



HELIOS RENEWABLE
ENERGY
PROJECT

PINS Document Number:
EN010140/APP/6.3.12.10

Pursuant to:
APFP Regulation 5(2)(a)

**Environmental Statement
Appendix 12.10:
Annual Cloud Anomaly**

June 2024

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 Representation	25km grid
Temporal Average Type	Annual
Time Period	annual
Time Slice Type	1-year time slices
Variable	Total cloud anomaly (%)
Year Maximum	2066
Year Minimum	2023
Date	Total cloud Total cloud Total cloud Total cloud Total cloud Total cloud Total cloud Total cloud anomaly (%) (95th Percentile)
01/06/2023	-8.59431 -6.75892 -3.83004 -0.61624 2.355876 4.835736 6.261724
01/06/2024	-8.63655 -6.80658 -3.87338 -0.65554 2.330463 4.824342 6.259689
01/06/2025	-8.68391 -6.85845 -3.91954 -0.69673 2.303342 4.812059 6.257282
01/06/2026	-8.73663 -6.91451 -3.96846 -0.73985 2.274393 4.798745 6.254384
01/06/2027	-8.7949 -6.9747 -4.02004 -0.7849 2.243517 4.784275 6.250896
01/06/2028	-8.85883 -7.03892 -4.07416 -0.83188 2.210654 4.768557 6.246737
01/06/2029	-8.92847 -7.10707 -4.1307 -0.88075 2.175782 4.75153 6.241854
01/06/2030	-9.00384 -7.179 -4.18952 -0.93145 2.138921 4.733178 6.236219
01/06/2031	-9.08485 -7.25457 -4.25047 -0.98388 2.100142 4.713523 6.229836
01/06/2032	-9.17141 -7.33361 -4.31341 -1.03794 2.059558 4.692637 6.222732
01/06/2033	-9.26335 -7.41596 -4.3782 -1.09346 2.01733 4.670628 6.214964
01/06/2034	-9.36047 -7.50146 -4.44471 -1.15031 1.973654 4.647649 6.206616
01/06/2035	-9.46252 -7.58995 -4.51283 -1.20829 1.92876 4.623885 6.19779
01/06/2036	-9.56921 -7.68128 -4.58247 -1.26725 1.882899 4.599546 6.188605
01/06/2037	-9.68024 -7.7753 -4.65357 -1.327 1.836335 4.574864 6.179195
01/06/2038	-9.79526 -7.87187 -4.72608 -1.38741 1.789331 4.550077 6.169696
01/06/2039	-9.91393 -7.9709 -4.8 -1.44833 1.742139 4.525416 6.160245
01/06/2040	-10.0359 -8.07227 -4.87537 -1.50966 1.694992 4.501104 6.150966
01/06/2041	-10.1607 -8.1759 -4.95224 -1.57136 1.648085 4.477332 6.141969
01/06/2042	-10.2881 -8.28173 -5.03073 -1.63339 1.601576 4.454257 6.133337
01/06/2043	-10.4177 -8.3897 -5.11095 -1.69578 1.555571 4.431991 6.125123
01/06/2044	-10.5491 -8.49975 -5.19307 -1.75863 1.510124 4.410592 6.117345
01/06/2045	-10.682 -8.61187 -5.27726 -1.82204 1.465234 4.390067 6.109985
01/06/2046	-10.8162 -8.72601 -5.36371 -1.88619 1.420843 4.370363 6.102987
01/06/2047	-10.9513 -8.84215 -5.4526 -1.95128 1.376843 4.351377 6.09626
01/06/2048	-11.0871 -8.96026 -5.54409 -2.01752 1.333077 4.332954 6.089683
01/06/2049	-11.2235 -9.0803 -5.63836 -2.08517 1.289352 4.314899 6.083109
01/06/2050	-11.3604 -9.20225 -5.73551 -2.15445 1.245445 4.296979 6.076372
01/06/2051	-11.4976 -9.32605 -5.83563 -2.22561 1.201111 4.278937 6.069288
01/06/2052	-11.6352 -9.45166 -5.93876 -2.29886 1.156092 4.260496 6.061665
01/06/2053	-11.7731 -9.57901 -6.04487 -2.37436 1.110128 4.241365 6.0533
01/06/2054	-11.9114 -9.70804 -6.1539 -2.45228 1.062962 4.221249 6.043984
01/06/2055	-12.0501 -9.83865 -6.26572 -2.53271 1.014341 4.199848 6.033501
01/06/2056	-12.1893 -9.97075 -6.38014 -2.61569 0.964027 4.176862 6.021625
01/06/2057	-12.3292 -10.1042 -6.49694 -2.70124 0.911792 4.151996 6.008122
01/06/2058	-12.4697 -10.2389 -6.61585 -2.78932 0.857426 4.124958 5.992745
01/06/2059	-12.6111 -10.3746 -6.73655 -2.87986 0.800736 4.095466 5.97524
01/06/2060	-12.7532 -10.5112 -6.85873 -2.97273 0.741548 4.063248 5.95534
01/06/2061	-12.8962 -10.6485 -6.98203 -3.0678 0.679711 4.028049 5.932777
01/06/2062	-13.04 -10.7862 -7.1061 -3.16489 0.615102 3.989636 5.90728
01/06/2063	-13.1845 -10.9242 -7.23059 -3.26381 0.547624 3.9478 5.878587
01/06/2064	-13.3296 -11.0621 -7.35519 -3.36437 0.477215 3.90237 5.846448
01/06/2065	-13.4752 -11.1998 -7.47958 -3.46637 0.403845 3.853208 5.810641