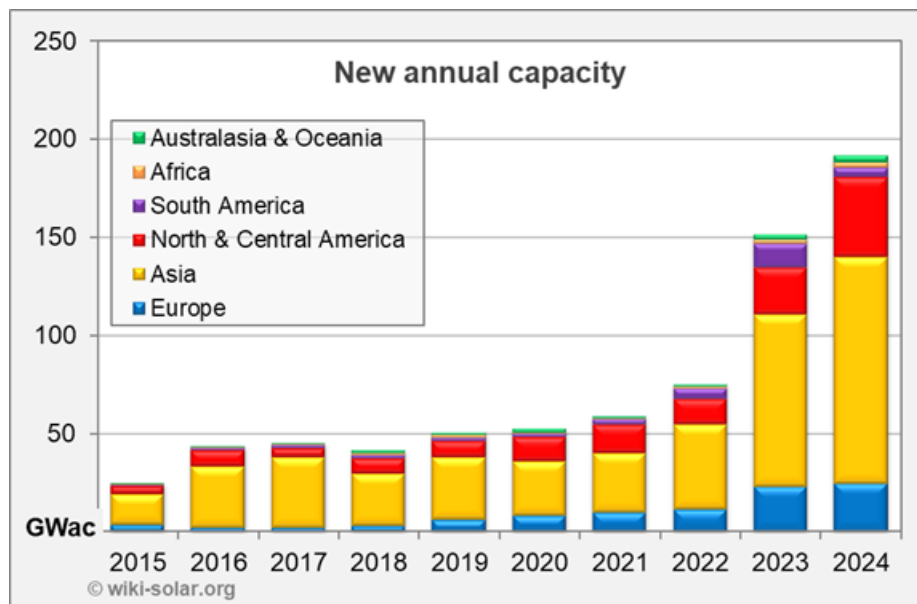


Utility-scale solar surges to 1-TWp after yet another record year

Solar power station installations notched up yet another record year according to preliminary figures for 2024 released today by utility-scale experts Wiki-Solar. Global cumulative installed capacity climbed by nearly 200 GW_{AC} to about 800 GW_{AC}. Based on typical PV performance ratios, this equates to 1,000 GW_{DC} – or one terawatt peak.



Annual new utility-scale solar capacity by continent

Yet again, Asia accounted for over half of the growth, thanks to the ongoing boom in China and India, which rank at numbers 1 and 3 in the world. Second-placed North America is also showing strong growth. The USA doubled its new installations in 2023 and almost re-doubled in 2024.

Europe too has started to pull out of the fallow 2018-2022 period. Spain is enjoying a surge of new installations, and Germany too has entered a new growth phase.

South America is at last making a meaningful contribution. Chile continues to steadily deploy its huge pipeline of approved projects. But Brazil has now leapfrogged it to top Latin American nation thanks to a raft of large-scale projects deployed in 2023 and 2024.

Other significant climbers in this year's provisional list are Saudi Arabia, Poland and Portugal.

Wiki-Solar founder Philip Wolfe expects that the global total will pass 1 TW_{AC} during 2025, based on the pipeline of projects already in development. He also emphasizes that the above figures are provisional at this stage. "We are still awaiting fourth quarter data from China and other significant markets", he said. "It is possible that the provisional figure for Japan will prove to be understated, while Colombia's may be an over-estimate".

TEXT ENDS - Overleaf: Table of countries and further graphic



Continued/-



Wiki-Solar

Top countries for utility-scale (4-MWac+) solar projects at end 2024

Rank	Country [a,c]	Operating		Change since 01-Jan-24			
		Plants	GWac [b]	Plants	GWac [b]	Rank	
1	China	Map	4,758	320.1	155	80.7	1
2	United States	Map	3,324	132.9	456	39.0	2
3	India	Map	1,610	83.1	151	24.3	3
4	Spain	Map	715	29.8	71	5.5	4
5	Germany	Map	2,124	19.7	371	4.5	5
6	Japan	Map	808	16.7	14	0.6	27
7	Brazil	Map	119	15.3	21	4.1	6
8	Australia	Map	206	13.4	50	3.5	7
9	United Kingdom	Map	1,178	11.7	162	2.5	8
10	Chile	Map	479	11.4	154	1.9	12
11	Vietnam	Map	140	11.2	6	1.5	15
12	France	Map	1,090	10.7	106	2.0	11
13	Mexico		84	9.2	7	0.7	18
14	Netherlands	Map	576	6.9	120	1.6	14
15	United Arab Emirates		12	6.6	1	0.5	32
16	Italy	Map	403	5.4	95	2.2	9
17	Ukraine	Map	314	4.6	0	0.0	
18	South Africa	Map	67	4.1	10	0.6	24
19	Turkiye	Map	292	4.1	10	0.6	25
20	Saudi Arabia		17	3.9	5	2.0	10
21	Canada	Map	177	3.8	7	0.5	30
22	Portugal	Map	126	3.7	37	1.8	13
23	Philippines	Map	116	3.7	31	0.7	20
24	Malaysia		89	3.4	4	0.9	16
25	South Korea		79	2.6	2	0.2	39
26	Poland		68	2.5	15	0.6	29
27	Taiwan		43	2.4	6	0.4	35
28	Colombia	Map	214	2.3			
29	Egypt		43	2.3	4	0.7	21
30	Greece	Map	137	2.3	15	0.0	47
31	Hungary	Map	115	2.2	11	0.3	37
32	Thailand	Map	162	2.2	11	0.4	33
33	Bulgaria	Map	109	2.1	6	0.2	41
fTopGC_3303	Totals listed above:		19,794	756.3	2,209	182.7	

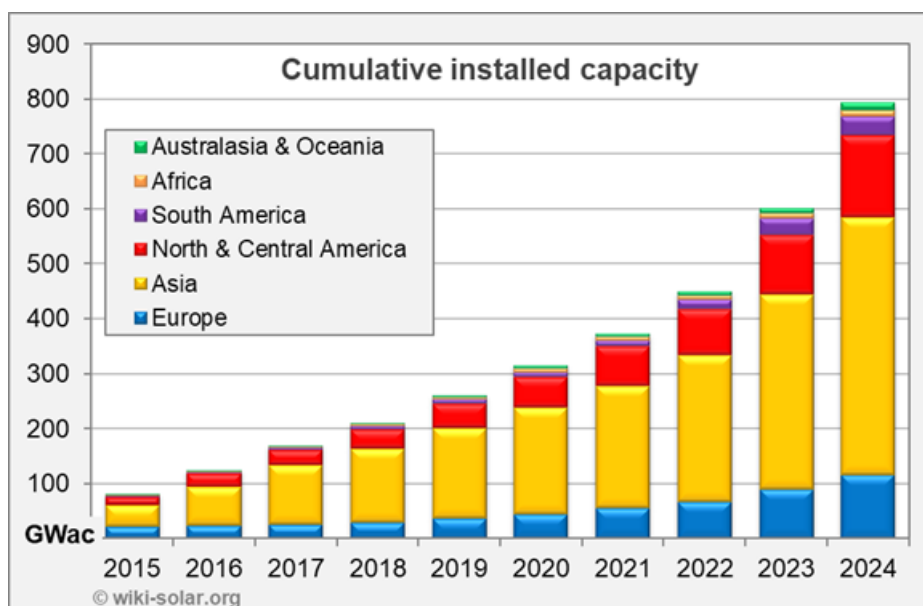
[a] These top 33 countries account for 756-GWac, ~93% of the world total.

[b] GWac total for projects over 4MWac; GWp figures typically ~25% higher

[c] Blue underlined 'Map' entries are hyperlinks to Wiki-Solar map

Notes for editors:

- [1] This release on the utility-scale solar market is available here:
http://wiki-solar.org/library/public/250212_Utility-scale_solar_surges_to_1TW_after_another_record_year.pdf
- [2] Wiki-Solar defines ‘utility-scale solar’ as 4 MW_{AC} and above (≈5MW_P for PV; ≈ electricity for 1,500 households in Europe) see: <http://wiki-solar.org/data/glossary/utility-scale.html>.
- [3] Wiki-Solar is the leading authority on utility-scale solar with a database covering over 25,000 utility-scale solar projects, of which about three-quarters are operational. Unless stated as peak or DC, all figures are based on the AC export rating of operational plants. Projects under development are excluded until they have been commissioned.
- [4] Cumulative installed capacity is shown in this graph:



Cumulative total installed capacity by continent

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