

GLOBAL SOLAR ATLAS

BY WORLD BANK GROUP

苏州市

31°19'30", 120°44'21"

Xingtang Street, Suzhou City, Jiangsu, China

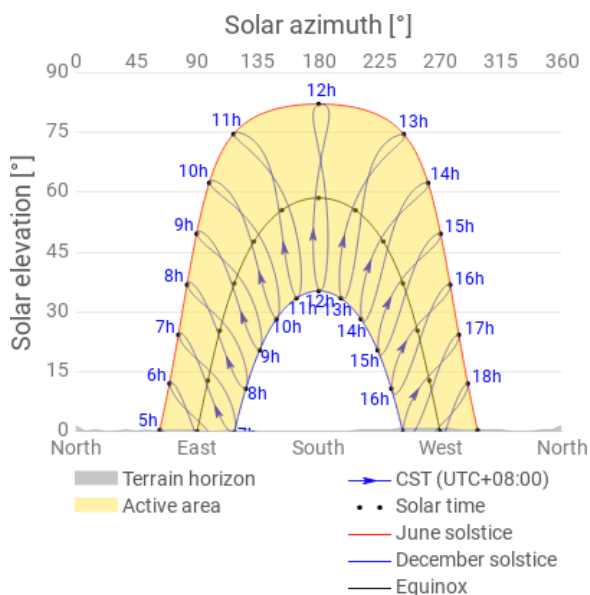
Time zone: UTC+08, Asia/Shanghai [CST]

🕒 Report generated: 27 Jan 2021

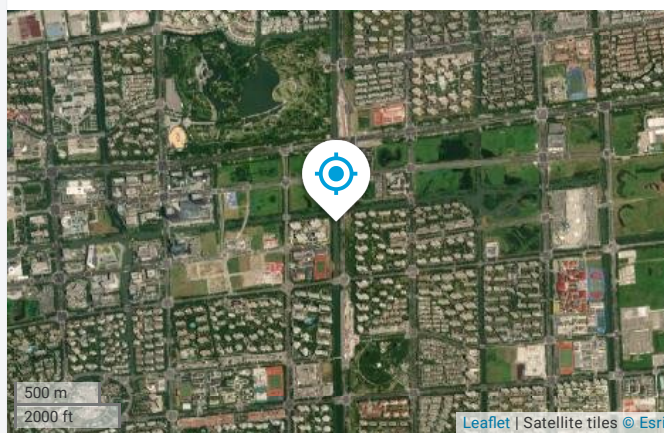
SITE INFO

Map data		Per year	
Specific photovoltaic power output	PVOUT specific	1168	kWh/kWp
Direct normal irradiation	DNI	821	kWh/m ²
Global horizontal irradiation	GHI	1331	kWh/m ²
Diffuse horizontal irradiation	DIF	782	kWh/m ²
Global tilted irradiation at optimum angle	GTI opta	1432	kWh/m ²
Optimum tilt of PV modules	OPTA	25 / 180	°
Air temperature	TEMP	17.1	°C
Terrain elevation	ELE	4	m

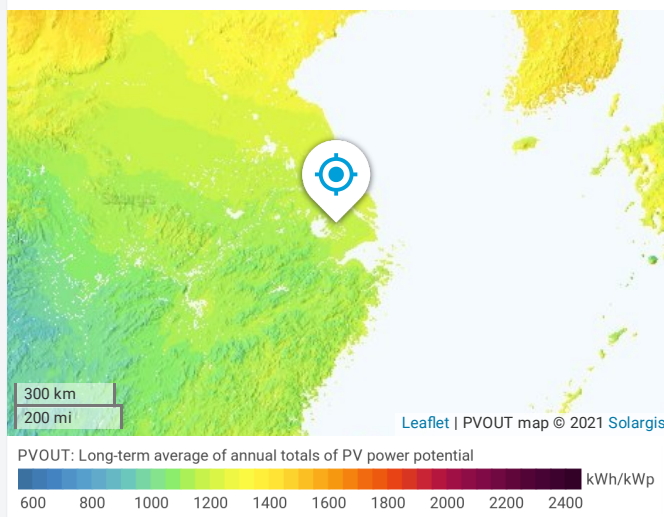
Horizon and sunpath



Map



PVOUT map



PV ELECTRICITY AND SOLAR RADIATION

Annual averages

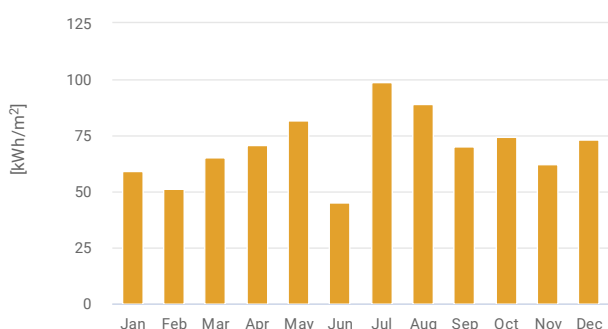
Direct normal irradiation

841

kWh/m² per year

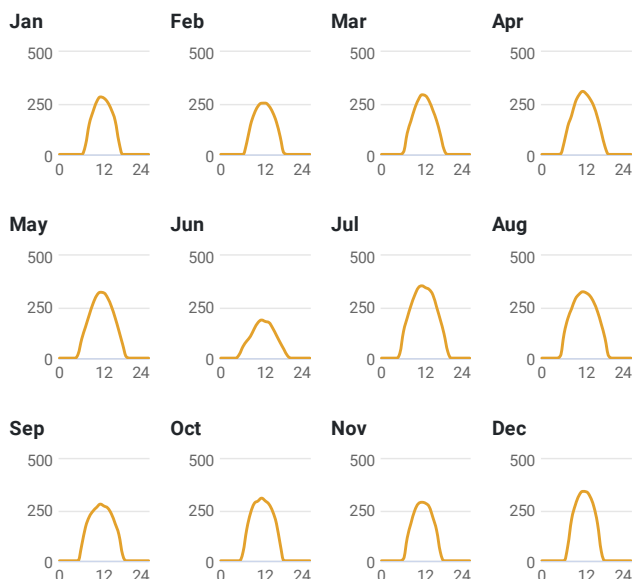
Monthly averages

Direct normal irradiation



Average hourly profiles

Direct normal irradiation [Wh/m²]



UTC+08

Average hourly profiles

Direct normal irradiation [Wh/m²]

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0 - 1												
1 - 2												
2 - 3												
3 - 4												
4 - 5												
5 - 6				2	18	18	24	11				
6 - 7			12	58	94	57	131	120	78	42	10	
7 - 8	45	57	104	138	152	83	196	193	165	155	113	74
8 - 9	147	142	163	189	210	106	256	241	216	234	184	203
9 - 10	207	198	222	254	265	143	305	288	244	281	245	274
10 - 11	257	234	266	290	305	173	343	311	263	294	281	321
11 - 12	280	250	291	307	321	186	353	324	279	309	288	342
12 - 13	274	250	286	294	318	179	344	318	269	295	283	340
13 - 14	253	236	259	270	293	173	334	303	260	278	265	316
14 - 15	217	205	214	235	251	146	307	272	230	242	212	267
15 - 16	164	157	164	179	196	111	249	226	183	183	149	182
16 - 17	62	87	98	109	133	76	187	166	129	82	43	47
17 - 18		8	24	38	67	43	119	97	29			
18 - 19					6	11	33	10				
19 - 20												
20 - 21												
21 - 22												
22 - 23												
23 - 24												
Sum	1906	1824	2102	2363	2629	1504	3180	2879	2345	2395	2073	2365

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GLOSSARY

Acronym	Full name	Unit	Type of use
DIF	Diffuse horizontal irradiation	kWh/m ² , MJ/m ²	Average yearly, monthly or daily sum of diffuse horizontal irradiation (© 2019 Solargis)
DNI	Direct normal irradiation	kWh/m ² , MJ/m ²	Average yearly, monthly or daily sum of direct normal irradiation (© 2019 Solargis)
ELE	Terrain elevation	m, ft	Elevation of terrain surface above/below sea level, processed and integrated from SRTM-3 data and related data products (© 2019 SRTM team)
GHI	Global horizontal irradiation	kWh/m ² , MJ/m ²	Average annual, monthly or daily sum of global horizontal irradiation (© 2019 Solargis)
GTI	Global tilted irradiation	kWh/m ² , MJ/m ²	Average annual, monthly or daily sum of global tilted irradiation (© 2019 Solargis)
GTI_opta	Global tilted irradiation at optimum angle	kWh/m ² , MJ/m ²	Average annual, monthly or daily sum of global tilted irradiation for PV modules fix-mounted at optimum angle (© 2019 Solargis)
OPTA	Optimum tilt of PV modules	°	Optimum tilt of fix-mounted PV modules facing towards Equator set for maximizing GTI input (© 2019 Solargis)
PVOUT_total	Total photovoltaic power output	kWh, MWh, GWh	Yearly and monthly average values of photovoltaic electricity (AC) delivered by the total installed capacity of a PV system (© 2019 Solargis)
PVOUT_specific	Specific photovoltaic power output	kWh/kWp	Yearly and monthly average values of photovoltaic electricity (AC) delivered by a PV system and normalized to 1 kWp of installed capacity (© 2019 Solargis)
TEMP	Air temperature	°C, °F	Average yearly, monthly and daily air temperature at 2 m above ground. Calculated from outputs of ERA5 model (© 2019 NOAA and NASA)

ABOUT

This pdf report (the “Work”) is automatically generated from the Global Solar Atlas online app (<https://globalsolaratlas.info/>), prepared by Solargis under contract to The World Bank, based on a solar resource database that Solargis owns and maintains. It provides the estimated solar resource, air temperature data and potential solar power output for the selected location and input parameters of a photovoltaic (PV) power system.

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Sources: Solar database and PV software © 2019 Solargis