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APPENDIX 12-7

LiDAR installation Report

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Lidar Installation Report

Taurbeg Wind Farm
Extension of Operational
Life



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DOCUMENT DETAILS

Client: **Taurbeg Ltd.**

Project Title: **Taurbeg Wind Farm Extension of Operational Life**

Project Number: **231030**

Document Title: **Lidar Installation Report**

Document File Name: **LiDAR Installation Report_Statkraft Taurbeg WF - 2024.10.02 - 231030**

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Rev	Status	Date	Author(s)	Approved By
01	Draft	02/10/2024	JS	NOD
02	Final	02/10/2024	JS	NOD

Site Details			
Site Name:	Taurbeg Windfarm	Client Name	Taurbeg Ltd.
Project Number	231030		

Site Information			
Deployment Start date & Time	02/10/2024 @ 18.30	Client Contact Details	Damien.Lyons@statkraft.com
Landowner contact details	Damien.Lyons@statkraft.com	Site Access Procedure	Damien.Lyons@statkraft.com
Site Access Route	52°15'24.8"N 9°07'42.5"W	Nearest Town/ Postcode	Newmarket

Observed Conditions			
Wind Speed	Wind Direction	Precipitation	Visibility
4.12m/s	092 degrees	0.0mm	>10KM

Deployment Information	
Installation Engineer(s)	James Sturt/ Adam Scott
Model of Device	Zephyr ZX300
Device Serial Number	1379

Location Information	
Unit Location Grid Coordinates	52.25481 -9.13534
Elevation	376m
Location Description	Within compound of substation
Road Type	Rough gravel road.
Distance from Access Road	10m
Vehicle Requirements	Opel Movano LWB
Terrain Type	Gravel

Location Information	
Current Land Use	Wind Farm Substation
Seasonal Land Use (e.g., crops)	Wind Farm Substation

Communications			
Router Hardware	Sim Card Number	Sim Card IP address	Signal Strength
Waltz Software	No SIM card	n/a	n/a

Power Supply			
Type	Distance From Device (Cable Length)	Fuel Level	Lifespan
Mains	15m	n/a	n/a

Device Configuration		
Alignment	Due North	
Scan Type	FD Horizontal Wind Speed (m/s) at Scan Centre at Rm	
Max Range	Met Station is positioned on the ZX300. Clear span around field is approx. 15m	
VAD Processing	ON	OFF
Hourly Scan Home	ON	OFF
Hourly Window Wipe	ON	OFF
Auto Clean	ON	OFF
Heat up Before Start	ON	OFF
Software Version	Zephir Lidar ZP573	
Target Description	N/A	
Distance to Target	N/A	

Device Configuration	
Target Coordinates	52.25481 -9.13534
Target Elevation	64m to 199m

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Notes
<p>ZX300 measurement heights set to:</p> <p>199m ,190m, 180m, 170m, 160m, 150m, 109m, 99m, 79m, 64m, 38m</p>
<p>Site Description:</p> <p>From the ZX300 –</p> <ul style="list-style-type: none"> • North – 1.5m bank 10m away. • East – Substation building 10m away. • South – 3.5m bank 25m away. • West – 3.5m bank 15m away. <p>Note: ZX300 is elevated off ground level so therefore a 1m offset approx. in reported height vs ground level set in software.</p> <p>Note: Due to the high elevation of the site, Fog, Cloud and other weather may result in filtering of unreliable data.</p>

PHOTOGRAPHS

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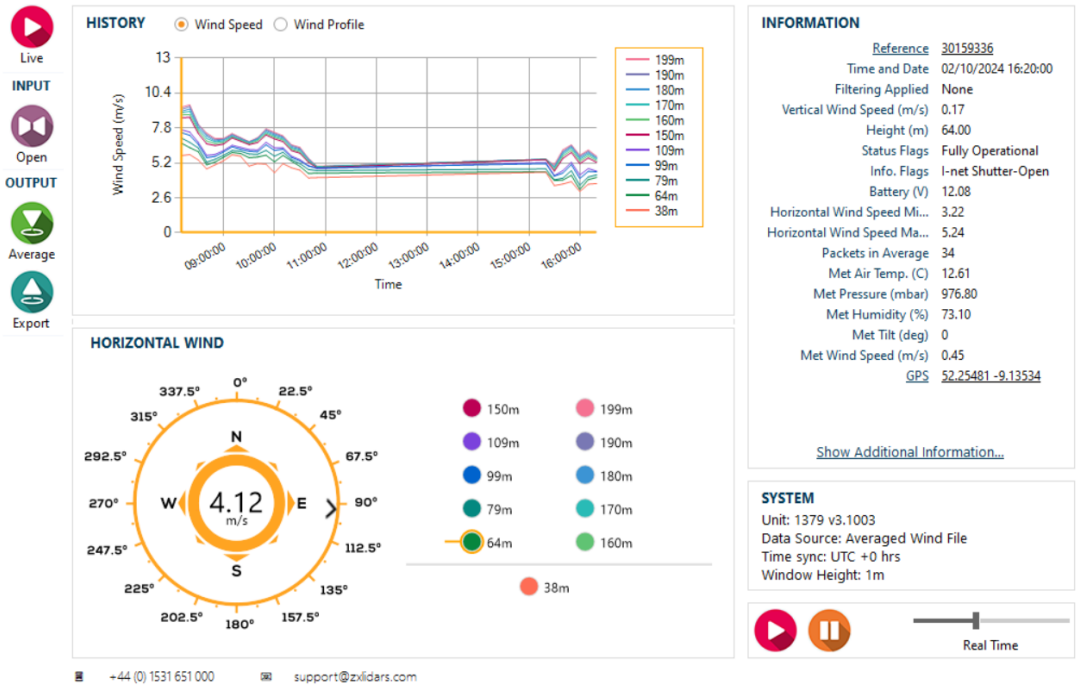




UNIT CONFIGURATION

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Waltz v5.1



Additional Information

Generator Voltage (v)	0.00
Horizontal Wind Speed Std. Dev. (m/s)	0.59
Met Wind Direction (deg)	176.46
Altitude (m)	375.67
Met Compass Bearing (deg)	355.63
Lower Temp. (C)	32
Upper Temp. (C)	31
Pod Humidity (%)	22
Raining	0
Proportion Of Packets With Rain (%)	0