



Galileo 03 Ltd.

Mynydd Ty-talwyn Energy Park - Environmental Statement Volume III

Appendix 10.5: Additional Bat Data Weather and High Risk
Collision Proportionality

Project Reference: 663870

NOVEMBER 2025

RSK

Summer Deployment Solar - static locations 1 - 4 - July 2024

Date	18/07/2024	19/07/2024	20/07/2024	21/07/2024	22/07/2024	23/07/2024	24/07/2024
Sunset time (pm)	21:24	21:23	21:22	21:20	21:19	21:18	21:16
Sunrise time (am)	05:17	05:18	05:20	05:21	05:22	05:24	05:25
Average temperature over each night (°C)	15.9	16.2	16.9	15.4	16.4	15.6	15.7
Rain	None	None	Light rain	None	Light rain	Heavy rain	None
Wind (mph)	5.2	5.4	5.5	7.7	6.7	11.6	6.7

Autumn Deployment Solar - static locations 1 - 4 - September 2024

Date	13/09/2024	14/09/2024	15/09/2024	16/09/2024	17/09/2024	18/09/2024	19/09/2024	20/09/2024
Sunset time (pm)	19:35	19:32	19:30	19:28	19:25	19:23	19:21	19:18
Sunrise time (am)	06:45	06:47	06:48	06:50	06:52	06:53	06:55	06:56
Average temperature over each night (°C)	8.7	12.8	14.2	14.3	12.9	14.8	15.2	14.7
Rain	None	None	Drizzle	Light rain	None	None	None	None
Wind (mph)	5.9	7	8.9	6.7	7.2	14.8	16.7	14.7

Spring Deployment Solar - static locations 1 - 4 - April 2025

Date	07/04/2025	08/04/2025	09/04/2025	10/04/2025	11/04/2025	12/04/2025	13/04/2025	14/04/2025
Sunset time (pm)	19:59	20:01	20:03	20:04	20:06	20:08	20:09	20:11
Sunrise time (am)	06:33	06:31	06:29	06:27	06:24	06:22	06:20	06:18
Average temperature over each night (°C)	8.6	7.5	7.8	7.7	9	9.3	8.9	8.24
Rain	None	None	None	None	None	Light rain	None	Light rain
Wind (mph)	8.7	5.8	7.4	6.5	3.2	7.7	8.8	7.8

Spring Deployment Turbine - static locations A - H - May 2023

Date	18/05/2023	19/05/2023	20/05/2023	21/05/2023	22/05/2023	23/05/2023	24/05/2023
Sunset time (pm)	21:05	21:07	21:08	21:10	21:11	21:12	21:14
Sunrise time (am)	05:16	05:15	05:13	05:12	05:11	05:09	05:08
Average temperature over each night (°C)	10.6	11	12.1	10.9	11.8	11.1	12.1
Rain	None	None	None	None	None	None	None
Wind (mph)	7.3	6.9	6.5	7.5	7.5	5.2	4.8

Date	25/05/2023	26/05/2023	27/05/2023	28/05/2023	29/05/2023	30/05/2023	31/05/2023
Sunset time (pm)	21:15	21:16	21:18	21:19	21:20	21:21	21:23
Sunrise time (am)	05:07	05:06	05:05	05:04	05:03	05:02	05:01
Average temperature over each night (°C)	12.8	14.2	12.3	14.1	12.6	11.2	12.5
Rain	None	None	None	None	None	None	None
Wind (mph)	3.8	7.2	7.4	10.3	15.5	11.9	14.8

Date	01/06/2023
Sunset time (pm)	21:24
Sunrise time (am)	05:00
Average temperature over each night (°C)	12.5
Rain	None
Wind (mph)	14.3

Summer Deployment Turbine - static locations A - H - July 2023

Date	04/07/2023	05/07/2023	06/07/2023	07/07/2023	08/07/2023	09/07/2023	10/07/2023
Sunset time (pm)	21:36	21:36	21:35	21:34	21:34	21:33	21:32
Sunrise time (am)	05:01	05:02	05:03	05:04	05:05	05:06	05:07
Average temperature over each night (°C)	13.3	13	15.5	18.2	17.6	14.8	15
Rain	Light rain	None	None	None	None	None	Heavy rain
Wind (mph)	9.7	10.1	8.9	9.2	6.9	4.2	6.9

Date	11/07/2023	12/07/2023	13/07/2023	14/07/2023	15/07/2023	16/07/2023	17/07/2023
Sunset time (pm)	21:32	21:31	21:30	21:29	21:28	21:27	21:26
Sunrise time (am)	05:08	05:09	05:10	05:11	05:12	05:14	05:15
Average temperature over each night (°C)	15.8	15.2	15.6	15.6	15.8	14.8	13.9
Rain	Drizzle	Light rain	None	Light rain	None	Light rain	Rain
Wind (mph)	13.2	9.7	8.5	9.4	15.6	15.7	13.9

Date	18/07/2023	19/07/2023	20/07/2023	21/07/2023	22/07/2023	23/07/2023	24/07/2023
Sunset time (pm)	21:25	21:24	21:22	21:21	21:20	21:19	21:17
Sunrise time (am)	05:16	05:17	05:19	05:20	05:21	05:23	05:24
Average temperature over each night (°C)	14.5	14.9	12.3	12	15.8	15.9	15
Rain	Light rain	Light rain	None	None	Light rain	Light rain	Light rain
Wind (mph)	5.5	8	6.8	9.3	12.8	13.1	4.4

Autumn Deployment Turbine - static locations A - H - August 2023

Date	16/08/2023	17/08/2023	18/08/2023	19/08/2023	20/08/2023	21/08/2023	22/08/2023
Sunset time (pm)	20:38	20:36	20:34	20:32	20:30	20:28	20:25
Sunrise time (am)	05:59	06:01	06:03	06:04	06:06	06:07	06:09
Average temperature over each night (°C)	14.2	18.1	17.9	17.5	15.4	16.3	16.2
Rain	None	None	Light rain	Light rain	None	None	Light rain
Wind (mph)	4.5	11.8	16.4	9.8	6.9	5.6	8.4

Date	23/08/2023	24/08/2023	25/08/2023	26/08/2023	27/08/2023	28/08/2023	29/08/2023
Sunset time (pm)	20:23	20:21	20:19	20:17	20:15	20:13	20:10
Sunrise time (am)	06:11	06:12	06:14	06:15	06:17	06:19	06:20
Average temperature over each night (°C)	15.2	13.7	12.1	11.6	13.1	13.9	12.7
Rain	None	None	Light rain	Rain	None	None	Light rain
Wind (mph)	4.4	6.6	6.6	5	17.8	7.4	5.6

Date	30/08/2023	31/08/2023
Sunset time (pm)	20:08	20:06
Sunrise time (am)	06:22	06:23
Average temperature over each night (°C)	12.3	13.7
Rain	None	Light rain
Wind (mph)	6.9	3.1

		High Risk Species						
		Common Pipistrelle	Leisler's Bat	Nathusius' Pipistrelle	Noctule	Serotine	Soprano Pipistrelle	Grand Total
Spring	Total recorded when wind speed above 6mph	4826	2	57	121	10	558	5574
	Total recorded during deployment	7732	2	92	223	12	861	8922
	Proportion (%)	62.42	100.00	61.96	54.26	83.33	64.81	62.47
Summer	Total recorded when wind speed above 6mph	24240	3	113	4850	139	1418	30763
	Total recorded during deployment	29007	4	134	6042	197	1650	37034
	Proportion (%)	83.57	75.00	84.33	80.27	70.56	85.94	83.07
Autumn	Total recorded when wind speed above 6mph	7800	7	9	1197	64	1096	10173
	Total recorded during deployment	9743	7	10	1837	73	1304	12974
	Proportion (%)	80.06	100.00	90.00	65.16	87.67	84.05	78.41