



Dean Moor Solar Farm

Environmental Statement: Appendix 9.5 – Average Annual Precipitation Anomaly on behalf of **FVS Dean Moor Limited**

March 2025
Prepared by: Stantec UK Ltd
PINS Ref: EN010155
Document Ref: 6.3
Revision: 1



Firma Energy



DEAN MOOR SOLAR FARM
ENVIRONMENTAL STATEMENT
APPENDIX 9.5 – ANNUAL PRECIPITATION RATE 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 9.5: Annual Precipitation Rate Anomaly
Status	Final
Issue/ Rev:	1
Date:	March 2025

Contents

1	Annual Precipitation Rate Anomaly Data	1
---	--	---

1 Annual Precipitation Rate 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: precipitation rate anomaly (%)
- Year maximum: 2077
- Year minimum: 2024

Date	Precipitation rate anomaly (%) (5 th Percentile)	Precipitation rate anomaly (%) (10 th Percentile)	Precipitation rate anomaly (%) (25 th Percentile)	Precipitation rate anomaly (%) (50 th Percentile)	Precipitation rate anomaly (%) (75 th Percentile)	Precipitation rate anomaly (%) (90 th Percentile)	Precipitation rate anomaly (%) (95 th Percentile)
01/06/2024	-17.376564	-13.168578	-5.703729	2.9727423	12.582126	21.299513	26.524277
01/06/2025	-17.35049	-13.12932	-5.673424	3.0638025	12.698862	21.424482	26.641718
01/06/2026	-17.328262	-13.092761	-5.6438556	3.1541498	12.81267	21.549932	26.761759
01/06/2027	-17.310163	-13.058745	-5.614474	3.2437968	12.924069	21.676617	26.885242
01/06/2028	-17.296522	-13.027145	-5.5847335	3.332809	13.033678	21.805319	27.013052
01/06/2029	-17.287699	-12.99787	-5.5541153	3.4213042	13.142191	21.936836	27.146072
01/06/2030	-17.284077	-12.970869	-5.5221467	3.509446	13.250359	22.071959	27.285181
01/06/2031	-17.286045	-12.9461355	-5.4884243	3.5974293	13.358954	22.211449	27.431217
01/06/2032	-17.293982	-12.923713	-5.4526334	3.6854649	13.468742	22.355997	27.584953

Date	Precipitation rate anomaly (%) (5 th Percentile)	Precipitation rate anomaly (%) (10 th Percentile)	Precipitation rate anomaly (%) (25 th Percentile)	Precipitation rate anomaly (%) (50 th Percentile)	Precipitation rate anomaly (%) (75 th Percentile)	Precipitation rate anomaly (%) (90 th Percentile)	Precipitation rate anomaly (%) (95 th Percentile)
01/06/2033	-17.308216	-12.903684	-5.4145627	3.7737575	13.580442	22.506207	27.747066
01/06/2034	-17.329008	-12.886167	-5.3741174	3.8624847	13.694692	22.66255	27.918098
01/06/2035	-17.356512	-12.871302	-5.331323	3.951776	13.812015	22.825342	28.098423
01/06/2036	-17.390745	-12.859236	-5.2863255	4.041695	13.932791	22.994705	28.288202
01/06/2037	-17.431551	-12.850102	-5.2393785	4.1322255	14.05723	23.170544	28.487343
01/06/2038	-17.478586	-12.8440075	-5.190834	4.223263	14.185351	23.352512	28.695473
01/06/2039	-17.531301	-12.841008	-5.1411185	4.3146105	14.316975	23.540014	28.9119
01/06/2040	-17.588936	-12.8411	-5.0907106	4.405987	14.451711	23.732176	29.135605
01/06/2041	-17.650532	-12.844207	-5.0401154	4.4970303	14.588973	23.92787	29.365232
01/06/2042	-17.714964	-12.850178	-4.989839	4.587318	14.727984	24.12572	29.599115
01/06/2043	-17.780968	-12.858788	-4.940365	4.6763816	14.867808	24.324142	29.835304
01/06/2044	-17.8472	-12.869752	-4.8921347	4.7637296	15.007372	24.521389	30.071619
01/06/2045	-17.912302	-12.882738	-4.845535	4.8488703	15.1455145	24.715605	30.30573
01/06/2046	-17.974962	-12.897394	-4.800889	4.9313293	15.281026	24.904907	30.53524
01/06/2047	-18.033989	-12.913376	-4.758457	5.010674	15.412701	25.087446	30.75778
01/06/2048	-18.088375	-12.930372	-4.7184396	5.086526	15.539385	25.2615	30.971104
01/06/2049	-18.137362	-12.948142	-4.6809897	5.158575	15.66003	25.425537	31.173191
01/06/2050	-18.180481	-12.966534	-4.646225	5.2265887	15.773733	25.578299	31.362337
01/06/2051	-18.217585	-12.985511	-4.614245	5.290414	15.879778	25.718847	31.537214
01/06/2052	-18.248863	-13.005161	-4.585144	5.349977	15.977669	25.84662	31.696949
01/06/2053	-18.274824	-13.0257	-4.559026	5.405283	16.067146	25.961458	31.841156
01/06/2054	-18.296276	-13.04746	-4.53601	5.456409	16.148205	26.063616	31.969957
01/06/2055	-18.31428	-13.070874	-4.5162387	5.5034976	16.22109	26.153769	32.083992
01/06/2056	-18.330086	-13.096448	-4.499872	5.546753	16.286304	26.232986	32.184387

Date	Precipitation rate anomaly (%) (5 th Percentile)	Precipitation rate anomaly (%) (10 th Percentile)	Precipitation rate anomaly (%) (25 th Percentile)	Precipitation rate anomaly (%) (50 th Percentile)	Precipitation rate anomaly (%) (75 th Percentile)	Precipitation rate anomaly (%) (90 th Percentile)	Precipitation rate anomaly (%) (95 th Percentile)
01/06/2057	-18.34507	-13.124723	-4.487079	5.586436	16.344574	26.302704	32.27274
01/06/2058	-18.360662	-13.156235	-4.4780216	5.622866	16.396854	26.364672	32.35104
01/06/2059	-18.378256	-13.191468	-4.472831	5.656424	16.444288	26.420908	32.421642
01/06/2060	-18.399149	-13.230819	-4.471583	5.687556	16.488192	26.473625	32.487152
01/06/2061	-18.42447	-13.274549	-4.47427	5.7167807	16.530016	26.525177	32.550373
01/06/2062	-18.455133	-13.322761	-4.480776	5.7446995	16.571325	26.577984	32.614216
01/06/2063	-18.491804	-13.37538	-4.4908547	5.771996	16.61375	26.63447	32.681614
01/06/2064	-18.534878	-13.432155	-4.504119	5.7994404	16.658972	26.697	32.755455
01/06/2065	-18.584497	-13.4926605	-4.5200353	5.8278837	16.70866	26.767836	32.838493
01/06/2066	-18.640572	-13.556332	-4.537929	5.8582454	16.76446	26.849068	32.933304
01/06/2067	-18.702816	-13.622491	-4.557002	5.8915014	16.827938	26.942595	33.04222
01/06/2068	-18.770796	-13.690393	-4.576353	5.9286575	16.900555	27.05008	33.167294
01/06/2069	-18.843988	-13.75927	-4.595009	5.9707265	16.983633	27.17293	33.310253
01/06/2070	-18.921835	-13.828371	-4.611958	6.018696	17.078318	27.312284	33.472504
01/06/2071	-19.003782	-13.897004	-4.626185	6.073499	17.185562	27.469002	33.655098
01/06/2072	-19.089323	-13.964561	-4.636705	6.135984	17.306108	27.643671	33.858738
01/06/2073	-19.178022	-14.030541	-4.642594	6.2068872	17.440468	27.836609	34.083797
01/06/2074	-19.269524	-14.094549	-4.6430163	6.28681	17.588924	28.047874	34.330322
01/06/2075	-19.36354	-14.156295	-4.6372433	6.3761992	17.751528	28.277287	34.598064
01/06/2076	-19.459856	-14.215582	-4.6246686	6.475335	17.928099	28.524435	34.886486
01/06/2077	-19.558279	-14.2722845	-4.6048203	6.5843215	18.118237	28.788685	35.194786