



HELIOS RENEWABLE
ENERGY
PROJECT

Preliminary Environmental Information Report

Volume 3: Technical Appendices

Appendix 12.5: Average Annual
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 Annual
 Time Period annual
 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) |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| 01/06/2023 | -21.4472 | -16.7453 | -8.21438 | 1.328854 | 10.45379 | 20.49659 | 27.57906 |
| 01/06/2024 | -21.3712 | -16.6921 | -8.2437 | 1.294798 | 10.46 | 20.56132 | 27.67119 |
| 01/06/2025 | -21.3038 | -16.6444 | -8.27653 | 1.254883 | 10.46586 | 20.61896 | 27.75296 |
| 01/06/2026 | -21.2475 | -16.6042 | -8.3133 | 1.20918 | 10.47116 | 20.66879 | 27.82355 |
| 01/06/2027 | -21.2049 | -16.5731 | -8.35445 | 1.157783 | 10.47563 | 20.71033 | 27.88236 |
| 01/06/2028 | -21.1783 | -16.5529 | -8.40038 | 1.100821 | 10.47896 | 20.74329 | 27.92903 |
| 01/06/2029 | -21.1699 | -16.5453 | -8.45143 | 1.03847 | 10.48078 | 20.76754 | 27.9634 |
| 01/06/2030 | -21.1818 | -16.5516 | -8.50787 | 0.970963 | 10.4807 | 20.78313 | 27.98552 |
| 01/06/2031 | -21.2153 | -16.573 | -8.56985 | 0.898595 | 10.47824 | 20.79019 | 27.99558 |
| 01/06/2032 | -21.2719 | -16.6106 | -8.63746 | 0.821722 | 10.47295 | 20.78894 | 27.99387 |
| 01/06/2033 | -21.3521 | -16.665 | -8.71068 | 0.74076 | 10.46433 | 20.77963 | 27.98079 |
| 01/06/2034 | -21.4562 | -16.7366 | -8.78942 | 0.656177 | 10.45191 | 20.76257 | 27.95679 |
| 01/06/2035 | -21.5842 | -16.8257 | -8.87354 | 0.568478 | 10.43524 | 20.73803 | 27.92232 |
| 01/06/2036 | -21.7353 | -16.9322 | -8.96287 | 0.478191 | 10.41393 | 20.70632 | 27.87789 |
| 01/06/2037 | -21.9086 | -17.0557 | -9.05725 | 0.385851 | 10.38765 | 20.66773 | 27.82401 |
| 01/06/2038 | -22.1026 | -17.1956 | -9.15652 | 0.291986 | 10.35618 | 20.62258 | 27.76119 |
| 01/06/2039 | -22.3155 | -17.3513 | -9.26056 | 0.197098 | 10.31939 | 20.57125 | 27.69001 |
| 01/06/2040 | -22.5452 | -17.5217 | -9.36928 | 0.101659 | 10.27732 | 20.51418 | 27.6111 |
| 01/06/2041 | -22.7895 | -17.7057 | -9.48262 | 0.006102 | 10.23014 | 20.4519 | 27.52517 |
| 01/06/2042 | -23.0458 | -17.902 | -9.60056 | -0.08918 | 10.17818 | 20.3851 | 27.43306 |
| 01/06/2043 | -23.3114 | -18.1091 | -9.72308 | -0.18381 | 10.12196 | 20.31459 | 27.33575 |
| 01/06/2044 | -23.5837 | -18.3255 | -9.85014 | -0.27747 | 10.06213 | 20.24138 | 27.23437 |
| 01/06/2045 | -23.8598 | -18.5495 | -9.98166 | -0.3698 | 9.999538 | 20.16664 | 27.13024 |
| 01/06/2046 | -24.137 | -18.7794 | -10.1175 | -0.46048 | 9.93516 | 20.09171 | 27.02482 |
| 01/06/2047 | -24.4126 | -19.0131 | -10.2573 | -0.54914 | 9.870096 | 20.01807 | 26.91972 |
| 01/06/2048 | -24.684 | -19.2489 | -10.4007 | -0.63538 | 9.805545 | 19.9473 | 26.81668 |
| 01/06/2049 | -24.9488 | -19.4848 | -10.5471 | -0.71877 | 9.742765 | 19.88104 | 26.71747 |
| 01/06/2050 | -25.2047 | -19.7188 | -10.6957 | -0.7988 | 9.683044 | 19.82094 | 26.6239 |
| 01/06/2051 | -25.4498 | -19.9488 | -10.8457 | -0.87494 | 9.627647 | 19.76857 | 26.53772 |
| 01/06/2052 | -25.6821 | -20.173 | -10.9959 | -0.9466 | 9.577795 | 19.7254 | 26.4606 |
| 01/06/2053 | -25.9 | -20.3894 | -11.1451 | -1.01317 | 9.534604 | 19.69272 | 26.39404 |
| 01/06/2054 | -26.1023 | -20.5963 | -11.292 | -1.07405 | 9.499063 | 19.6716 | 26.33934 |
| 01/06/2055 | -26.2877 | -20.792 | -11.435 | -1.12865 | 9.471995 | 19.66283 | 26.29759 |
| 01/06/2056 | -26.4555 | -20.975 | -11.5727 | -1.17644 | 9.454035 | 19.66694 | 26.26958 |
| 01/06/2057 | -26.605 | -21.1439 | -11.7037 | -1.21696 | 9.445606 | 19.68415 | 26.25587 |
| 01/06/2058 | -26.7359 | -21.2976 | -11.8266 | -1.24987 | 9.446921 | 19.7144 | 26.25672 |
| 01/06/2059 | -26.848 | -21.4352 | -11.9402 | -1.27496 | 9.457972 | 19.75733 | 26.27216 |
| 01/06/2060 | -26.9414 | -21.556 | -12.0433 | -1.29217 | 9.478543 | 19.81235 | 26.30197 |
| 01/06/2061 | -27.0163 | -21.6594 | -12.135 | -1.30157 | 9.508224 | 19.87862 | 26.34572 |
| 01/06/2062 | -27.0732 | -21.7454 | -12.2146 | -1.30343 | 9.546424 | 19.95515 | 26.40278 |
| 01/06/2063 | -27.1129 | -21.814 | -12.2817 | -1.29816 | 9.592394 | 20.04078 | 26.47237 |
| 01/06/2064 | -27.1361 | -21.8655 | -12.3362 | -1.28633 | 9.645247 | 20.13422 | 26.55355 |
| 01/06/2065 | -27.144 | -21.9006 | -12.378 | -1.26866 | 9.703981 | 20.23412 | 26.64529 |