

Insolation Levels (Africa)

Average Insolation (10 year average) kWh/m²/day

Countr	State/City	Latitude	Longitud	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Avg
BF	Ouagadougou	12' 24" N	1' 30" E	5.48	6.43	6.56	6.62	6.53	6.16	5.76	5.48	5.87	6.18	5.83	5.35	6.02
CF	Bangui	18' 32" N	120' 36" E	4.13	4.97	5.99	6.61	6.17	5.53	5.73	4.87	5.07	4.55	4.07	3.81	5.12
CM	Yaounde	3' 48" N	11' 30" W	4.94	5.38	5.16	4.68	4.46	4.42	5.17	5.07	5.03	5.4	5.29	4.83	4.98
DJ	djibouti	11' 33" N	43' 09" E	5.6	5.77	6.59	6.81	6.85	6.87	6.46	6.47	6.56	6.77	6.22	5.55	6.37
DZ	alger	36 ' 50"	3' E	2.22	2.94	3.87	5	5.88	6.69	7.23	6.48	5.15	3.53	2.43	2.02	4.45
EG	Cairo	29' 35" N	31' 09" E	3.39	4.17	5.24	6.49	7.11	8	7.88	7.4	6.42	5.07	3.86	3.19	5.68
ET	addis abeba	9' 2" N	38' 42" E	5.96	5.8	6.23	6.31	6.11	5.79	5.03	5	5.64	6.31	6.15	5.75	5.84
GH	accra	5' 36` N	0' 12` W	5.65	6.01	5.65	5.33	5	4.49	4.5	4.59	4.67	5.25	5.7	5.55	5.2
GM	gambia	13' 28" N	16' 39" W	5.01	5.93	6.67	6.92	6.72	6.06	5.48	5.09	5.3	5.67	5.36	4.95	5.76
GN	conakry	9' 36" N	13' 36" E	5.81	6.41	6.51	6.22	5.69	5.69	5.09	5.05	5.46	5.87	5.98	5.6	5.78
KE	nairobi	1' 16" S	36' 48" E	6.05	6.24	6.07	5.7	5.42	5.14	4.88	5.09	5.78	6.03	5.48	5.6	5.62
LR	liberia	6' 30" N	9' 30" W	5.43	5.72	5.59	5.31	5.11	4.61	4.25	4.19	4.67	5.13	5.24	5.2	5.03
LY	tarabulus	32' 54" N	13' 11" E	3.1	4.03	5.19	6.48	6.89	7.77	8.11	7.45	6.12	4.58	3.35	2.76	5.48
MA	rabat	32' 32" N	9' 17" W	3.13	3.86	5.09	6.08	6.89	7.31	7.34	6.8	5.69	4.37	3.25	2.82	5.21
ML	bamako	12' 30" N	7' 54" E	5.61	6.35	6.64	6.78	6.42	6.47	5.87	5.65	6.04	6.13	5.85	5.36	6.09
MR	nouakchott	17' 45" N	15' 45" E	5.31	6.21	6.8	7.54	7.57	7.63	7.2	6.9	6.78	6.34	5.49	4.88	6.55
NE	niamey	13' 30" N	2' 12" W	5.42	6.39	6.72	6.79	6.75	6.31	6.07	5.78	6.07	6.16	5.79	5.29	6.12
NG	abuja	9' 12" N	7' 11" E	5.57	6.33	6.22	6.1	5.89	5.47	4.92	4.65	5.12	5.82	5.81	5.42	5.61
SD	al khur-tum	15' 33" N	32' 32" E	5.46	6.19	6.75	7.25	6.85	6.96	6.52	6.35	6.42	6.17	5.66	5.22	6.31
SL	freetown	8' 29" N	13' 14" W	5.19	5.91	6.08	5.47	4.76	4.09	3.6	3.58	4.25	4.84	4.93	4.94	4.8
SN	dakar	14' 38" N	17' 27" W	4.84	5.77	6.56	6.81	6.7	5.7	5.15	5.01	5.13	5.46	5.03	4.63	5.56
SO	muqdisho	2' 02" N	45' 20" E	6.38	6.81	6.71	6.28	5.85	5.45	5.21	5.61	6.15	6.16	6	5.91	6.04
TN	tunis	36' 47.8"	10' 6.8" E	2.29	3.06	4.09	5.47	6.38	7.16	7.57	6.8	5.33	3.65	2.54	2.08	4.7

[Data courtesy of: NASA - Surface meteorology and Solar Energy Data Set](#)

Reference:

Whitlock, C. E., et al., Release 3 NASA Surface Meteorology and Solar Energy Data Set for Renewable Energy Industry Use. Rise & Shine 2000, the 26th Annual Conference of the Solar Energy Society of Canada Inc. and Solar, Oct. 21-24, 2000, Halifax, Nova Scotia, Canada.

Please note: If your region is not listed please visit the NASA website where you can search for insolation value for any areas of the world. You will need to obtain a free username and password to gain access.



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