



**HELIOS** RENEWABLE  
ENERGY  
PROJECT

# **Preliminary Environmental Information Report**

## **Volume 3: Technical Appendices**

Appendix 12.8: Minimum Winter  
Temperature 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 Representati	25km grid
Temporal Average T	Seasonal
Time Period	December January February
Time Slice Type	1-year time slices
Variable	Minimum air temperature anomaly at 1.5m (Å°C)
Year Maximum	2066
Year Minimum	2023
Date	Minimum : Minimum : Minimum : Minimum : Minimum : Minimum : Minimum air temperature anomaly at 1.5m (Å°C)(95th Percentile)
01/01/2023	-1.20851 -0.77593 -0.05934 0.751328 1.571707 2.329137 2.802519
01/01/2024	-1.19217 -0.75772 -0.03753 0.777206 1.60254 2.366161 2.842407
01/01/2025	-1.17548 -0.73926 -0.01547 0.803337 1.633768 2.403767 2.882806
01/01/2026	-1.15841 -0.7205 0.006884 0.829781 1.665438 2.441977 2.923751
01/01/2027	-1.14092 -0.70139 0.029574 0.856599 1.697598 2.480816 2.965288
01/01/2028	-1.12299 -0.68189 0.052648 0.883855 1.730303 2.520313 3.007475
01/01/2029	-1.10459 -0.66198 0.076147 0.911608 1.763605 2.560502 3.05038
01/01/2030	-1.08571 -0.64162 0.100108 0.939916 1.797559 2.601419 3.094077
01/01/2031	-1.06635 -0.62078 0.124563 0.968829 1.832216 2.643101 3.13865
01/01/2032	-1.04652 -0.59947 0.149533 0.998392 1.867626 2.68559 3.184182
01/01/2033	-1.02624 -0.57767 0.175033 1.028639 1.903833 2.728924 3.23076
01/01/2034	-1.00555 -0.5554 0.201066 1.059592 1.940873 2.773142 3.278466
01/01/2035	-0.98448 -0.53269 0.227624 1.091264 1.978775 2.818278 3.327376
01/01/2036	-0.9631 -0.50957 0.254689 1.123655 2.017561 2.864362 3.377558
01/01/2037	-0.94147 -0.48609 0.282233 1.156752 2.057239 2.911419 3.429067
01/01/2038	-0.91967 -0.4623 0.310219 1.190531 2.097809 2.959464 3.481945
01/01/2039	-0.89778 -0.43828 0.3386 1.224958 2.13926 3.008507 3.536217
01/01/2040	-0.87589 -0.41408 0.367327 1.259989 2.181571 3.058548 3.591892
01/01/2041	-0.85407 -0.3898 0.396344 1.295575 2.22471 3.10958 3.648963
01/01/2042	-0.83241 -0.36548 0.425598 1.331661 2.268641 3.161586 3.707408
01/01/2043	-0.81098 -0.34121 0.455036 1.368192 2.313319 3.214543 3.767187
01/01/2044	-0.78985 -0.31704 0.484611 1.405111 2.358693 3.268419 3.828248
01/01/2045	-0.76905 -0.29303 0.514279 1.442365 2.404712 3.323179 3.890528
01/01/2046	-0.74864 -0.26922 0.544005 1.479905 2.45132 3.378781 3.953951
01/01/2047	-0.72864 -0.24564 0.573764 1.517685 2.498465 3.43518 4.018439
01/01/2048	-0.70905 -0.22232 0.603536 1.555669 2.546092 3.49233 4.083909
01/01/2049	-0.68989 -0.19925 0.633314 1.593826 2.594154 3.550184 4.150276
01/01/2050	-0.67113 -0.17645 0.663094 1.632134 2.642607 3.6087 4.217461
01/01/2051	-0.65276 -0.15389 0.692884 1.670577 2.691412 3.667837 4.28539
01/01/2052	-0.63474 -0.13157 0.722694 1.709149 2.74054 3.727561 4.354
01/01/2053	-0.61703 -0.10944 0.752542 1.747849 2.789968 3.787846 4.423238
01/01/2054	-0.59959 -0.08748 0.782447 1.786684 2.839682 3.848675 4.493067
01/01/2055	-0.58237 -0.06566 0.812432 1.825665 2.889678 3.910042 4.563466
01/01/2056	-0.56532 -0.04394 0.842518 1.86481 2.939963 3.971953 4.63443
01/01/2057	-0.54841 -0.02228 0.872729 1.90414 2.990551 4.034423 4.705969
01/01/2058	-0.53157 -0.00064 0.903084 1.943679 3.041467 4.097484 4.778113
01/01/2059	-0.51478 0.021004 0.933603 1.983456 3.092742 4.161175 4.850905
01/01/2060	-0.49799 0.042683 0.964301 2.0235 3.14442 4.225547 4.9244
01/01/2061	-0.48118 0.064423 0.995193 2.063844 3.196546 4.290661 4.998666
01/01/2062	-0.46432 0.086249 1.026291 2.104522 3.249176 4.356584 5.073773
01/01/2063	-0.44739 0.108179 1.057607 2.145569 3.302368 4.423384 5.1498
01/01/2064	-0.43037 0.130234 1.089152 2.187022 3.356184 4.491134 5.226819
01/01/2065	-0.41325 0.152432 1.12094 2.228923 3.410686 4.559899 5.304899