



View from Triton, looking East



View from Triton, looking South-east



View from Triton, looking South



View from Triton, looking South-west



View from Triton, looking West



View from Triton, looking North-west



View towards Triton, looking South



View towards Triton, looking South-west



View towards Triton, looking West



View towards Triton, looking North-west



View towards Triton, looking North



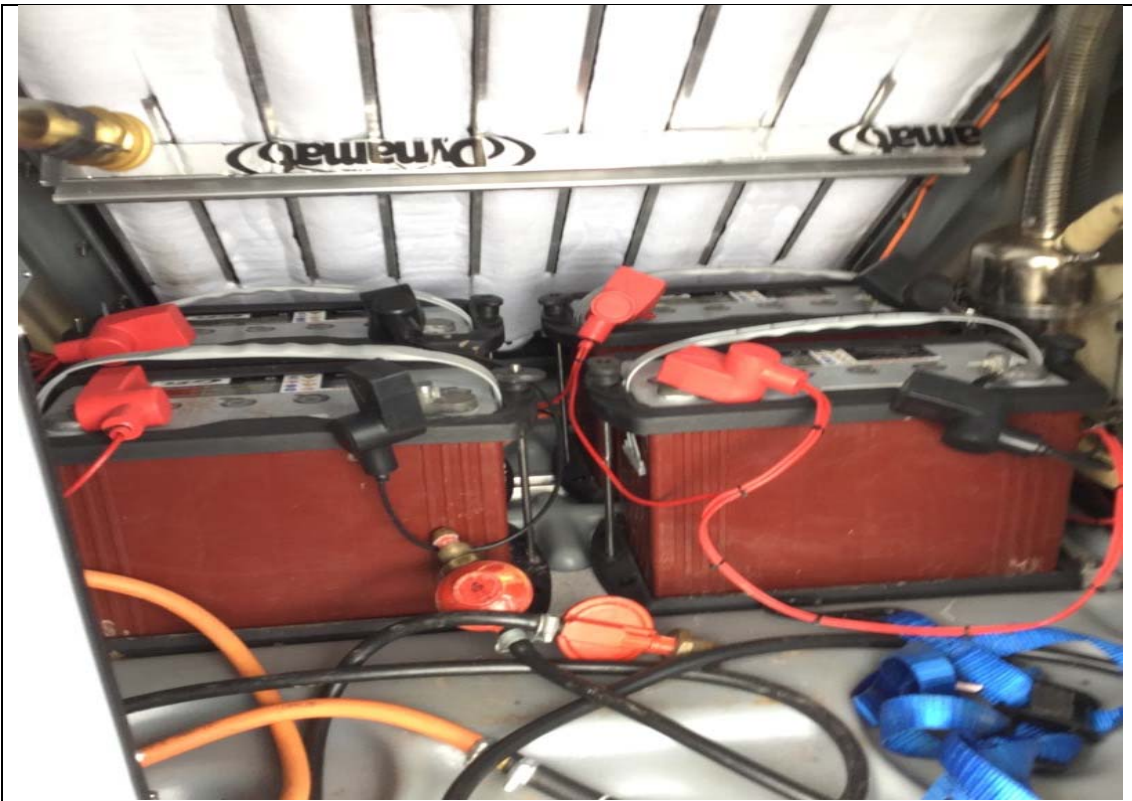
View towards Triton, looking North-east



View towards Triton, looking East



View towards Triton, South-east



Batteries



PV Module: Front



PV Module: Back



PV Junction Box Wiring

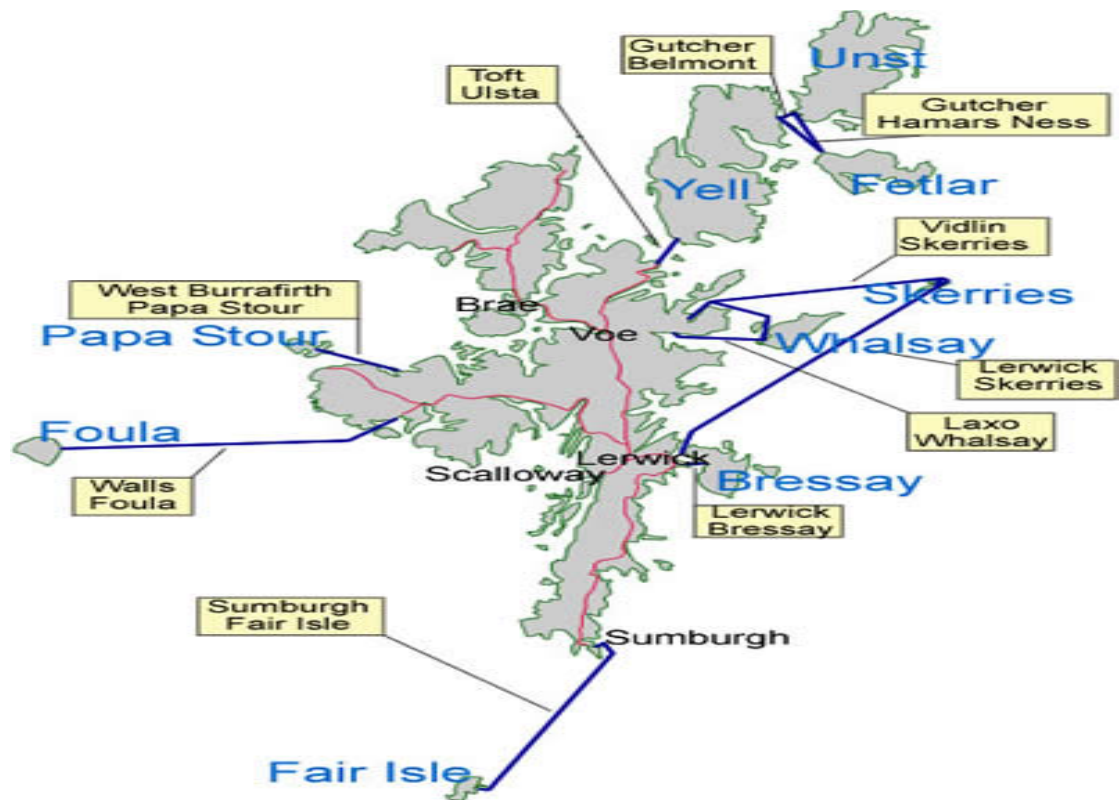


Anchoring system



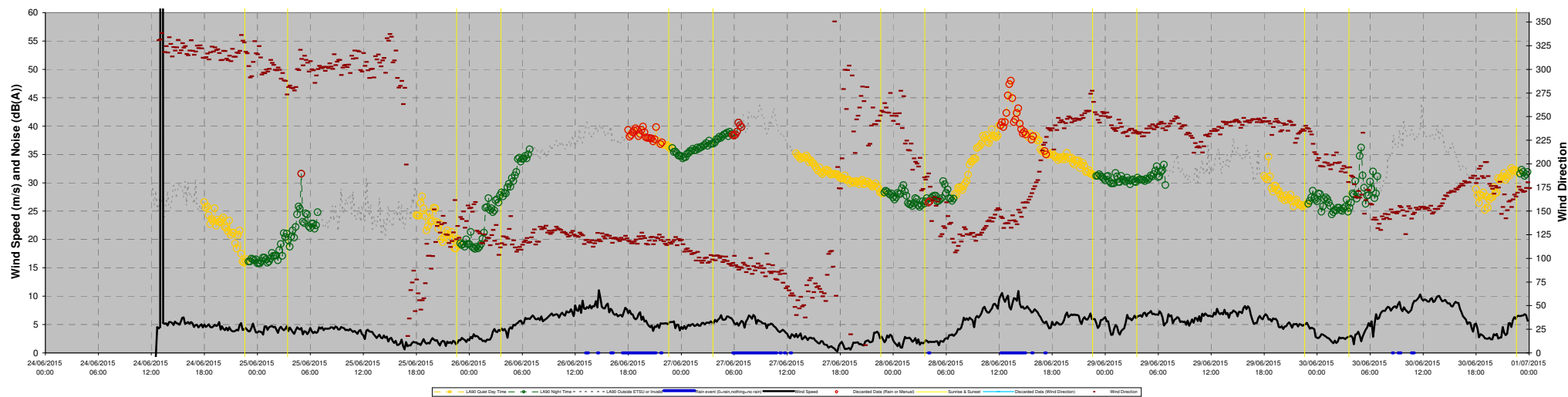
Fencing System

Access Route

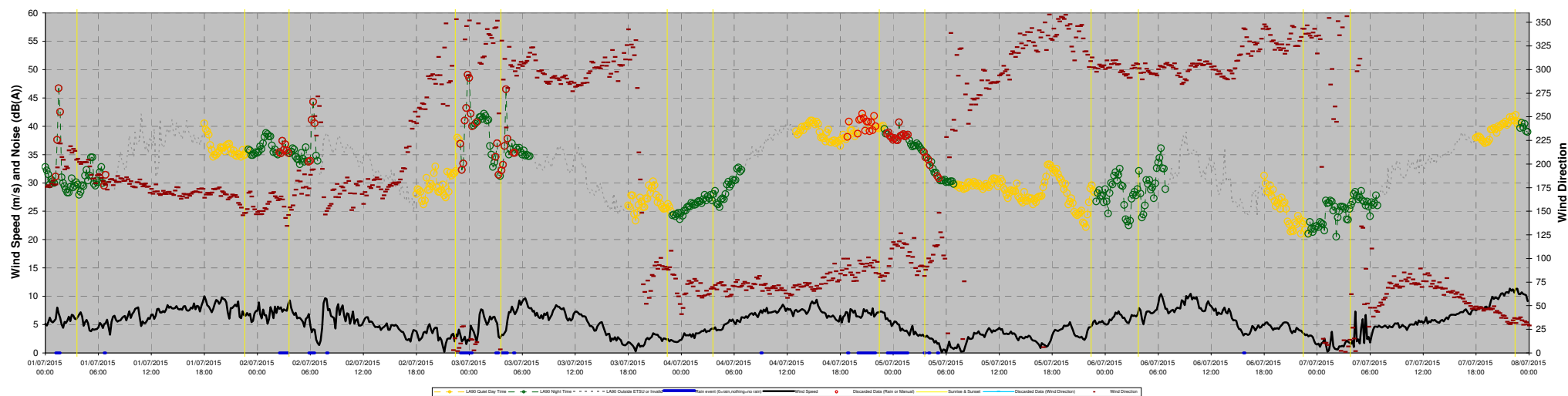


ANNEX 6 - Time Histories

24/06/2015 to 01/07/2015



01/07/2015 to 08/07/2015



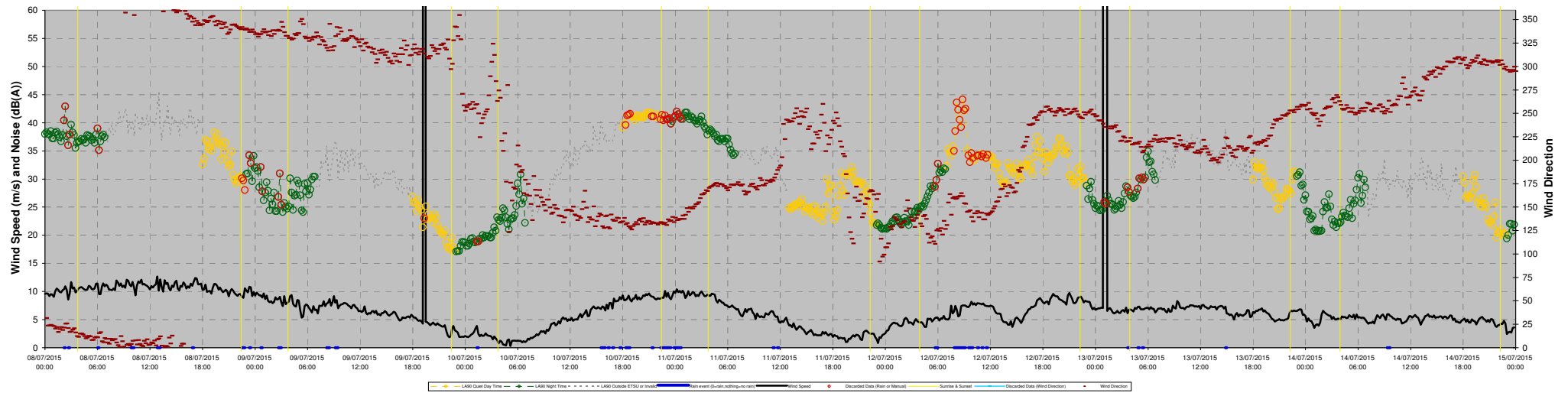
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

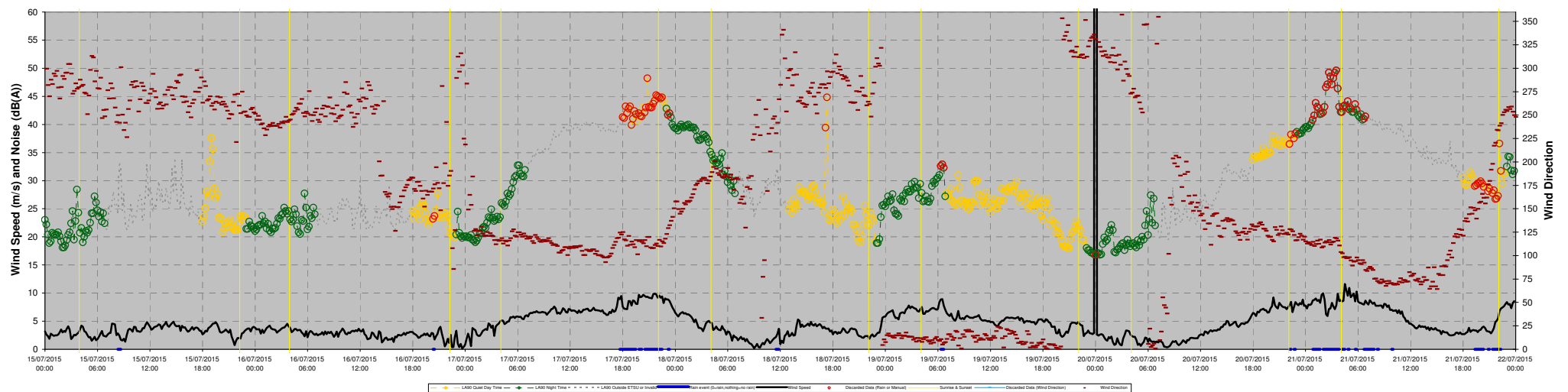
Title Time Serie for H1 - Lower Holligarth Page 1 of 3

Date 15/10/2015

08/07/2015 to 15/07/2015



15/07/2015 to 22/07/2015



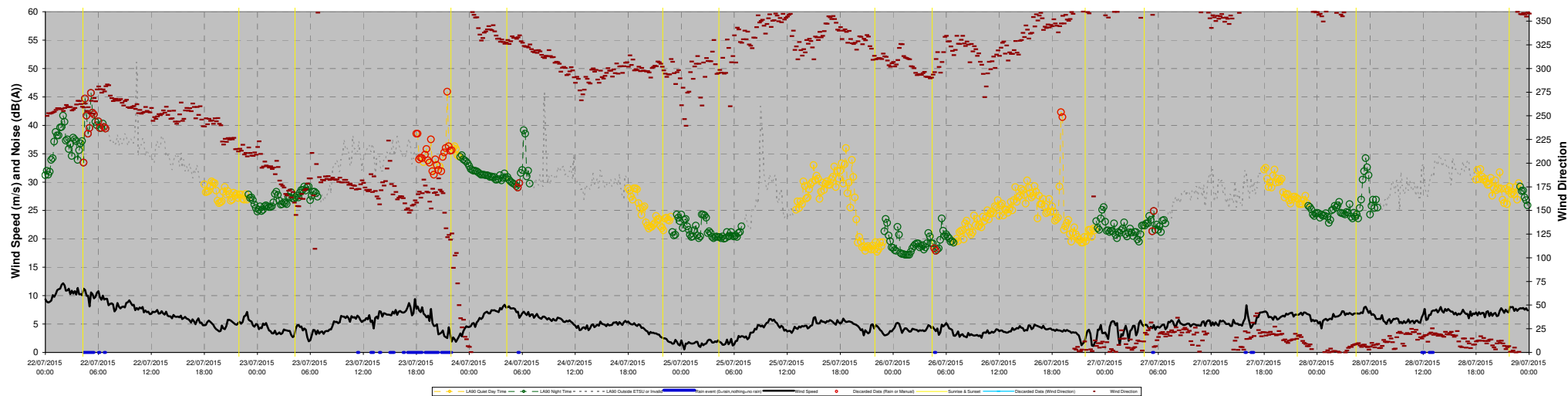
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

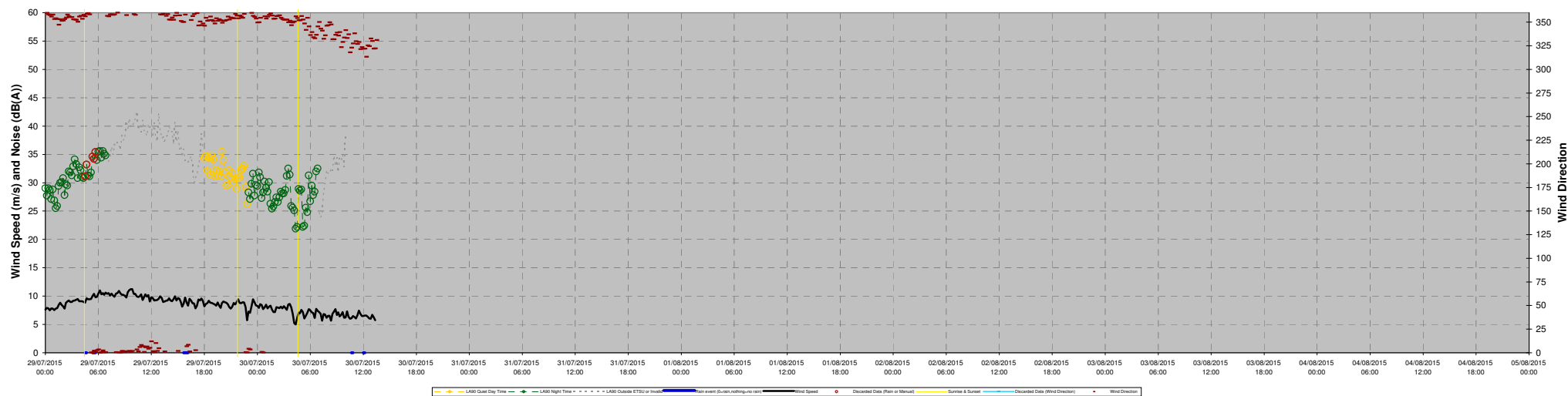
Title Time Serie for H1 - Lower Holligarth Page 2 of 3

Date 15/10/2015

22/07/2015 to 29/07/2015



29/07/2015 to 05/08/2015



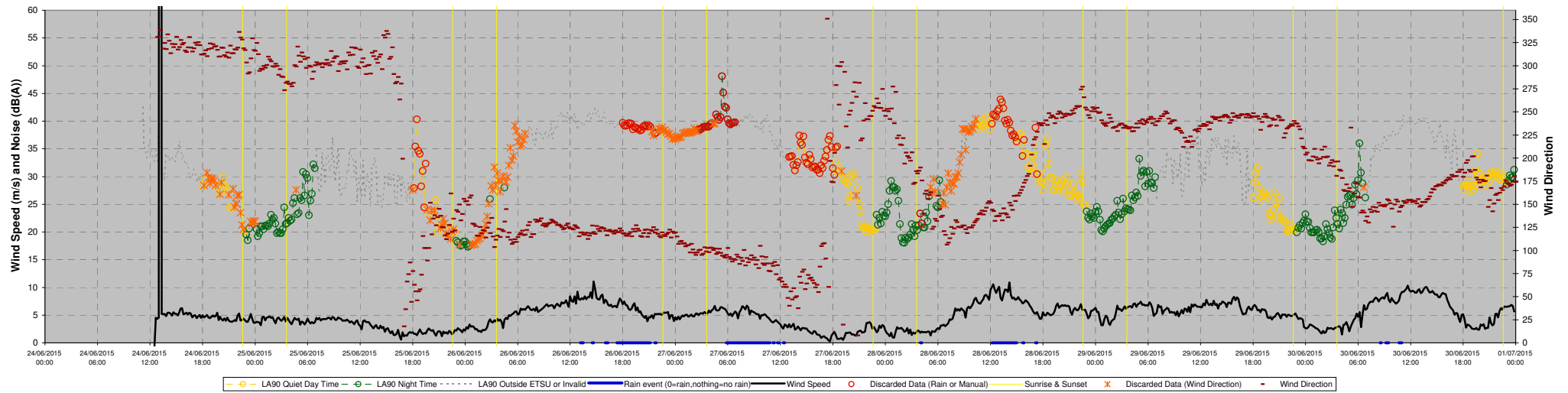
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

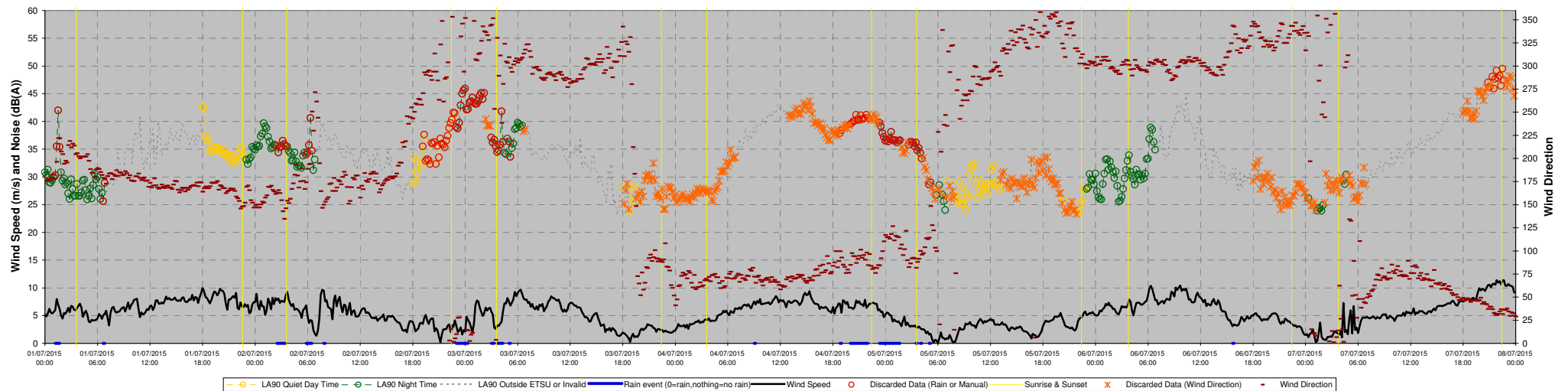
Title Time Serie for H1 - Lower Holligarth Page 3 of 3

Date 15/10/2015

24/06/2015 to 01/07/2015



01/07/2015 to 08/07/2015



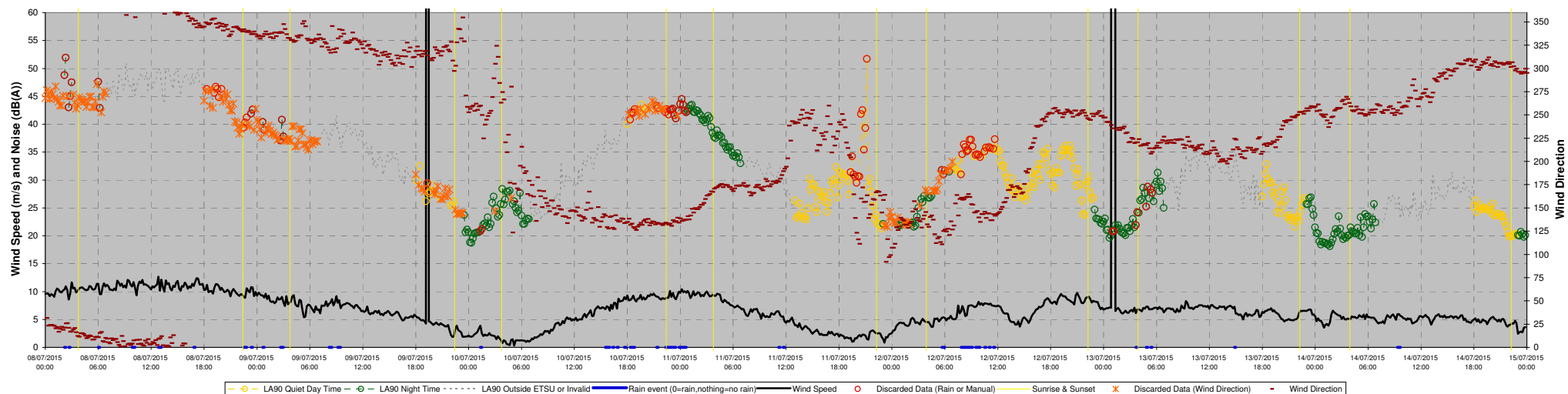
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

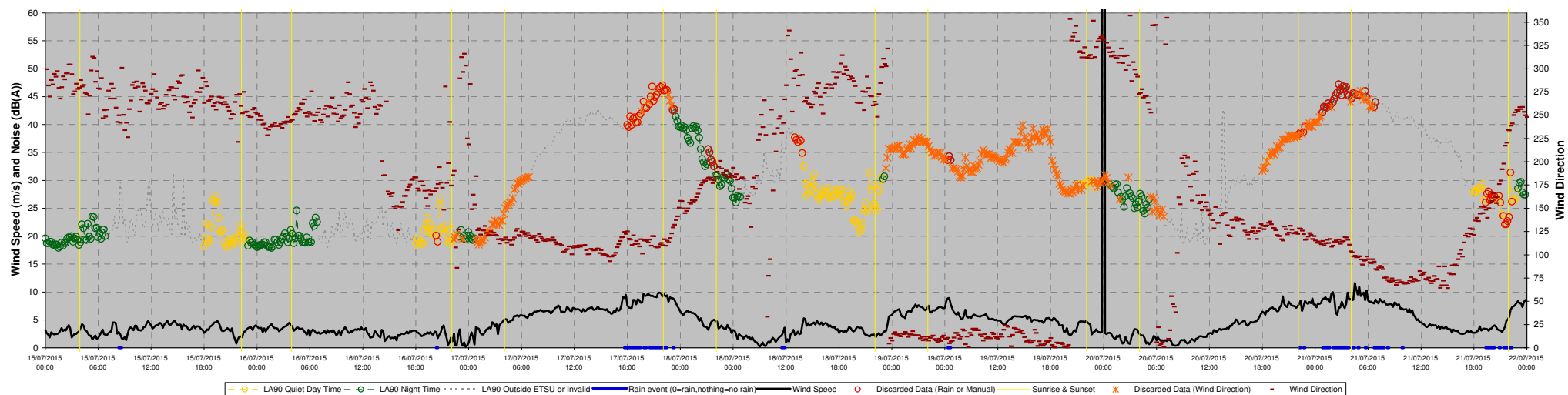
Title Time Serie for Whirliegarth Page 1 of 3

Date 15/10/2015

08/07/2015 to 15/07/2015

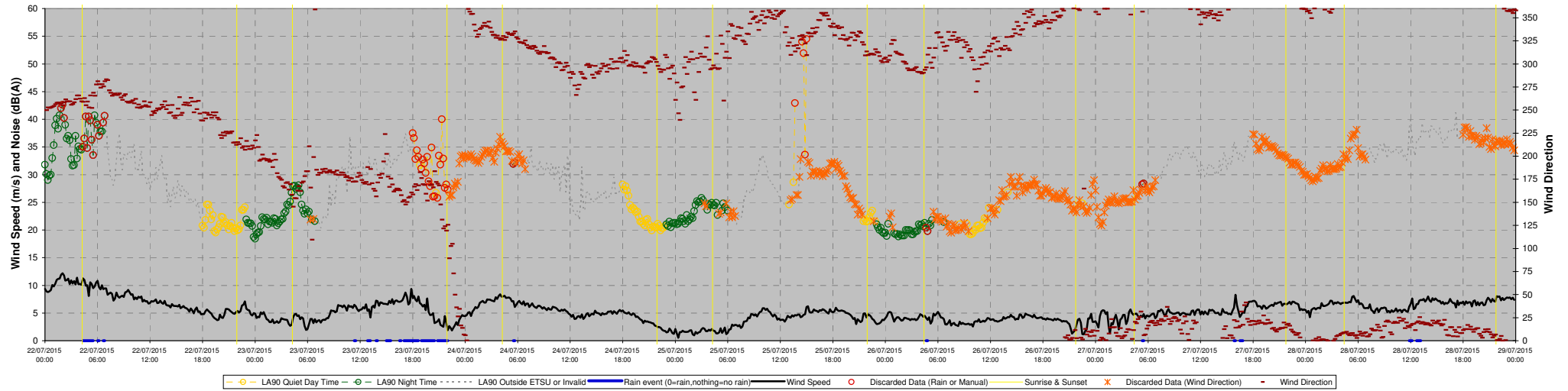


15/07/2015 to 22/07/2015

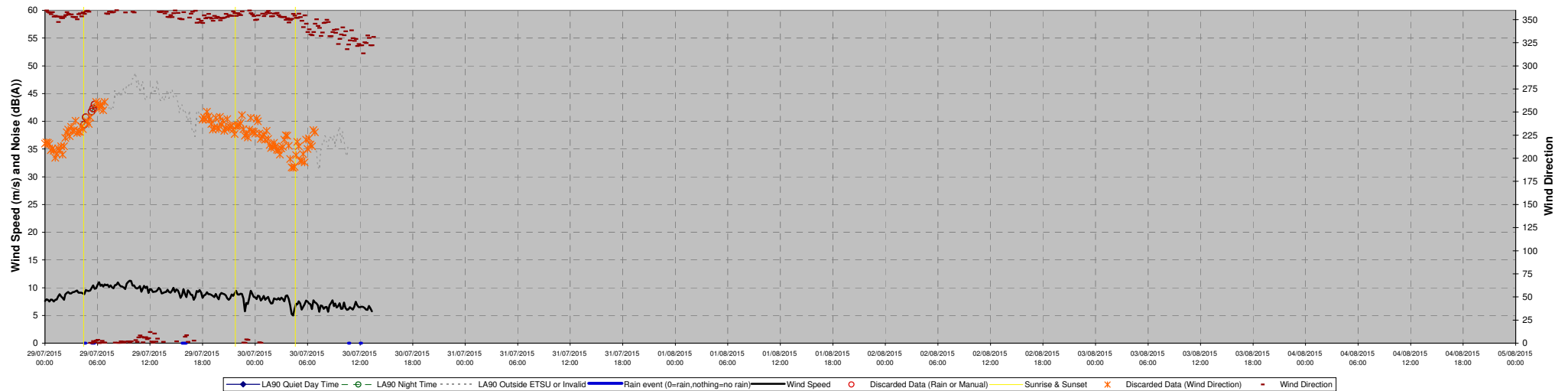


Project	Beaw Field Wind Farm
Client	Peel Wind Farms (Yell) Ltd
Title	Time Serie for Whirliegarth Page 2 of 3
Date	15/10/2015

22/07/2015 to 29/07/2015



29/07/2015 to 05/08/2015



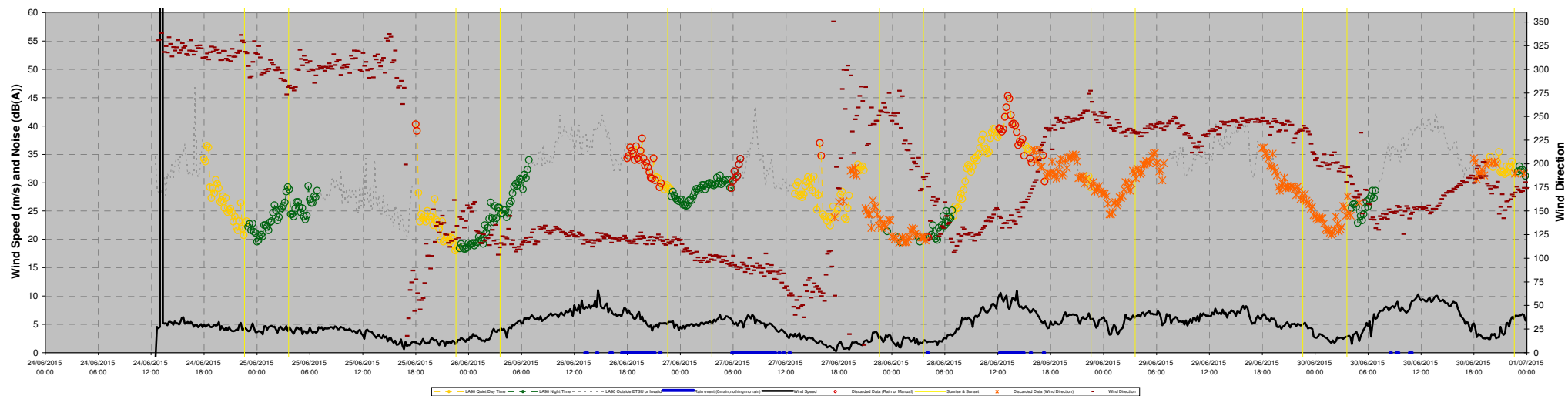
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

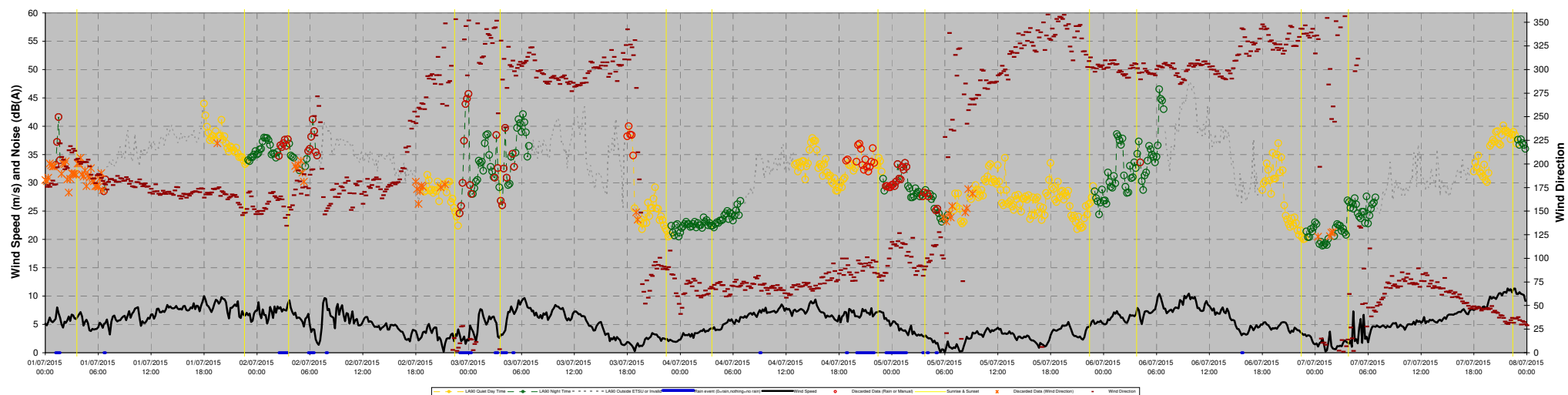
Title Time Serie for Whirliegarth Page 3 of 3

Date 15/10/2015

24/06/2015 to 01/07/2015



01/07/2015 to 08/07/2015



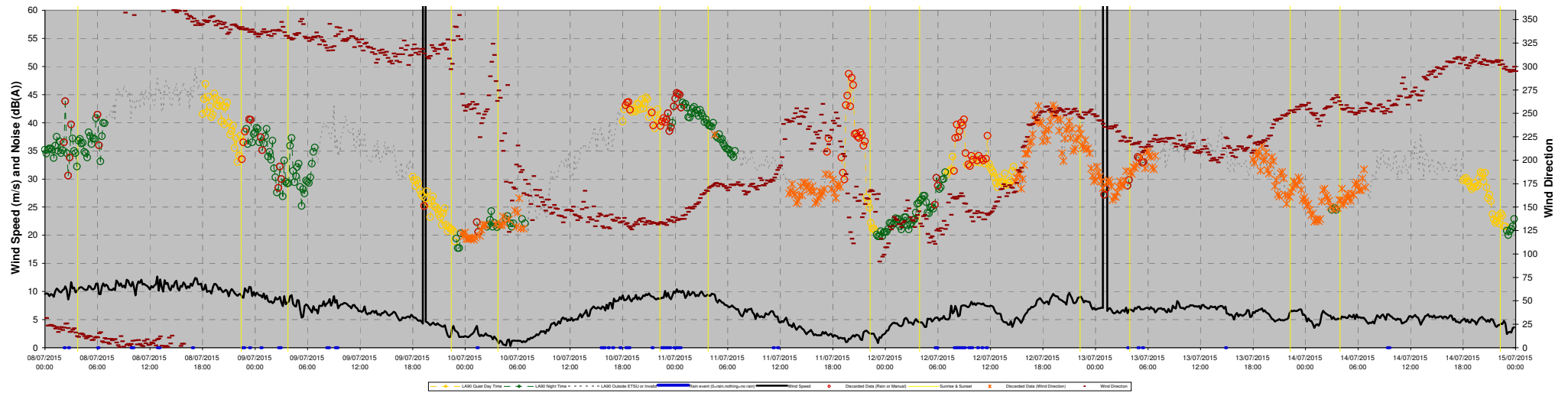
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

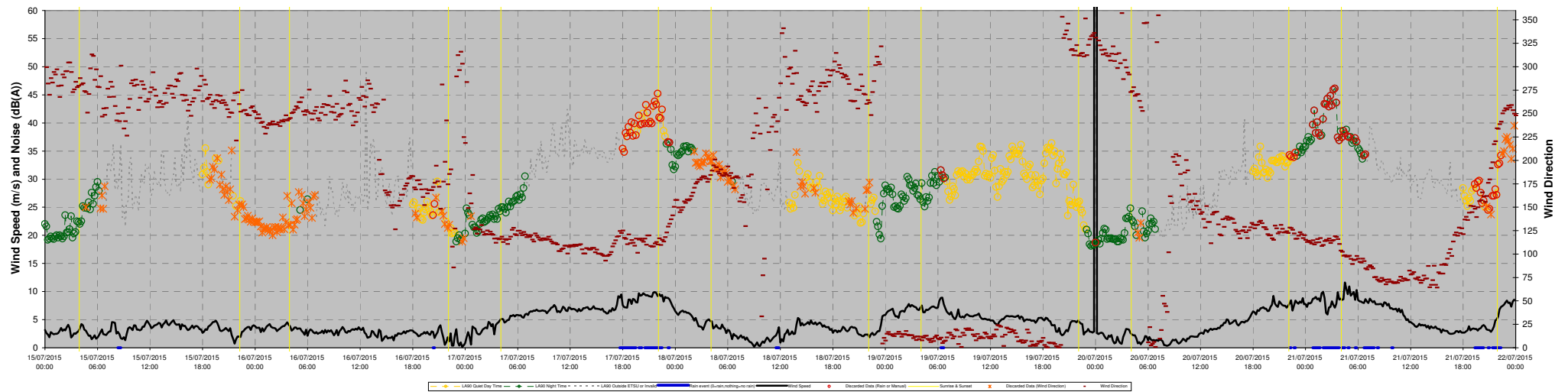
Title Time Serie for H3 - Easterlee Page 1 of 3

Date 15/10/2015

08/07/2015 to 15/07/2015



15/07/2015 to 22/07/2015



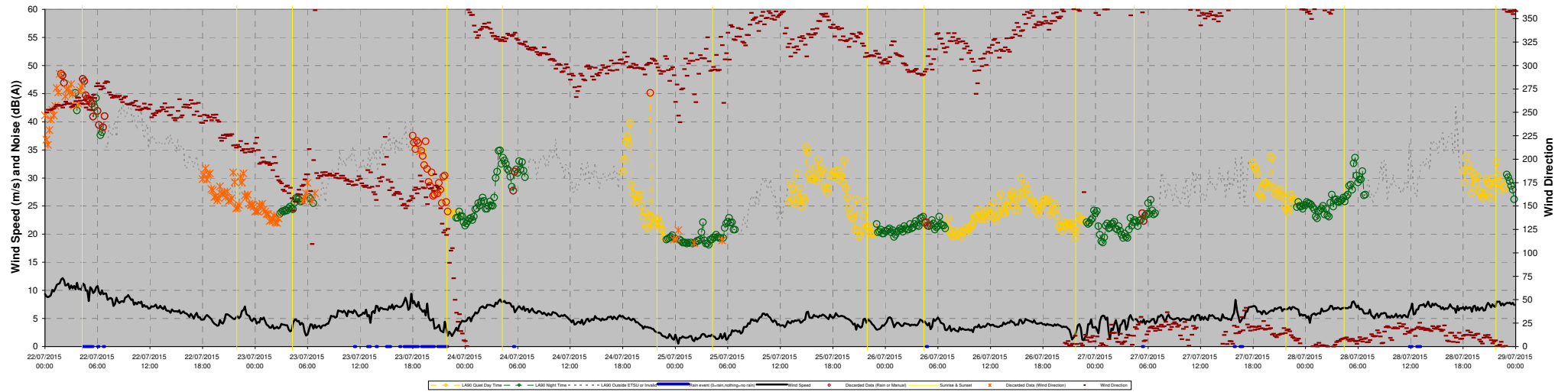
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

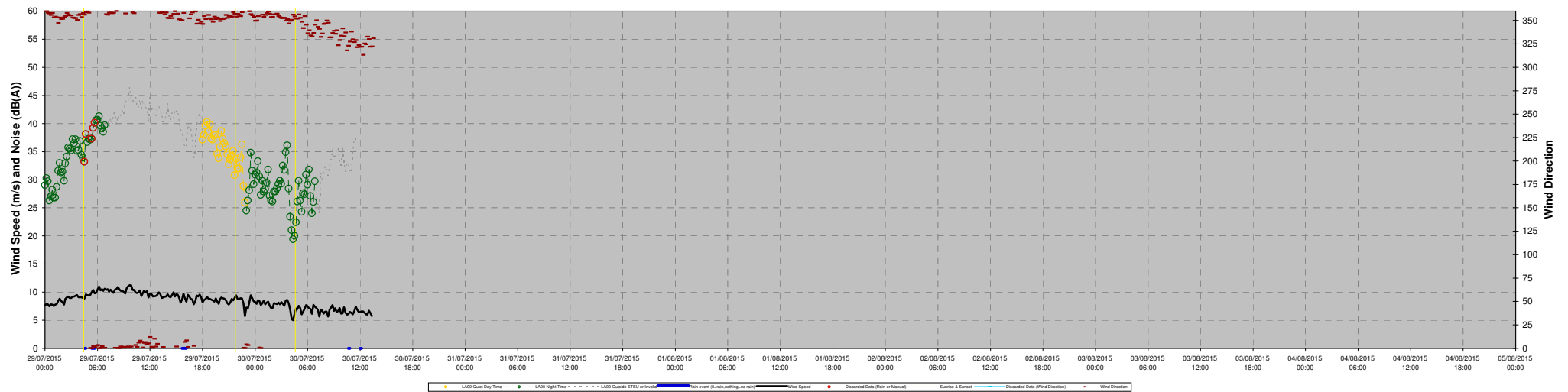
Title Time Serie for H3 - Easterlee Page 2 of 3

Date 15/10/2015

22/07/2015 to 29/07/2015



29/07/2015 to 05/08/2015



Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

Title Time Serie for H3 - Easterlee Page 3 of 3

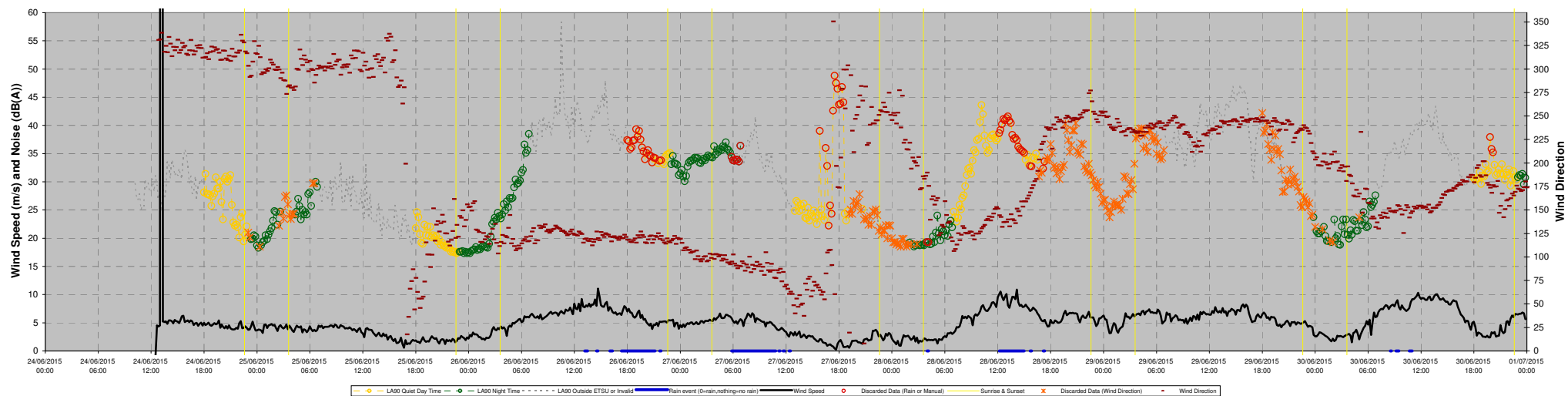
Date 15/10/2015



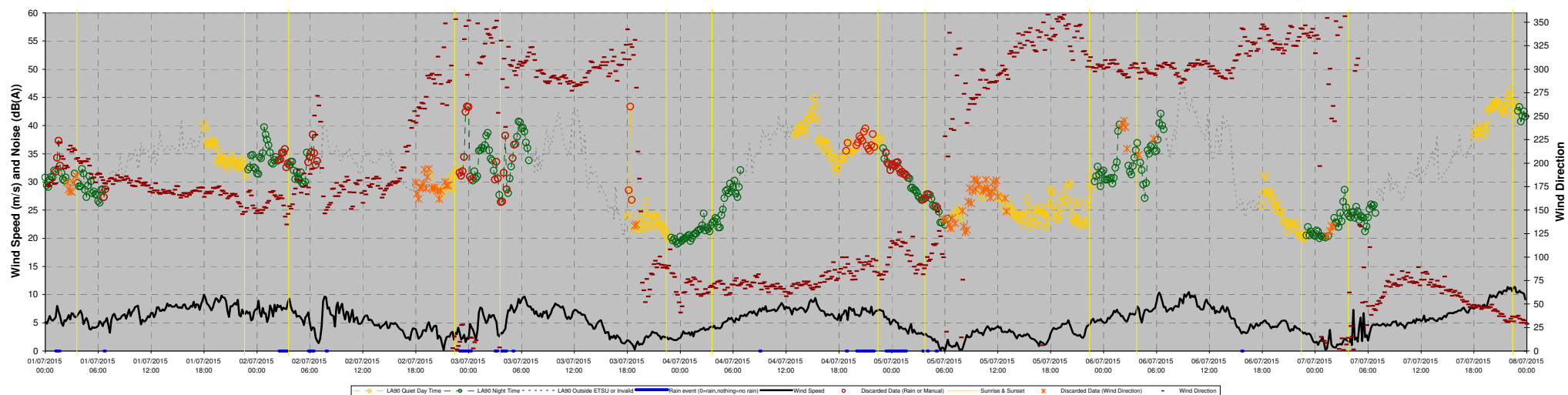
TNEI Services Limited
Newcastle upon Tyne

Telephone 01912111400
Website www.tnei.co.uk

24/06/2015 to 01/07/2015



01/07/2015 to 08/07/2015



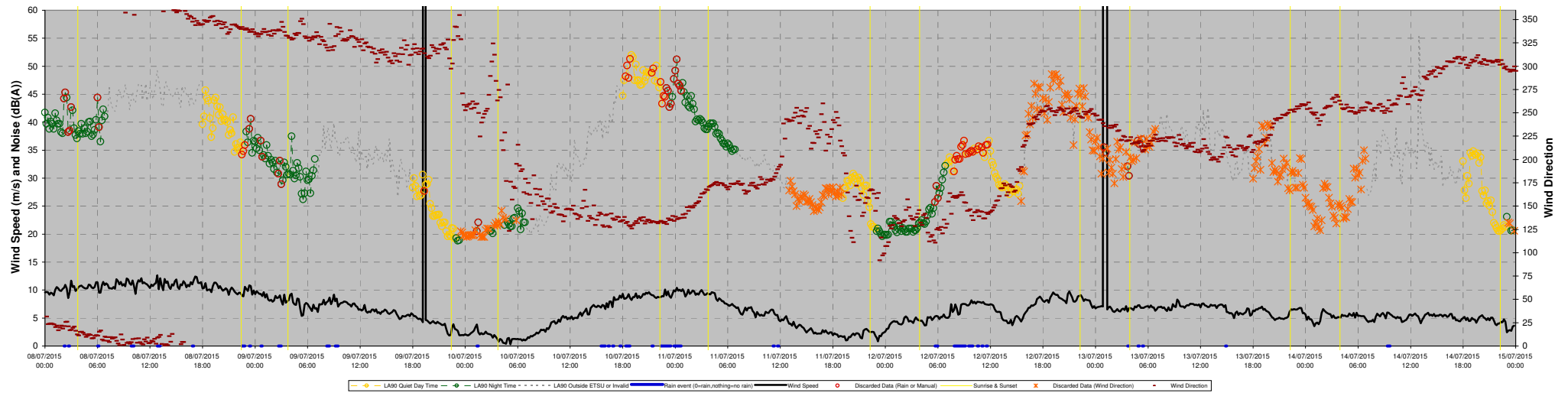
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

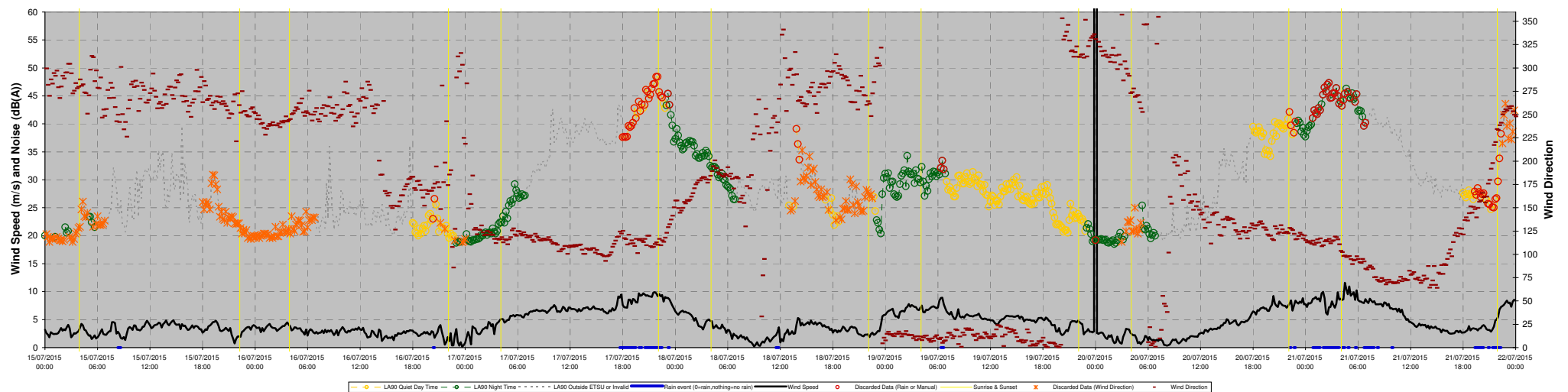
Title Time Serie for Nessview Page 1 of 3

Date 15/10/2015

08/07/2015 to 15/07/2015



15/07/2015 to 22/07/2015



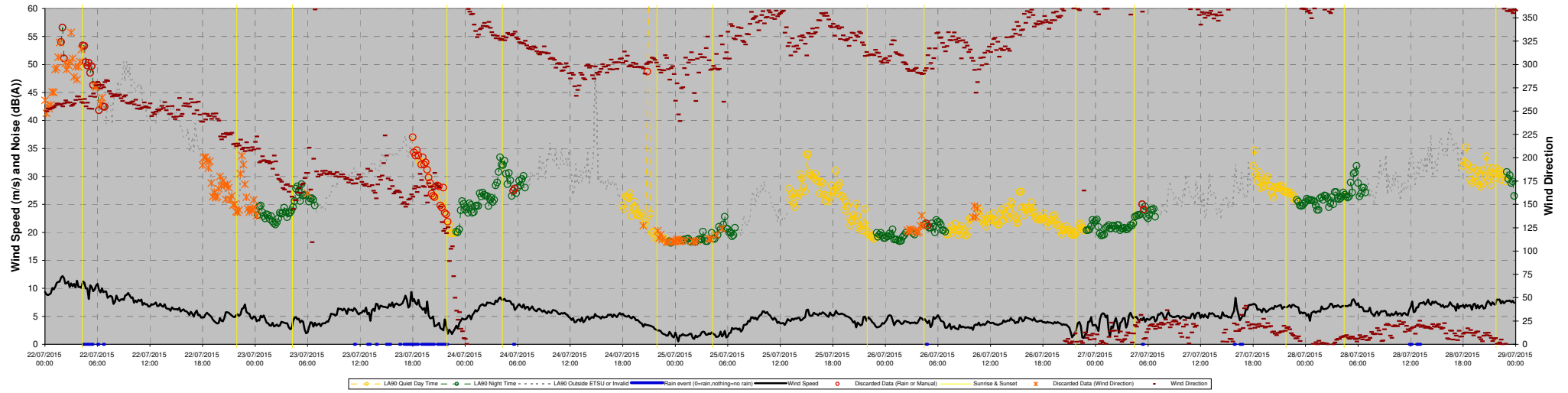
Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

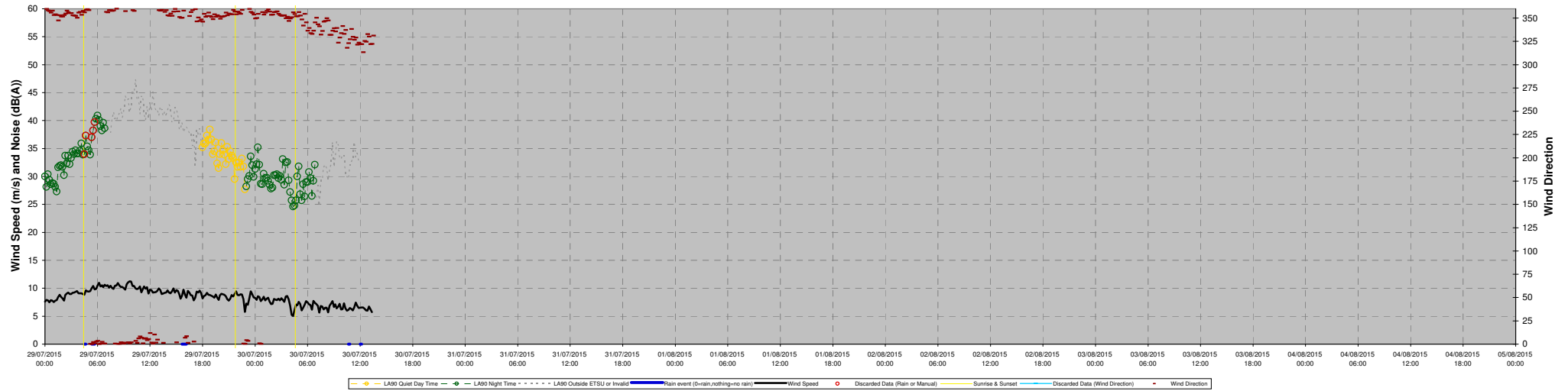
Title Time Serie for Nessview Page 2 of 3

Date 15/10/2015

22/07/2015 to 29/07/2015



29/07/2015 to 05/08/2015



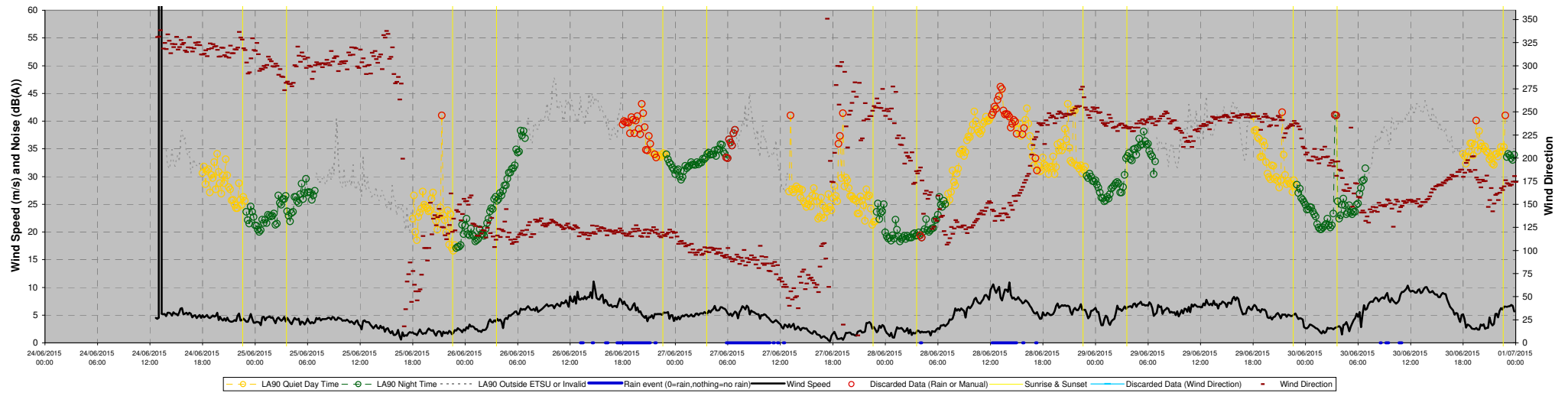
Project: Beaw Field Wind Farm

Client: Peel Wind Farms (Yell) Ltd

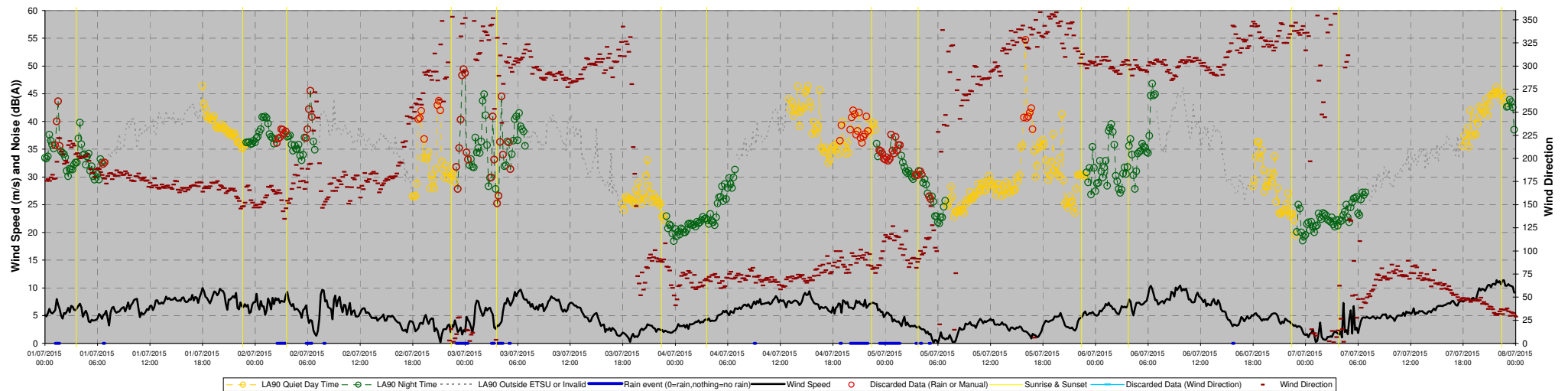
Title: Time Serie for Nessview Page 3 of 3

Date: 15/10/2015

24/06/2015 to 01/07/2015



01/07/2015 to 08/07/2015



Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

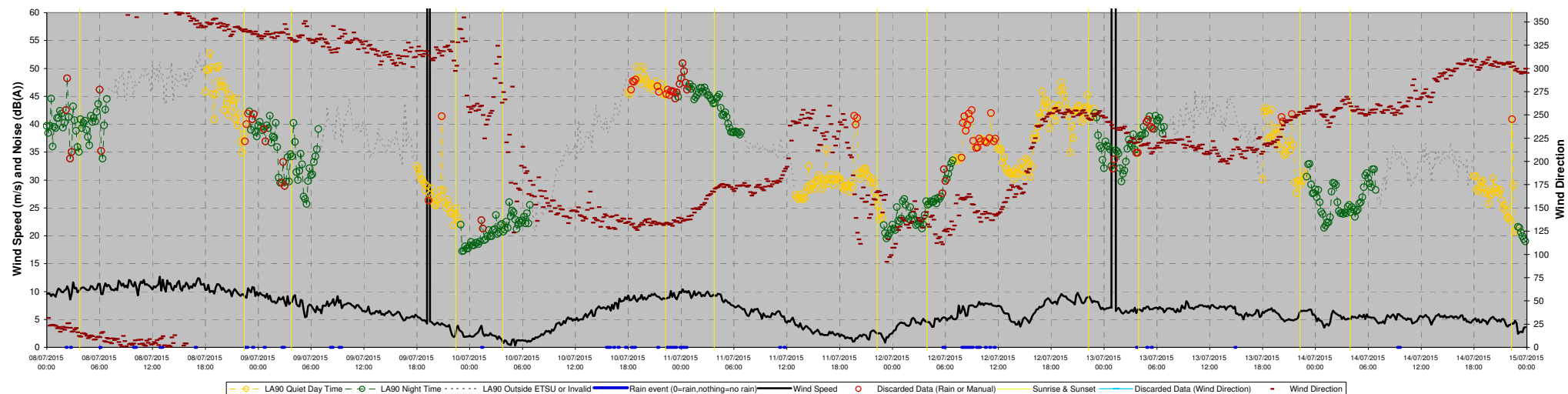
Title Time Serie for Heatherlea Page 1 of 3

Date 15/10/2015

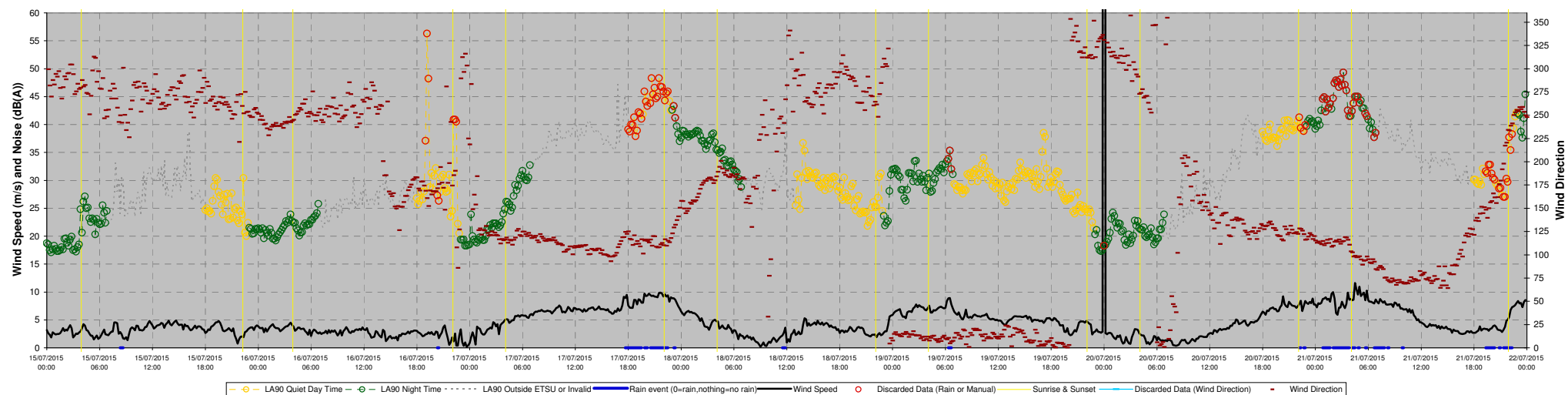


TNEI Services Limited Telephone 01912111400
Newcastle upon Tyne Website www.tnei.co.uk

08/07/2015 to 15/07/2015



15/07/2015 to 22/07/2015



Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

Title Time Serie for Heatherlea Page 2 of 3

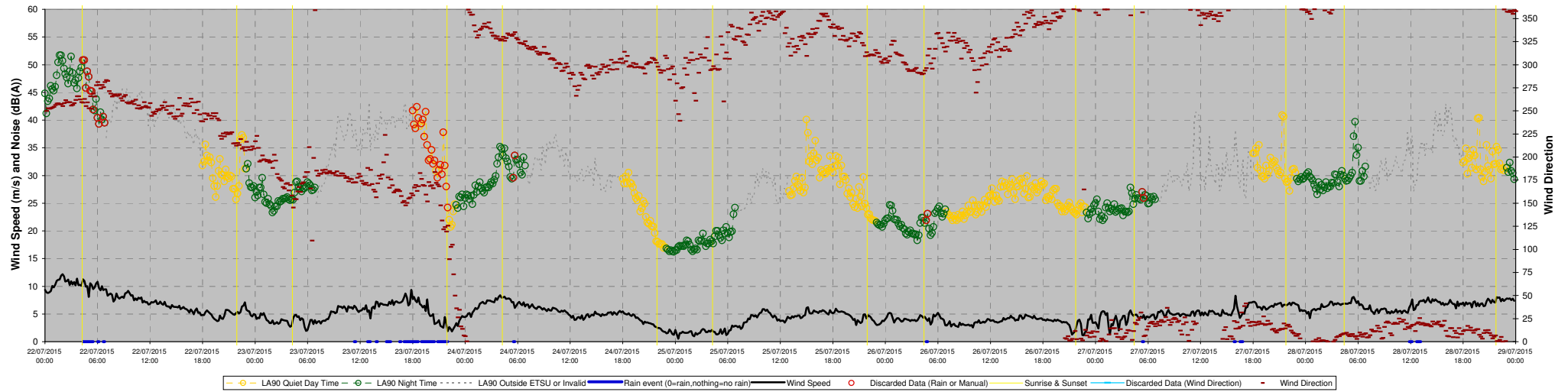
Date 15/10/2015



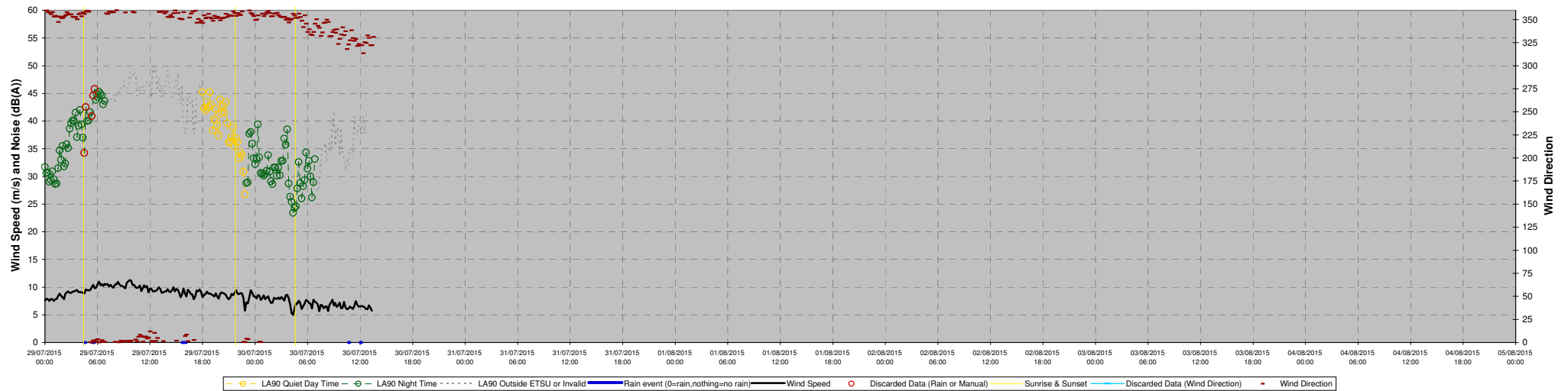
TNEI Services Limited
Newcastle upon Tyne

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Website www.tnei.co.uk

22/07/2015 to 29/07/2015



29/07/2015 to 05/08/2015



Project Beaw Field Wind Farm

Client Peel Wind Farms (Yell) Ltd

Title Time Serie for Heatherlea Page 3 of 3

Date 15/10/2015

ANNEX 7 - Summary of Wind Turbine Noise Source Data

TNEI SUMMARY ANALYSIS OF NOISE DATA FOR : REpower-3.4M 104-RE50.8 blade-Full mode-100hub

Turbine identification:

Manufacturer: REpower
Model Name: 3.4M 104
Blade Type/Name: RE50.8
Operational Mode: Full
Hub Height: 100

Available Noise Document(s) Considered in the analysis of this turbine:

	Doc. Date	Doc. Name
Manufacturer doc:	02/08/2011	SD-3.1-WT.PC.00-B-D-EN Power-Curve_Sound-Power-Level_[3.4M104_50Hz]
Test Report1:	29/04/2010	D-3.1-VM.SM.04-D-A-EN
Test Report2:		
Test Report3:		

Summary of Sound Power Levels(L_{wAeq}) at various wind speeds:

Wind Speed (standardised 10m)	2	3	4	5	6	7	8	9	10	11	12
Manufacturer Lw raw as found in document		95.0	96.7	100.4	104.1	105.4	105.5	105.0	104.8	104.8	104.8
Manufacturer specified Lw +Manufacturer Uc+TNEI Uc (used for modeling by TNEI)		95.0	96.7	100.4	104.1	105.4	105.5	105.5	105.5	105.5	105.5

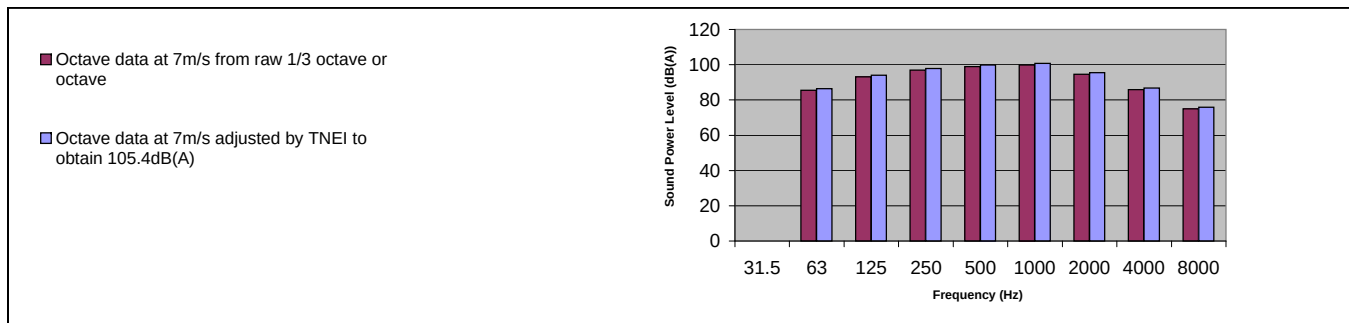
Comment: Measurement report which includes measurement uncertainty suggests no additional uncertainty required beyond the noise levels specified by the manufacturer.

Summary of Octave Data (L_{wAeq}) used for modelling:

Octave data is from Test Report1 at 7m/s											
Frequency (Hz)	31.5	63	125	250	500	1000	2000	4000	8000	Overall	
Octave data at 7m/s from raw 1/3 octave or octave	0.0	85.5	93.1	97.0	98.9	99.8	94.6	85.9	75.0	104.5	
Octave data at 7m/s adjusted by TNEI to obtain 105.4dB(A)	0.0	86.4	94.0	97.9	99.8	100.7	95.5	86.8	75.9	105.4	

Comment: Third octave data from report1 at 7m/s.

Plot of Octave Data



Additional Comment:

Data analysed in accordance with the guidance from the IOA GPG May 2013.

3.2 Guaranteed sound power level according to IEC

The sound power level guaranteed by Senvion SE excludes measurement uncertainty. Senvion SE warrants that there is no tonal audibility $\Delta L_{a,k} > 0$ dB (for $v_{10} \geq 6$ m/s).

Sound Power Level according to IEC for wind speed in hub height

Wind speed v [m/s]	Sound Power Level L_{WA} [dB(A)]
4.0	95.0
4.5	95.1
5.0	95.5
5.5	96.2
6.0	97.2
6.5	98.5
7.0	99.9
7.5	101.4
8.0	102.9
8.5	103.9
9.0	104.6
9.5	105.1
10.0	105.4
10.5	105.6
11.0	105.6
11.5	105.5
12.0	105.3
12.5	105.1
13.0	105.0
13.5	104.9
14.0 - 25.0	104.8

Sound Power Level according to IEC for wind speed in 10 m height

Wind speed v_{10} [m/s]	Sound Power Level L_{WA} [dB(A)]		
	78 - 80 m	96.5 - 100 m	125 - 128 m
3.0	95.0	95.0	95.1
3.5	95.4	95.5	95.7
4.0	96.4	96.7	97.1
4.5	97.9	98.3	98.9
5.0	99.8	100.4	101.1
5.5	101.9	102.6	103.2
6.0	103.6	104.1	104.5
6.5	104.7	104.9	105.2
7.0	105.3	105.4	105.5
7.5	105.6	105.6	105.6
8.0	105.6	105.5	105.3
8.5	105.4	105.2	105.1
9.0	105.1	105.0	104.9

Wind speed v_{10} [m/s]	Sound Power Level L_{WA} [dB(A)]		
	78 - 80 m	96.5 - 100 m	125 - 128 m
9.5	104.9	104.9	104.8
10.0 - v_{out}	104.8	104.8	104.8

3.3 Guaranteed sound power level according to FGW Guideline at 95 % of rated power

The sound power level measured according to the "Technische Richtlinie für Windenergieanlagen Teil1: Rev. 18 der FGW" at 95 % of the rated power is independent of the hub height:

$$L_{WA,95\%} = 105.6 \text{ dB(A)}$$

**Summary of results of the noise emission measurement,
in accordance with IEC 61400-11, of a WTGS of the type
REpower 3.4M 104**

Recalculation of L_{WA} for different hub heights in dB(A) (WS at a height of 10 m) **:

Hub height [m]	L_{WA} (6 m/s)	L_{WA} (7 m/s)	L_{WA} (8 m/s)	L_{WA} (9 m/s)	L_{WA} (10 m/s)
78	102,3	104,2	104,1	103,4	102,9
80	102,3	104,2	104,1	103,4	102,8
96,5	102,8	104,3	104,0	103,2	102,6

** A direct recalculation of the tonality is not possible, as other acoustic effects may arise due to the different length of the tower.

Third octave sound power spectrum in dB(A) for the wind speed in 10 m height corresponding to the maximum sound power level given on page 1:

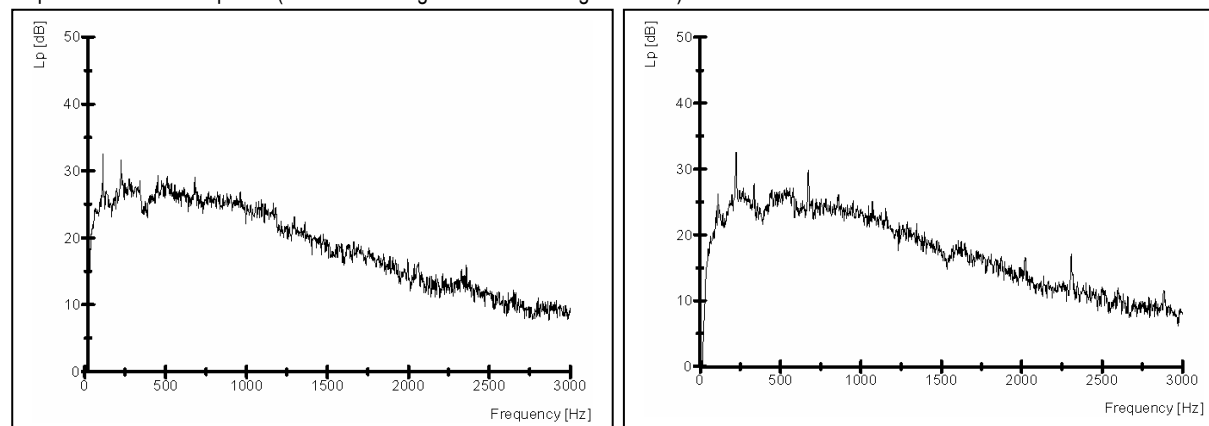
1/3 octave freq. [Hz]	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA} (7,0 m/s)	77,6	80,5	82,7	85,7	86,9	90,7	92,2	92,2	92,3	92,1	94,8	94,9
1/3 octave freq. [Hz]	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA} (7,0 m/s)	95,5	95,5	93,9	92,1	89,0	86,7	84,0	80,0	75,8	72,4	69,7	67,1

Linear third octave sound power 1/3- octave spectrum in dB for the wind speed in 10 m height

1/3 octave freq. [Hz]	10	12,5	16	20	25	31,5	40	50	63	80	100
L_{WA} (6,0 m/s)	111,3	112,8	108,7	111,9	109,1	107,5	108,0	106,5	105,2	103,6	103,4
L_{WA} (7,0 m/s)	112,7	114,2	110,1	113,3	110,5	108,9	109,4	107,9	106,6	105,0	104,8
L_{WA} (8,0 m/s)	113,0	114,1	109,7	113,1	109,9	108,3	109,1	107,8	106,1	104,8	105,2
L_{WA} (9,0 m/s)	112,5	113,3	108,3	112,6	108,5	107,4	107,8	106,4	105,0	103,4	104,1
L_{WA} (10,0 m/s)	114,1	114,7	109,5	113,3	109,9	108,2	109,0	107,4	105,8	103,9	104,3

Tonality according to IEC 61400-11/Ed.2:

Representative FFT - Spectra (left 8 m/s and right 10 m/s at a height of 10 m):



WS in 10 m height [m/s]	6,0	7,0	8,0	9,0	10,0
Freq. of most prevalent tone, f [Hz]	110	224	112	226	226
Tonality, ΔL_k [dB]	-5,98	-12,30	-7,56	-8,43	-5,35
Audibility, $\Delta L_{a,k}$ [dB]	-3,97	-10,25	-5,55	-6,38	-3,29

Remarks: --

Checked:



Dipl.-Ing. K. Buchmann
Head of Department Acoustics & Inspection

Engineer:



Dipl.-Ing. J. Dedert

Laboratory accredited by DAP Deutsches Akkreditierungssystem
Prüfwesen GmbH according to DIN EN ISO/IEC 17025. This
accreditation is valid for the test and measurement procedures
given in the certificate.



TNEI SUMMARY ANALYSIS OF NOISE DATA FOR : Nordex -N100 3300-NA blade-Full mode-100hub

Turbine identification:

Manufacturer: Nordex
 Model Name: N100 3300
 Blade Type/Name: NA
 Operational Mode: Full
 Hub Height: 100

Available Noise Document(s) Considered in the analysis of this turbine:

Doc. Date: 02/11/2012
 Doc. Name: F008_242_A03_EN Revision 00, 2012-11-02
 Manufacturer doc:
 Test Report1:
 Test Report2:
 Test Report3:

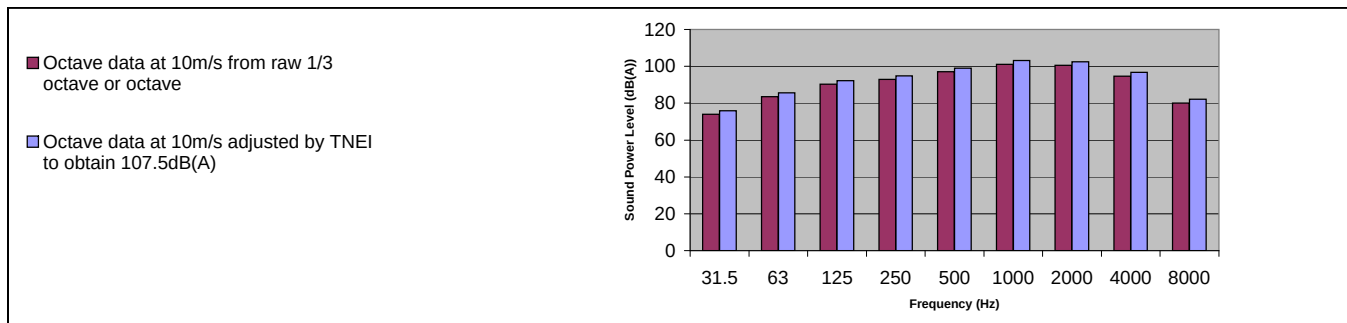
Summary of Sound Power Levels(L_{wAeq}) at various wind speeds:

Wind Speed (standardised 10m)	2	3	4	5	6	7	8	9	10	11	12
Manufacturer Lw raw as found in document		95.6	96.7	99.2	103.6	104.6	105.2	105.5	105.5	105.5	105.5
Manufacturer specified Lw +Manufacturer Uc+TNEI Uc (used for modeling by TNEI)		97.6	98.7	101.2	105.6	106.6	107.2	107.5	107.5	107.5	107.5
Comment: No measurement reports available +2dB added											

Summary of Octave Data (L_{wAeq}) used for modelling:

Octave data is from Test Report at 10m/s											
Frequency (Hz)	31.5	63	125	250	500	1000	2000	4000	8000	Overall	
Octave data at 10m/s from raw 1/3 octave or octave	73.9	83.6	90.3	92.9	97.0	101.1	100.5	94.7	80.1	105.5	
Octave data at 10m/s adjusted by TNEI to obtain 107.5dB(A)	75.9	85.6	92.3	94.9	99.0	103.1	102.5	96.7	82.1	107.5	
Comment: Octave data are taken from octave sound power level report F008_242_A13_EN - dated 24-06-13.											

Plot of Octave Data



Additional Comment:

Data analysed in accordance with the guidance from the IOA GPG May 2013.

Noise level - Nordex N100/3300

Standardized wind speed $V_{S(10m)}$ [m/s]	Apparent sound power level			
	hub height 75 m		hub height 100 m	
	L_{WA} [dB(A)]	V_H [m/s]	L_{WA} [dB(A)]	V_H [m/s]
3.0	95.5	4.1	95.6	4.3
4.0	96.5	5.5	96.7	5.7
5.0	98.5	6.9	99.2	7.2
6.0	102.8	8.3	103.6	8.6
7.0	104.4	9.7	104.6	10.0
8.0	105.0	11.0	105.2	11.5
9.0	105.5	12.4	105.5	12.9
10.0	105.5	13.8	105.5	14.3
11.0	105.5	15.2	105.5	15.8
12.0	105.5	16.6	105.5	17.2

2.2 Hub height 100 m

The octave sound power levels of the Nordex N100/3300 are determined on basis of aerodynamical calculations and expected sound power levels according to Nordex Document F008_242_A03_EN_R01. These values are valid for the hub height 100 m.

	Octave sound power levels at standardized wind speeds v_s in dB(A)									
Frequency	3 m/s	4 m/s	5 m/s	6 m/s	7 m/s	8 m/s	9 m/s	10 m/s	11 m/s	12 m/s
31.5 Hz	64.0	65.1	66.3	73.3	73.8	74.7	73.9	73.9	73.9	73.9
63 Hz	73.7	74.8	76.1	82.5	82.9	83.8	83.6	83.6	83.6	83.6
125 Hz	79.3	80.4	80.4	86.6	88.9	90.1	90.3	90.3	90.3	90.3
250 Hz	85.4	86.5	87.6	92.0	93.3	93.8	92.9	92.9	92.9	92.9
500 Hz	88.6	89.7	92.6	96.3	97.6	97.9	97.0	97.0	97.0	97.0
1000 Hz	89.8	90.9	94.2	98.8	99.9	100.6	101.1	101.1	101.1	101.1
2000 Hz	90.4	91.5	93.8	98.0	98.8	99.5	100.5	100.5	100.5	100.5
4000 Hz	85.8	86.9	88.7	94.0	93.9	94.5	94.7	94.7	94.7	94.7
8000 Hz	72.5	73.6	74.8	80.4	80.6	80.9	80.1	80.1	80.1	80.1
Total sound power level	95.6	96.7	99.2	103.6	104.6	105.2	105.5	105.5	105.5	105.5

3 Protection Notice ISO 16016

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TNEI SUMMARY ANALYSIS OF NOISE DATA FOR : Evance-R9000-Generic blade-Full mode-10hub

Turbine identification:

Manufacturer: Evance

Model Name: R9000

Blade Type/Name: Generic

Operational Mode: Full

Hub Height: 10

Available Noise Document(s) Considered in the analysis of this turbine:

	Doc. Date	Doc. Name
Manufacturer doc:	12/08/2010	Evance R9000 UK MCS Certification Summary
Test Report1:		
Test Report2:		
Test Report3:		

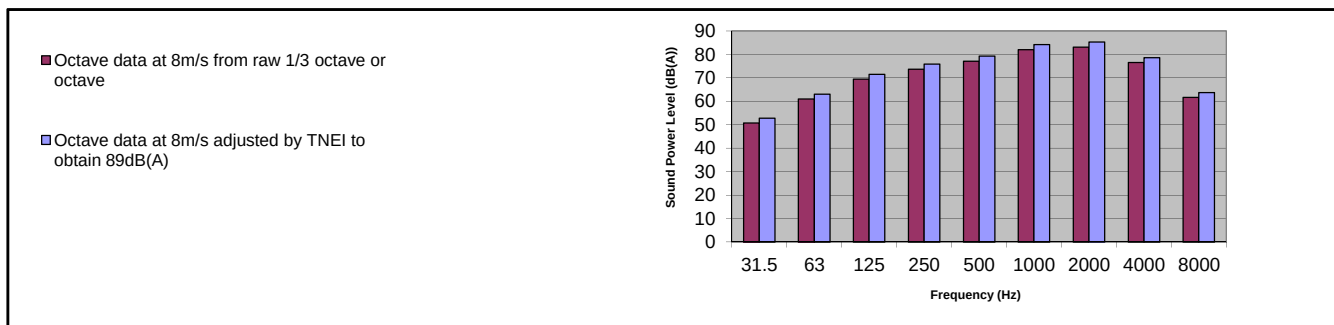
Summary of Sound Power Levels(L_{wAeq}) at various wind speeds:

Wind Speed (standardised 10m)	2	3	4	5	6	7	8	9	10	11	12
Manufacturer Lw raw as found in document		78.5	80.6	82.7	84.8	86.9	89.0	91.1	93.2	95.3	97.4
Manufacturer specified Lw +Manufacturer Uc+TNEI Uc (used for modeling by TNEI)		78.5	80.6	82.7	84.8	86.9	89.0	91.1	93.2	95.3	97.4
Comment: No additional Uc as accounted for enough. See summary on left.											

Summary of Octave Data (L_{wAeq}) used for modelling:

Octave data is from Test Report1 at 8m/s										
Frequency (Hz)	31.5	63	125	250	500	1000	2000	4000	8000	Overall
Octave data at 8m/s from raw 1/3 octave or octave	50.7	60.9	69.4	73.7	77.1	82.0	83.1	76.5	61.6	86.9
Octave data at 8m/s adjusted by TNEI to obtain 89dB(A)	52.8	63.0	71.5	75.8	79.2	84.1	85.2	78.6	63.7	89.0
Comment: See comments to left										

Plot of Octave Data



Additional Comment:

Data analysed in accordance with the guidance from the IOA GPG May 2013.

Product Certification

Evance R9000 Acoustic Noise Assessment

Issue 04



Certificate Number MCS WT0039
Small Wind Turbine

A decorative graphic in the bottom left corner consisting of several curved lines in orange, red, and teal, ending in small dots.

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1. Introduction

This document presents the results of an acoustic sound test conducted on an Evance R9000, in accordance with BS EN 61400-11¹ and with the additional guidance stated in BWEA Performance and Safety standard².

A summary of the report is shown below in Figure 1. The key results are the Declared Apparent Emission Sound Power Level, $L_{Wd,8m/s}$, at 8m/s hub height wind speed and noise immission predictions for a range of slant distances and hub height wind speeds.

2. Test Summary

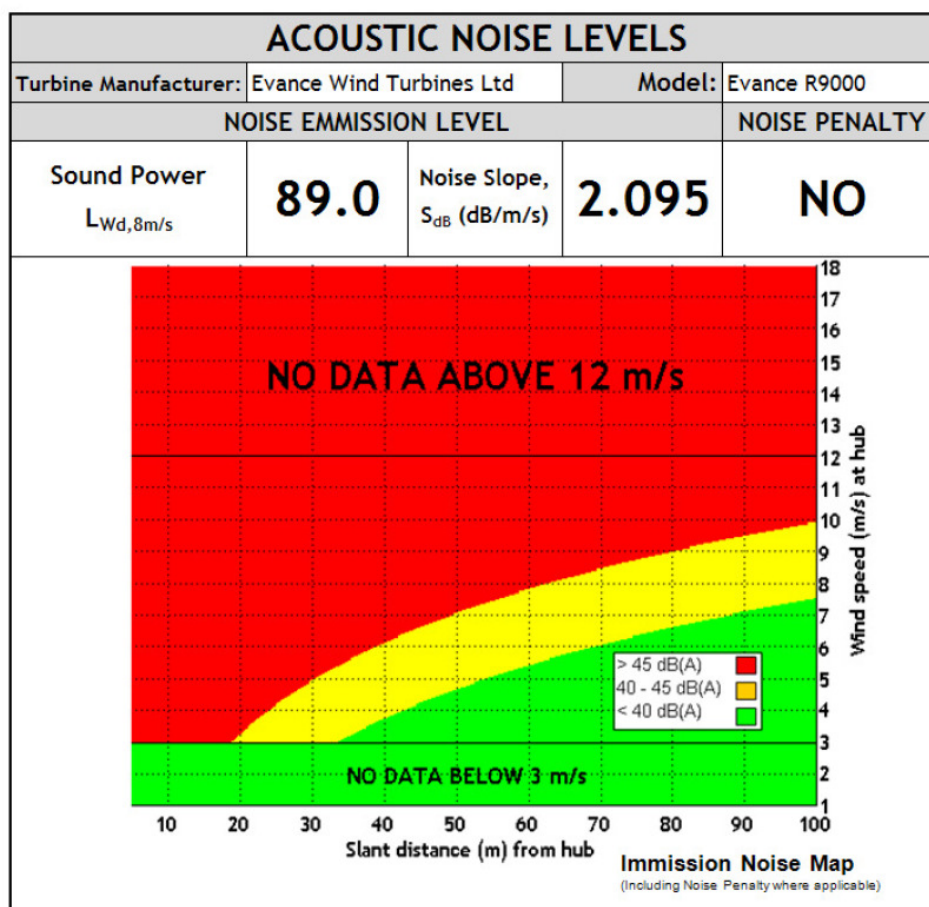


FIGURE 1 - NOISE LABEL

No measurements of directivity were undertaken but the turbine was subjectively much quieter in the plane of the blades (perpendicular to wind direction) than the measured downwind location.

The assessment established the turbine should not be declared as 'tonal' and therefore no penalty should be applied.

The BWEA Reference Sound Levels at 25m and 60m at an 8m/s hub height wind speed are:

$$L_{p,25m} = 53dB(A)$$

$$L_{p,60m} = 45.5dB(A)$$

3. Characterisation of Wind Turbine

TABLE 1 - EVANCE R9000 TEST TURBINE SPECIFICATION

WIND TURBINE DETAILS	
MANUFACTURER	Evance Wind Turbines Ltd
MODEL	Evance R9000
SERIAL NUMBER	280
OPERATING DETAILS	
ROTOR ORIENTATION	Upwind
HAWT OR VAWT	Horizontal Axis Wind Turbine
HUB HEIGHT	12.24m
HORIZONTAL DISTANCE FROM ROTOR CENTRE TO TOWER AXIS	0.63m
ROTOR DIAMETER	5.5m
TOWER TYPE	Freestanding (tube)
CONTROL SYSTEM	Patented Reactive Pitch™ Control
ROTATIONAL SPEED	200 rpm nominal, 230 rpm maximum
BWEA REFERENCE POWER (POWER AT 11M/S)	4628W
CUT-IN WIND SPEED	3m/s
SURVIVAL WIND SPEED	42.5m/s 10 minute mean
YAW CONTROL	Passive - Tail Vane and rotor
ROTOR DETAILS	
BLADE TYPE	Glass Fibre Reinforced Composite, low reflection, UV and anti-erosion coatings
NUMBER OF BLADES	3
BLADE SERIAL NUMBERS	781,782,778
GEARBOX	
GEARBOX	None
GENERATOR DETAILS	
GENERATOR	Patented brushless direct drive air-cored high efficiency Permanent Magnet Alternator
BRAKE	
BRAKE	Patented Automatic ElectroBrake™ (with manual control for servicing).

4. Physical Environment

Table 2 presents the key details of the certification test site and turbine.

TABLE 2 - DETAILS OF TEST SITE

Post Code:	TR19 7TS
Wind Turbine Coordinates:	Lat: 50.1542° Long: -5.64296°
Met Mast Coordinates:	Lat: 50.1541° Long: -5.64317° (16.5m, 250° from wind turbine)
Turbine:	Evance R9000
Hub Height:	12.24m

The certification test site for the Evance R9000 wind turbine is located just outside of Pendeen, 4 miles Northeast of Penzance, Cornwall. The site is at an elevation of 143m with Southwesterly prevailing winds. Figure 2 shows an aerial photograph of the test site. The white line on the photograph is 110m long (20D). Figure 3 shows an OS map of the test site and surrounding area. The nearby area is very open but slopes down to the North and up to the South. The surface is mostly short grass with stone walls separating individual fields. The general layout is shown in Figure 4, Figure 5 and Figure 6.

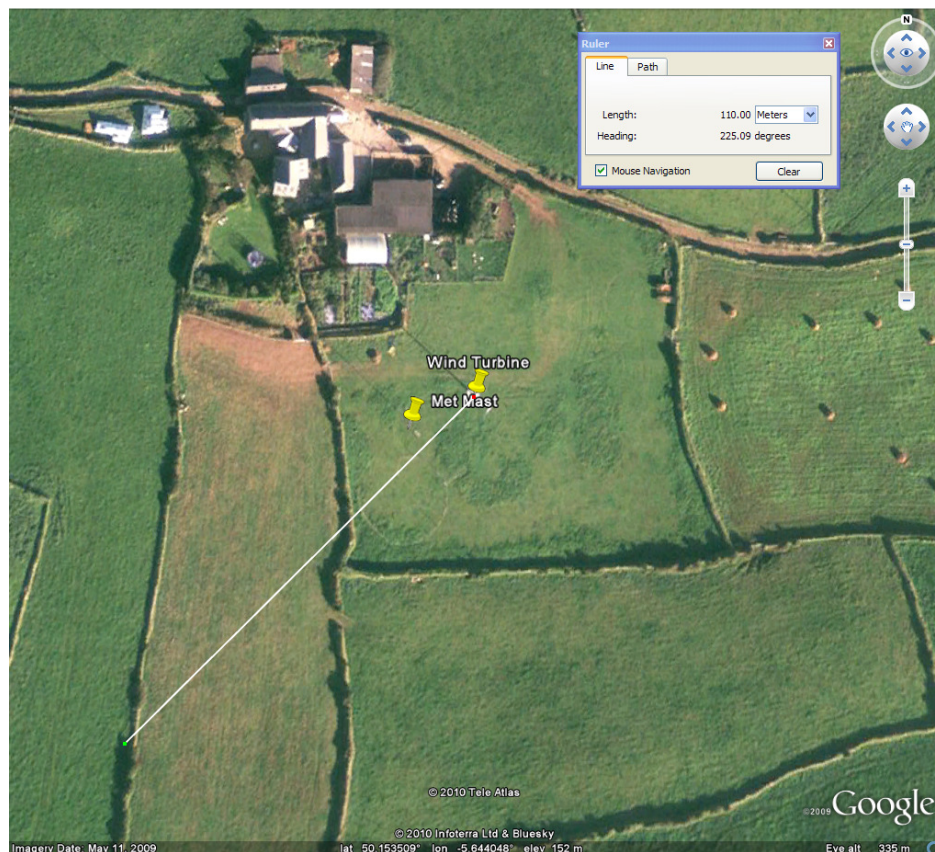


FIGURE 2 - AERIAL PHOTOGRAPH OF TEST SITE

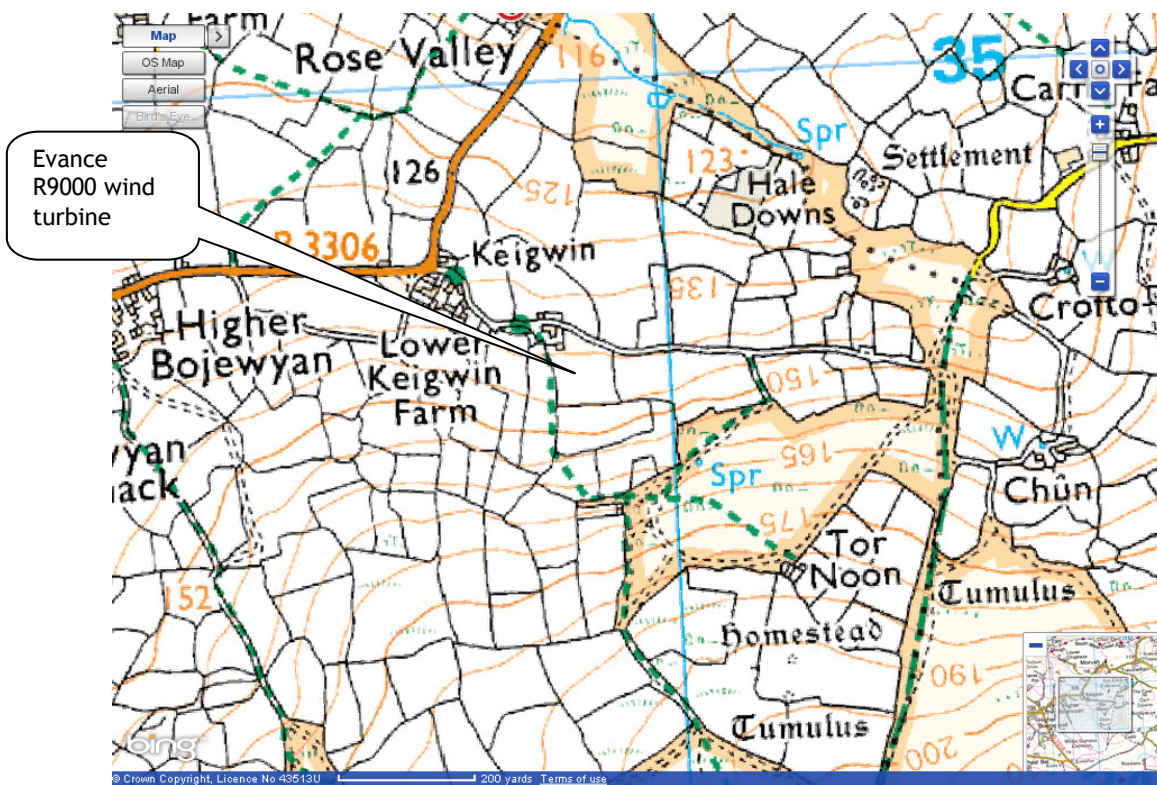


FIGURE 3 - MAP OF THE TEST SITE SHOWING CONTOUR LINES