

**SOLAR IRRADIANCE DATA IN TAMIL NADU**

Sl. No.	District	Latitude	Longitude	Meteorological Data-GHI	Nasa Data GHI	Variation	% Variation
1.	Ramanathapuram	9.3833	78.8333	5.67	5.1	0.57	10.05
2.	Nagapattinam	10.7666	79.8333	5.67	5.18	0.49	8.64
3.	Erode	11.35	77.7333	5.63	5.11	0.52	9.24
4.	Thoothukudi	8.8167	78.1333	5.61	5.55	0.06	1.07
5.	Karur	10.95	78.0833	5.6	5.2	0.4	7.14
6.	Madurai	9.8	78.1	5.59	5.1	0.49	8.77
7.	Vellore	12.9167	79.1333	5.58	5.13	0.45	8.06
8.	Cuddalore	11.75	79.75	5.58	5.14	0.44	7.89
9.	Salem	11.65	78.1667	5.58	5.19	0.39	6.99
10.	Trichy	10.8	78.6833	5.55	5.2	0.35	6.31
11.	Kanyakumari	8.0667	77.5333	5.54	4.91	0.63	11.37
12.	Dharmapuri	12.1167	78.2667	5.54	5.16	0.38	6.86
13.	Virudhunagar	9.5667	77.95	5.53	4.86	0.67	12.12
14.	Coimbatore	11.2667	76.9833	5.52	4.97	0.55	9.96
15.	Tirunelveli	8.7333	77.7	5.51	4.91	0.6	10.89
16.	Thiruvallur	13.15	79.9167	5.5	5.11	0.39	7.09
17.	Kancheepuram	12.8167	79.7167	5.5	5.13	0.37	6.73
18.	Dindigul	10.35	77.95	5.49	4.99	0.5	9.11
19.	Sivagangai	9.8667	78.4833	5.48	5.1	0.38	6.93
20.	Tiruvannamalai	12.2167	79.0667	5.48	5.13	0.35	6.39
21.	Villupuram	11.9333	79.4833	5.48	5.14	0.34	6.20
22.	Nilgiris	11.6167	76.5	5.45	4.97	0.48	8.81
23.	Thiruvarur	10.7667	79.65	5.44	5.18	0.26	4.78
24.	Theni	10	77.4667	5.42	4.99	0.43	7.93
25.	Thanjavur	10.8	79.15	5.41	5.18	0.23	4.25
26.	Pudukkottai	10.3833	78.8167	5.41	5.2	0.21	3.88
27.	Perambalur	11.2333	78.8833	5.37	5.19	0.18	3.35
28.	Ariyalur	11.1333	79.0667	5.36	5.14	0.22	4.10