

► Insoirea medie in EUROPA ( media pe10 ani ) in kWh/m2/day

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Country	State/City	Latitude	Longitude	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Avg	
AT	Vienna	48' 13" N	16' 22" E	1.1	1.81	2.8	3.76	4.76	5.12	5.72	4.98	3.68	2.15	1.28	0.93	3.52	Vienna
BE	Bruxelles	50' 45" N	4' 30" E	0.74	1.31	2.29	3.68	4.67	4.48	4.82	4.2	2.86	1.73	0.92	0.56	3.02	Bruxelles
BG	Sofija	42' 40" N	23' 18" E	1.5	2.04	2.97	4.05	5	5.8	6.29	5.68	4.46	2.75	1.62	1.27	3.99	Sofija
CY	Limassol	34' 40" N	33' 03" E	2.52	3.26	4.54	6	6.85	7.81	7.8	7.18	6.11	4.43	3.02	2.31	5.61	Limassol
CR	Zagreb	45' 29" N	15' 35" E	1.3	2	2.94	3.91	5.03	5.37	5.93	5.19	3.94	2.39	1.39	1.09	3.72	Zagreb
DE	Hamburg	53' 33" N	9' 59" E	0.54	1.11	2.09	3.68	4.86	4.47	4.47	3.89	2.59	1.48	0.69	0.4	2.52	Hamburg
DE	Munich	48' 05" N	11' 23" E	1.05	1.8	2.82	3.95	4.84	4.65	5.14	4.46	3.2	2	1.02	0.79	2.98	Munich
ES	Madrid	40' 25" N	3' 41" W	1.93	2.75	4.09	4.83	5.85	6.52	7.11	6.3	4.91	3.07	1.97	1.59	4.62	Madrid
ES	Malaga	36' 42" N	4' 42" W	2.52	3.24	4.51	5.4	6.35	7.09	7.64	6.81	5.39	3.7	2.58	2.14	5.16	Malaga
ES	Barcelona	41' 24" N	2' 9" E	1.89	2.71	3.97	4.99	5.82	6.56	7.01	6.07	4.72	3.11	2.04	1.7	4.6	Barcelona
ES	Alicante	38' 40" N	0' 30" W	2.23	3.02	4.26	5.39	6.13	6.89	7.34	6.53	5.11	3.45	2.34	1.94	4.94	Alicante
FX	Lyon	45' 46" N	4' 50" E	1.26	1.97	3.02	4.08	4.97	5.4	6.03	5.23	3.93	2.27	1.43	1.08	3.74	Lyon
FX	Paris	48' 52" N	2' 20" E	0.89	1.62	2.62	3.95	4.9	4.83	5.35	4.61	3.33	2	1.12	0.72	3.34	Paris
FX	Toulouse	43' 37" N	1' 26" E	1.39	2.14	3.19	4.03	4.82	5.16	5.86	5.07	4.09	2.48	1.58	1.25	3.75	Toulouse
GR	Athens	38' N	23' 43" E	2	2.52	3.67	5.21	6.38	7.52	7.61	6.91	5.57	3.5	2.16	1.63	4.56	Athens
HU	Budapest	47' 30" N	19' 3" E	1	1.71	2.76	3.9	5.03	5.3	5.62	4.84	3.57	2.24	1.17	0.88	3.17	Budapest
IE	Dublin	53' 20" N	6' 15" W	0.56	1.07	1.97	3.32	4.4	4.3	4.3	3.4	2.69	1.43	0.77	0.43	2.39	Dublin
IT	Milan	45' 28" N	9' 12" E	1.27	1.89	2.91	3.65	4.84	5.36	5.97	5.21	3.91	2.4	1.42	1.08	3.33	Milan
IT	Rome	41' 53" N	12' 30" E	1.78	2.52	3.71	4.87	5.98	6.84	7.08	6.34	4.83	3.08	1.98	1.56	4.21	Rome
NL	Amsterdam	52' 21" N	4' 54" E	0.61	1.21	2.27	3.76	4.88	4.73	4.78	4.13	2.8	1.6	0.78	0.45	2.67	Amsterdam
NO	Oslo	59' 56" N	10' 44" E	0.3	0.87	1.68	3.12	4.65	4.84	4.59	3.36	2.22	1.02	0.42	0.19	2.27	Oslo
RO	Bucharest	44' 26" N	26' 06" E	1.52	2.22	3.08	4.18	5.32	5.8	5.99	5.46	4.07	2.63	1.58	1.22	3.59	Bucharest
PT	Lisboa	38' 42" N	9' 11" W	2.27	2.99	4.3	5.15	6.13	6.46	6.89	6.33	5.11	3.44	2.27	1.84	4.43	Lisboa
PT	Oviedo	43' 21" N	5' 50" W	1.67	2.29	3.44	4.59	5.56	6.32	6.86	5.95	4.51	2.71	1.77	1.46	3.93	Oviedo
UA	Odessa	46' 30" N	30' 46" E	1.08	1.78	2.68	3.87	5.4	5.7	6.39	5.63	3.96	2.45	1.06	0.87	3.41	Odessa
UK	Edinburgh	55' 55" N	3" 10" W	0.44	0.94	1.86	3.18	4.33	4.34	4.13	3.41	2.43	1.2	0.59	0.32	2.26	Edinburgh
UK	London	51' 32" N	0' 5" W	0.67	1.26	2.22	3.48	4.54	4.51	4.74	4.01	2.86	1.65	0.89	0.52	2.61	London
SZ	Bern	46' 57" N	7' 26" E	1.1	1.77	2.74	3.6	4.7	5.07	5.68	4.95	3.66	2.18	1.26	0.92	3.14	Bern
SZ	Lausanne	46' 32" N	6' 39" E	1.1	1.81	2.8	3.76	4.76	5.12	5.72	4.98	3.68	2.15	1.28	0.93	3.17	Lausanne
YU	Beograd	44' 50" N	20' 30" E	1.29	1.89	2.92	3.86	4.88	5.45	6	5.3	4.05	2.5	1.4	1.11	3.39	Beograd

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	ORAS	Latitudine	Longitudine	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Avg	
1	Alba iulia	46' 04" N	23' 34" E	1.28	2.00	3.00	3.94	4.76	5.28	5.72	4.91	3.60	2.35	1.43	1.05	3.28	Alba iulia
2	Alexandria	43' 58" N	25' 19" E	1.60	2.20	3.16	4.49	5.57	6.27	6.47	5.82	4.38	2.78	1.57	1.26	3.80	Alexandria
3	Arad	46' 11" N	21' 21" E	1.22	2.06	3.05	4.33	5.30	5.87	6.14	5.22	3.90	2.50	1.46	1.07	3.51	Arad
4	Bacau	46' 34" N	26' 55" E	1.35	2.02	2.81	3.67	4.76	5.12	5.43	4.88	3.56	2.35	1.43	1.10	3.21	Bacau
5	Baia mare	47' 39" N	23' 33" E	1.19	1.95	3.01	4.18	5.18	5.51	6.02	5.07	3.61	2.25	1.32	0.96	3.36	Baia mare
6	Barlada	46' 12" N	27' 40" E	1.35	2.02	2.81	3.67	4.76	5.12	5.43	4.88	3.56	2.35	1.43	1.10	3.21	Barlada
7	Bistrita	47' 08" N	24' 29" E	1.18	1.94	2.78	3.65	4.41	4.78	5.09	4.46	3.19	2.15	1.27	0.97	2.99	Bistrita
8	Braila	45' 15" N	27' 57" E	1.45	2.04	2.98	3.75	4.78	5.13	5.41	4.93	3.66	2.44	1.50	1.15	3.27	Braila
9	Brasov	45' 39" N	25' 36" E	1.49	2.02	3.01	3.70	4.55	4.88	5.19	4.73	3.60	2.42	1.53	1.21	3.20	Brasov
10	Bucuresti	44' 26" N	26' 05" E	1.52	2.22	3.08	4.18	5.32	5.80	5.99	5.46	4.07	2.63	1.58	1.22	3.59	Bucuresti
11	Buzau	45' 09" N	26' 49" E	1.45	2.04	2.98	3.75	4.78	5.13	5.41	4.93	3.66	2.44	1.50	1.15	3.27	Buzau
12	Calarasi	44' 12" N	27' 19" E	1.53	2.23	3.03	4.28	5.43	5.91	6.20	5.61	4.15	2.69	1.57	1.20	3.66	Calarasi
13	Campina	45' 08" N	25' 45" E	1.49	2.02	3.01	3.70	4.55	4.88	5.19	4.73	3.60	2.42	1.53	1.21	3.20	Campina
14	Campulung	45' 16" N	25' 02" E	1.49	2.02	3.01	3.70	4.55	4.88	5.19	4.73	3.60	2.42	1.53	1.21	3.20	Campulung
15	Caracal	44' 07" N	24' 21" E	1.59	2.20	3.13	4.26	5.35	6.05	6.21	5.55	4.16	2.59	1.63	1.31	3.67	Caracal
16	Caransebes	45' 25" N	22' 13" E	1.41	2.06	3.02	3.81	4.78	5.29	5.74	5.01	3.74	2.47	1.54	1.17	3.34	Caransebes
17	Carei	47' 41" N	22' 29" E	1.19	1.95	3.01	4.18	5.18	5.51	6.02	5.07	3.61	2.25	1.32	0.96	3.36	Carei
18	Cluj	46' 47" N	23' 35" E	1.28	2.00	3.00	3.94	4.76	5.28	5.72	4.91	3.60	2.35	1.43	1.05	3.28	Cluj
19	Constanta	44' 09" N	28' 37" E	1.47	2.17	2.94	4.24	5.41	5.95	6.18	5.61	4.16	2.69	1.55	1.15	3.63	Constanta
20	Craiova	44' 18" N	23' 49" E	1.58	2.17	3.06	4.26	5.29	6.07	6.29	5.51	4.16	2.57	1.63	1.30	3.66	Craiova
21	Deva	45' 43" N	22' 54" E	1.41	2.06	3.02	3.81	4.78	5.29	5.74	5.01	3.74	2.47	1.54	1.17	3.34	Deva
22	Fetesti	44' 24" N	27' 51" E	1.53	2.23	3.03	4.28	5.43	5.91	6.20	5.61	4.15	2.69	1.57	1.20	3.66	Fetesti
23	Focsani	45' 43" N	27' 11" E	1.45	2.04	2.98	3.75	4.78	5.13	5.41	4.93	3.66	2.44	1.50	1.15	3.27	Focsani
24	Galati	45' 26" N	28' 03" E	1.39	2.09	2.98	4.09	5.32	5.79	5.96	5.43	4.03	2.54	1.45	1.10	3.52	Galati
25	Giurgiu	43' 55" N	25' 59" E	1.60	2.20	3.16	4.49	5.57	6.27	6.47	5.82	4.38	2.78	1.57	1.26	3.80	Giurgiu
26	Hunedoara	45' 46" N	22' 54" E	1.41	2.06	3.02	3.81	4.78	5.29	5.74	5.01	3.74	2.47	1.54	1.17	3.34	Hunedoara
27	Iasi	47' 09" N	27' 53" E	1.22	1.99	2.78	3.77	4.84	5.28	5.50	4.87	3.47	2.21	1.30	1.00	3.19	Iasi
28	Lugoj	45' 42" N	21' 55" E	1.33	2.09	3.13	4.36	5.31	5.93	6.22	5.40	3.98	2.58	1.54	1.15	3.59	Lugoj
29	Medgidia	44' 16" N	28' 16" E	1.47	2.17	2.94	4.24	5.41	5.95	6.18	5.61	4.16	2.69	1.55	1.15	3.63	Medgidia
30	Medias	46' 09" N	24' 22" E	1.32	1.98	3.01	3.84	4.80	5.15	5.53	4.86	3.53	2.34	1.40	1.06	3.24	Medias

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	ORAS	Latitudine	Longitudine	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Avg	
31	Miercurea Ciuc	46' 22" N	25' 49" E	1.32	1.98	3.01	3.84	4.80	5.15	5.53	4.86	3.53	2.34	1.40	1.06	3.24	Miercurea Ciuc
32	Oltenita	44' 05" N	26' 38" E	1.52	2.22	3.08	4.18	5.32	5.80	5.99	5.46	4.07	2.63	1.58	1.22	3.59	Oltenita
33	Oradea	45' 07" N	21' 54" E	1.33	2.09	3.13	4.36	5.31	5.93	6.22	5.40	3.98	2.58	1.54	1.15	3.59	Oradea
34	Pascani	47' 15" N	26' 43" E	1.22	1.99	2.78	3.77	4.84	5.28	5.50	4.87	3.47	2.21	1.30	1.00	3.19	Pascani
35	Piatra Neamt	46' 56" N	26' 22" E	1.35	2.02	2.81	3.67	4.76	5.12	5.43	4.88	3.56	2.35	1.43	1.10	3.21	Piatra Neamt
36	Pitesti	44' 51" N	24' 53" E	1.59	2.20	3.13	4.26	5.35	6.05	6.21	5.55	4.16	2.59	1.63	1.31	3.67	Pitesti
37	Ploiesti	44' 55" N	26' 01" E	1.52	2.22	3.08	4.18	5.32	5.80	5.99	5.46	4.07	2.63	1.58	1.22	3.59	Ploiesti
38	Radauti	47' 51" N	25' 54" E	1.18	1.94	2.78	3.65	4.41	4.78	5.09	4.46	3.19	2.15	1.27	0.97	2.99	Radauti
39	R.Valcea	45' 06" N	24' 22" E	1.49	2.02	3.01	3.70	4.55	4.88	5.19	4.73	3.60	2.42	1.53	1.21	3.20	R.Valcea
40	Reghin	46' 46" N	24' 44" E	1.32	1.98	3.01	3.84	4.80	5.15	5.53	4.86	3.53	2.34	1.40	1.06	3.24	Reghin
41	Resita	45' 17" N	21' 54" E	1.33	2.09	3.13	4.36	5.31	5.93	6.22	5.40	3.98	2.58	1.54	1.15	3.59	Resita
42	Roman	46' 57" N	26' 54" E	1.35	2.02	2.81	3.67	4.76	5.12	5.43	4.88	3.56	2.35	1.43	1.10	3.21	Roman
43	Rosiori	44' 07" N	24' 59" E	1.59	2.20	3.13	4.26	5.35	6.05	6.21	5.55	4.16	2.59	1.63	1.31	3.67	Rosiori
44	Satu Mare	47' 47" N	22' 53" E	1.19	1.95	3.01	4.18	5.18	5.51	6.02	5.07	3.61	2.25	1.32	0.96	3.36	Satu Mare
45	Sebes	45' 57" N	23' 33" E	1.41	2.06	3.02	3.81	4.78	5.29	5.74	5.01	3.74	2.47	1.54	1.17	3.34	Sebes
46	Sibiu	45' 48" N	24' 10" E	1.49	2.02	3.01	3.70	4.55	4.88	5.19	4.73	3.60	2.42	1.53	1.21	3.20	Sibiu
47	Sighet	47' 54" N	23' 55" E	1.19	1.95	3.01	4.18	5.18	5.51	6.02	5.07	3.61	2.25	1.32	0.96	3.36	Sighet
48	Sighisoara	46' 14" N	24' 48" E	1.32	1.98	3.01	3.84	4.80	5.15	5.53	4.86	3.53	2.34	1.40	1.06	3.24	Sighisoara
49	Slatina	44' 26" N	24' 23" E	1.59	2.20	3.13	4.26	5.35	6.05	6.21	5.55	4.16	2.59	1.63	1.31	3.67	Slatina
50	Suceava	47' 40" N	26' 17" E	1.22	1.99	2.78	3.77	4.84	5.28	5.50	4.87	3.47	2.21	1.30	1.00	3.19	Suceava
51	Targoviste	44' 55" N	25' 27" E	1.54	2.21	3.16	4.26	5.39	6.01	6.11	5.51	4.17	2.62	1.60	1.27	3.66	Targoviste
52	Tg.Jiu	45' 02" N	23' 16" E	1.41	2.06	3.02	3.81	4.78	5.29	5.74	5.01	3.74	2.47	1.54	1.17	3.34	Tg.Jiu
53	Tg.Mures	46' 33" N	24' 35" E	1.32	1.98	3.01	3.84	4.80	5.15	5.53	4.86	3.53	2.34	1.40	1.06	3.24	Tg.Mures
54	Tecuci	45' 51" N	27' 25" E	1.45	2.04	2.98	3.75	4.78	5.13	5.41	4.93	3.66	2.44	1.50	1.15	3.27	Tecuci
55	Timisoara	45' 45" N	21' 14" E	1.33	2.09	3.13	4.36	5.31	5.93	6.22	5.40	3.98	2.58	1.54	1.15	3.59	Timisoara
56	Tulcea	45' 10" N	28' 49" E	1.39	2.09	2.98	4.09	5.32	5.79	5.96	5.43	4.03	2.54	1.45	1.10	3.52	Tulcea
57	Turda	46' 33" N	23' 47" E	1.28	2.00	3.00	3.94	4.76	5.28	5.72	4.91	3.60	2.35	1.43	1.05	3.28	Turda
58	T.Magurele	43' 45" N	24' 53" E	1.61	2.20	3.14	4.40	5.54	6.22	6.46	5.79	4.36	2.74	1.60	1.31	3.78	T.Magurele
59	Vaslui	46' 37" N	27' 44" E	1.35	2.02	2.81	3.67	4.76	5.12	5.43	4.88	3.56	2.35	1.43	1.10	3.21	Vaslui
60	Zalau	47' 1" N	23' 03" E	1.19	1.95	3.01	4.18	5.18	5.51	6.02	5.07	3.61	2.25	1.32	0.96	3.36	Zalau