9th December 2025 ***Breaking News*** *Read online*

Global utility-scale solar breaks through 1 Terawatt

Competition heats up for top EPCs

Worldwide installed capacity of utility-scale solar power plants broke through 1 TWac (1,000 GWac) in the second half of 2025, according to sector experts Wiki-Solar. “This is a heroic achievement”, says Wiki-Solar’s Philip Wolfe, “since we topped 100GW only as recently as 2016.” This means the cumulative capacity has doubled every three years, a compound growth rate of over 25%.

The world’s top utility-scale solar constructors have played a major role in making this happen. Latest figures shown that the top 36 EPCs account for 131 GWac of operating solar power plants, of which 28% was commissioned since the start of 2024.

But competition is heating up. The top companies accounted for 18% of the world total three years ago; this has now slipped to 13%.

American, Chinese, and Indian companies continue to dominate the top of Wiki-Solar’s league table published today, although Europeans still hold 16 of the top 36 places. While USA’s SOLV[2] and McCarthy retain the top spots, Asian contractors have been notable climbers, led by Larsen & Toubro, Sterling & Wilson, China Machinery Engineering, Tata, and China Power Construction. These last two have leapt the most over the last couple of years, climbing 16 and 19 places respectively. Another big climber is Spain’s FCC – up 14 places.

Note that Wiki-Solar measures capacity in MWac delivered to the grid, including only projects over 4MWac. The installed capacities would be roughly 25% higher if measured by the DC solar array output in MWp. Most, but not all, of the leading O&M contractors – which Wiki-Solar lists separately – are companies in this top constructors table.

T E X T E N D S

Notes for readers:

[1] The lists of top EPC and O&M contractors are available online and the EPC list is also attached on the following page.

[2] SOLV’s position will be further strengthened, when the figures for CS Energy, which it acquired in October, are consolidated in.

[3] 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.

[4] 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. All figures in this release are based on the AC export rating of operational plants. Projects under development are excluded until they have been commissioned.

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Wiki-Solar

Top EPC contractors for utility-scale (4-MWac+) solar projects at Q4-2025

Rank	EPC contractor [a]	[c]	Operating Plants	Operating GWac [b]	Change since 01-Jan-24 Plants	Change since 01-Jan-24 GWac [b]	Change since 01-Jan-24 Rank
1	SOLV Energy [US] (Inc Swinerton Renewable Energy)	Map	227	15.5	25	4.6	1
2	McCarthy Building [US]	Map	88	8.5	16	3.0	3
3	Larsen & Toubro [IN]	Map	61	7.2	6	3.9	2
4	Eiffage Energie Systèmes [FR]	Map	160	6.3	45	1.6	8
5	Equans (division of Bouygues) [FR] (Inc Fabricom)	Map	262	4.5	43	1.4	10
6	Sterling & Wilson Renewable Energy [IN] (part of SP India)	Map	76	4.5	4	1.1	14
7	Belectric [DE] (now part of Elevion)	Map	248	4.4	39	0.9	17
8	First Solar [US]	Map	57	4.3	0	0.0	
9	Mortenson Construction [US]		30	4.0	2	0.6	24
10	China Machinery Engineering Corporation [CN]		7	3.8	3	1.2	13
11	ACME Solar [IN]	Map	50	3.8	2	1.5	9
12	juwi AG [DE] (part of MVV Energie) (Inc JSI Construction)	Map	175	3.7	10	0.6	26
13	Tata Power [IN]	Map	30	3.6	9	1.9	7
14	Cox Energy [ES] (Inc Abengoa, Abener Energia)		40	3.4	4	0.3	36
15	Enerparc [DE]	Map	322	3.3	10	0.2	40
16	Blattner Energy [US]		20	3.1	4	1.3	12
17	China Power Construction [CN]		3	3.0	3	3.0	4
18	Gransolar [ES]		44	3.0	7	1.3	11
19	Vinci Energies [FR] (Inc Semi Group, Omexom and others)		56	2.9	2	0.1	46
20	Mytilineos [GR] (Inc Metka-Egn)	Map	101	2.9	8	0.6	25
21	BayWa r.e. [DE] (Inc GroenLeven)	Map	123	2.8	7	0.4	33
22	PowerChina [CN]		18	2.7	7	0.8	19
23	Goldbeck Solar [DE]	Map	136	2.6	24	0.8	18
24	Mahindra [IN]		43	2.5	0	0.0	
25	Acciona Energía [ES]	Map	30	2.5	4	0.6	29
26	Elecnor [ES]	Map	45	2.4	1	0.0	48
27	Signal Energy [US]		14	2.4	0	0.0	
28	Rosendin Electric [US]		19	2.4	1	0.4	34
29	Elmya [ES]	Map	70	2.4	13	0.6	28
30	China Energy Engineering [CN]		14	2.3	14	2.3	5
31	Greencells [DE]		131	2.1	131	2.1	6
32	Grupotec [ES]	Map	96	1.9	22	0.7	22
33	OHLa (Obrascon Huarte Lain) [ES]		25	1.7	4	0.6	27
34	TSK Group [ES] (Inc TSK Electronica y Electricidad)		22	1.7	2	0.2	37
35	Bechtel [US]		8	1.6	4	0.8	21
36	FCC Industrial [ES] (part of FCC)		12	1.6	4	0.8	20
37	Biosar Energy [GR]		47	1.5	0	0.0	
38	Scatec ASA [NO]	Map	33	1.4	2	0.1	44
fTopPC_5111	Totals listed above:		2,943	134.3	482	40.2	

[a] These top 38 EPC contractors account for 134-GWac, ~13% of the world total.
[b] GWac total for projects over 4MWac; GWp figures typically ~25% higher
[c] Hyperlinks to Wiki-Solar map of company's projects
[d] Wiki-Solar database holds EPC contractors for ~22% of projects so there will be some omissions from this list and figures for others may be understated by a factor of 4.6 on average