



Dean Moor Solar Farm

Environmental Statement: Appendix 9.4 – Mean Annual Air 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 9.4 – MEAN ANNUAL 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 9.4: Mean Annual Air Temperature Anomaly
Status	Final
Issue/ Rev:	1
Date:	March 2025

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1 Mean Annual 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: annual
- Time period: annual
- Time slice type: 1-year time slices
- Variable: mean air temperature anomaly at 1.5m (A C)
- Year maximum: 2077
- Year minimum: 2024

Date	Mean air temperature anomaly at 1.5m (°C) (5 th Percentile)	Mean air temperature anomaly at 1.5m (°C) (10 th Percentile)	Mean air temperature anomaly at 1.5m (°C) (25 th Percentile)	Mean air temperature anomaly at 1.5m (°C) (50 th Percentile)	Mean air temperature anomaly at 1.5m (°C) (75 th Percentile)	Mean air temperature anomaly at 1.5m (°C) (90 th Percentile)	Mean air temperature anomaly at 1.5m (°C) (95 th Percentile)
01/06/2024	-0.34604797	-0.10574732	0.29717025	0.7516864	1.21595	1.6436777	1.9066383
01/06/2025	-0.33169743	-0.09004863	0.3148012	0.77239954	1.240379	1.6721836	1.937514
01/06/2026	-0.3173322	-0.07434055	0.33254343	0.79342777	1.2653997	1.7015882	1.9694589
01/06/2027	-0.30288023	-0.058550775	0.350483	0.8148555	1.2910869	1.7319577	2.0025442
01/06/2028	-0.2882703	-0.042607497	0.36870486	0.83676404	1.31751	1.7633519	2.036833
01/06/2029	-0.2734342	-0.026441503	0.3872906	0.859229	1.3447325	1.7958229	2.072381
01/06/2030	-0.25830898	-0.009988003	0.40631628	0.8823193	1.37281	1.8294139	2.109234
01/06/2031	-0.24283852	0.006811838	0.42585078	0.9060949	1.4017894	1.8641589	2.1474288
01/06/2032	-0.2269749	0.024009733	0.4459542	0.9306068	1.4317089	1.9000827	2.1869912

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01/06/2033	-0.21067952	0.041649524	0.466677	0.95589554	1.4625969	1.9372013	2.2279384
01/06/2034	-0.19392343	0.059766833	0.48805952	0.98199177	1.494473	1.9755213	2.270277
01/06/2035	-0.17668746	0.078389145	0.5101317	1.008916	1.5273476	2.015042	2.3140056
01/06/2036	-0.15896168	0.09753627	0.5329136	1.0366794	1.5612234	2.0557551	2.3591137
01/06/2037	-0.14074457	0.11722115	0.5564163	1.065285	1.5960962	2.097647	2.4055843
01/06/2038	-0.12204165	0.13745093	0.5806425	1.0947285	1.6319556	2.1406987	2.4533951
01/06/2039	-0.102864	0.15822826	0.6055886	1.125	1.6687876	2.1848888	2.5025184
01/06/2040	-0.08322651	0.17955251	0.6312455	1.1560854	1.7065744	2.2301939	2.5529232
01/06/2041	-0.063146226	0.20142111	0.6576004	1.1879678	1.7452974	2.2765892	2.604577
01/06/2042	-0.04264084	0.2238304	0.6846379	1.2206287	1.7849365	2.3240504	2.6574452
01/06/2043	-0.021727463	0.24677643	0.7123414	1.2540492	1.8254728	2.3725536	2.7114925
01/06/2044	-0.000421844	0.27025518	0.74069345	1.2882106	1.8668879	2.4220762	2.7666843
01/06/2045	0.021262094	0.29426247	0.7696764	1.3230952	1.9091649	2.4725971	2.8229861
01/06/2046	0.043312278	0.31879374	0.7992728	1.358686	1.9522891	2.5240972	2.8803642
01/06/2047	0.06571819	0.34384328	0.829465	1.3949677	1.9962473	2.5765586	2.9387875
01/06/2048	0.08847027	0.3694035	0.8602352	1.4319258	2.0410287	2.6299665	2.998227
01/06/2049	0.11155913	0.39546415	0.89156526	1.4695474	2.0866244	2.6843078	3.058657
01/06/2050	0.13497461	0.42201138	0.92343616	1.5078201	2.133028	2.739573	3.1200573
01/06/2051	0.15870497	0.4490272	0.95582765	1.5467327	2.180235	2.7957554	3.182412
01/06/2052	0.18273604	0.47648913	0.98871833	1.5862743	2.2282424	2.8528514	3.2457113
01/06/2053	0.2070509	0.50437003	1.0220854	1.6264352	2.2770503	2.910862	3.3099523
01/06/2054	0.23162979	0.53263885	1.0559052	1.667206	2.3266592	2.9697912	3.375138
01/06/2055	0.25645036	0.5612612	1.0901536	1.7085788	2.3770726	3.029647	3.4412782

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01/06/2056	0.28148854	0.5902006	1.1248065	1.7505468	2.428295	3.0904415	3.5083888
01/06/2057	0.3067196	0.61942035	1.1598415	1.7931049	2.4803314	3.1521883	3.5764897
01/06/2058	0.33211958	0.648885	1.195238	1.8362502	2.5331893	3.214905	3.645605
01/06/2059	0.357667	0.67856216	1.2309792	1.8799824	2.586876	3.2786088	3.7157598
01/06/2060	0.3833444	0.70842457	1.2670525	1.9243037	2.6413984	3.3433175	3.786978
01/06/2061	0.40914032	0.73845184	1.3034512	1.9692199	2.6967638	3.4090455	3.8592792
01/06/2062	0.4350508	0.76863194	1.3401743	2.0147393	2.752977	3.4758027	3.9326751
01/06/2063	0.46108088	0.7989625	1.3772286	2.0608735	2.8100407	3.543592	4.007167
01/06/2064	0.48724592	0.82945204	1.4146284	2.107637	2.8679547	3.6124063	4.0827417
01/06/2065	0.5135724	0.86012083	1.4523954	2.155046	2.9267142	3.6822267	4.1593685
01/06/2066	0.5400983	0.89100087	1.49056	2.2031195	2.98631	3.7530212	4.236997
01/06/2067	0.5668735	0.9221362	1.52916	2.2518778	3.0467277	3.824742	4.3155584
01/06/2068	0.5939587	0.9535821	1.5682409	2.3013422	3.1079476	3.897327	4.39496
01/06/2069	0.62142473	0.9854046	1.6078547	2.3515353	3.1699448	3.9706984	4.4750905
01/06/2070	0.64935124	1.0176789	1.6480594	2.4024787	3.2326906	4.0447655	4.555821
01/06/2071	0.6778244	1.0504874	1.6889178	2.4541953	3.2961514	4.1194253	4.6370063
01/06/2072	0.70693487	1.0839186	1.7304959	2.5067062	3.3602917	4.1945667	4.718492
01/06/2073	0.73677576	1.1180645	1.7728626	2.5600326	3.4250743	4.270073	4.800116
01/06/2074	0.76743984	1.1530182	1.8160869	2.6141944	3.4904618	4.3458266	4.8817163
01/06/2075	0.79901713	1.1888722	1.8602377	2.6692107	3.5564182	4.421712	4.963135
01/06/2076	0.83159244	1.2257152	1.9053813	2.7250988	3.62291	4.4976225	5.044226
01/06/2077	0.86524314	1.2636303	1.9515803	2.7818747	3.6899087	4.5734625	5.1248603