



HELIOS RENEWABLE
ENERGY
PROJECT

Preliminary Environmental Information Report

Volume 3: Technical Appendices

Appendix 12.9: Winter Precipitation
Anomaly

header length 16
 Area 462500.0 412500.0
 Baseline 1981-2000
 Data Source Land probabilistic projections
 Data Type cdf
 Scenario RCP 8.5
 Show Labels TRUE
 Software Version WPS-2.8.0-DP-2.8.0-CV-1.0.10
 Spatial Representat 25km grid
 Temporal Average Seasonal
 Time Period December January February
 Time Slice Type 1-year time slices
 Variable Precipitation rate anomaly (%)
 Year Maximum 2066
 Year Minimum 2023

Date	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation rate anomaly (%) (95th Percentile)
16/01/2023	-38.1336	-30.6508	-16.7709	2.151282	22.07152	40.52829	50.79046
16/01/2024	-38.0822	-30.566	-16.6469	2.287515	22.15809	40.50774	50.65573
16/01/2025	-38.0171	-30.4627	-16.5084	2.420569	22.22714	40.46252	50.50323
16/01/2026	-37.9382	-30.3409	-16.3563	2.549908	22.28026	40.39595	50.33768
16/01/2027	-37.8453	-30.2009	-16.1916	2.675121	22.3193	40.31161	50.1639
16/01/2028	-37.7384	-30.0431	-16.0156	2.79595	22.34625	40.21325	49.98677
16/01/2029	-37.6172	-29.8681	-15.8293	2.91231	22.36325	40.10473	49.81112
16/01/2030	-37.482	-29.6766	-15.634	3.024313	22.37252	39.98992	49.64169
16/01/2031	-37.3326	-29.4692	-15.4306	3.132277	22.37634	39.87263	49.48307
16/01/2032	-37.1693	-29.2469	-15.2201	3.236737	22.37701	39.75661	49.33967
16/01/2033	-36.9925	-29.0106	-15.0033	3.338442	22.37681	39.64549	49.21569
16/01/2034	-36.8025	-28.7613	-14.781	3.438337	22.378	39.54277	49.11514
16/01/2035	-36.6002	-28.5003	-14.5538	3.537544	22.38281	39.45177	49.04181
16/01/2036	-36.3864	-28.229	-14.3223	3.637313	22.39338	39.37566	48.99922
16/01/2037	-36.1626	-27.949	-14.087	3.738984	22.41176	39.31741	48.99069
16/01/2038	-35.9303	-27.6621	-13.8486	3.843928	22.43987	39.27979	49.0192
16/01/2039	-35.6916	-27.3707	-13.6077	3.953492	22.4795	39.26535	49.08749
16/01/2040	-35.4487	-27.077	-13.3651	4.068955	22.53229	39.2764	49.19793
16/01/2041	-35.2043	-26.7837	-13.1216	4.191484	22.59968	39.31496	49.35251
16/01/2042	-34.9611	-26.4936	-12.8783	4.322105	22.68293	39.38281	49.55285
16/01/2043	-34.7221	-26.2097	-12.6362	4.461692	22.78314	39.48142	49.80011
16/01/2044	-34.4903	-25.9349	-12.3965	4.610961	22.90121	39.61196	50.09501
16/01/2045	-34.2685	-25.6721	-12.1604	4.770479	23.03787	39.7753	50.43774
16/01/2046	-34.0594	-25.4241	-11.9289	4.940677	23.19367	39.97197	50.82797
16/01/2047	-33.8654	-25.1931	-11.703	5.121868	23.36898	40.20216	51.26482
16/01/2048	-33.6882	-24.9812	-11.4837	5.314256	23.56403	40.46568	51.74679
16/01/2049	-33.5293	-24.7898	-11.2715	5.517952	23.77882	40.76201	52.27178
16/01/2050	-33.3895	-24.6199	-11.0668	5.732972	24.01318	41.09018	52.83707
16/01/2051	-33.2688	-24.4717	-10.8697	5.959243	24.26674	41.44888	53.43931
16/01/2052	-33.1669	-24.3448	-10.68	6.196595	24.53892	41.83637	54.07461
16/01/2053	-33.0826	-24.2384	-10.4974	6.444757	24.82893	42.25055	54.73854
16/01/2054	-33.0144	-24.151	-10.3211	6.703347	25.13578	42.689	55.42628
16/01/2055	-32.9601	-24.0804	-10.1501	6.971877	25.45832	43.14901	56.13273
16/01/2056	-32.9172	-24.0241	-9.98347	7.249745	25.79523	43.62769	56.85262
16/01/2057	-32.8832	-23.9793	-9.81986	7.536246	26.14509	44.12202	57.58075
16/01/2058	-32.8549	-23.943	-9.65801	7.830576	26.50641	44.62895	58.31208
16/01/2059	-32.8295	-23.912	-9.4966	8.13185	26.87768	45.14552	59.04194
16/01/2060	-32.8042	-23.8831	-9.33439	8.439115	27.25739	45.66891	59.76614
16/01/2061	-32.7763	-23.8532	-9.17022	8.751363	27.64409	46.19654	60.48111
16/01/2062	-32.7436	-23.8197	-9.00312	9.067553	28.03639	46.72612	61.18396
16/01/2063	-32.704	-23.78	-8.8323	9.386622	28.43304	47.25569	61.87252
16/01/2064	-32.6562	-23.7324	-8.65725	9.707507	28.83288	47.78364	62.54535
16/01/2065	-32.5993	-23.6753	-8.47771	10.02915	29.23485	48.30871	63.20174