



CERTIFICATE OF CONFORMANCE

Date of Issue 14 August 2024
Customer TNEI Services Ltd
Certificate Number CONF082408

	Manufacturer	Type	Serial Number
Sound Level Meter	Rion	NL-53	00541103
Preamplifier	Rion	NH-25	34056
Microphone	Rion	UC-59	25637

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..... 14/08/2024
K. Zablocki

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



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 14 November 2024

Certificate Number: UCRT24/2539

Calibrated at & Certificate issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory
K. Mistry

Customer TNEI
7th Floor West One
Forth Banks
Newcastle Upon Tyne
NE1 3PA

Order No. 5001

Test Procedure Procedure TP 1 Calibration of Sound Calibrators

Description Acoustic Calibrator

Identification	Manufacturer	Instrument	Model	Serial No.
	Rion	Calibrator	NC-74	34973250

The calibrator has been tested as specified in Annex B of IEC 60942:2003. As public evidence was available from a testing organisation (PTB) responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the class 1 requirements of IEC 60942:2003.

ANV Job No. UKAS24/11834

Date Received 14 November 2024

Date Calibrated 14 November 2024

Previous Certificate	Dated	18 December 2023
	Certificate No.	UCRT23/2584
	Laboratory	0653

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CERTIFICATE OF CALIBRATION

Certificate Number

UCRT24/2539

UKAS Accredited Calibration Laboratory No. 0653

Page 2 of 2 Pages

Measurements

The sound pressure level generated by the calibrator in its WS2 configuration was measured five times by the Insert Voltage Method using a microphone as detailed below. The mean of the results obtained is shown below. It is corrected to the standard atmospheric pressure of 101.3 kPa (1013 mBar) using original manufacturers information.

Test Microphone	Manufacturer	Type
	Brüel & Kjær	4134

Results

The level of the calibrator output under the conditions outlined above was

94.00 ± 0.10 dB rel 20 µPa

Functional Tests and Observations

The frequency of the sound produced was	1002.84 ± 0.12 Hz
The total distortion was	1.05 ± 0.08 % Distortion

During the measurements environmental conditions were

Temperature	23 to 24 °C
Relative Humidity	44 to 51 %
Barometric Pressure	102.1 to 102.2 kPa

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

The uncertainties refer to the measured values only with no account being taken of the ability of the instrument to maintain its calibration.

A small correction factor may need to be applied to the sound pressure level quoted above if the device is used to calibrate a sound level meter which is fitted with a free-field response microphone. See manufacturers handbook for details.

END

Note:

Calibrator adjusted prior to calibration?	NO
Initial Level	N/A dB
Initial Frequency	N/A Hz

Additional Comments The results on this certificate only relate to the items calibrated as identified above.

None

Calibrated by: B. Bogdan

R 1



CERTIFICATE OF CONFORMANCE

Date of Issue 12 February 2024
Customer TNEI Services Ltd
Certificate Number CONF022401

	Manufacturer	Type	Serial Number
Sound Level Meter	Rion	NL-53	00230075
Preamplifier	Rion	NH-25	32695
Microphone	Rion	UC-59	22952

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..... 12/02/2024
B. Bogdan

BEAUFORT COURT, 17 ROEBUCK WAY, MILTON KEYNES, MK5 8HL

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ACOUSTICS NOISE AND VIBRATION LIMITED. REGISTERED IN ENGLAND NO. 3549028. REGISTERED OFFICE AS ABOVE.



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 03 January 2024

Certificate Number: UCRT24/1018

Calibrated at & Certificate issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory
K. Mistry

Customer TNEI
7th Floor West One
Forth Banks
Newcastle Upon Tyne
NE1 3PA

Order No. 5001
Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator
Identification

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00386759
Rion	Firmware		2.0
Rion	Pre Amplifier	NH-25	76909
Rion	Microphone	UC-59	12756
Rion	Calibrator	NC-75	34334830
	Calibrator adaptor type if applicable		NC-75-022

Performance Class 1

Test Procedure TP 10. SLM 61672-3:2013

Procedures from IEC 61672-3:2013 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2013 Yes

If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2013

Date Received 22 December 2023

ANV Job No. UKAS23/12873

Date Calibrated 03 January 2024

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of IEC 61672-1:2013.

Previous Certificate	Dated	Certificate No.	Laboratory
	23 February 2022	TCRT22/1159	ANV Measurement Systems

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CERTIFICATE OF CALIBRATION

Certificate Number

UCRT24/1018

UKAS Accredited Calibration Laboratory No. 0653

Page 2 of 2 Pages

Sound Level Meter instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	NL-52/NL-42 Description for IEC 61672-1		
SLM instruction manual ref / issue	No. 56034 21-03	Source	Rion
Date provided or internet download date	19 March 2021		
	Case Corrections	Wind Shield Corrections	Mic Pressure to Free Field Corrections
Uncertainties provided	Yes	Yes	Yes
Total expanded uncertainties within the requirements of IEC 61672-1:2013			YES
Specified or equivalent Calibrator	Specified		
Customer or Lab Calibrator	Lab Calibrator		
Calibrator adaptor type if applicable	NC-75-022		
Calibrator cal. date	18 December 2023		
Calibrator cert. number	UCRT23/2596		
Calibrator cal cert issued by Lab	0653		
Calibrator SPL @ STP	94.01	dB	Calibration reference sound pressure level
Calibrator frequency	1000.00	Hz	Calibration check frequency
Reference level range	Single	dB	
Accessories used or corrected for during calibration - None			

Environmental conditions during tests	Start	End	
Temperature	22.59	22.71	± 0.30 °C
Humidity	54.2	54.3	± 3.00 %RH
Ambient Pressure	97.79	97.87	± 0.03 kPa

Indication at the Calibration Check Frequency			
Initial indicated level	95.3	dB	Adjusted indicated level 94.0 dB
Uncertainty of calibrator used for Indication at the Calibration Check Frequency ±			0.10 dB
Self Generated Noise			
Microphone installed -	Less Than	21.0	dB A Weighting
Microphone replaced with electrical input device - UR = Under Range indicated			
Weighting	A	C	Z
	12.1	16.2	22.0
	dB	dB	dB
	UR	UR	UR

Self Generated Noise reported for information only and not used to assess conformance to a requirement

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Additional Comments The results on this certificate only relate to the items calibrated as identified above.

None

END

Calibrated by: K. Zablocki

R 1



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 05 August 2024

Certificate Number: UCRT24/2059

Calibrated at & Certificate issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

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Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page	1	of	2	Pages
Approved Signatory				
B. Bogdan				

Customer TNEI
7th Floor West One
Forth Banks
Newcastle Upon Tyne
NE1 3PA

Order No.	5001																												
Description	Sound Level Meter / Pre-amp / Microphone / Associated Calibrator																												
Identification	<table><thead><tr><th>Manufacturer</th><th>Instrument</th><th>Type</th><th>Serial No. / Version</th></tr></thead><tbody><tr><td>Rion</td><td>Sound Level Meter</td><td>NL-52</td><td>00520923</td></tr><tr><td>Rion</td><td>Firmware</td><td></td><td>2.1</td></tr><tr><td>Rion</td><td>Pre Amplifier</td><td>NH-25</td><td>11770</td></tr><tr><td>Rion</td><td>Microphone</td><td>UC-59</td><td>21320</td></tr><tr><td>Rion</td><td>Calibrator</td><td>NC-75</td><td>34334830</td></tr><tr><td></td><td>Calibrator adaptor type if applicable</td><td></td><td>NC-75-022</td></tr></tbody></table>	Manufacturer	Instrument	Type	Serial No. / Version	Rion	Sound Level Meter	NL-52	00520923	Rion	Firmware		2.1	Rion	Pre Amplifier	NH-25	11770	Rion	Microphone	UC-59	21320	Rion	Calibrator	NC-75	34334830		Calibrator adaptor type if applicable		NC-75-022
Manufacturer	Instrument	Type	Serial No. / Version																										
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Rion	Microphone	UC-59	21320																										
Rion	Calibrator	NC-75	34334830																										
	Calibrator adaptor type if applicable		NC-75-022																										

Performance Class

1

Test Procedure

TP 10. SLM 61672-3:2013

Procedures from IEC 61672-3:2013 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2013 Yes

If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2013

Date Received

02 August 2024

ANV Job No.

UKAS24/08565

Date Calibrated

05 August 2024

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of IEC 61672-1:2013.

Previous Certificate

Dated

Certificate No.

Laboratory

Initial Calibration

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATE OF CALIBRATION

Certificate Number

UCRT24/2059

UKAS Accredited Calibration Laboratory No. 0653

Page 2 of 2 Pages

Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	NL-52/NL-42 Description for IEC 61672-1		
SLM instruction manual ref / issue	No. 56034 21-03	Source	Rion
Date provided or internet download date	19 March 2021		
	Case Corrections	Wind Shield Corrections	Mic Pressure to Free Field Corrections
Uncertainties provided	Yes	Yes	Yes
Total expanded uncertainties within the requirements of IEC 61672-1:2013			YES
Specified or equivalent Calibrator	Specified		
Customer or Lab Calibrator	Lab Calibrator		
Calibrator adaptor type if applicable	NC-75-022		
Calibrator cal. date	10 July 2024		
Calibrator cert. number	UCRT24/1958		
Calibrator cal cert issued by Lab	0653		
Calibrator SPL @ STP	94.00	dB	Calibration reference sound pressure level
Calibrator frequency	1000.00	Hz	Calibration check frequency
Reference level range	Single	dB	

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15

Note - The Extension Cable was used between the SLM and the pre-amp for this calibration.

Environmental conditions during tests	Start	End	
Temperature	24.48	24.36	± 0.30 °C
Humidity	62.2	59.0	± 3.00 %RH
Ambient Pressure	100.04	100.02	± 0.03 kPa

Indication at the Calibration Check Frequency

Initial indicated level	94.1	dB	Adjusted indicated level	94.0	dB
Uncertainty of calibrator used for Indication at the Calibration Check Frequency ±			0.10		

Self Generated Noise

Microphone installed - Less Than 20.7 dB A Weighting

Microphone replaced with electrical input device - UR = Under Range indicated

Weighting	A	C	Z
	13.8	19.6	25.6
	dB	dB	dB
	UR	UR	UR

Self Generated Noise reported for information only and not used to assess conformance to a requirement

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Additional Comments The results on this certificate only relate to the items calibrated as identified above.

None

END

Calibrated by: C. Hirlav

R 3



CERTIFICATE OF CONFORMANCE

Date of Issue 14 August 2024
Customer TNEI Services Ltd
Certificate Number CONF082403

	Manufacturer	Type	Serial Number
Sound Level Meter	Rion	NL-53	00541098
Preamplifier	Rion	NH-25	34051
Microphone	Rion	UC-59	25632

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...

[Redacted Signature]
K. Zablocki

Position. Calibration Technician Date..... 14/08/2024

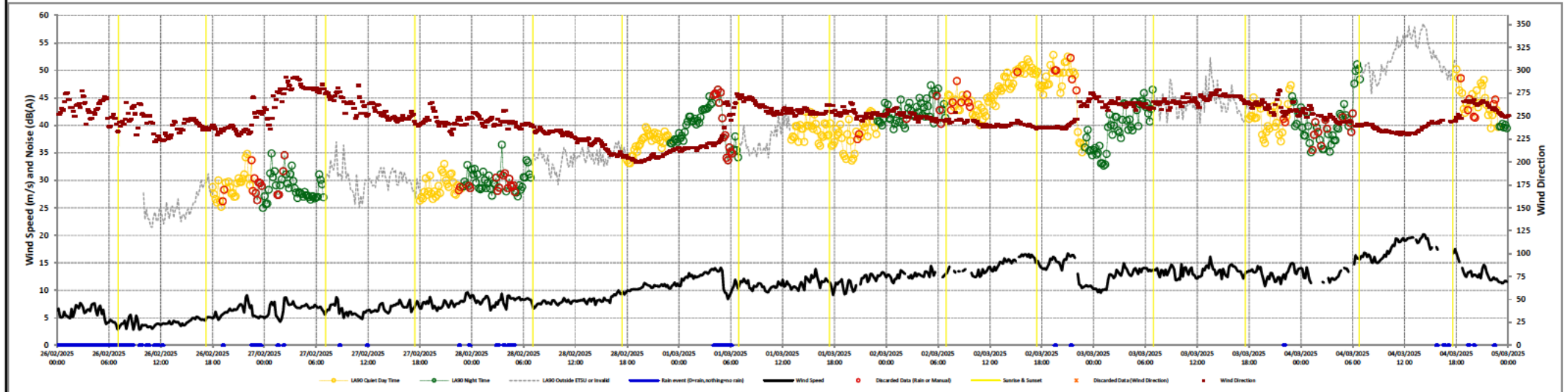
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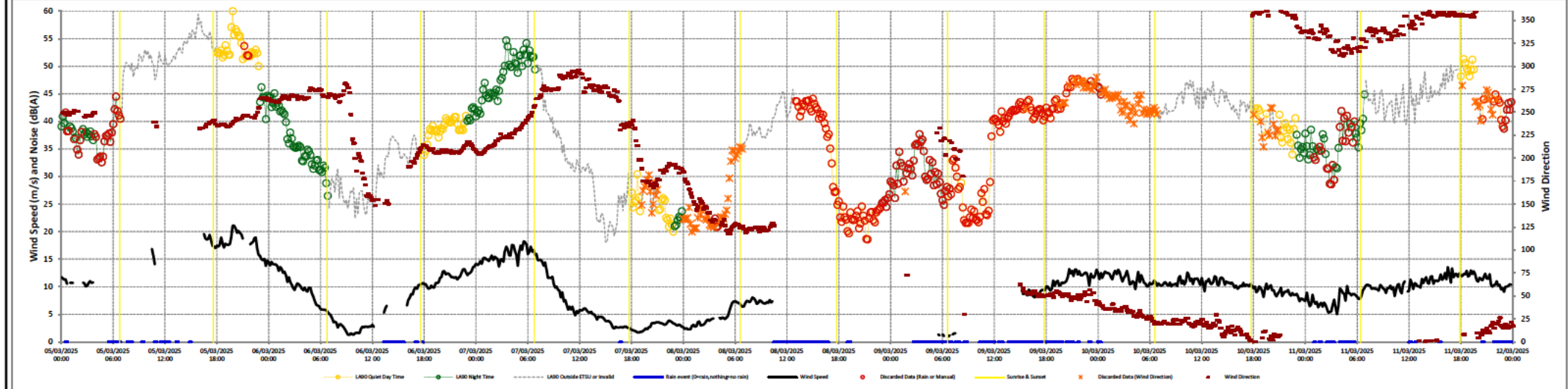
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Annex 5 – Time Series Graphs

26/02/2025 to 05/03/2025



05/03/2025 to 12/03/2025



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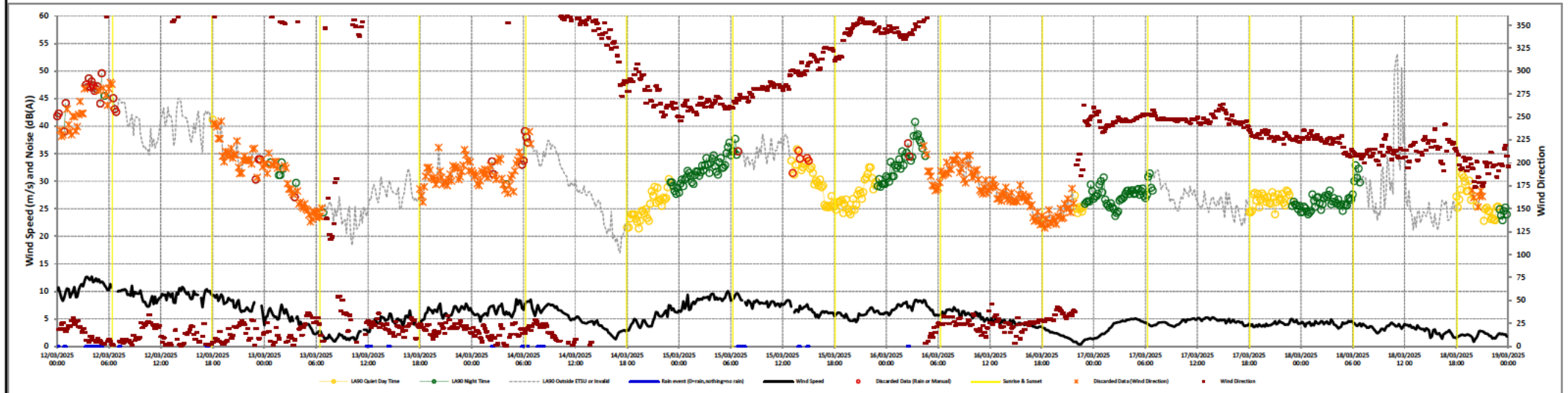
Client Neshion Ltd

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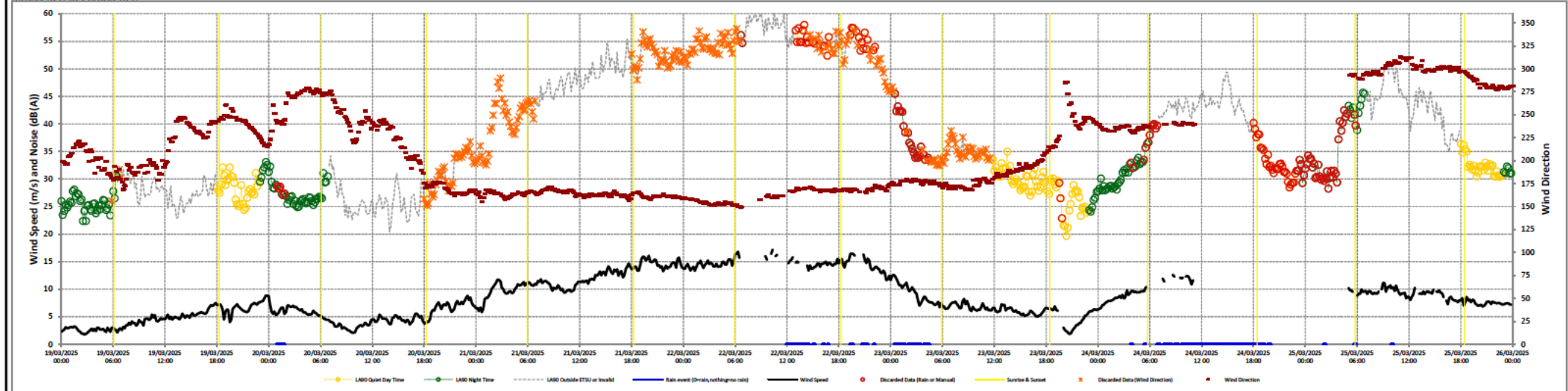
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12/03/2025 to 19/03/2025



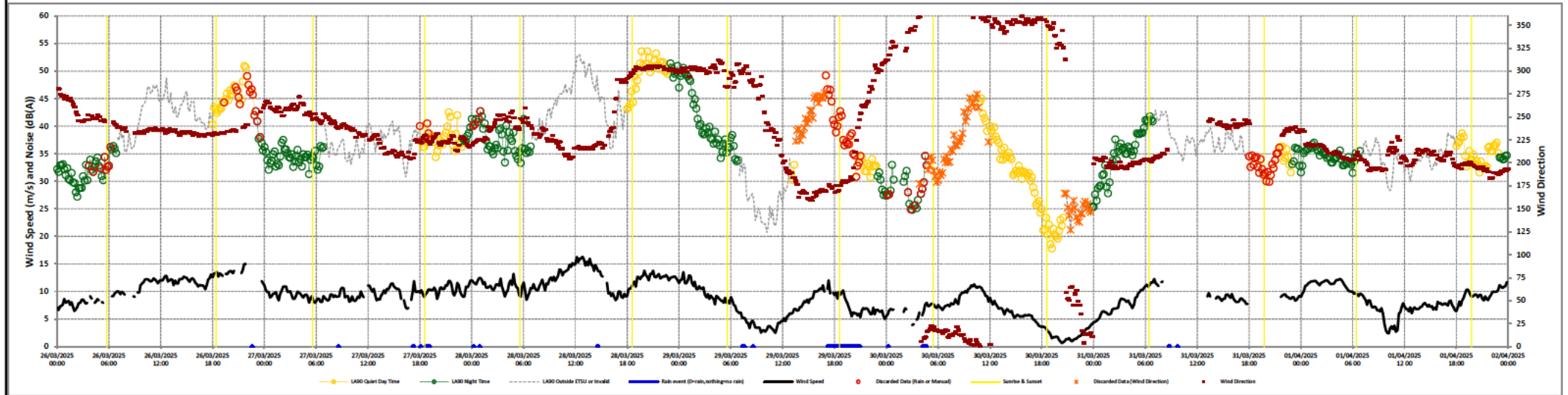
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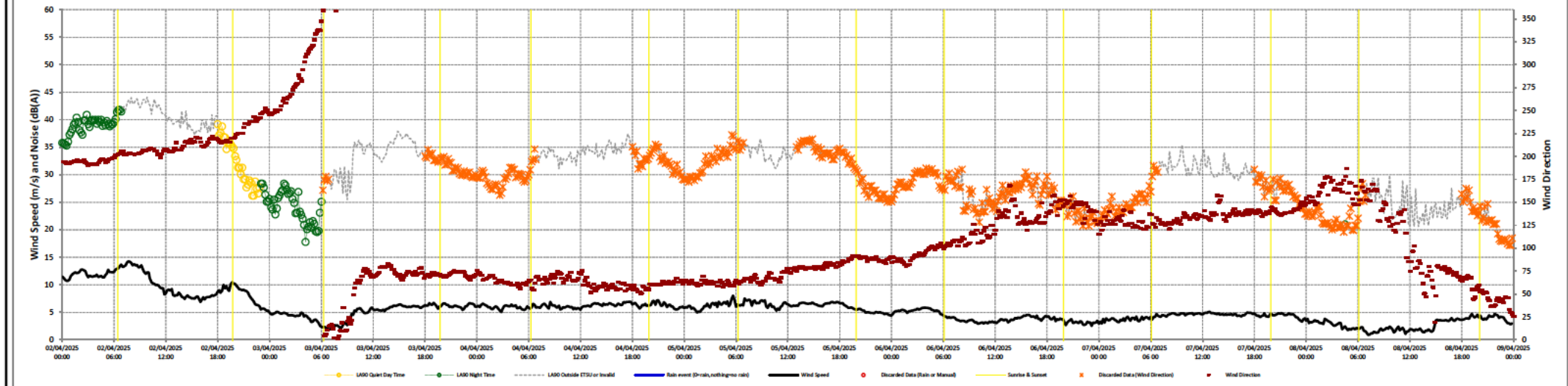
Project Neshion Energy Park
Client Neshion Ltd
Title Time Serie for Norden Page 2 of 5
Date 10/03/2026



26/03/2025 to 02/04/2025



02/04/2025 to 09/04/2025



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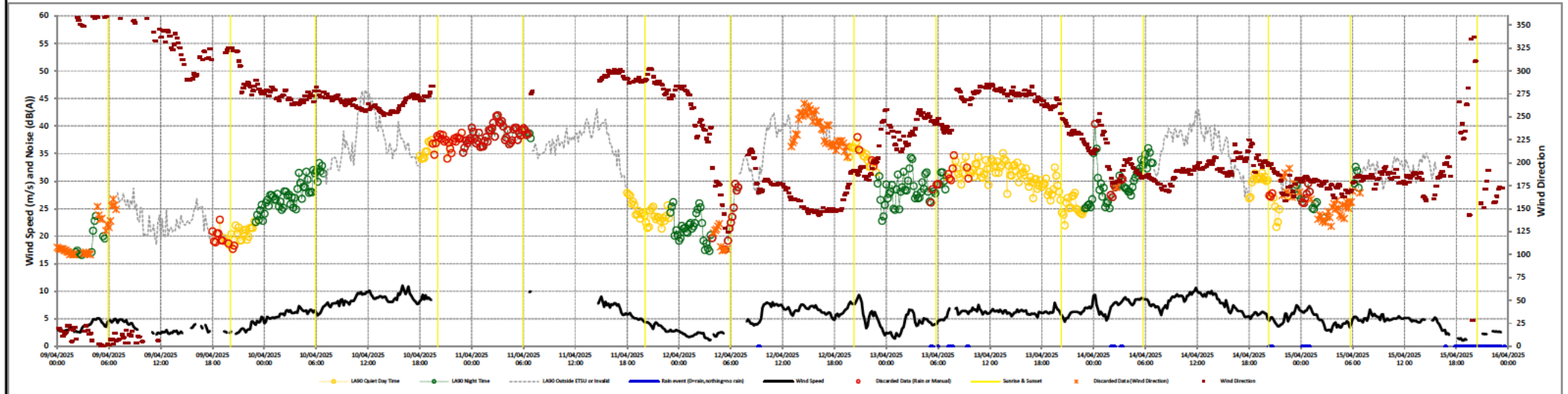
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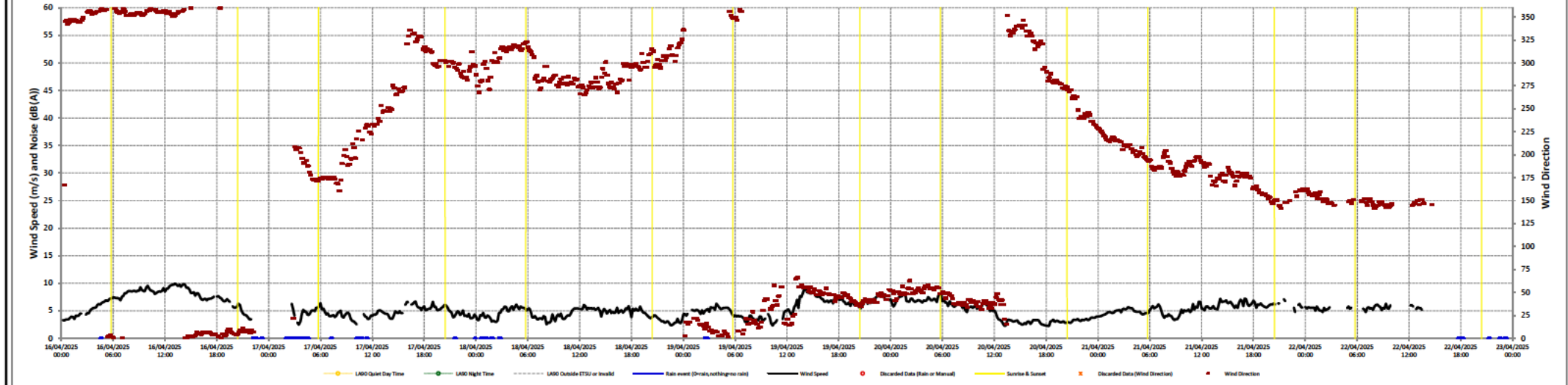
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09/04/2025 to 16/04/2025



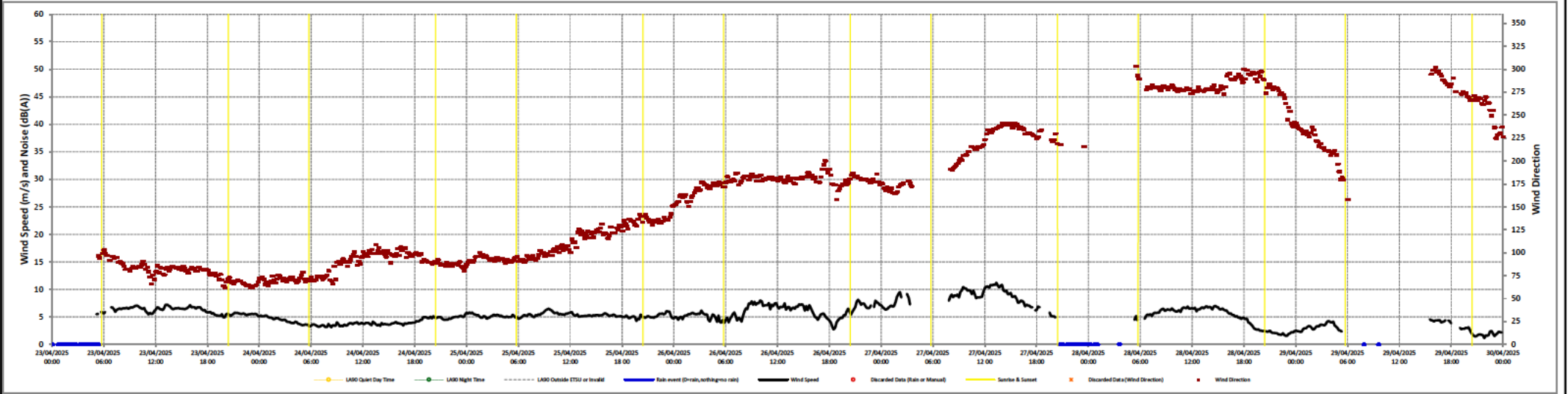
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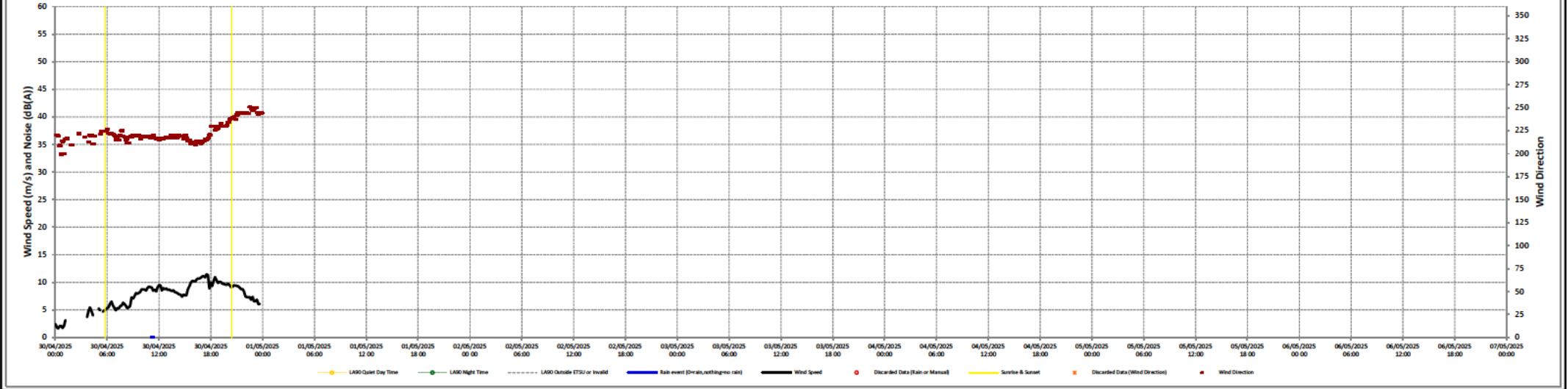
Project Neshion Energy Park
Client Neshion Ltd
Title Time Serie for Norden Page 4 of 5
Date 10/03/2026



23/04/2025 to 30/04/2025



30/04/2025 to 07/05/2025



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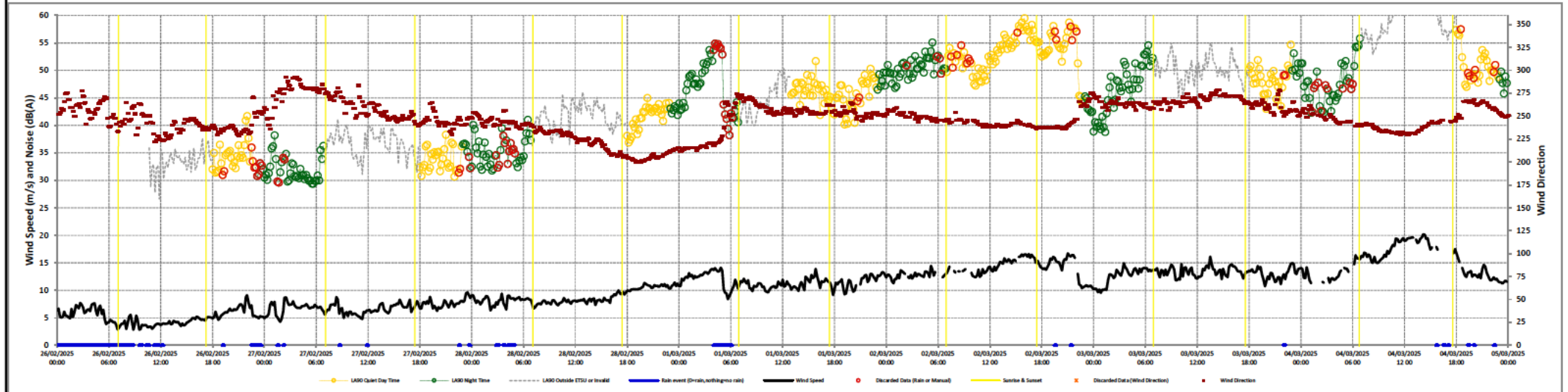
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Title Time Serie for Norden Page 5 of 5

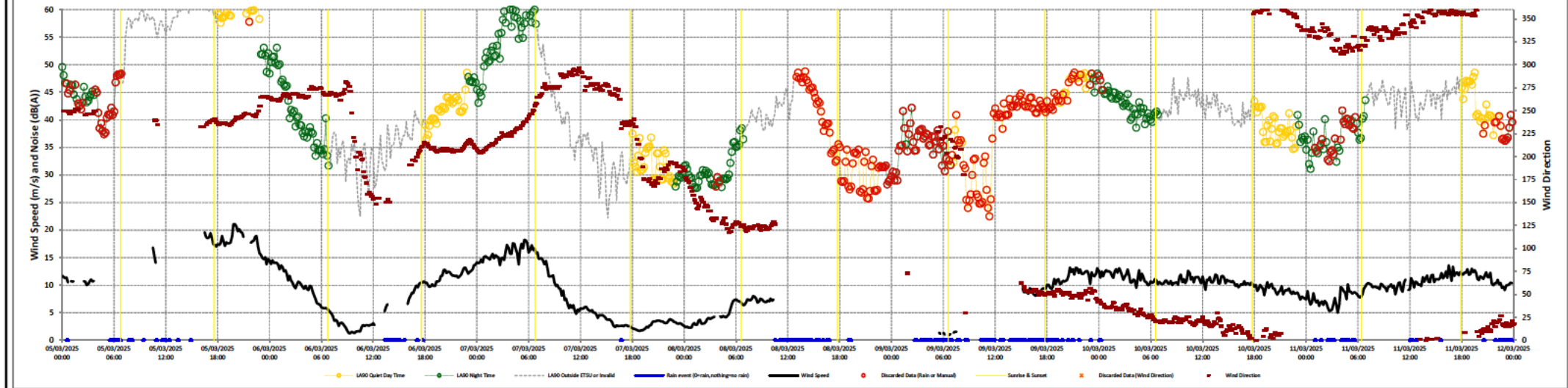
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26/02/2025 to 05/03/2025



05/03/2025 to 12/03/2025



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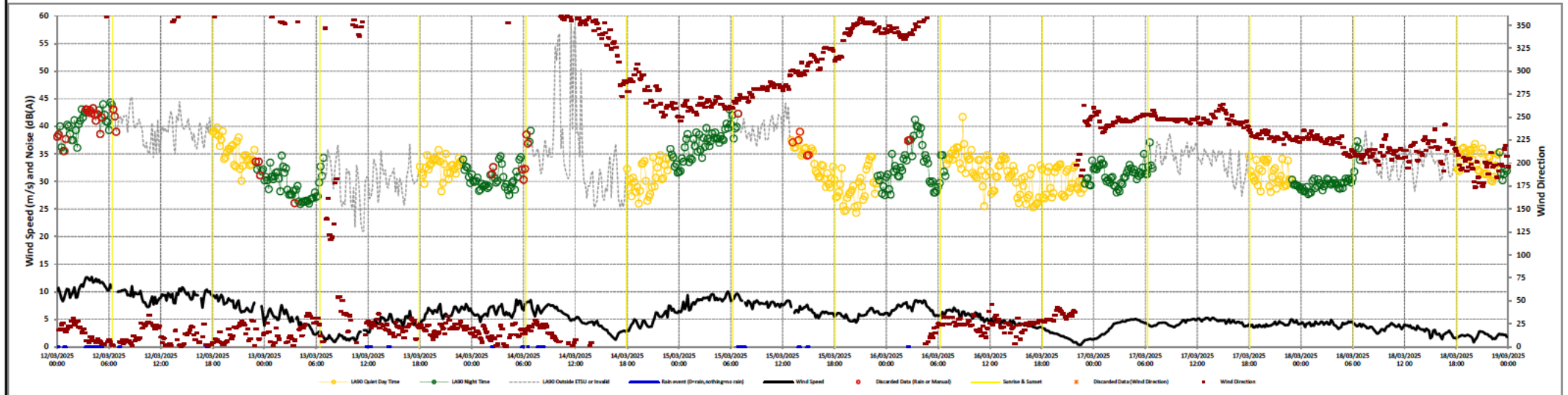
Client Neshion Ltd

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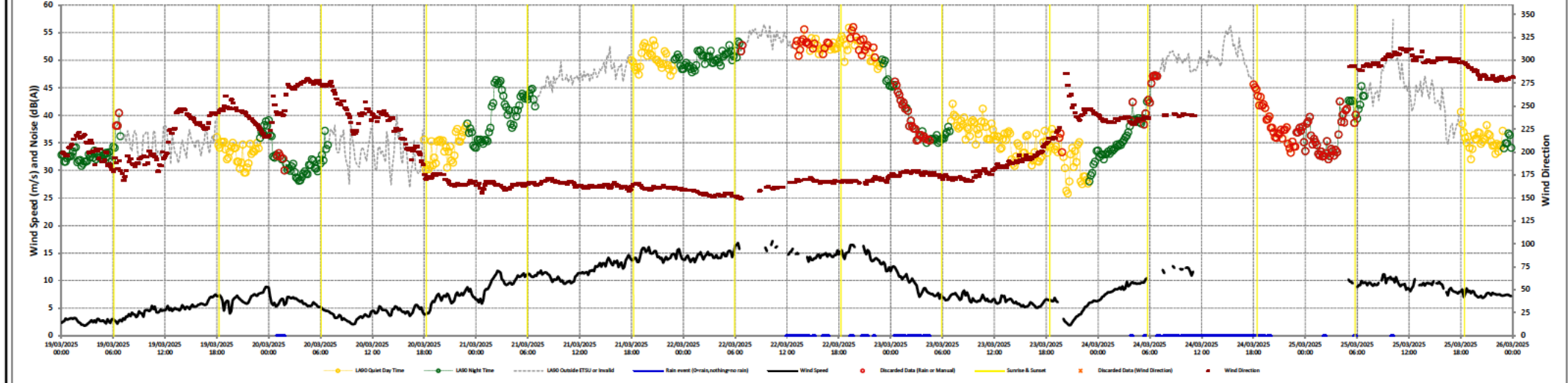
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12/03/2025 to 19/03/2025



19/03/2025 to 26/03/2025



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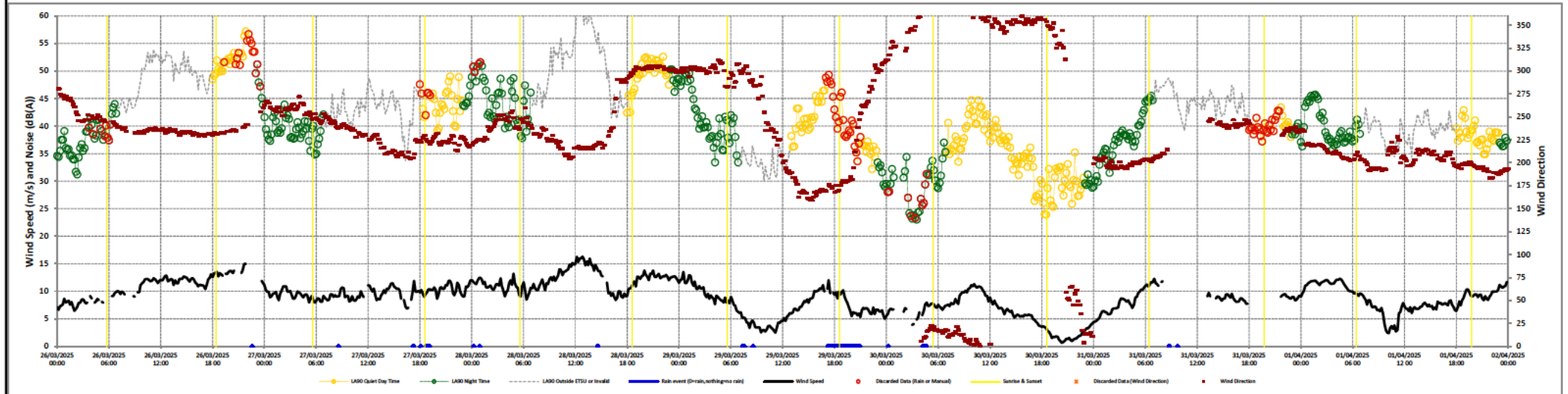
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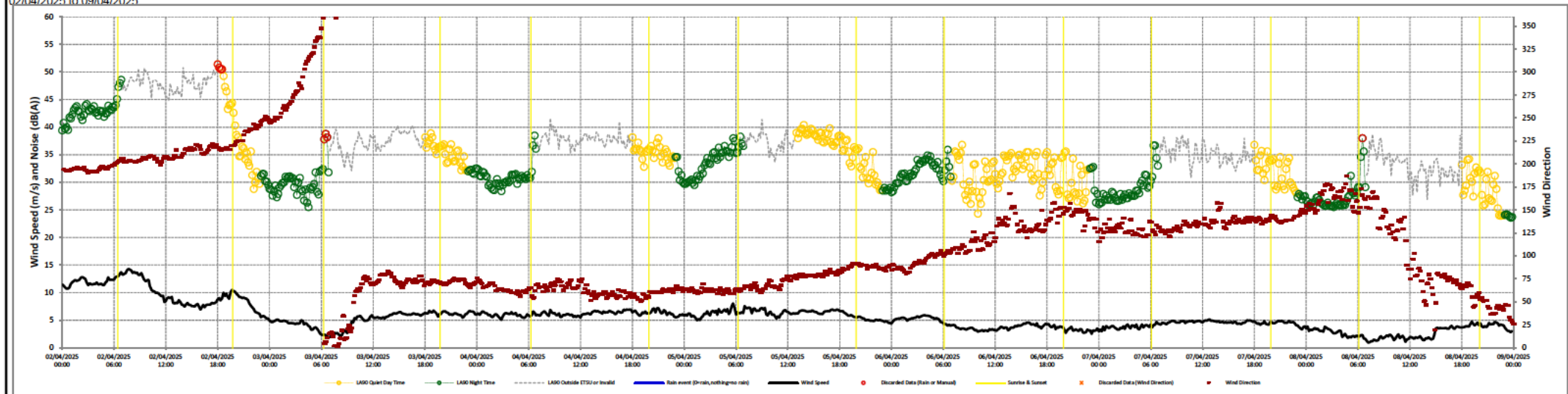
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26/03/2025 to 02/04/2025



02/04/2025 to 09/04/2025



Project Neshion Energy Park

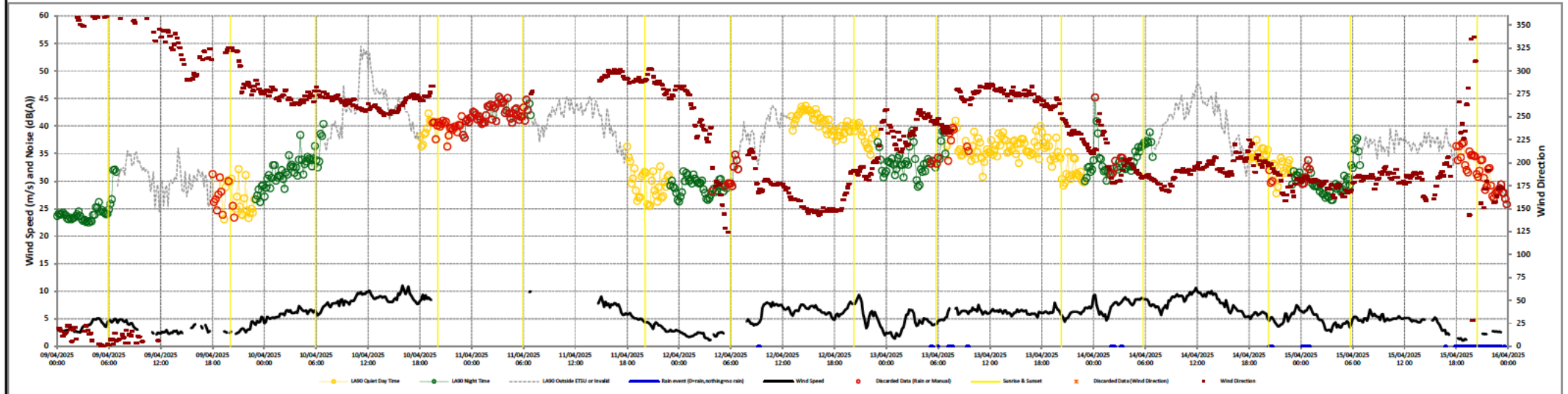
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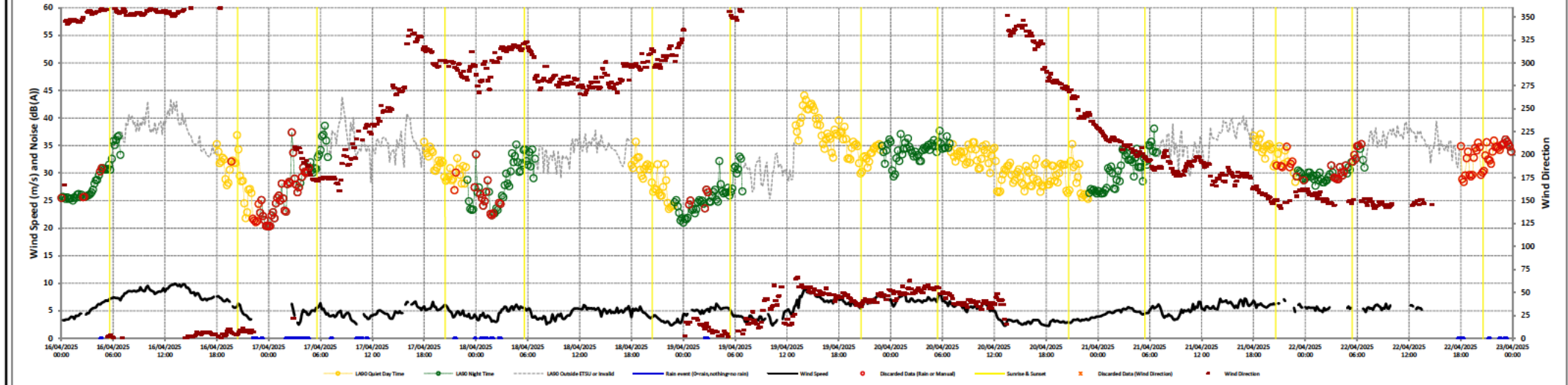
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09/04/2025 to 16/04/2025



16/04/2025 to 23/04/2025



Project Neshion Energy Park

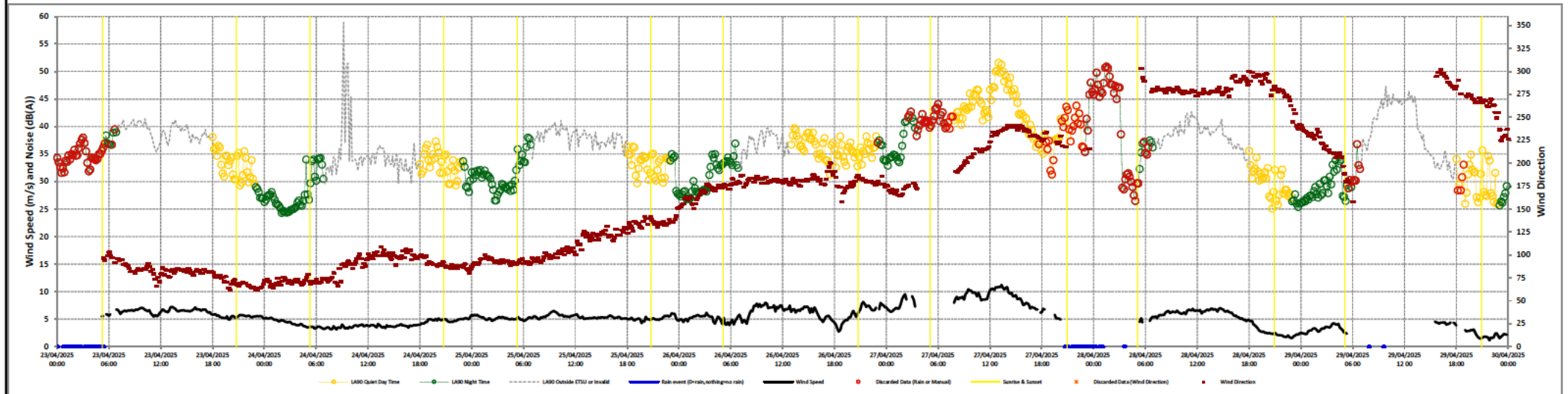
Client Neshion Ltd

Title Time Series for Quoy Lee Page 4 of 5

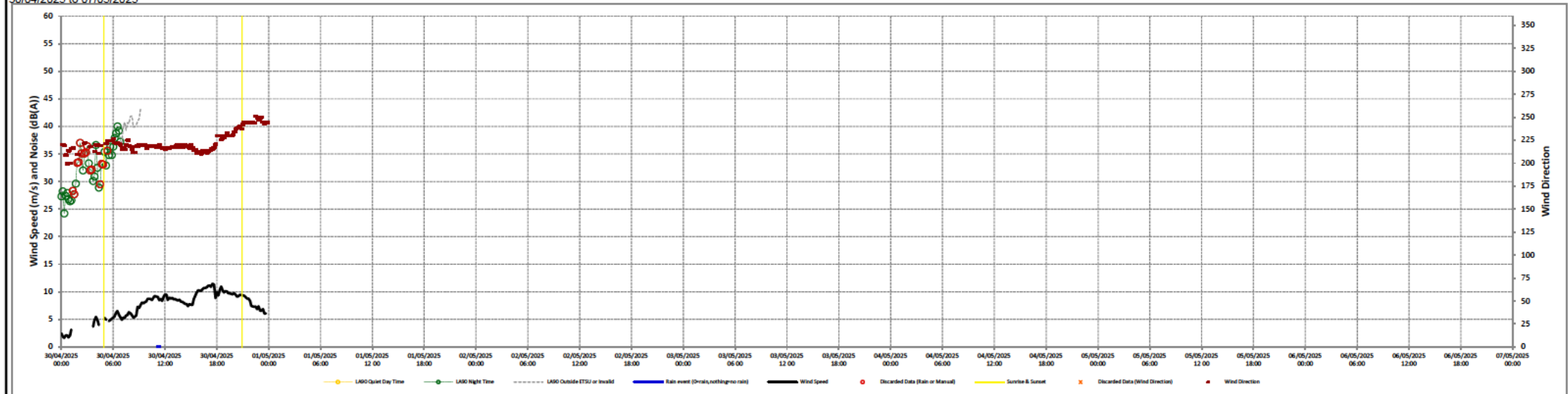
Date 10/03/2026



23/04/2025 to 30/04/2025



30/04/2025 to 07/05/2025



Project Neshion Energy Park

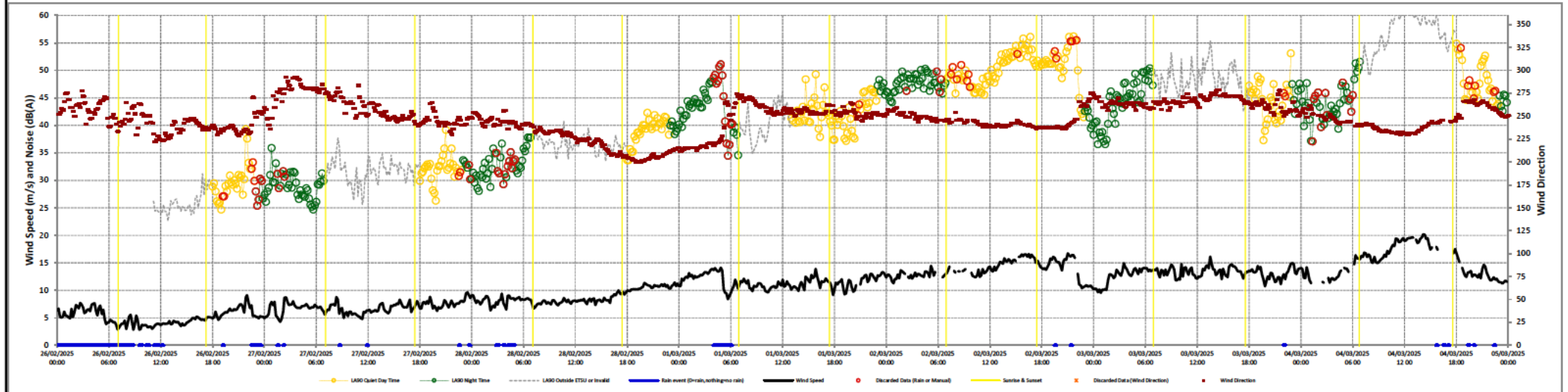
Client Neshion Ltd

Title Time Serie for Quoy Lee Page 5 of 5

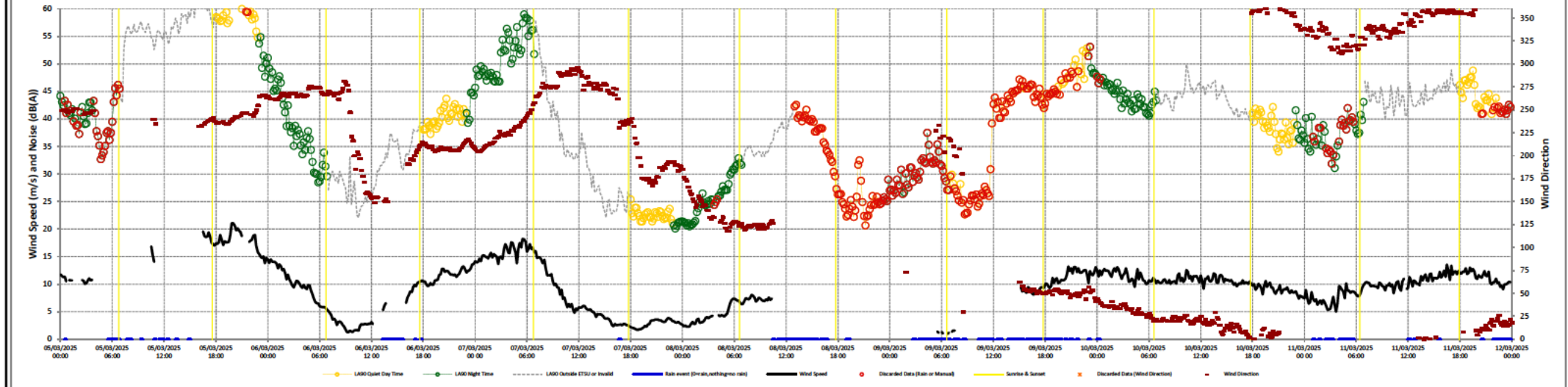
Date 10/03/2026



26/02/2025 to 05/03/2025



05/03/2025 to 12/03/2025



Project Neshion Energy Park

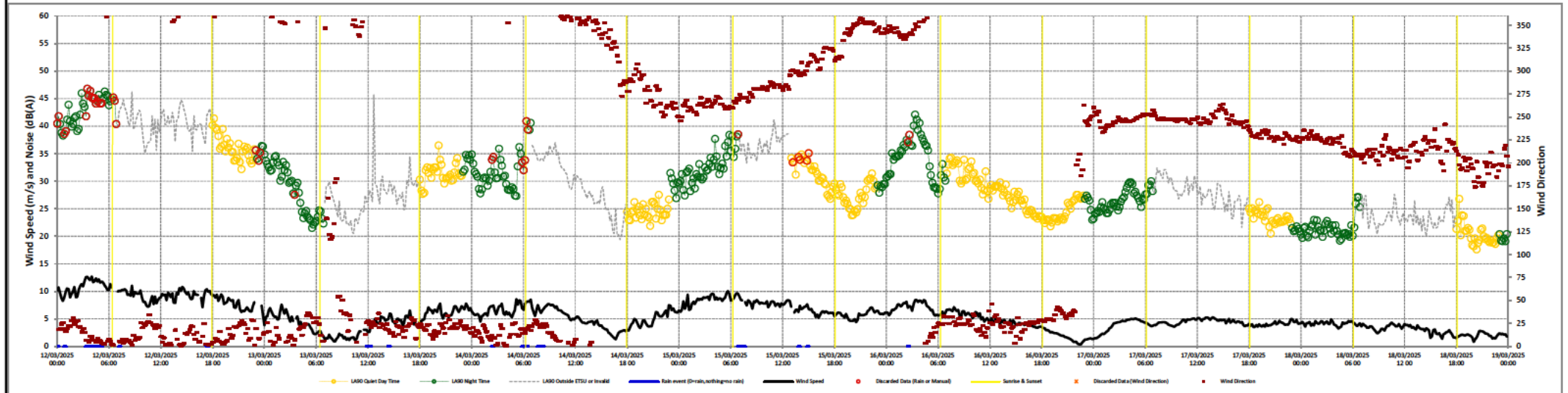
Client Neshion Ltd

Title Time Series for No.7 Maidenfield Page 1 of 5

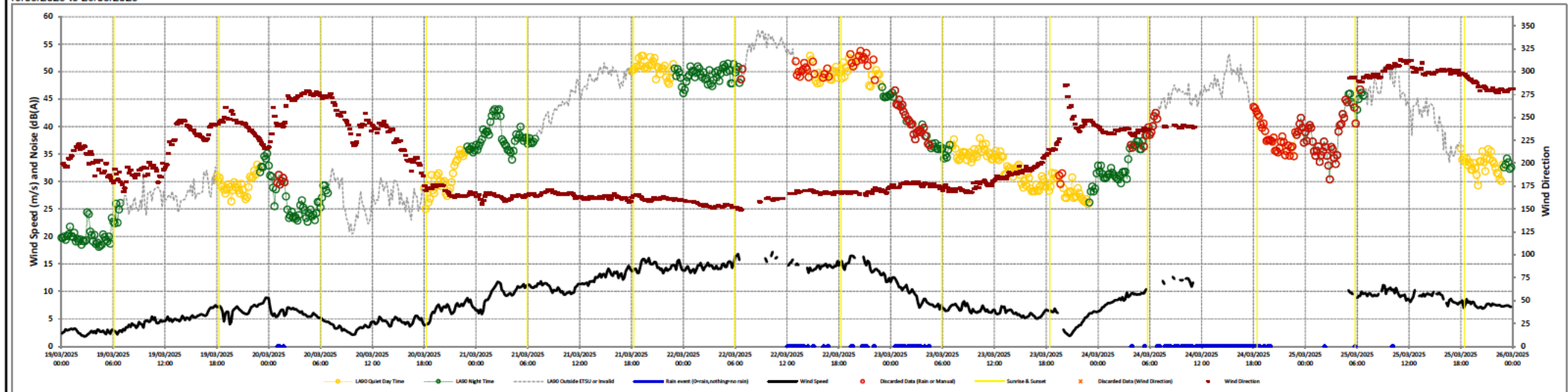
Date 10/03/2026



12/03/2025 to 19/03/2025



19/03/2025 to 26/03/2025



Project Neshion Energy Park

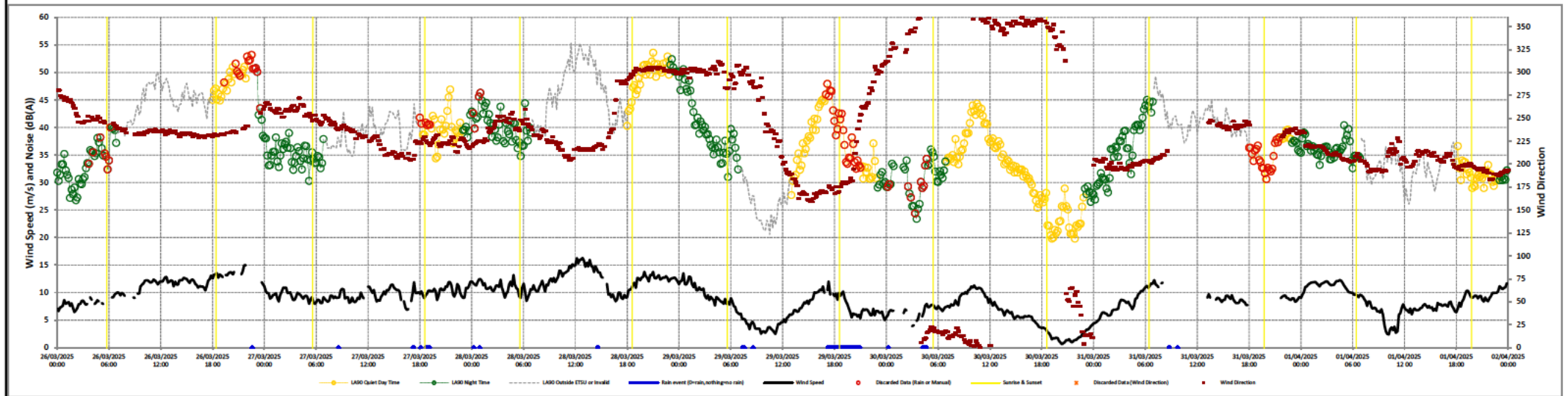
Client Neshion Ltd

Title Time Series for No.7 Maidenfield Page 2 of 5

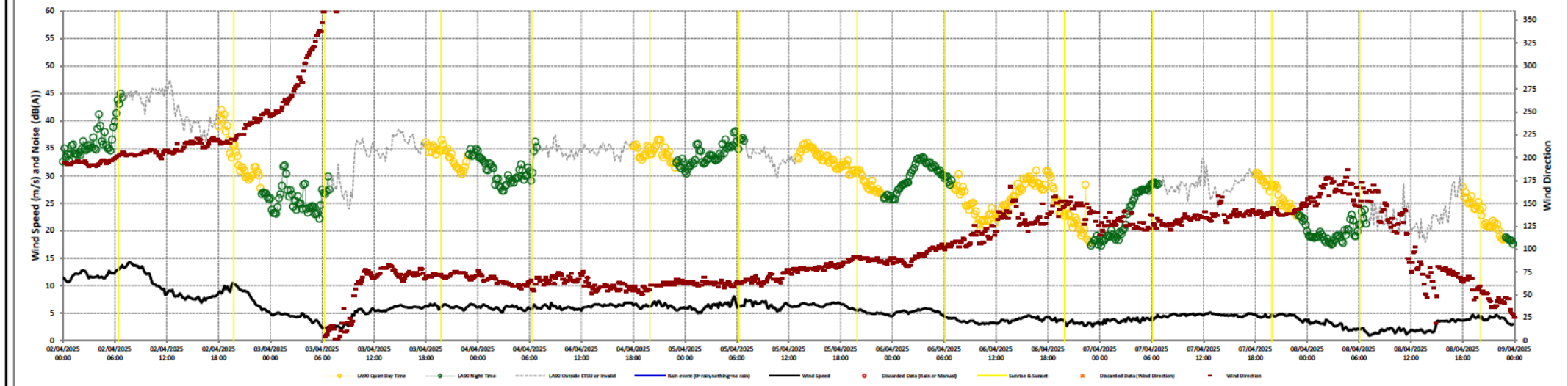
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26/03/2025 to 02/04/2025



02/04/2025 to 09/04/2025



Project Neshion Energy Park

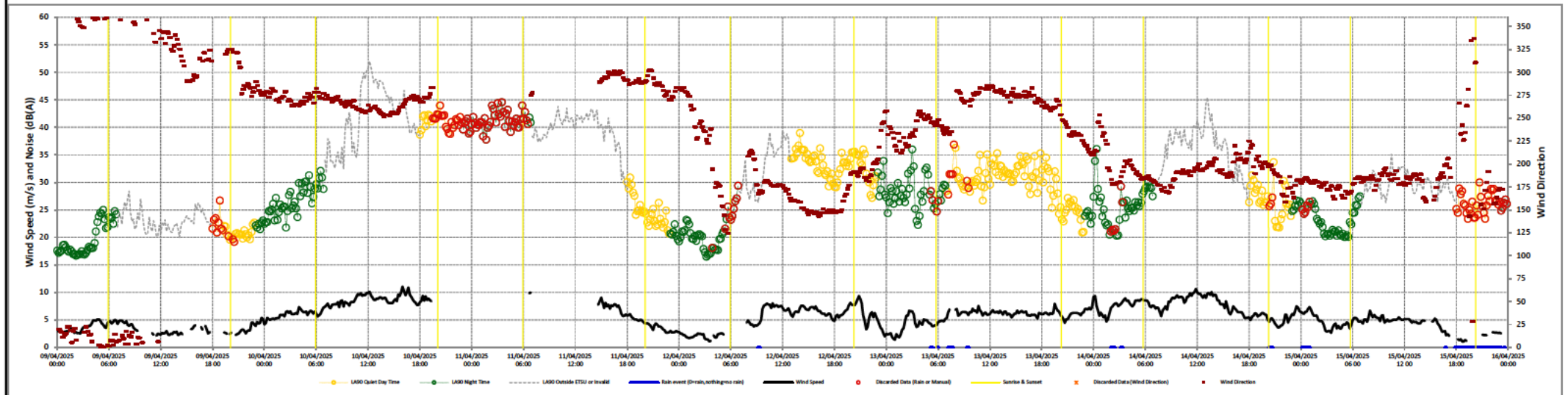
Client Neshion Ltd

Title Time Series for No.7 Maidenfield Page 3 of 5

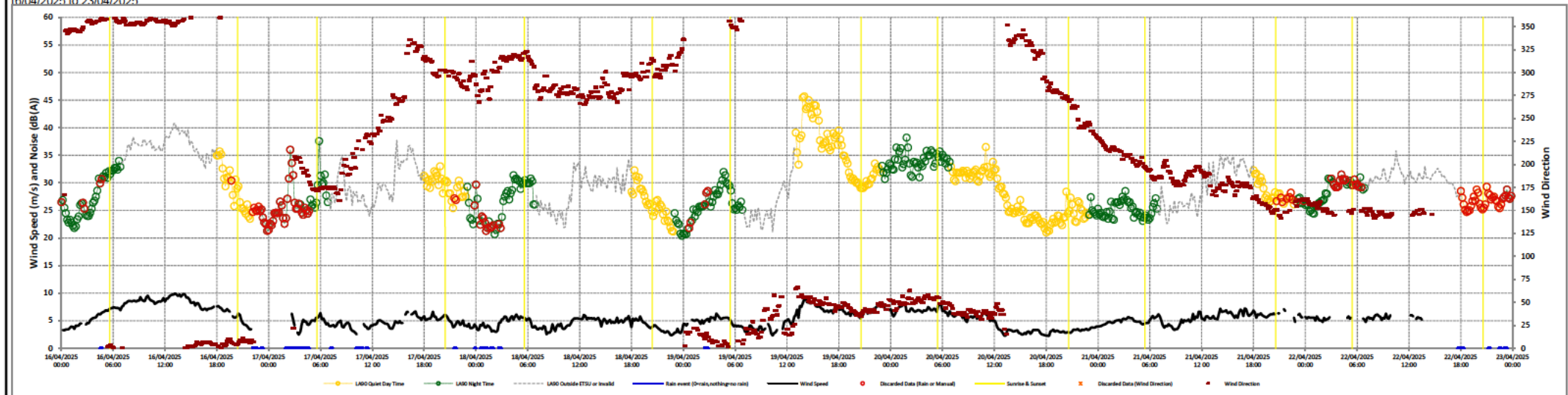
Date 10/03/2026



09/04/2025 to 16/04/2025



16/04/2025 to 23/04/2025



Project Neshion Energy Park

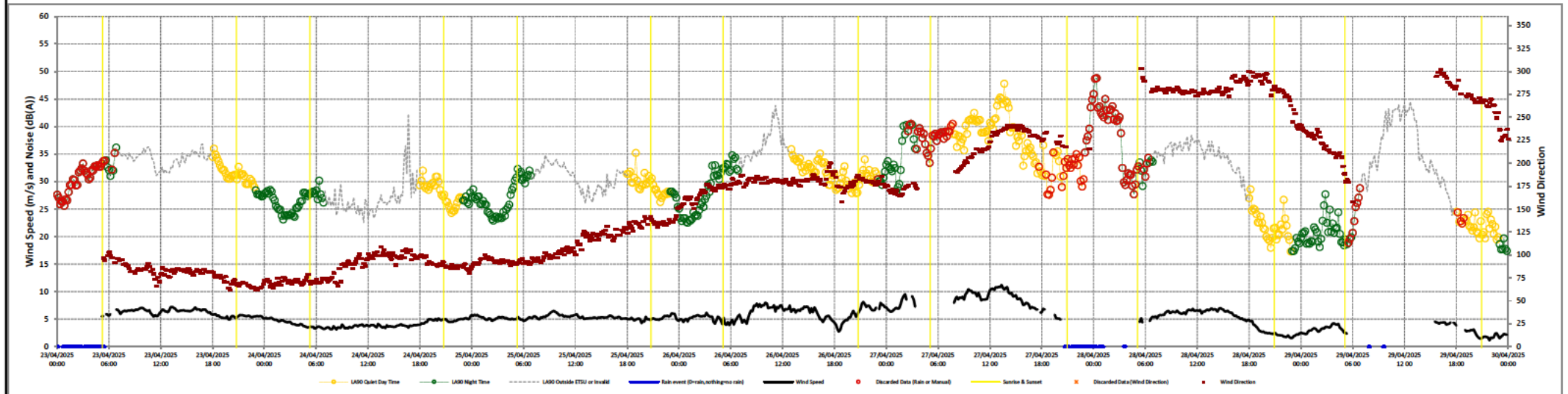
Client Neshion Ltd

Title Time Series for No.7 Maidenfield Page 4 of 5

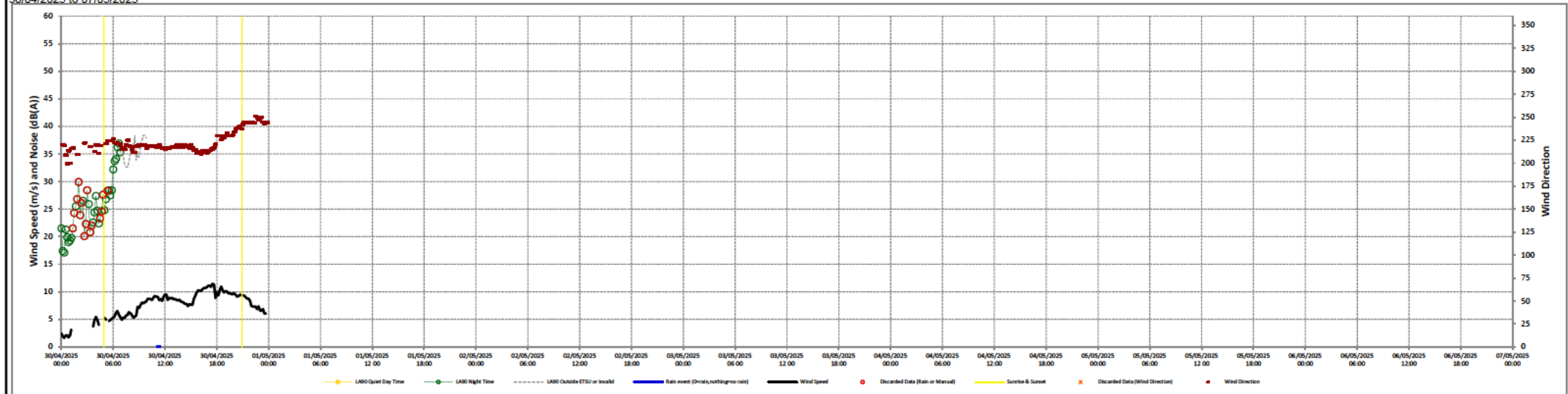
Date 10/03/2026



23/04/2025 to 30/04/2025



30/04/2025 to 07/05/2025



Project Neshion Energy Park

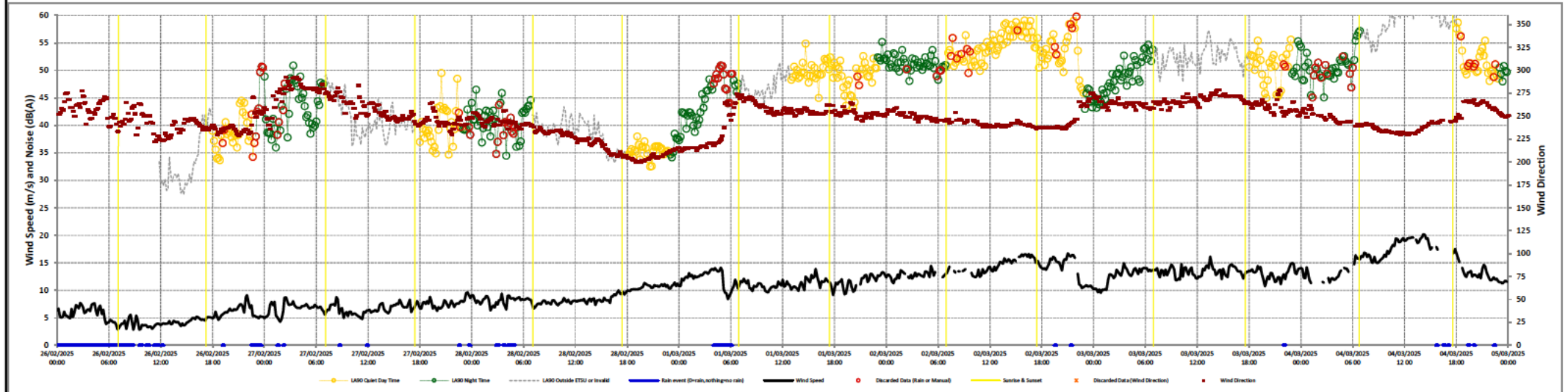
Client Neshion Ltd

Title Time Serie for No.7 Maidenfield Page 5 of 5

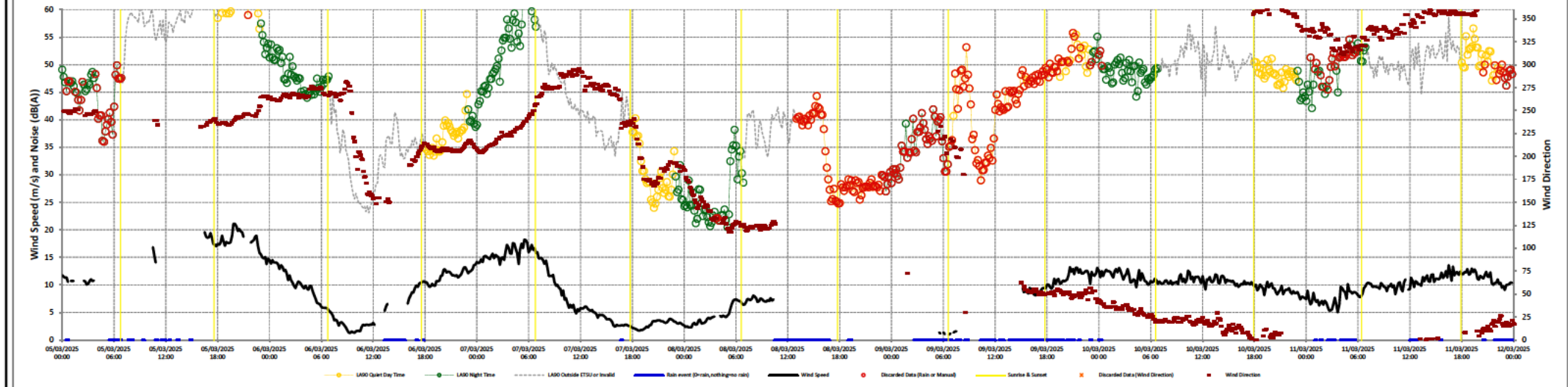
Date 10/03/2026



26/02/2025 to 05/03/2025



05/03/2025 to 12/03/2025



Project Neshion Energy Park

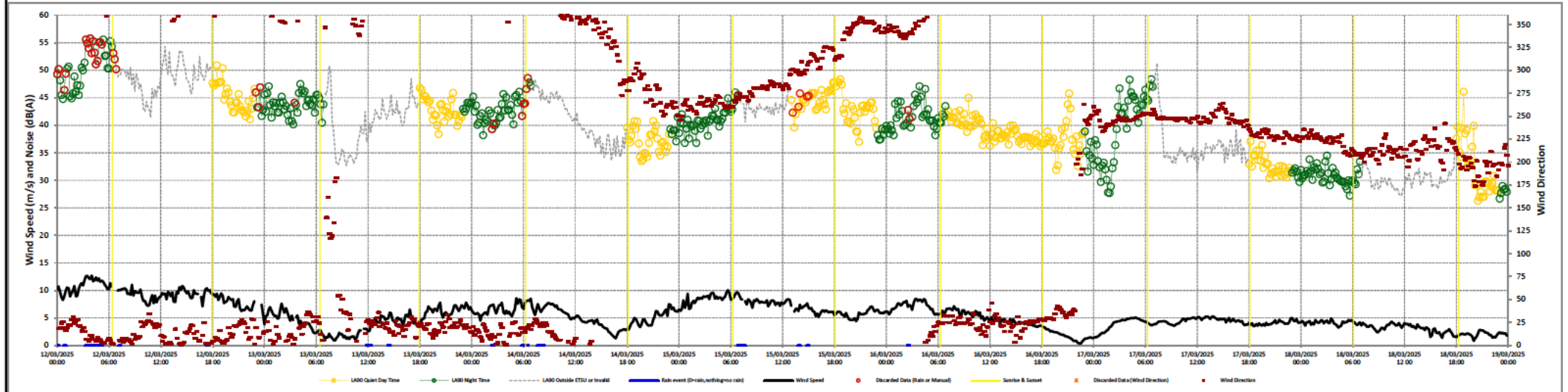
Client Neshion Ltd

Title Time Serie for Laxobiggin Page 1 of 5

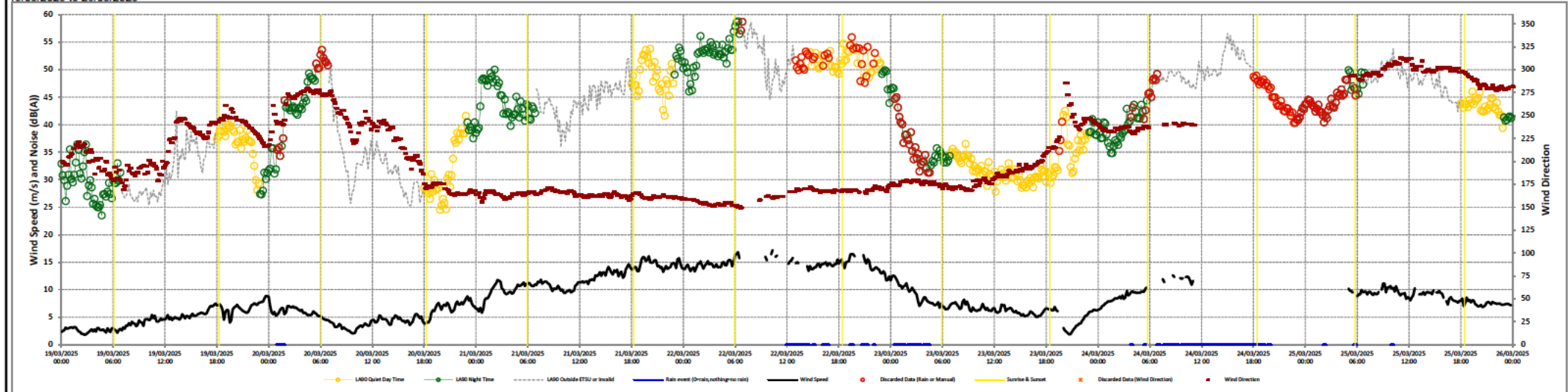
Date 10/03/2026



12/03/2025 to 19/03/2025



19/03/2025 to 26/03/2025



Project Neshion Energy Park

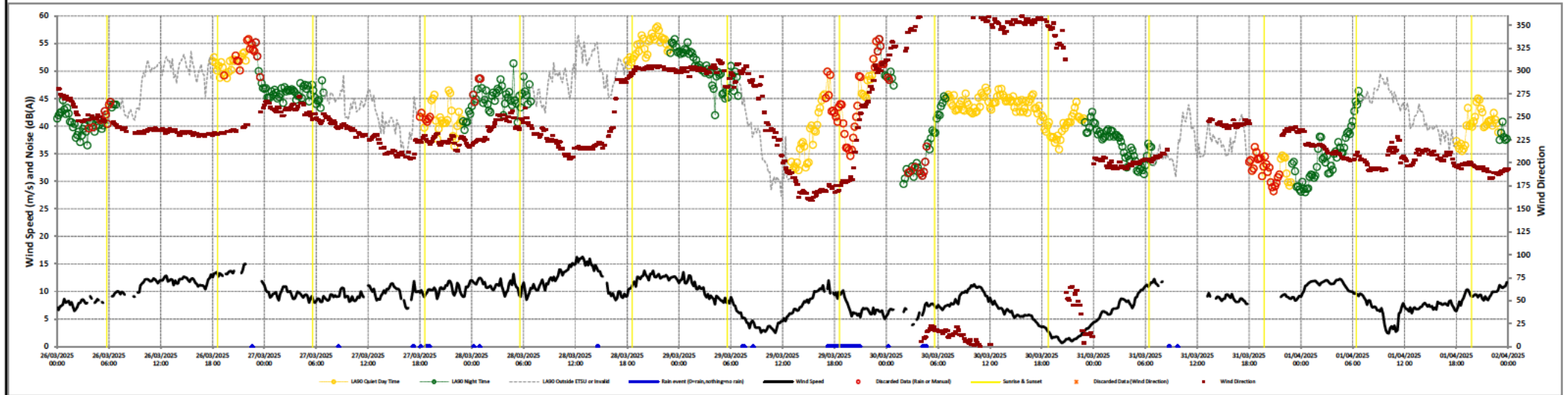
Client Neshion Ltd

Title Time Serie for Laxobiggin Page 2 of 5

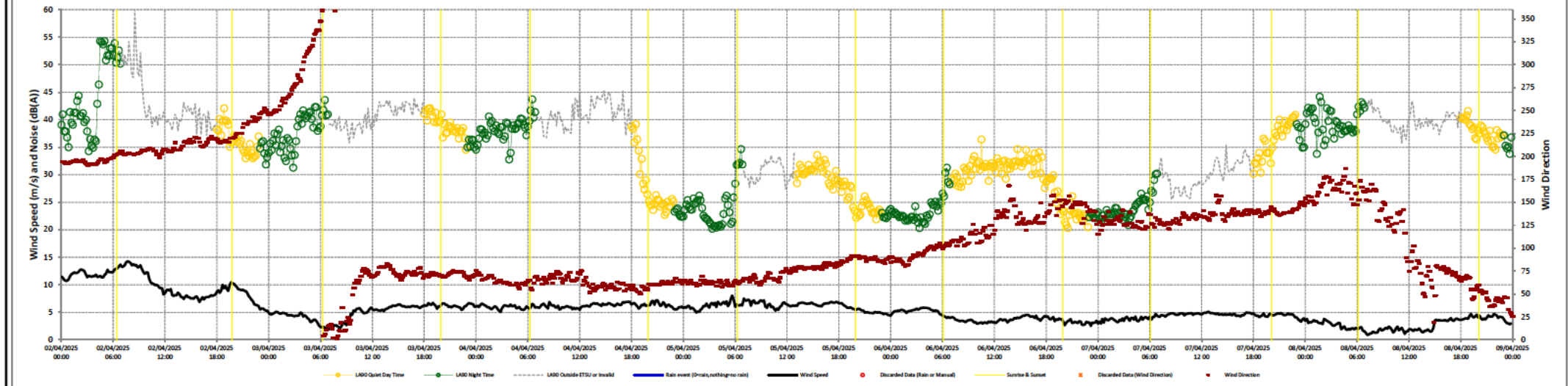
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26/03/2025 to 02/04/2025



02/04/2025 to 09/04/2025



Project Neshion Energy Park

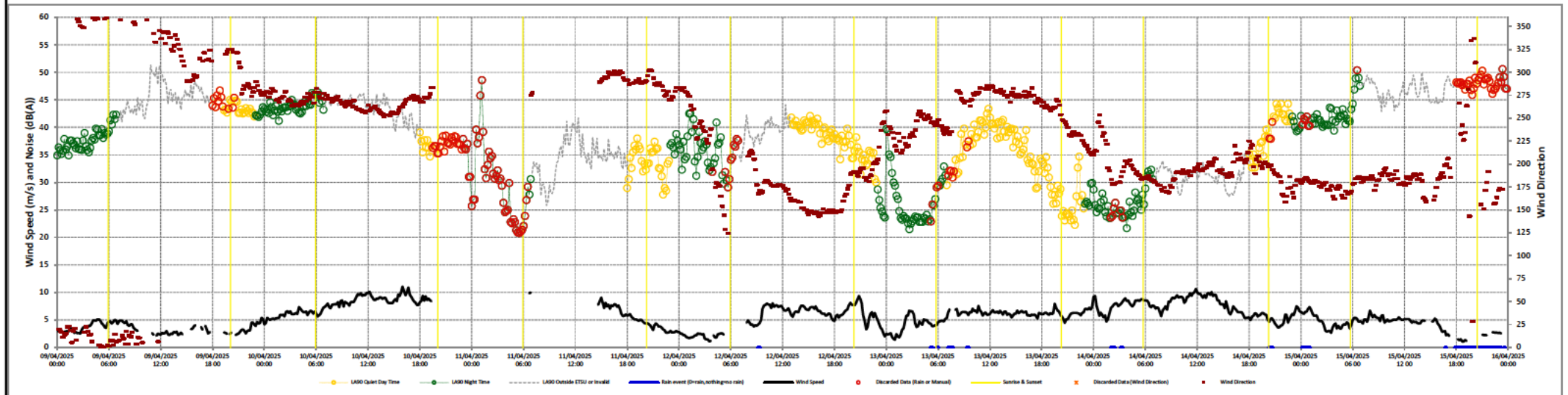
Client Neshion Ltd

Title Time Series for Laxobiggin Page 3 of 5

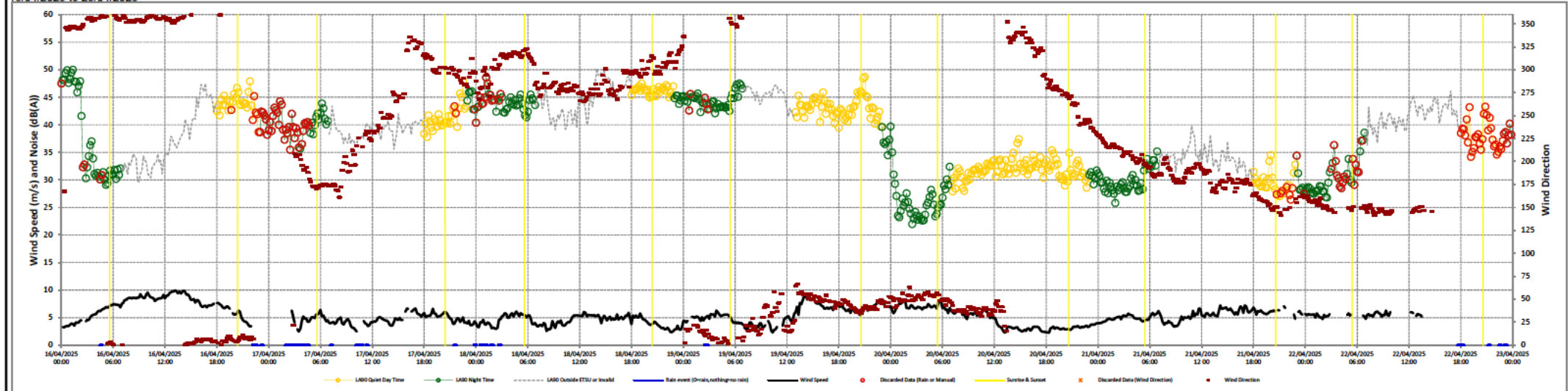
Date 10/03/2026



09/04/2025 to 16/04/2025



16/04/2025 to 23/04/2025



Project Neshion Energy Park

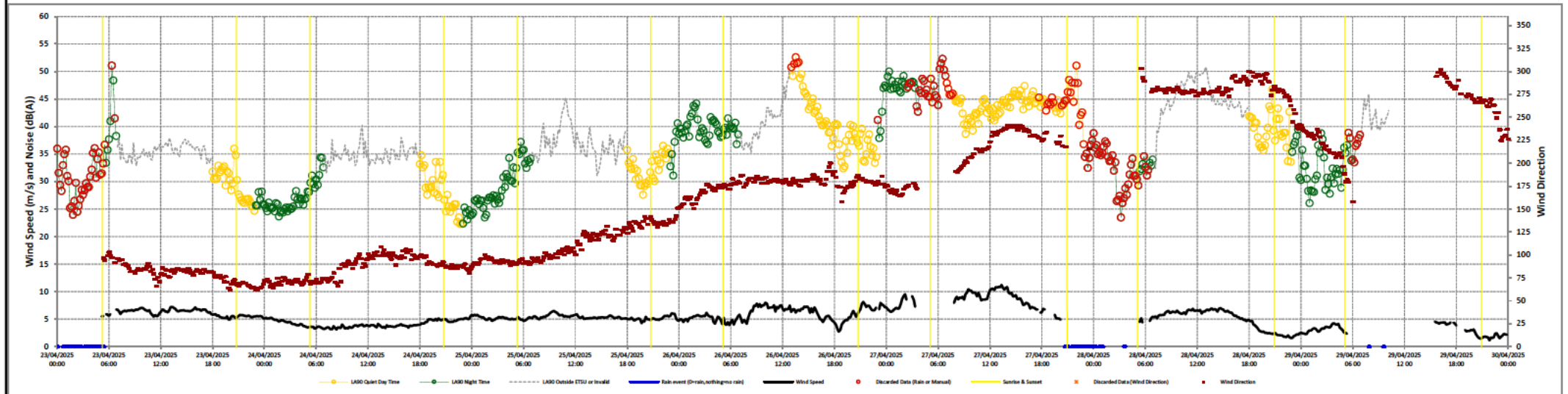
Client Neshion Ltd

Title Time Serie for Laxobiggin Page 4 of 5

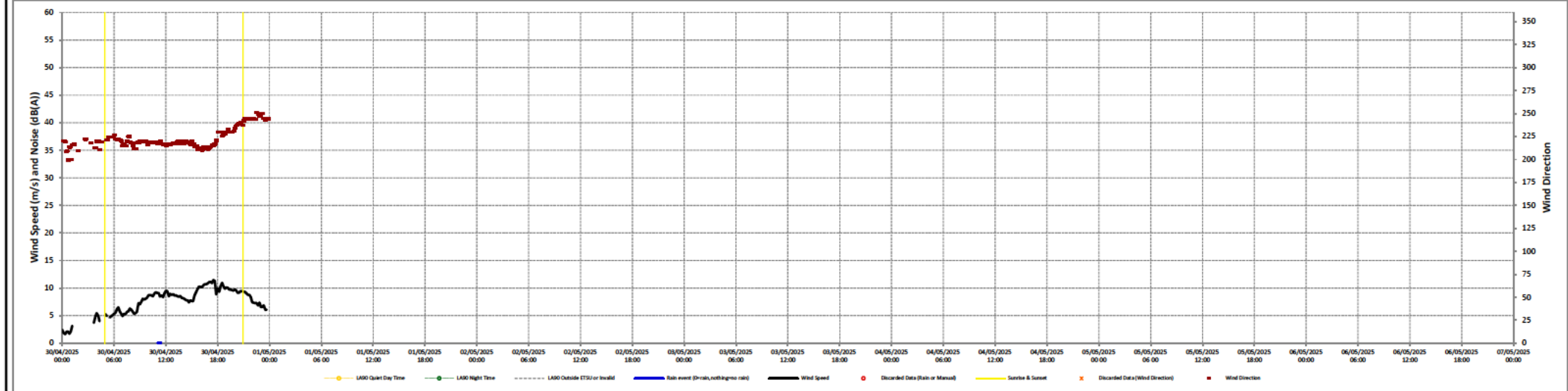
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30/04/2025 to 07/05/2025



Project Neshion Energy Park

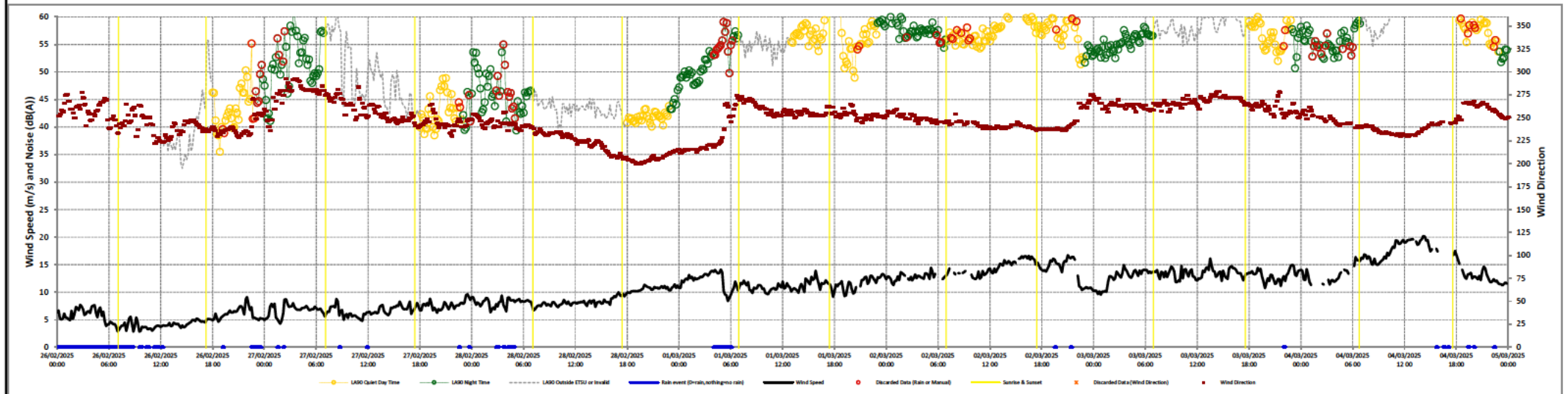
Client Neshion Ltd

Title Time Serie for Laxobiggin Page 5 of 5

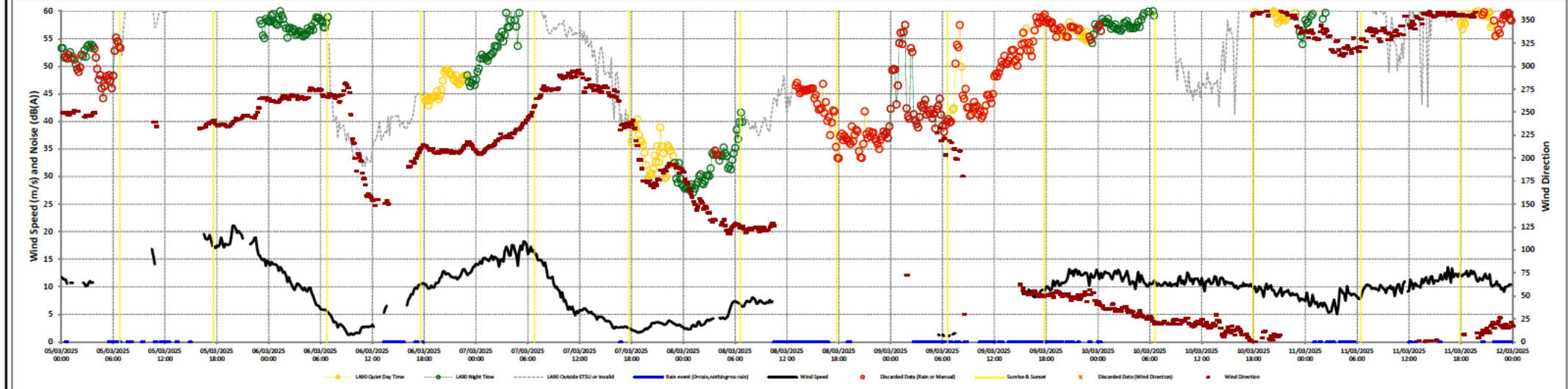
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26/02/2025 to 05/03/2025



05/03/2025 to 12/03/2025



Project Neshion Energy Park

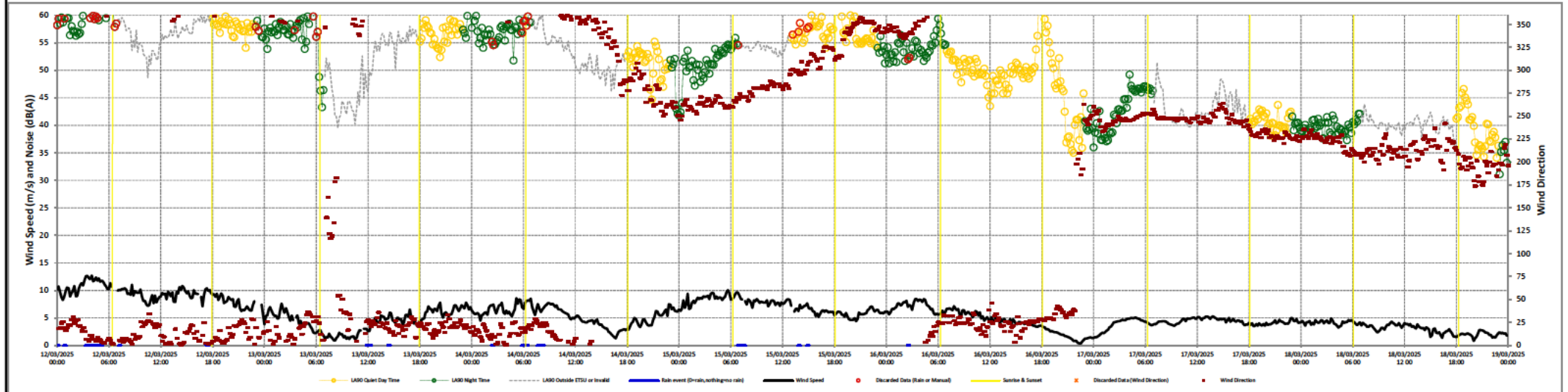
Client Neshion Ltd

Title Time Serie for Garth Farmhouse Page 1 of 5

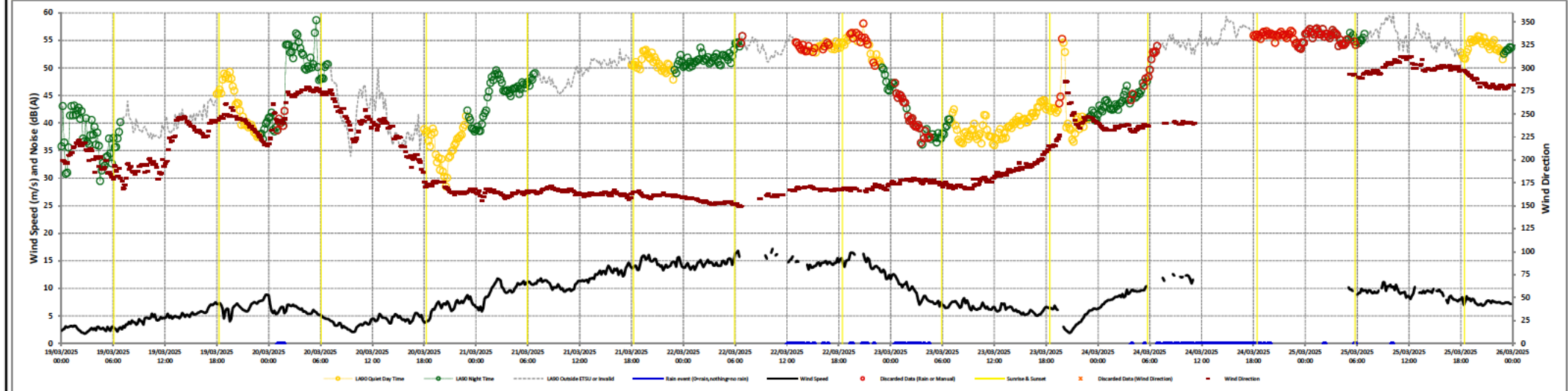
Date 10/03/2026



12/03/2025 to 19/03/2025



19/03/2025 to 26/03/2025



Project Neshion Energy Park

Client Neshion Ltd

Title Time Serie for Garth Farmhouse Page 2 of 5

Date 10/03/2026

