



**HELIOS** RENEWABLE  
ENERGY  
PROJECT

# **Preliminary Environmental Information Report**

## **Volume 3: Technical Appendices**

Appendix 12.7: Summer  
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 Representatic	25km grid						
Temporal Average Ty	Seasonal						
Time Period	June July August						
Time Slice Type	1-year time slices						
Variable	Precipitation rate anomaly (%)						
Year Maximum	2066						
Year Minimum	2023						
Date	Precipitati	Precipitati	Precipitati	Precipitati	Precipitati	Precipitati	Precipitation rate anomaly (%) (95th Percentile)
16/07/2023	-55.2023	-45.5453	-28.1181	-6.78479	18.85049	43.73985	61.43555
16/07/2024	-55.5369	-45.8183	-28.4452	-7.01003	18.76841	43.86681	61.71996
16/07/2025	-55.9036	-46.1161	-28.7821	-7.22918	18.69931	44.0029	62.0005
16/07/2026	-56.2997	-46.438	-29.1292	-7.44491	18.63868	44.14259	62.27095
16/07/2027	-56.7222	-46.7831	-29.4869	-7.66011	18.58172	44.28032	62.52551
16/07/2028	-57.1678	-47.15	-29.8556	-7.8778	18.52352	44.41068	62.75886
16/07/2029	-57.6326	-47.5373	-30.2355	-8.10103	18.45918	44.52851	62.96627
16/07/2030	-58.1128	-47.9431	-30.6268	-8.33274	18.384	44.62904	63.14368
16/07/2031	-58.6042	-48.3654	-31.0294	-8.57566	18.29353	44.70794	63.28763
16/07/2032	-59.1025	-48.802	-31.443	-8.83224	18.18373	44.76138	63.39534
16/07/2033	-59.6037	-49.2503	-31.867	-9.10461	18.05103	44.78606	63.46462
16/07/2034	-60.1038	-49.7077	-32.3006	-9.39448	17.89236	44.77919	63.49387
16/07/2035	-60.599	-50.1718	-32.7429	-9.70314	17.70523	44.73851	63.48201
16/07/2036	-61.0859	-50.6399	-33.1928	-10.0315	17.48773	44.66228	63.42839
16/07/2037	-61.5615	-51.1098	-33.6491	-10.3799	17.23854	44.54921	63.33286
16/07/2038	-62.0232	-51.5791	-34.1106	-10.7486	16.95693	44.3985	63.19561
16/07/2039	-62.469	-52.0459	-34.5762	-11.1371	16.64274	44.20978	63.01725
16/07/2040	-62.8976	-52.5087	-35.0447	-11.5447	16.29639	43.98316	62.79874
16/07/2041	-63.308	-52.966	-35.5151	-11.9705	15.91881	43.71913	62.54136
16/07/2042	-63.6999	-53.4168	-35.9866	-12.4132	15.51144	43.41863	62.24677
16/07/2043	-64.0734	-53.8606	-36.4582	-12.8713	15.07622	43.08302	61.91692
16/07/2044	-64.4292	-54.2968	-36.9294	-13.343	14.61546	42.71404	61.5541
16/07/2045	-64.7684	-54.7253	-37.3995	-13.8265	14.13192	42.31386	61.16086
16/07/2046	-65.0921	-55.1461	-37.868	-14.3196	13.62865	41.88499	60.74003
16/07/2047	-65.402	-55.5593	-38.3345	-14.8201	13.10904	41.43031	60.29463
16/07/2048	-65.6996	-55.9651	-38.7985	-15.3257	12.57668	40.95303	59.82788
16/07/2049	-65.9864	-56.3637	-39.2593	-15.834	12.03537	40.4566	59.34309
16/07/2050	-66.2641	-56.7551	-39.7164	-16.3425	11.48902	39.94472	58.84361
16/07/2051	-66.5341	-57.1395	-40.1692	-16.8487	10.9416	39.42121	58.33277
16/07/2052	-66.7975	-57.5169	-40.6169	-17.3502	10.39699	38.88997	57.81377
16/07/2053	-67.0555	-57.8871	-41.0587	-17.8446	9.858996	38.35484	57.28957
16/07/2054	-67.3088	-58.2501	-41.4939	-18.3299	9.331136	37.81954	56.76285
16/07/2055	-67.558	-58.6056	-41.9216	-18.8039	8.816595	37.28751	56.23589
16/07/2056	-67.8038	-58.9536	-42.3414	-19.2651	8.318098	36.76186	55.71051
16/07/2057	-68.0464	-59.294	-42.7525	-19.7123	7.837819	36.24523	55.1881
16/07/2058	-68.2862	-59.6267	-43.1548	-20.1447	7.377293	35.7398	54.66953
16/07/2059	-68.5235	-59.952	-43.548	-20.5621	6.93737	35.24719	54.15527
16/07/2060	-68.7585	-60.2703	-43.9326	-20.9648	6.518173	34.76849	53.64541
16/07/2061	-68.9918	-60.5821	-44.3089	-21.3538	6.119097	34.30424	53.13974
16/07/2062	-69.2237	-60.8881	-44.678	-21.7305	5.738824	33.85451	52.63784
16/07/2063	-69.455	-61.1896	-45.041	-22.0969	5.375374	33.41887	52.13917
16/07/2064	-69.6866	-61.4877	-45.3995	-22.4556	5.026162	32.99652	51.64316
16/07/2065	-69.9194	-61.7839	-45.7553	-22.8096	4.688085	32.58626	51.14927