



Dean Moor Solar Farm

Environmental Statement: Appendix 9.6 – Maximum Summer Temperature Anomaly on behalf of **FVS Dean Moor Limited**

March 2025
Prepared by: Stantec UK Ltd
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Revision: 1



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DEAN MOOR SOLAR FARM
ENVIRONMENTAL STATEMENT
APPENDIX 9.6 – MAXIMUM SUMMER AIR TEMPERATURE ANOMALY
PLANNING INSPECTORATE REFERENCE EN010155
PREPARED ON BEHALF OF FVS DEAN MOOR LIMITED

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations
2009, Regulation 5(2)(a)

Project Ref:	EN010155/ES/Appendix 9.6: Maximum Summer Air Temperature Anomaly
Status	Final
Issue/ Rev:	1
Date:	March 2025

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1 Maximum Summer Air Temperature Anomaly Data

- Area: 312500.0512500.0
- Baseline: 1981-2000
- Data Source: land probabilistic projections
- Data type: cdf
- Scenario: RCP 8.5
- Show labels: TRUE
- Software version: WPS-2.10.0-DP-2.10.0-CV-1.0.10
- Spatial representation: 25km grid
- Temporal average type: seasonal
- Time period: June, July, August
- Time slice type: 1-year time slices
- Variable: Maximum air temperature anomaly at 1.5m (°C)
- Year maximum: 2077
- Year minimum: 2024

Date	Maximum air temperature anomaly at 1.5m (°C) (5 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (10 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (25 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (50 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (75 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (90 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (95 th Percentile)
01/07/2024	-1.56562	-1.0192107	-0.122097425	0.88401586	1.9064866	2.851767	3.4325192
01/07/2025	-1.5557283	-1.0065752	-0.10474161	0.90581536	1.9332287	2.8833394	3.466371
01/07/2026	-1.5455142	-0.9937798	-0.087119326	0.92803985	1.9607407	2.9161763	3.501783
01/07/2027	-1.5348657	-0.98071426	-0.06910001	0.95085835	1.9892286	2.95052	3.5390334
01/07/2028	-1.5236766	-0.96727085	-0.050557785	0.9744327	2.0188859	2.9865866	3.5783696
01/07/2029	-1.5118505	-0.9533463	-0.031375065	0.99891263	2.0498867	3.0245602	3.6200001
01/07/2030	-1.4993021	-0.93884474	-0.01144548	1.024432	2.0823812	3.064588	3.6640885
01/07/2031	-1.4859606	-0.9236791	0.009323936	1.0511056	2.1164925	3.1067762	3.7107503
01/07/2032	-1.4717695	-0.9077723	0.031011503	1.0790278	2.1523147	3.1511898	3.7600513

Date	Maximum air temperature anomaly at 1.5m (°C) (5 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (10 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (25 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (50 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (75 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (90 th Percentile)	Maximum air temperature anomaly at 1.5m (°C) (95 th Percentile)
01/07/2033	-1.4566873	-0.89105755	0.053680588	1.1082715	2.189911	3.1978526	3.8120089
01/07/2034	-1.440687	-0.8734779	0.07738022	1.1388887	2.2293162	3.2467506	3.866596
01/07/2035	-1.4237543	-0.8549854	0.102146566	1.1709127	2.270539	3.2978373	3.923746
01/07/2036	-1.4058867	-0.8355398	0.12800507	1.20436	2.3135645	3.3510387	3.983361
01/07/2037	-1.3870896	-0.8151065	0.1549732	1.2392346	2.358361	3.4062626	4.04532
01/07/2038	-1.3673753	-0.7936547	0.18306325	1.2755312	2.4048843	3.4634063	4.1094894
01/07/2039	-1.3467593	-0.7711558	0.21228541	1.3132402	2.4530845	3.5223668	4.1757345
01/07/2040	-1.3252586	-0.7475821	0.2426501	1.3523507	2.5029123	3.5830479	4.243929
01/07/2041	-1.3028898	-0.7229058	0.27417007	1.3928546	2.5543234	3.6453702	4.3139634
01/07/2042	-1.2796683	-0.6970994	0.30686107	1.4347483	2.6072843	3.7092762	4.385756
01/07/2043	-1.2556077	-0.6701362	0.3407421	1.4780347	2.6617742	3.7747355	4.4592547
01/07/2044	-1.2307209	-0.64199275	0.375834	1.5227224	2.7177868	3.8417473	4.5344443
01/07/2045	-1.2050213	-0.61265075	0.41215754	1.568825	2.7753313	3.9103405	4.6113434
01/07/2046	-1.1785244	-0.5821004	0.44973075	1.6163596	2.8344305	3.9805734	4.6900063
01/07/2047	-1.1512504	-0.5503432	0.4885658	1.6653433	2.8951178	4.052528	4.770518
01/07/2048	-1.1232259	-0.5173952	0.5286661	1.715791	2.9574358	4.1263065	4.8529873
01/07/2049	-1.0944861	-0.483289	0.5700231	1.767712	3.0214317	4.2020254	4.9375424
01/07/2050	-1.0650754	-0.4480759	0.61261475	1.821108	3.0871527	4.279808	5.024321
01/07/2051	-1.0350488	-0.41182628	0.65640336	1.8759702	3.1546438	4.359777	5.1134634
01/07/2052	-1.0044719	-0.37462938	0.7013359	1.9322786	3.2239437	4.442048	5.205103
01/07/2053	-0.9734189	-0.33659157	0.74734443	1.9900018	3.2950826	4.5267243	5.299359
01/07/2054	-0.9419715	-0.29783335	0.79434836	2.049097	3.36808	4.613891	5.396332
01/07/2055	-0.9102157	-0.25848544	0.8422576	2.1095128	3.4429436	4.70361	5.496095

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01/07/2056	-0.8782385	-0.21868384	0.8909763	2.1711905	3.5196702	4.7959175	5.598693
01/07/2057	-0.84612435	-0.17856441	0.94040734	2.234068	3.5982451	4.890824	5.704138
01/07/2058	-0.8139512	-0.13825735	0.99045724	2.2980826	3.6786435	4.9883103	5.8124084
01/07/2059	-0.7817871	-0.09788175	1.0410405	2.363175	3.7608314	5.0883317	5.9234505
01/07/2060	-0.74968696	-0.057540625	1.0920839	2.429292	3.8447669	5.190816	6.0371766
01/07/2061	-0.7176901	-0.01731652	1.1435305	2.496389	3.930402	5.2956643	6.1534686
01/07/2062	-0.6858178	0.022732075	1.1953418	2.5644329	4.017683	5.4027567	6.2721777
01/07/2063	-0.6540719	0.062573574	1.2475013	2.6334038	4.1065516	5.51195	6.3931293
01/07/2064	-0.622434	0.10220526	1.3000146	2.7032952	4.196946	5.623084	6.5161257
01/07/2065	-0.5908644	0.1416544	1.3529117	2.7741163	4.288803	5.735983	6.6409492
01/07/2066	-0.5593025	0.18097842	1.4062458	2.8458905	4.382058	5.850459	6.767367
01/07/2067	-0.52766734	0.2202639	1.4600933	2.9186563	4.4766464	5.9663196	6.8951364
01/07/2068	-0.49585906	0.25962472	1.5145515	2.9924657	4.5725055	6.083368	7.024011
01/07/2069	-0.46376142	0.29919896	1.5697366	3.067382	4.669575	6.2014103	7.153746
01/07/2070	-0.4312445	0.33914468	1.6257799	3.1434803	4.767802	6.320261	7.2841034
01/07/2071	-0.39816856	0.37963516	1.6828241	3.220842	4.867138	6.439748	7.414859
01/07/2072	-0.36438826	0.42085335	1.7410195	3.2995548	4.967544	6.5597157	7.545807
01/07/2073	-0.32975686	0.462986	1.8005188	3.3797095	5.0689917	6.6800323	7.6767664
01/07/2074	-0.29413053	0.50621796	1.8614732	3.4613974	5.171464	6.800592	7.807584
01/07/2075	-0.2573725	0.5507267	1.9240284	3.5447073	5.2749577	6.9213166	7.938138
01/07/2076	-0.21935637	0.59667736	1.988321	3.629725	5.3794827	7.042161	8.06834
01/07/2077	-0.17996912	0.64421844	2.054475	3.7165296	5.4850645	7.163111	8.198139