33.9	33.9	33.9	33.9
	Exceedance Level	-20.7	-19.4	-14.7	-10.4	-9.1	-9.1	-9.1	-9.8	-9.8	-9.8
NSR68	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	21.3	22.6	27.2	31.5	32.8	32.8	32.8	32.8	32.8	32.8
	Exceedance Level	-21.7	-20.4	-15.8	-11.5	-10.2	-10.2	-11.1	-12.9	-12.9	-12.9
NSR69	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	22.1	23.3	28.0	32.3	33.6	33.6	33.6	33.6	33.6	33.6
	Exceedance Level	-20.9	-19.7	-15.0	-10.7	-9.4	-9.4	-10.3	-12.1	-12.1	-12.1
NSR70	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-22.2	-20.9	-16.3	-12.0	-10.6	-10.6	-10.6	-10.6	-10.6	-10.6
NSR71	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	21.1	22.4	27.0	31.3	32.6	32.6	32.6	32.6	32.6	32.6
	Exceedance Level	-21.9	-20.6	-16.0	-11.7	-10.4	-10.4	-11.3	-13.1	-13.1	-13.1
NSR72	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.3	22.6	27.3	31.6	32.9	32.9	32.9	32.9	32.9	32.9
	Exceedance Level	-21.7	-20.4	-15.7	-11.4	-10.1	-10.1	-10.1	-10.1	-10.1	-10.1
NSR73	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	22.7	24.0	28.7	33.0	34.3	34.3	34.3	34.3	34.3	34.3
	Exceedance Level	-20.3	-19.0	-14.3	-10.0	-8.7	-8.7	-8.7	-9.4	-9.4	-9.4
NSR74	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	20.9	22.2	26.8	31.1	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-22.1	-20.8	-16.2	-11.9	-10.6	-10.6	-11.5	-13.3	-13.3	-13.3
NSR75	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	20.1	21.3	26.0	30.3	31.6	31.6	31.6	31.6	31.6	31.6
	Exceedance Level	-22.9	-21.7	-17.0	-12.7	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4
NSR76	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	22.1	23.4	28.1	32.4	33.7	33.7	33.7	33.7	33.7	33.7
	Exceedance Level	-20.9	-19.6	-14.9	-10.6	-9.3	-9.3	-9.3	-9.3	-9.3	-9.3
NSR77	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	20.7	22.0	26.6	30.9	32.2	32.2	32.2	32.2	32.2	32.2
	Exceedance Level	-22.3	-21.0	-16.4	-12.1	-10.8	-10.8	-11.7	-13.5	-13.5	-13.5
NSR78	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	20.5	21.8	26.4	30.7	32.1	32.1	32.1	32.1	32.1	32.1
	Exceedance Level	-22.5	-21.2	-16.6	-12.3	-10.9	-10.9	-11.8	-13.6	-13.6	-13.6
NSR79	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	22.8	24.1	28.7	33.0	34.4	34.4	34.4	34.4	34.4	34.4
	Exceedance Level	-20.2	-18.9	-14.3	-10.0	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6
NSR80	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.8	44.7	44.7	44.7
	Predicted Wind Turbine Noise L_{A90} dB	22.7	24.0	28.6	32.9	34.3	34.3	34.3	34.3	34.3	34.3
	Exceedance Level	-20.3	-19.0	-14.4	-10.1	-8.7	-8.7	-9.5	-10.4	-10.4	-10.4
NSR81	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.3	33.3	33.3	33.3	33.3	33.3
	Exceedance Level	-21.3	-20.0	-15.4	-11.1	-9.7	-9.7	-9.7	-9.7	-9.7	-9.7
NSR82	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	22.3	23.6	28.2	32.5	33.8	33.8	33.8	33.8	33.8	33.8
	Exceedance Level	-20.7	-19.4	-14.8	-10.5	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2
NSR83	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.7	33.0	33.0	33.0	33.0	33.0	33.0
	Exceedance Level	-21.6	-20.3	-15.7	-11.3	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
NSR84	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.3	33.3	33.3	33.3	33.3	33.3
	Exceedance Level	-21.3	-20.0	-15.4	-11.1	-9.7	-9.7	-9.7	-10.4	-10.4	-10.4

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR85	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.7	23.0	27.6	31.9	33.3	33.3	33.3	33.3	33.3	33.3
	Exceedance Level	-21.3	-20.0	-15.4	-11.1	-9.7	-9.7	-9.7	-9.7	-9.7	-9.7
NSR86	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.3	22.6	27.2	31.5	32.9	32.9	32.9	32.9	32.9	32.9
	Exceedance Level	-21.7	-20.4	-15.8	-11.5	-10.1	-10.1	-10.1	-10.1	-10.1	-10.1
NSR87	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	17.2	18.5	23.1	27.4	28.7	28.7	28.7	28.7	28.7	28.7
	Exceedance Level	-25.8	-24.5	-19.9	-15.6	-14.3	-14.3	-14.3	-14.3	-14.3	-14.3
NSR88	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	20.9	22.2	26.8	31.1	32.5	32.5	32.5	32.5	32.5	32.5
	Exceedance Level	-22.1	-20.8	-16.2	-11.9	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5
NSR89	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.9	23.2	27.8	32.1	33.5	33.5	33.5	33.5	33.5	33.5
	Exceedance Level	-21.1	-19.8	-15.2	-10.9	-9.5	-9.5	-9.5	-9.5	-9.5	-9.5
NSR90	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	20.0	21.3	25.9	30.2	31.6	31.6	31.6	31.6	31.6	31.6
	Exceedance Level	-23.0	-21.7	-17.1	-12.8	-11.4	-11.4	-12.3	-14.1	-14.1	-14.1
NSR91	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-22.2	-20.9	-16.3	-12.0	-10.6	-10.6	-10.6	-11.3	-11.3	-11.3
NSR92	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
	Exceedance Level	-22.2	-20.9	-16.3	-12.0	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
NSR93	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	19.1	20.4	25.1	29.4	30.7	30.7	30.7	30.7	30.7	30.7
	Exceedance Level	-23.9	-22.6	-17.9	-13.6	-12.3	-12.3	-13.2	-15.0	-15.0	-15.0
NSR94	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	20.5	21.8	26.4	30.7	32.1	32.1	32.1	32.1	32.1	32.1
	Exceedance Level	-22.5	-21.2	-16.6	-12.3	-10.9	-10.9	-10.9	-11.6	-11.6	-11.6
NSR95	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	19.7	21.0	25.6	29.9	31.3	31.3	31.3	31.3	31.3	31.3
	Exceedance Level	-23.3	-22.0	-17.4	-13.1	-11.7	-11.7	-12.6	-14.4	-14.4	-14.4
NSR96	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	20.8	22.1	26.7	31.0	32.4	32.4	32.4	32.4	32.4	32.4
	Exceedance Level	-22.2	-20.9	-16.3	-12.0	-10.6	-10.6	-10.6	-10.6	-10.6	-10.6
NSR97	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.1	22.4	27.0	31.4	32.7	32.7	32.7	32.7	32.7	32.7
	Exceedance Level	-21.9	-20.6	-16.0	-11.6	-10.3	-10.3	-10.3	-10.3	-10.3	-10.3
NSR98	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.8	23.1	27.8	32.1	33.4	33.4	33.4	33.4	33.4	33.4
	Exceedance Level	-21.2	-19.9	-15.2	-10.9	-9.6	-9.6	-9.6	-9.6	-9.6	-9.6
NSR99	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	19.9	21.2	25.8	30.2	31.5	31.5	31.5	31.5	31.5	31.5
	Exceedance Level	-23.1	-21.8	-17.2	-12.8	-11.5	-11.5	-11.5	-12.2	-12.2	-12.2
NSR100	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	16.0	17.3	21.9	26.2	27.6	27.6	27.6	27.6	27.6	27.6
	Exceedance Level	-27.0	-25.7	-21.1	-16.8	-15.4	-15.4	-15.4	-15.4	-15.4	-15.4
NSR101	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.6	33.0	33.0	33.0	33.0	33.0	33.0
	Exceedance Level	-21.6	-20.3	-15.7	-11.4	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
NSR102	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	19.4	20.7	25.3	29.6	31.0	31.0	31.0	31.0	31.0	31.0
	Exceedance Level	-23.6	-22.3	-17.7	-13.4	-12.0	-12.0	-12.0	-12.7	-12.7	-12.7
NSR103	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	19.8	21.1	25.8	30.1	31.4	31.4	31.4	31.4	31.4	31.4
	Exceedance Level	-23.2	-21.9	-17.2	-12.9	-11.6	-11.6	-11.6	-11.6	-11.6	-11.6
NSR104	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	21.4	22.7	27.3	31.6	33.0	33.0	33.0	33.0	33.0	33.0
	Exceedance Level	-21.6	-20.3	-15.7	-11.4	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR105	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	16.9	18.2	22.8	27.1	28.4	28.4	28.4	28.4	28.4	28.4
	Exceedance Level	-26.1	-24.8	-20.2	-15.9	-14.6	-14.6	-14.6	-14.6	-14.6	-14.6
NSR106	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	19.3	20.6	25.2	29.5	30.9	30.9	30.9	30.9	30.9	30.9
	Exceedance Level	-23.7	-22.4	-17.8	-13.5	-12.1	-12.1	-12.1	-12.8	-12.8	-12.8
NSR107	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	19.4	20.7	25.3	29.6	30.9	30.9	30.9	30.9	30.9	30.9
	Exceedance Level	-23.6	-22.3	-17.7	-13.4	-12.1	-12.1	-12.1	-12.8	-12.8	-12.8
NSR108	Total WEDG Noise Limit L_{A90} dB	-	-	-	-	-	-	-	-	-	-
	Predicted Wind Turbine Noise L_{A90} dB	-	-	-	-	-	-	-	-	-	
	Exceedance Level	-	-	-	-	-	-	-	-	-	-
NSR109	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	19.0	20.3	24.9	29.3	30.6	30.6	30.6	30.6	30.6	30.6
	Exceedance Level	-24.0	-22.7	-18.1	-13.7	-12.4	-12.4	-13.3	-15.1	-15.1	-15.1
NSR110	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	18.8	20.1	24.8	29.1	30.4	30.4	30.4	30.4	30.4	30.4
	Exceedance Level	-24.2	-22.9	-18.2	-13.9	-12.6	-12.6	-12.6	-12.6	-12.6	-12.6
NSR111	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	18.8	20.1	24.7	29.0	30.4	30.4	30.4	30.4	30.4	30.4
	Exceedance Level	-24.2	-22.9	-18.3	-14.0	-12.6	-12.6	-12.6	-12.6	-12.6	-12.6
NSR112	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	15.9	17.2	21.9	26.2	27.5	27.5	27.5	27.5	27.5	27.5
	Exceedance Level	-27.1	-25.8	-21.1	-16.8	-15.5	-15.5	-15.5	-15.5	-15.5	-15.5
NSR113	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	20.3	21.6	26.3	30.6	31.9	31.9	31.9	31.9	31.9	31.9
	Exceedance Level	-22.7	-21.4	-16.7	-12.4	-11.1	-11.1	-11.1	-11.1	-11.1	-11.1
NSR114	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	15.2	16.5	21.1	25.4	26.8	26.8	26.8	26.8	26.8	26.8
	Exceedance Level	-27.8	-26.5	-21.9	-17.6	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2
NSR115	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	18.5	19.8	24.4	28.7	30.1	30.1	30.1	30.1	30.1	30.1
	Exceedance Level	-24.5	-23.2	-18.6	-14.3	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9
NSR116	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	17.9	19.2	23.8	28.1	29.5	29.5	29.5	29.5	29.5	29.5
	Exceedance Level	-25.1	-23.8	-19.2	-14.9	-13.5	-13.5	-13.5	-14.2	-14.2	-14.2
NSR117	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	18.1	19.4	24.0	28.3	29.7	29.7	29.7	29.7	29.7	29.7
	Exceedance Level	-24.9	-23.6	-19.0	-14.7	-13.3	-13.3	-14.2	-16.0	-16.0	-16.0
NSR118	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	17.6	18.9	23.5	27.8	29.2	29.2	29.2	29.2	29.2	29.2
	Exceedance Level	-25.4	-24.1	-19.5	-15.2	-13.8	-13.8	-14.7	-16.5	-16.5	-16.5
NSR119	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	18.0	19.3	23.9	28.2	29.5	29.5	29.5	29.5	29.5	29.5
	Exceedance Level	-25.0	-23.7	-19.1	-14.8	-13.5	-13.5	-14.4	-16.2	-16.2	-16.2
NSR120	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	18.3	19.6	24.2	28.5	29.8	29.8	29.8	29.8	29.8	29.8
	Exceedance Level	-24.7	-23.4	-18.8	-14.5	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2
NSR121	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	18.1	19.4	24.0	28.3	29.7	29.7	29.7	29.7	29.7	29.7
	Exceedance Level	-24.9	-23.6	-19.0	-14.7	-13.3	-13.3	-14.2	-16.0	-16.0	-16.0
NSR122	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	18.1	19.4	24.0	28.3	29.7	29.7	29.7	29.7	29.7	29.7
	Exceedance Level	-24.9	-23.6	-19.0	-14.7	-13.3	-13.3	-13.3	-13.3	-13.3	-13.3
NSR123	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	15.1	16.4	21.1	25.4	26.7	26.7	26.7	26.7	26.7	26.7
	Exceedance Level	-27.9	-26.6	-21.9	-17.6	-16.3	-16.3	-16.3	-16.3	-16.3	-16.3
NSR124	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.7	16.0	20.6	24.9	26.2	26.2	26.2	26.2	26.2	26.2
	Exceedance Level	-28.3	-27.0	-22.4	-18.1	-16.8	-16.8	-16.8	-16.8	-16.8	-16.8
NSR125	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	15.3	16.6	21.2	25.5	26.8	26.8	26.8	26.8	26.8	26.8
	Exceedance Level	-27.7	-26.4	-21.8	-17.5	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR126	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.5	15.8	20.4	24.7	26.0	26.0	26.0	26.0	26.0	26.0
	Exceedance Level	-28.5	-27.2	-22.6	-18.3	-17.0	-17.0	-17.0	-17.0	-17.0	-17.0
NSR127	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.4	15.7	20.3	24.6	25.9	25.9	25.9	25.9	25.9	25.9
	Exceedance Level	-28.6	-27.3	-22.7	-18.4	-17.1	-17.1	-17.1	-17.1	-17.1	-17.1
NSR128	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	17.3	18.6	23.2	27.5	28.9	28.9	28.9	28.9	28.9	28.9
	Exceedance Level	-25.7	-24.4	-19.8	-15.5	-14.1	-14.1	-14.1	-14.8	-14.8	-14.8
NSR129	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.5	14.8	19.5	23.8	25.1	25.1	25.1	25.1	25.1	25.1
	Exceedance Level	-29.5	-28.2	-23.5	-19.2	-17.9	-17.9	-17.9	-17.9	-17.9	-17.9
NSR130	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	15.1	16.4	21.0	25.3	26.7	26.7	26.7	26.7	26.7	26.7
	Exceedance Level	-27.9	-26.6	-22.0	-17.7	-16.3	-16.3	-16.3	-16.3	-16.3	-16.3
NSR131	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.9	16.2	20.9	25.2	26.5	26.5	26.5	26.5	26.5	26.5
	Exceedance Level	-28.1	-26.8	-22.1	-17.8	-16.5	-16.5	-16.5	-16.5	-16.5	-16.5
NSR132	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.0	15.3	19.9	24.3	25.6	25.6	25.6	25.6	25.6	25.6
	Exceedance Level	-29.0	-27.7	-23.1	-18.7	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4
NSR133	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.8	16.1	20.7	25.0	26.4	26.4	26.4	26.4	26.4	26.4
	Exceedance Level	-28.2	-26.9	-22.3	-18.0	-16.6	-16.6	-16.6	-16.6	-16.6	-16.6
NSR134	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	17.4	18.7	23.3	27.6	29.0	29.0	29.0	29.0	29.0	29.0
	Exceedance Level	-25.6	-24.3	-19.7	-15.4	-14.0	-14.0	-14.9	-16.7	-16.7	-16.7
NSR135	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.8	24.1	25.4	25.4	25.4	25.4	25.4	25.4
	Exceedance Level	-29.1	-27.8	-23.2	-18.9	-17.6	-17.6	-17.6	-17.6	-17.6	-17.6
NSR136	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.7	14.9	19.6	23.9	25.2	25.2	25.2	25.2	25.2	25.2
	Exceedance Level	-29.3	-28.1	-23.4	-19.1	-17.8	-17.8	-17.8	-17.8	-17.8	-17.8
NSR137	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	16.7	18.0	22.6	26.9	28.3	28.3	28.3	28.3	28.3	28.3
	Exceedance Level	-26.3	-25.0	-20.4	-16.1	-14.7	-14.7	-15.6	-17.4	-17.4	-17.4
NSR138	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.8	24.1	25.5	25.5	25.5	25.5	25.5	25.5
	Exceedance Level	-29.1	-27.8	-23.2	-18.9	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5
NSR139	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.7	16.0	20.6	24.9	26.3	26.3	26.3	26.3	26.3	26.3
	Exceedance Level	-28.3	-27.0	-22.4	-18.1	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7
NSR140	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.8	24.2	25.5	25.5	25.5	25.5	25.5	25.5
	Exceedance Level	-29.1	-27.8	-23.2	-18.8	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5
NSR141	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.9	15.2	19.9	24.2	25.5	25.5	25.5	25.5	25.5	25.5
	Exceedance Level	-29.1	-27.8	-23.1	-18.8	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5
NSR142	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.6	15.9	20.5	24.8	26.2	26.2	26.2	26.2	26.2	26.2
	Exceedance Level	-28.4	-27.1	-22.5	-18.2	-16.8	-16.8	-16.8	-16.8	-16.8	-16.8
NSR143	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.6	14.9	19.5	23.8	25.2	25.2	25.2	25.2	25.2	25.2
	Exceedance Level	-29.4	-28.1	-23.5	-19.2	-17.8	-17.8	-17.8	-17.8	-17.8	-17.8
NSR144	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	16.6	17.9	22.6	26.9	28.2	28.2	28.2	28.2	28.2	28.2
	Exceedance Level	-26.4	-25.1	-20.4	-16.1	-14.8	-14.8	-14.8	-15.5	-15.5	-15.5
NSR145	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.4	15.7	20.3	24.7	26.0	26.0	26.0	26.0	26.0	26.0
	Exceedance Level	-28.6	-27.3	-22.7	-18.3	-17.0	-17.0	-17.0	-17.0	-17.0	-17.0

Table A5.3 Total WEDG Noise Limits Compliance Table at NSRs – Night-time

Location		Wind Speed (ms^{-1}) as standardised to 10 m height									
		3	4	5	6	7	8	9	10	11	12
NSR146	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.4	14.7	19.4	23.7	25.0	25.0	25.0	25.0	25.0	25.0
	Exceedance Level	-29.6	-28.3	-23.6	-19.3	-18.0	-18.0	-18.0	-18.0	-18.0	-18.0
NSR147	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	16.5	17.8	22.4	26.7	28.0	28.0	28.0	28.0	28.0	28.0
	Exceedance Level	-26.5	-25.2	-20.6	-16.3	-15.0	-15.0	-15.0	-15.7	-15.7	-15.7
NSR148	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	16.9	18.2	22.8	27.2	28.5	28.5	28.5	28.5	28.5	28.5
	Exceedance Level	-26.1	-24.8	-20.2	-15.8	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5
NSR149	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.6	14.9	19.6	23.9	25.2	25.2	25.2	25.2	25.2	25.2
	Exceedance Level	-29.4	-28.1	-23.4	-19.1	-17.8	-17.8	-17.8	-17.8	-17.8	-17.8
NSR150	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	17.2	18.5	23.1	27.4	28.8	28.8	28.8	28.8	28.8	28.8
	Exceedance Level	-25.8	-24.5	-19.9	-15.6	-14.2	-14.2	-14.2	-14.2	-14.2	-14.2
NSR151	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	16.4	17.7	22.3	26.6	28.0	28.0	28.0	28.0	28.0	28.0
	Exceedance Level	-26.6	-25.3	-20.7	-16.4	-15.0	-15.0	-15.0	-15.7	-15.7	-15.7
NSR152	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	16.9	18.2	22.9	27.2	28.5	28.5	28.5	28.5	28.5	28.5
	Exceedance Level	-26.1	-24.8	-20.1	-15.8	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5
NSR153	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	16.2	17.5	22.1	26.4	27.8	27.8	27.8	27.8	27.8	27.8
	Exceedance Level	-26.8	-25.5	-20.9	-16.6	-15.2	-15.2	-15.2	-15.9	-15.9	-15.9
NSR154	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	17.6	18.9	23.5	27.8	29.2	29.2	29.2	29.2	29.2	29.2
	Exceedance Level	-25.4	-24.1	-19.5	-15.2	-13.8	-13.8	-13.8	-13.8	-13.8	-13.8
NSR155	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	14.2	15.5	20.1	24.4	25.7	25.7	25.7	25.7	25.7	25.7
	Exceedance Level	-28.8	-27.5	-22.9	-18.6	-17.3	-17.3	-17.3	-17.3	-17.3	-17.3
NSR156	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.9	45.7	45.7	45.7
	Predicted Wind Turbine Noise L_{A90} dB	16.8	18.1	22.7	27.0	28.4	28.4	28.4	28.4	28.4	28.4
	Exceedance Level	-26.2	-24.9	-20.3	-16.0	-14.6	-14.6	-15.5	-17.3	-17.3	-17.3
NSR157	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	16.2	17.5	22.1	26.4	27.7	27.7	27.7	27.7	27.7	27.7
	Exceedance Level	-26.8	-25.5	-20.9	-16.6	-15.3	-15.3	-15.3	-16.0	-16.0	-16.0
NSR158	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.2	14.5	19.1	23.4	24.7	24.7	24.7	24.7	24.7	24.7
	Exceedance Level	-29.8	-28.5	-23.9	-19.6	-18.3	-18.3	-18.3	-18.3	-18.3	-18.3
NSR159	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.7	43.7	43.7
	Predicted Wind Turbine Noise L_{A90} dB	16.0	17.3	21.9	26.2	27.5	27.5	27.5	27.5	27.5	27.5
	Exceedance Level	-27.0	-25.7	-21.1	-16.8	-15.5	-15.5	-15.5	-16.2	-16.2	-16.2
NSR160	Total WEDG Noise Limit L_{A90} dB	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	Predicted Wind Turbine Noise L_{A90} dB	13.3	14.6	19.3	23.6	24.9	24.9	24.9	24.9	24.9	24.9
	Exceedance Level	-29.7	-28.4	-23.7	-19.4	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1

Annex 6 – Turbine Co-ordinates and Topographical Corrections

Topographical (concave ground/ barrier) Noise Prediction Adjustment Table

Notes/Comments

Requirement to include a concave ground profile correction of +3dB has been calculated in accordance with section 4.3.9 of the IOA GPG (July 2011)

A barrier correction of -2dB is included where the landform completely obscures a turbine at the noise assessment location

Where analysis indicates that both are required the barrier correction take precedence and a correction of -2dB is applied

Wind Farm	Hub	SRC_ID	NAL1	NAL2	NAL3	NAL4	NAL5	NAL6	NAL7	NAL8	NAL9	NAL10	NAL11	NAL12	NAL13	NAL14	NAL15	NAL16	NAL17	NAL18	NAL19
Carrownagowan	100	1	-2	-2	-2	-2	-2	-2	-2	3	3	3	3	0	0	0	0	0	-2	-2	-2
Carrownagowan	100	2	-2	-2	-2	-2	-2	-2	-2	3	3	0	0	0	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	3	-2	-2	-2	-2	-2	-2	-2	3	3	3	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Fahy Beg	102.5	21	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Fahy Beg	102.5	22	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Fahy Beg	102.5	23	-2	-2	-2	-2	0	0	0	0	0	-2	-2	-2	-2	-2	-2	-2	-2	0	3
Fahy Beg	102.5	24	-2	-2	-2	-2	0	0	0	0	0	0	-2	-2	-2	-2	-2	-2	0	0	3
Fahy Beg	102.5	25	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Fahy Beg	102.5	26	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	3	3	3
Fahy Beg	102.5	27	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0	0	0	3	0	3	3	3
Lackereagh	102.5	39	-2	-2	-2	-2	-2	-2	-2	3	3	3	3	3	3	0	3	0	0	0	0
Lackereagh	102.5	40	-2	-2	-2	-2	-2	-2	-2	3	3	3	3	3	3	0	0	0	0	0	3
Lackereagh	102.5	41	0	0	3	3	-2	-2	-2	0	0	3	3	0	0	0	0	0	0	3	3
Lackereagh	102.5	42	0	0	0	0	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	3
Lackereagh	102.5	43	0	0	0	0	-2	-2	0	0	0	0	0	0	0	0	0	0	0	3	3
Lackereagh	102.5	44	-2	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	3	3
Lackereagh	102.5	45	-2	0	-2	-2	-2	-2	0	0	0	0	0	0	0	3	0	3	3	3	3

Wind Farm	Hub	SRC_ID	NSR1	NSR2	NSR3	NSR4	NSR5	NSR6	NSR7	NSR8	NSR9	NSR10	NSR11	NSR12	NSR13	NSR14	NSR15	NSR16	NSR17	NSR18	NSR19	NSR20
Carrownagowan	100	1	0	-2	0	0	0	0	-2	0	-2	-2	0	-2	-2	0	0	0	0	-2	-2	0
Carrownagowan	100	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	0	-2	0	0	-2	0	-2	0	-2	-2	0	-2	0	0	0	0	0	0	0	0
Fahy Beg	102.5	21	0	-2	0	0	0	0	-2	0	-2	-2	0	-2	0	0	0	0	0	0	0	0
Fahy Beg	102.5	22	3	-2	0	0	0	0	-2	0	-2	-2	0	-2	0	0	0	0	0	0	0	0
Fahy Beg	102.5	23	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	24	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	25	3	-2	0	0	0	0	-2	0	-2	-2	0	-2	3	0	0	0	0	3	3	0
Fahy Beg	102.5	26	3	-2	0	0	0	0	-2	0	-2	-2	0	-2	3	0	0	0	0	0	0	0
Fahy Beg	102.5	27	3	-2	3	0	0	0	-2	0	-2	-2	0	-2	3	3	0	0	0	0	0	0
Lackereagh	102.5	39	0	-2	3	3	3	3	-2	0	-2	-2	3	-2	0	3	0	3	0	0	0	0
Lackereagh	102.5	40	0	-2	0	0	3	0	-2	0	-2	-2	3	-2	0	0	0	3	0	0	0	0
Lackereagh	102.5	41	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Lackereagh	102.5	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lackereagh	102.5	43	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lackereagh	102.5	44	3	-2	0	0	0	0	-2	0	-2	-2	0	0	3	0	0	0	0	0	0	0
Lackereagh	102.5	45	3	0	3	0	0	0	-2	3	-2	-2	0	-2	3	0	3	0	3	3	3	3

Wind Farm	Hub	SRC_ID	NSR21	NSR22	NSR23	NSR24	NSR25	NSR26	NSR27	NSR28	NSR29	NSR30	NSR31	NSR32	NSR33	NSR34	NSR35	NSR36	NSR37	NSR38	NSR39	NSR40
Carrownagowan	100	1	-2	0	0	0	-2	0	0	0	0	0	-2	0	0	0	0	-2	0	0	0	0
Carrownagowan	100	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	-2
Carrownagowan	100	3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fahy Beg	102.5	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fahy Beg	102.5	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fahy Beg	102.5	23	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	24	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	-2	-2	-2	-2	0	-2	-2	-2	-2
Fahy Beg	102.5	25	3	0	0	0	3	0	0	0	0	0	3	0	0	0	0	3	0	0	0	3
Fahy Beg	102.5	26	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0

Fahy Beg	102.5	27	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0
Lackereagh	102.5	39	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	3	3	0
Lackereagh	102.5	40	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	0
Lackereagh	102.5	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Lackereagh	102.5	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lackereagh	102.5	43	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Lackereagh	102.5	44	3	0	0	0	0	0	0	0	0	0	3	0	0	3	0	3	3	3	0	3
Lackereagh	102.5	45	3	3	3	3	3	3	3	0	3	3	3	3	3	3	3	3	3	3	0	3

Wind Farm	Hub	SRC_ID	NSR41	NSR42	NSR43	NSR44	NSR45	NSR46	NSR47	NSR48	NSR49	NSR50	NSR51	NSR52	NSR53	NSR54	NSR55	NSR56	NSR57	NSR58	NSR59	NSR60
Carrownagowan	100	1	-2	3	-2	-2	-2	-2	-2	0	3	-2	-2	-2	-2	-2	3	-2	-2	-2	-2	-2
Carrownagowan	100	2	-2	0	-2	-2	-2	-2	-2	-2	0	-2	-2	-2	-2	-2	0	-2	-2	-2	-2	-2
Carrownagowan	100	3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	0	0	0	-2	0	3	-2	0	0	0	3	0	0	0	0	-2	0	0	0	0
Fahy Beg	102.5	21	0	0	0	-2	0	3	-2	0	0	0	3	0	0	0	0	-2	0	0	0	0
Fahy Beg	102.5	22	0	0	0	-2	0	3	-2	0	0	0	3	0	0	0	0	-2	0	3	0	0
Fahy Beg	102.5	23	-2	-2	-2	-2	-2	0	-2	-2	-2	-2	3	-2	-2	-2	-2	-2	-2	0	-2	-2
Fahy Beg	102.5	24	0	-2	-2	-2	-2	0	-2	-2	-2	-2	3	0	0	0	-2	-2	0	0	0	0
Fahy Beg	102.5	25	3	0	3	-2	3	3	-2	0	0	3	3	3	3	3	0	-2	3	3	3	3
Fahy Beg	102.5	26	3	0	0	-2	0	3	-2	0	0	0	3	0	0	0	0	-2	0	3	0	3
Fahy Beg	102.5	27	3	0	0	-2	0	3	-2	0	0	0	3	0	0	0	0	-2	0	3	0	0
Lackereagh	102.5	39	0	3	0	-2	0	0	-2	3	3	0	0	0	0	0	3	-2	3	0	3	3
Lackereagh	102.5	40	0	3	0	-2	0	0	-2	3	3	0	0	0	0	0	3	-2	0	0	0	0
Lackereagh	102.5	41	0	3	0	3	0	3	3	0	3	0	3	0	0	0	3	3	0	3	0	0
Lackereagh	102.5	42	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	3	0	0
Lackereagh	102.5	43	3	0	3	3	3	3	3	0	0	3	3	3	3	3	0	0	3	3	3	3
Lackereagh	102.5	44	3	3	3	0	3	3	-2	3	3	3	3	3	3	3	0	-2	3	3	3	3
Lackereagh	102.5	45	3	0	3	0	3	3	0	3	0	3	3	3	3	3	0	-2	3	3	3	3

Wind Farm	Hub	SRC_ID	NSR61	NSR62	NSR63	NSR64	NSR65	NSR66	NSR67	NSR68	NSR69	NSR70	NSR71	NSR72	NSR73	NSR74	NSR75	NSR76	NSR77	NSR78	NSR79	NSR80
Carrownagowan	100	1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	3	-2	-2	3	3	-2	-2	3	-2
Carrownagowan	100	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	-2	-2	0	0	-2	-2	0	-2
Carrownagowan	100	3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	3	3	-2	-2	3	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	-2	-2	-2	0	-2	-2	-2	0	3	-2	0	0	-2	0	0	0	3	3	0	-2
Fahy Beg	102.5	21	-2	-2	-2	0	-2	-2	-2	0	3	-2	0	0	-2	0	0	0	3	3	0	-2
Fahy Beg	102.5	22	-2	-2	-2	3	-2	-2	-2	3	3	-2	3	0	-2	3	0	0	3	3	0	-2
Fahy Beg	102.5	23	-2	-2	-2	0	-2	0	-2	0	3	-2	0	-2	0	0	0	0	3	3	0	0
Fahy Beg	102.5	24	0	-2	-2	0	-2	0	-2	0	3	-2	0	0	0	0	0	0	3	3	0	0
Fahy Beg	102.5	25	-2	-2	-2	3	-2	-2	-2	3	3	-2	3	0	-2	3	0	0	3	3	3	-2
Fahy Beg	102.5	26	-2	-2	-2	3	-2	-2	-2	3	3	-2	3	0	-2	3	0	0	3	3	0	-2
Fahy Beg	102.5	27	-2	-2	-2	3	-2	-2	-2	3	3	-2	3	0	-2	3	0	0	3	3	0	-2
Lackereagh	102.5	39	-2	-2	-2	0	-2	-2	-2	0	3	-2	0	3	-2	0	3	3	0	0	3	-2
Lackereagh	102.5	40	-2	-2	-2	0	-2	-2	-2	0	0	-2	0	3	-2	0	3	3	3	3	3	-2
Lackereagh	102.5	41	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Lackereagh	102.5	42	3	3	3	3	0	3	3	3	3	0	3	0	3	3	0	3	3	3	3	3
Lackereagh	102.5	43	3	0	0	3	0	3	0	3	3	0	3	0	3	3	0	0	3	3	3	3
Lackereagh	102.5	44	0	-2	-2	3	-2	0	-2	3	3	-2	3	3	-2	3	0	3	3	3	3	0
Lackereagh	102.5	45	0	-2	-2	3	-2	0	-2	3	3	-2	3	0	-2	3	0	3	3	3	3	-2

Wind Farm	Hub	SRC_ID	NSR81	NSR82	NSR83	NSR84	NSR85	NSR86	NSR87	NSR88	NSR89	NSR90	NSR91	NSR92	NSR93	NSR94	NSR95	NSR96	NSR97	NSR98	NSR99	NSR100
Carrownagowan	100	1	3	3	3	-2	3	3	-2	3	3	-2	-2	3	-2	-2	-2	3	-2	3	-2	-2
Carrownagowan	100	2	0	0	0	-2	0	0	-2	3	0	-2	-2	3	-2	-2	-2	3	-2	0	-2	-2
Carrownagowan	100	3	3	3	3	-2	3	3	-2	3	3	-2	-2	3	0	-2	0	3	0	0	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	0	0	0	0	0	0	0	0	0	3	0	0	3	0	3	3	0	0	0	0
Fahy Beg	102.5	21	0	0	0	-2	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
Fahy Beg	102.5	22	0	0	0	-2	0	0	0	0	3	3	0	0	3	0	3	3	3	3	0	0
Fahy Beg	102.5	23	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0

Fahy Beg	102.5	24	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Fahy Beg	102.5	25	0	3	0	-2	3	0	0	3	3	3	-2	3	3	0	3	3	3	3	0	0
Fahy Beg	102.5	26	0	0	0	-2	0	0	-2	0	3	3	-2	0	3	-2	3	3	3	3	-2	-2
Fahy Beg	102.5	27	0	0	0	-2	0	0	-2	0	3	3	-2	0	3	-2	3	3	3	3	-2	-2
Lackereagh	102.5	39	3	3	3	-2	3	3	-2	3	3	3	-2	3	0	-2	3	3	3	3	-2	-2
Lackereagh	102.5	40	3	3	3	-2	3	3	-2	3	3	0	-2	3	0	-2	0	3	3	3	-2	-2
Lackereagh	102.5	41	3	3	3	3	3	3	-2	3	3	3	3	3	3	3	3	3	3	3	3	-2
Lackereagh	102.5	42	3	3	3	3	3	3	-2	3	3	3	3	3	3	3	3	3	3	3	3	-2
Lackereagh	102.5	43	0	3	0	3	3	0	-2	3	3	3	3	3	3	3	3	3	3	3	3	-2
Lackereagh	102.5	44	3	3	3	-2	3	3	-2	3	3	3	0	3	3	-2	3	3	3	3	-2	-2
Lackereagh	102.5	45	3	3	3	-2	3	3	-2	3	3	3	-2	3	3	-2	3	3	3	3	-2	-2

Wind Farm	Hub	SRC_ID	NSR101	NSR102	NSR103	NSR104	NSR105	NSR106	NSR107	NSR108	NSR109	NSR110	NSR111	NSR112	NSR113	NSR114	NSR115	NSR116	NSR117	NSR118	NSR119	NSR120
Carrownagowan	100	1	-2	-2	3	3	3	-2	-2	-2	-2	3	3	3	3	-2	3	-2	-2	-2	-2	3
Carrownagowan	100	2	-2	-2	3	0	3	-2	-2	-2	-2	3	3	3	3	-2	3	-2	-2	-2	-2	3
Carrownagowan	100	3	0	-2	3	0	3	-2	-2	-2	-2	3	3	3	3	-2	3	-2	-2	-2	-2	3
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	3	3	3	0
Fahy Beg	102.5	21	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	3	3	3	0
Fahy Beg	102.5	22	0	0	3	3	0	0	0	0	3	0	3	0	3	0	0	0	3	3	3	3
Fahy Beg	102.5	23	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	3	3	0
Fahy Beg	102.5	24	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	3	3	3	0
Fahy Beg	102.5	25	3	0	3	3	0	0	0	0	3	3	3	0	3	0	3	0	3	3	3	3
Fahy Beg	102.5	26	3	-2	3	3	0	-2	-2	-2	3	0	3	0	3	-2	3	-2	3	3	3	3
Fahy Beg	102.5	27	3	-2	3	3	0	-2	-2	-2	3	0	3	0	3	-2	0	-2	3	3	3	3
Lackereagh	102.5	39	3	-2	3	3	3	-2	-2	-2	3	3	3	3	3	-2	3	-2	3	3	3	3
Lackereagh	102.5	40	3	-2	3	3	3	-2	-2	-2	3	3	3	3	3	-2	3	-2	3	0	3	3
Lackereagh	102.5	41	3	3	3	3	0	3	3	3	3	3	3	0	3	3	3	3	3	3	3	3
Lackereagh	102.5	42	3	3	3	3	0	3	3	3	3	3	3	0	3	-2	3	3	3	3	3	3
Lackereagh	102.5	43	3	3	3	3	0	3	3	3	3	3	3	0	3	-2	3	3	3	3	3	3
Lackereagh	102.5	44	3	-2	3	3	0	-2	0	0	3	3	3	0	3	-2	3	-2	3	3	3	3
Lackereagh	102.5	45	3	-2	3	3	0	-2	-2	-2	3	3	3	0	3	-2	3	-2	3	3	3	3

Wind Farm	Hub	SRC_ID	NSR121	NSR122	NSR123	NSR124	NSR125	NSR126	NSR127	NSR128	NSR129	NSR130	NSR131	NSR132	NSR133	NSR134	NSR135	NSR136	NSR137	NSR138	NSR139	NSR140
Carrownagowan	100	1	-2	3	-2	-2	3	-2	-2	-2	-2	3	-2	-2	3	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	2	-2	3	-2	-2	3	-2	-2	-2	-2	3	-2	-2	3	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	3	-2	3	-2	-2	3	-2	-2	-2	-2	3	-2	-2	3	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	-2	-2	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	21	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	22	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	23	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	24	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	25	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	26	3	3	0	0	0	0	0	-2	0	0	0	0	0	3	0	0	3	0	0	0
Fahy Beg	102.5	27	3	3	-2	-2	0	0	0	-2	-2	0	0	0	0	3	0	-2	3	0	0	0
Lackereagh	102.5	39	3	3	-2	-2	3	-2	-2	-2	-2	3	-2	-2	3	3	-2	-2	3	-2	-2	-2
Lackereagh	102.5	40	3	3	-2	-2	3	-2	-2	-2	-2	3	-2	-2	3	3	-2	-2	3	-2	-2	-2
Lackereagh	102.5	41	3	3	3	3	0	0	-2	3	-2	0	3	0	0	3	-2	-2	3	0	3	0
Lackereagh	102.5	42	3	3	-2	-2	0	-2	-2	3	-2	0	0	-2	0	3	-2	-2	3	-2	0	0
Lackereagh	102.5	43	3	3	0	-2	0	0	0	3	-2	0	0	0	0	3	0	0	3	0	0	0
Lackereagh	102.5	44	3	3	-2	-2	0	-2	-2	-2	-2	0	-2	-2	0	3	-2	-2	3	-2	-2	-2
Lackereagh	102.5	45	3	3	-2	-2	0	0	0	-2	-2	0	-2	0	0	3	0	-2	3	0	-2	0

Wind Farm	Hub	SRC_ID	NSR141	NSR142	NSR143	NSR144	NSR145	NSR146	NSR147	NSR148	NSR149	NSR150	NSR151	NSR152	NSR153	NSR154	NSR155	NSR156	NSR157	NSR158	NSR159	NSR160
Carrownagowan	100	1	-2	3	-2	-2	3	-2	-2	3	-2	-2	-2	-2	-2	3	-2	-2	-2	-2	-2	-2
Carrownagowan	100	2	-2	3	-2	-2	3	-2	-2	3	-2	-2	-2	3	-2	3	-2	-2	-2	-2	-2	-2
Carrownagowan	100	3	-2	3	-2	-2	3	-2	-2	3	-2	0	-2	3	-2	3	-2	-2	-2	-2	-2	-2
Carrownagowan	100	4	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	-2	-2	-2	3	-2	0	-2	-2	-2	-2
Carrownagowan	100	5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	3	-2	-2	-2	-2	-2	-2
Carrownagowan	100	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	8	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	9	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	11	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	12	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	13	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	14	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	15	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	16	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	17	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	18	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Carrownagowan	100	19	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Fahy Beg	102.5	20	0	0	0	3	0	0	3	0	0	-2	3	3	0	-2	0	3	3	0	0	0

Fahy Beg	102.5	21	0	0	0	0	0	0	0	0	0	-2	0	0	0	-2	0	3	0	0	0	0
Fahy Beg	102.5	22	0	0	0	0	0	0	0	3	0	-2	0	3	0	-2	0	3	0	0	0	0
Fahy Beg	102.5	23	0	0	0	3	0	0	3	0	0	-2	3	0	0	-2	0	3	3	0	0	0
Fahy Beg	102.5	24	0	0	0	3	0	0	3	0	0	-2	3	0	3	-2	0	3	3	0	3	0
Fahy Beg	102.5	25	0	3	0	0	0	0	3	3	0	-2	3	3	0	-2	0	3	3	0	0	0
Fahy Beg	102.5	26	0	0	0	0	0	0	0	3	0	-2	0	3	0	-2	0	3	0	0	0	0
Fahy Beg	102.5	27	0	0	0	-2	0	0	-2	3	0	-2	-2	3	-2	-2	0	3	-2	0	-2	0
Lackereagh	102.5	39	-2	3	-2	-2	3	-2	-2	3	-2	3	-2	3	-2	3	-2	3	-2	-2	-2	-2
Lackereagh	102.5	40	-2	3	-2	-2	3	-2	-2	3	-2	3	-2	3	-2	3	-2	3	-2	-2	-2	-2
Lackereagh	102.5	41	0	0	0	3	0	0	3	3	0	3	3	3	3	3	3	3	3	-2	3	0
Lackereagh	102.5	42	0	0	-2	3	0	-2	3	3	0	3	3	3	3	3	0	3	3	3	3	0
Lackereagh	102.5	43	0	0	0	3	0	0	3	3	0	3	3	3	3	3	0	3	3	0	3	0
Lackereagh	102.5	44	-2	0	-2	0	0	-2	0	3	-2	3	0	3	-2	3	-2	3	0	-2	-2	-2
Lackereagh	102.5	45	0	0	0	-2	0	0	-2	3	0	3	-2	3	-2	3	-2	3	-2	0	0	0

Noise Source Reference Table

SRC_ID	Wind Farm	X	Y	Hub Height (m)	Tip Height (m)
1	Carrownagowan	559385	675575	100.0	169.0
2	Carrownagowan	559850	676030	100.0	169.0
3	Carrownagowan	560484	675908	100.0	169.0
4	Carrownagowan	561137	675897	100.0	169.0
5	Carrownagowan	560394	676494	100.0	169.0
6	Carrownagowan	561109	676437	100.0	169.0
7	Carrownagowan	561881	676649	100.0	169.0
8	Carrownagowan	562533	676815	100.0	169.0
9	Carrownagowan	561098	676928	100.0	169.0
10	Carrownagowan	561800	677115	100.0	169.0
11	Carrownagowan	562539	677308	100.0	169.0
12	Carrownagowan	563149	677146	100.0	169.0
13	Carrownagowan	563650	677042	100.0	169.0
14	Carrownagowan	563431	677641	100.0	169.0
15	Carrownagowan	562982	677858	100.0	169.0
16	Carrownagowan	562556	678103	100.0	169.0
17	Carrownagowan	561903	677741	100.0	169.0
18	Carrownagowan	561234	677472	100.0	169.0
19	Carrownagowan	561435	678011	100.0	169.0
20	Fahy Beg	564173	670389	102.5	176.5
21	Fahy Beg	563873	669578	102.5	176.5
22	Fahy Beg	563748	669961	102.5	176.5
23	Fahy Beg	564592	670293	102.5	176.5
24	Fahy Beg	564516	670702	102.5	176.5
25	Fahy Beg	563792	670570	102.5	176.5
26	Fahy Beg	563247	670311	102.5	176.5
27	Fahy Beg	563040	670615	102.5	176.5
39	Lackereagh	562207	673988	102.5	180.0
40	Lackereagh	562283	673588	102.5	180.0
41	Lackereagh	564015	673305	102.5	180.0
42	Lackereagh	563865	672753	102.5	180.0
43	Lackereagh	563990	672374	102.5	180.0
44	Lackereagh	563315	672290	102.5	180.0
45	Lackereagh	563402	671882	102.5	180.0

Annex 7 – Summary of Wind Turbine Noise Source Data

Wind Turbine Noise Data assumptions

Table A7.1: Sound Power Level Data

Wind Farm	Turbine	Hub height	Added Uncertainty	Reference Wind Speed (ms^{-1}) Standardised to 10m Height									
				3	4	5	6	7	8	9	10	11	12
Lackereagh	Vestas V150 6.0 MW with Serrated Blades	105	2	Restricted / NDA - data available on request									
Lackereagh	Nordex N149 5.7 MW with Serrated Blades	105	2	Restricted / NDA - data available on request									
Lackereagh	Siemens Gamesa SG 6.0-155 6.6 MW	102.5	2	Restricted / NDA - data available on request									
Carrownagowan	Nordex N133 4.8 MW with Serrated Blades	100	2	-	96.9	102.3	106.0	106.5	106.5	106.5	106.5	106.5	106.5
Fahy Beg	Nordex N133 4.8 MW with Serrated Blades	110	2	95	97.0	102.6	106.3	106.5	106.5	106.5	106.5	106.5	106.5

Table A7.2: Octave Band Data

Wind Farm	Turbine	Reference Wind Speed (m/s)	Octave Band (Hz)							
			63	125	250	500	1000	2000	4000	8000	Overall
Lackereagh	Vestas V150 6.0 MW with Serrated Blades	Restricted / NDA - data available on request									
Lackereagh	Nordex N149 5.7 MW with Serrated Blades	Restricted / NDA - data available on request									
Lackereagh	Siemens Gamesa SG 6.0-155 6.6 MW	Restricted / NDA - data available on request									
Carrownagowan	Nordex N133 4.8 MW with Serrated Blades	7	88.2	95.2	99	99.9	100.4	99.1	94.8	85.6	106.5
Fahy Beg	Nordex N133 4.8 MW with Serrated Blades	7	88.2	95.2	99	99.9	100.4	99.1	94.8	85.6	106.5

Annex 8 –Suggested Noise Condition

Noise

1) The rating level of noise immission from the combined effects of the wind turbines hereby permitted (including the application of any tonal penalty), when determined in accordance with the attached Guidance Notes, shall not exceed the values for the relevant integer wind speeds set out in or derived from Tables 1 and 2 attached to these conditions and:

    A) Prior to the First Export Date, the wind farm operator shall submit to the Local Authority for written approval a list of proposed independent consultants who may undertake compliance measurements in accordance with this condition. Amendments to the list of approved consultants shall be made only with the prior written approval of the Local Authority.

    B) Within 21 days from receipt of a written request of the Local Authority, following a complaint to it alleging noise disturbance at a dwelling, the wind farm operator shall, at its expense, employ an independent consultant approved by the Local Authority to assess the level of noise immission from the wind farm at the complainant's property (or a suitable alternative location agreed in writing with the Local Authority) in accordance with the procedures described in the attached Guidance Notes. The written request from the Local Authority shall set out at least the date, time and location that the complaint relates to. Within 14 days of receipt of the written request of the Local Authority made under this paragraph (B), the wind farm operator shall provide the information relevant to the complaint logged in accordance with paragraph (H) to the Local Authority in the format set out in Guidance Note 1(e).

    C) Where there is more than one property at a location specified in Tables 1 and 2 attached to this condition, the noise limits set for that location shall apply to all dwellings at that location. Where a dwelling to which a complaint is related is not identified by name or location in the Tables attached to these conditions, the wind farm operator shall submit to the Local Authority for written approval proposed noise limits selected from those listed in the Tables to be adopted at the complainant's dwelling for compliance checking purposes. The proposed noise limits are to be those limits selected from the Tables specified for a listed location which the independent consultant considers as being likely to experience the most similar background noise environment to that experienced at the complainant's dwelling. The submission of the proposed noise limits to the Local Authority shall include a written justification of the choice of the representative background noise environment provided by the independent consultant. The rating level of noise immission resulting from the combined effects of the wind turbines when determined in accordance with the attached Guidance Notes shall not exceed the noise limits approved in writing by the Local Authority for the complainant's dwelling.

    D) Prior to the commencement of any measurements by the independent consultant to be undertaken in accordance with these conditions, the wind farm operator shall submit to the Local Authority for written approval the proposed measurement location identified in accordance with the Guidance Notes where measurements for compliance checking purposes shall be undertaken. Where the proposed measurement location is close to the wind turbines, rather than at the complainants property (to improve the signal to noise ratio), then the operators submission shall include a method to calculate the noise level from the wind turbines at the complainants property based on the noise levels measured at the agreed location (the alternative method). Details of the alternative method together with any associated guidance notes deemed necessary, shall be submitted to and agreed in writing by

the Local Authority prior to the commencement of any measurements. Measurements to assess compliance with the noise limits set out in the Tables attached to these conditions or approved by the Local Authority pursuant to paragraph (C) of this condition shall be undertaken at the measurement location approved in writing by the Local Authority.

E) Prior to the submission of the independent consultant's assessment of the rating level of noise immission pursuant to paragraph (F) of this condition, the wind farm operator shall submit to the Local Authority for written approval a proposed assessment protocol setting out the following:

i) the range of meteorological and operational conditions (the range of wind speeds, wind directions, power generation and times of day) to determine the assessment of rating level of noise immission.

ii) a reasoned assessment as to whether the noise giving rise to the complaint contains or is likely to contain a tonal component.

The proposed range of conditions shall be those which prevailed during times when the complainant alleges there was disturbance due to noise, having regard to the information provided in the written request of the Local Authority under paragraph (B), and such others as the independent consultant considers necessary to fully assess the noise at the complainant's property. The assessment of the rating level of noise immission shall be undertaken in accordance with the assessment protocol approved in writing by the Local Authority and the attached Guidance Notes.

F) The wind farm operator shall provide to the Local Authority the independent consultant's assessment of the rating level of noise immission undertaken in accordance with the Guidance Notes within 2 months of the date of the written request of the Local Authority made under paragraph (B) of this condition unless the time limit is extended in writing by the Local Authority. The assessment shall include all data collected for the purposes of undertaking the compliance measurements, such data to be provided in the format set out in Guidance Note 1(e) of the Guidance Notes. The instrumentation used to undertake the measurements shall be calibrated in accordance with Guidance Note 1(a) and certificates of calibration shall be submitted to the Local Authority with the independent consultant's assessment of the rating level of noise immission.

G) Where a further assessment of the rating level of noise immission from the wind farm is required pursuant to Guidance Note 4(c) of the attached Guidance Notes, the wind farm operator shall submit a copy of the further assessment within 21 days of submission of the independent consultant's assessment pursuant to paragraph (F) above unless the time limit for the submission of the further assessment has been extended in writing by the Local Authority.

H) The wind farm operator shall continuously log power production, wind speed and wind direction, all in accordance with Guidance Note 1(d) of the attached Guidance Notes. The data shall be retained for a period of not less than 24 months. The wind farm operator shall provide this information in the format set out in Guidance Note 1(e) of the attached Guidance Notes to the Local Authority on its request within 14 days of receipt in writing of such a request.

Note: For the purposes of this condition, a "dwelling" is a residential building which lawfully exists or had planning permission at the date of this permission.

Table 1 - Between 07:00 and 23:00 - Noise level dB $L_{A90, 10\text{-minute}}$

Location (easting, northing grid coordinates)	Standardised wind speed at 10 metres height (m/s) within the site averaged over 10-minute periods											
	1	2	3	4	5	6	7	8	9	10	11	12
	L_{A90} Decibel Levels											
NAL1 (564702 ,673649)	40	40	45	45	45	45	45	45	45	45	45	45
NAL2 (564689 ,673091)	45	45	45	45	45	45	45	45	45	45	46	46
NAL3 (564759 ,672513)	45	45	45	45	45	45	45	45	45	45	46	48
NAL4 (565439 ,671960)	45	45	45	45	45	45	45	45	45	45	45	48
NAL5 (565486 ,671238)	45	45	45	45	45	45	45	45	45	45	45	48
NAL6 (565226 ,670667)	45	45	45	45	44	43	43	43	43	43	43	47
NAL7 (564748 ,669620)	45	45	45	45	44	42	42	42	42	42	42	47
NAL8 (563181 ,669141)	45	45	45	45	45	44	43	43	43	43	44	46
NAL9 (562940 ,669710)	45	45	45	45	44	42	35	35	35	35	43	45
NAL10 (562417 ,670511)	45	45	45	45	44	43	43	43	43	43	44	45
NAL11 (562467 ,670972)	45	45	45	45	45	43	43	43	43	43	44	46
NAL12 (562401 ,671529)	45	45	45	45	45	45	45	45	45	45	46	47
NAL13 (562540 ,671813)	45	45	45	45	45	45	45	45	45	45	46	47
NAL14 (562288 ,672235)	45	45	45	45	45	45	45	45	45	45	46	47
NAL15 (562790 ,672791)	45	45	45	45	45	45	45	45	45	45	45	45
NAL16 (562253 ,672814)	45	45	45	45	45	45	45	45	45	45	45	45
NAL17 (561663 ,673086)	45	45	45	45	45	45	45	45	45	47	49	51
NAL18 (561078 ,673791)	45	45	45	45	45	45	45	45	45	47	49	51
NAL19 (560491 ,674179)	45	45	45	45	45	45	45	45	45	47	49	51

Table 2 - Between 23:00 and 07:00 - Noise level dB $L_{A90, 10\text{-minute}}$

Location (easting, northing grid coordinates)	Standardised wind speed at 10 metres height (m/s) within the site averaged over 10-minute periods											
	1	2	3	4	5	6	7	8	9	10	11	12
	L_{A90} Decibel Levels											
NAL1 (564702 ,673649)	43	43	43	43	43	43	43	43	43	43	43	43
NAL2 (564689 ,673091)	43	43	43	43	43	43	43	43	44	45	45	45
NAL3 (564759 ,672513)	43	43	43	43	43	43	43	43	43	44	44	44
NAL4 (565439 ,671960)	43	43	43	43	43	43	43	43	43	43	43	43
NAL5 (565486 ,671238)	43	43	43	43	43	42	42	42	42	42	42	42
NAL6 (565226 ,670667)	43	43	43	43	42	33	33	33	33	33	33	33
NAL7 (564748 ,669620)	43	43	43	43	41	33	33	33	33	33	33	33
NAL8 (563181 ,669141)	43	43	43	43	42	40	33	33	33	33	33	33
NAL9 (562940 ,669710)	43	43	43	43	41	33	33	33	33	33	33	33
NAL10 (562417 ,670511)	43	43	43	43	42	33	33	33	33	33	33	33
NAL11 (562467 ,670972)	43	43	43	43	42	40	33	33	33	33	33	33
NAL12 (562401 ,671529)	43	43	43	43	43	42	42	42	42	42	42	42
NAL13 (562540 ,671813)	43	43	43	43	43	43	42	42	42	42	42	42

Location (easting, northing grid coordinates)	Standardised wind speed at 10 metres height (m/s) within the site averaged over 10-minute periods											
	1	2	3	4	5	6	7	8	9	10	11	12
NAL14 (562288 ,672235)	43	43	43	43	43	43	43	43	43	43	43	43
NAL15 (562790 ,672791)	43	43	43	43	43	43	43	43	43	46	46	46
NAL16 (562253 ,672814)	43	43	43	43	43	43	43	43	43	46	46	46
NAL17 (561663 ,673086)	43	43	43	43	43	43	43	43	44	46	46	46
NAL18 (561078 ,673791)	43	43	43	43	43	43	43	43	44	46	46	46
NAL19 (560491 ,674179)	43	43	43	43	43	43	43	43	44	46	46	46

Note to Tables 1 & 2: The geographical coordinates references set out in these tables are provided for the purpose of identifying the general location of dwellings to which a given set of noise limits applies. The standardised wind speed at 10 metres height within the site refers to wind speed at 10 metres height derived from those measured at hub height, calculated in accordance with the method given in the Guidance Notes.

Note 2 to Tables 1 and 2: Any update to the noise limits shall be submitted to and approved in writing by, the Planning Authority. The development shall operate in accordance with the limits contained in this Condition unless the Planning Authority gives it written consent to an updated set of noise limits.

Guidance Notes for Noise Condition

These notes are to be read with and form part of the noise condition. They further explain the condition and specify the methods to be employed in the assessment of complaints about noise immission from the wind farm. The rating level at each integer wind speed is the arithmetic sum of the wind farm noise level as determined from the best-fit curve described in Note 2 of these Guidance Notes and any tonal penalty applied in accordance with Note 3 with any necessary correction for residual background noise levels in accordance with Note 4. Reference to ETSU-R-97 refers to the publication entitled "The Assessment and Rating of Noise from Wind Farms" (1997) published by the Energy Technology Support unit (ETSU) for the Department of Trade and Industry (DTI).

Note 1

(a) Values of the $L_{A90,10\text{-minute}}$ noise statistic should be measured at the complainant's property (or an approved alternative representative location as detailed in Note 1(b)), using a sound level meter of EN 60651/BS EN 60804 Type 1, or BS EN 61672 Class 1 quality (or the equivalent UK adopted standard in force at the time of the measurements) set to measure using the fast time weighted response as specified in BS EN 60651/BS EN 60804 or BS EN 61672-1 (or the equivalent UK adopted standard in force at the time of the measurements). This should be calibrated before and after each set of measurements, using a calibrator meeting BS EN 60945:2003 "Electroacoustics – sound calibrators" Class 1 with PTB Type Approval (or the equivalent UK adopted standard in force at the time of the measurements) and the results shall be recorded. Measurements shall be undertaken in such a manner to enable a tonal penalty to be calculated and applied in accordance with Guidance Note 3.

(b) The microphone shall be mounted at 1.2 - 1.5 metres above ground level, fitted with a two-layer windshield or suitable equivalent approved in writing by the Local Authority, and placed outside the complainant's dwelling. Measurements should be made in "free field" conditions. To achieve this, the microphone shall be placed at least 3.5 metres away from the building facade or any reflecting surface except the ground at the approved measurement location. In the event that the consent of the complainant for access to his or her property to undertake compliance measurements is withheld, the wind farm operator shall submit for the written approval of the Local Authority details of the proposed alternative representative measurement location prior to the commencement of measurements and the measurements shall be undertaken at the approved alternative representative measurement location.

(c) The $L_{A90,10\text{-minute}}$ measurements should be synchronised with measurements of the 10-minute arithmetic mean wind speed and wind direction data and with operational data logged in accordance with Guidance Note 1(d) and rain data logged in accordance with Note 1(f).

(d) To enable compliance with the conditions to be evaluated, the wind farm operator shall continuously log arithmetic mean wind speed in metres per second (m/s) and arithmetic mean wind direction in degrees from north in each successive 10-minutes period in a manner to be agreed in writing with the planning authority. Each 10 minute arithmetic average mean wind speed data as measured or calculated at turbine hub height shall be 'standardised' to a reference height of 10 metres as described in ETSU-R-97 at page 120 using a reference roughness length of 0.05 metres. It is this standardised 10 metre height wind speed data which is correlated with the noise measurements determined as valid in accordance with Note 2(b), such correlation to be undertaken in the manner described in Note 2(c). All 10-minute periods shall commence on the hour and in 10-minute increments thereafter synchronised with Greenwich Mean Time and adjusted to British Summer Time where necessary.

(e) Data provided to the Local Authority in accordance with paragraphs (E) (F) (G) and (H) of the noise condition shall be provided in comma separated values in electronic format with the exception of data collected to asses tonal noise (if required) which shall be provided in a format to be agreed in writing with the Local Authority.

(f) A data logging rain gauge shall be installed in the course of the independent consultant undertaking an assessment of the level of noise immission. The gauge shall record over successive 10-minute periods synchronised with the periods of data recorded in accordance with Note 1(d).

Note 2

(a) The noise measurements should be made so as to provide not less than 20 valid data points as defined in Note 2 paragraph (b).

(b) Valid data points are those measured during the conditions set out in the assessment protocol approved by the Local Authority under paragraph (E) of the noise condition but excluding any periods of rainfall measured in accordance with Note 1(f).

(c) Values of the $L_{A90,10\text{-minute}}$ noise measurements and corresponding values of the 10-minute standardised ten metre height wind speed for those data points considered valid in accordance with Note 2(b) shall be plotted on an XY chart with noise level on the Y-axis and wind speed on the X-axis. A least squares, "best fit" curve of an order deemed appropriate by the independent consultant (but which may not be higher than a fourth order) shall be fitted to the data points to define the wind farm noise level at each integer speed.

Note 3

(a) Where, in accordance with the approved assessment protocol under paragraph (E) of the noise condition, noise immission at the location or locations where compliance measurements are being undertaken contain or are likely to contain a tonal component, a tonal penalty shall be calculated and applied using the following rating procedure.

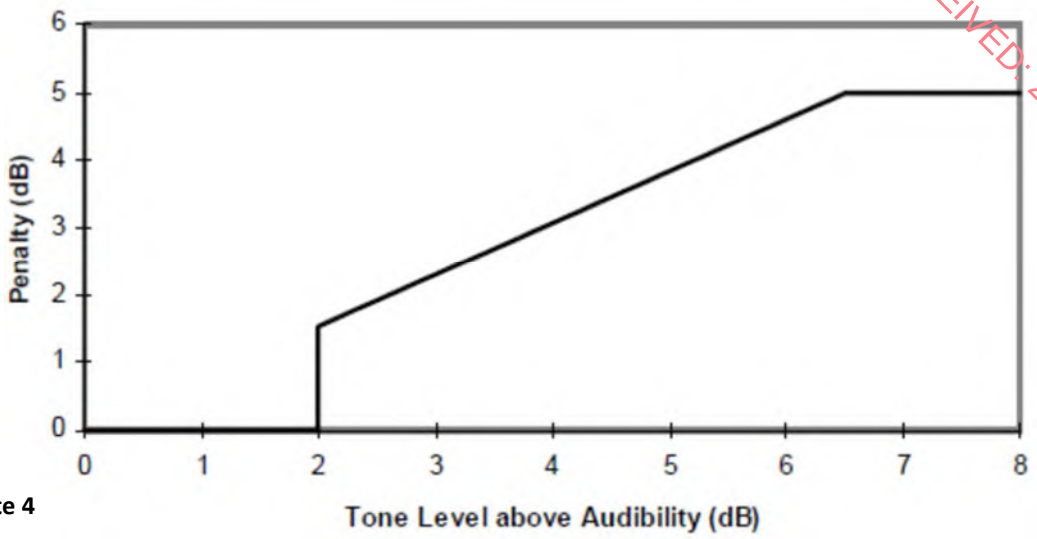
(b) For each 10-minute interval for which $L_{A90,10\text{-minute}}$ data have been determined as valid in accordance with Note 2, a tonal assessment shall be performed on noise immission during 2-minutes of each 10-minute period. The 2-minute periods should be spaced at 10-minute intervals provided that uninterrupted uncorrupted data are available ("the standard procedure"). Where uncorrupted data are not available, the first available uninterrupted clean 2-minute period out of the affected overall 10-minute period shall be selected. Any such deviations from the standard procedure shall be reported.

(c) For each of the 2-minute samples the tone level above audibility shall be calculated by comparison with the audibility criterion given in Section 2.1 on pages 104 -109 of ETSU-R-97.

(d) The tone level above audibility shall be plotted against wind speed for each of the 2-minute samples. Samples for which the tones were below the audibility criterion or no tone was identified, a value of zero audibility shall be substituted.

(e) A least squares "best fit" linear regression shall then be performed to establish the average tone level above audibility for each integer wind speed derived from the value of the "best fit" line fitted to values within ± 0.5m/s of each integer wind speed. If there is no apparent trend with wind speed then a simple arithmetic mean shall be used. This process shall be repeated for each integer wind speed for which there is an assessment of overall levels in Note 2.

(f) The tonal penalty is derived from the margin above audibility of the tone according to the figure below derived from the average tone level above audibility for each integer wind speed.



Note 4

(a) If a tonal penalty is to be applied in accordance with Note 3 the rating level of the turbine noise at each wind speed is the arithmetic sum of the measured noise level as determined from the best fit curve described in Note 2 and the penalty for tonal noise as derived in accordance with Note 3 at each integer wind speed within the range set out in the approved assessment protocol under paragraph (E) of the noise condition.

(b) If no tonal penalty is to be applied then the rating level of the turbine noise at each wind speed is equal to the measured noise level as determined from the best fit curve described in Note 2.

(c) If the rating level at any integer wind speed lies at or below the values set out in the Tables attached to the conditions or at or below the noise limits approved by the Local Authority for a complainant's dwelling in accordance with paragraph (C) of the noise condition then no further action is necessary. In the event that the rating level is above the limit(s) set out in the Tables attached to the noise conditions or the noise limits for a complainant's dwelling approved in accordance with paragraph (C) of the noise condition, the independent consultant shall undertake a further assessment of the rating level to correct for background noise so that the rating level relates to wind turbine noise immission only.

(d) The wind farm operator shall ensure that all the wind turbines in the development are turned off for such period as the independent consultant requires to undertake the further assessment. The further assessment shall be undertaken in accordance with the following steps:

i. Repeating the steps in Note 2, with the wind farm switched off, and determining the background noise (L_3) at each integer wind speed within the range set out in the approved noise assessment protocol under paragraph (E) of this condition.

ii. The wind farm noise (L_1) at this speed shall then be calculated as follows where L_2 is the measured level with turbines running but without the addition of any tonal penalty:

$$L_1 = 10\log\left[10^{L_2/10} - 10^{L_3/10}\right]$$

iii. The rating level shall be re-calculated by adding the tonal penalty (if any is applied in accordance with Note 3) to the derived wind farm noise L_1 at that integer wind speed.

iv. If the rating level after adjustment for background noise contribution and adjustment for tonal penalty (if required in accordance with note (iii) above) at any integer wind speed lies at or below the values set out in the Tables attached to the conditions or at or below the

noise limits approved by the Local Authority for a complainant's dwelling in accordance with paragraph (C) of the noise condition then no further action is necessary. If the rating level at any integer wind speed exceeds the values set out in the Tables attached to the conditions or the noise limits approved by the Local Authority for a complainant's dwelling in accordance with paragraph (C) of the noise condition then the development fails to comply with the conditions.