

American and Asian EPCs stay on top as solar projects get bigger

US, Chinese and Indian companies continue to dominate the league table of top EPC contractors published today. Wiki-Solar founder Philip Wolfe attributes this partly to the size of projects being installed in their home markets. “China, India and the US now have plants at the gigawatt scale”, he says, referring to massive developments especially in Gujarat, Texas, Rajasthan, and Qinghai. Wiki-Solar analysis shows the average plant size in India is over 80-MW. In the USA the mean size of plants now being installed is 90-MW – up from just 15-MW a decade ago.

The big climbers in the contractors list [see overleaf] have all benefitted from these larger projects, coupled with the high growth in their primary markets [reported recently](#). SOLV retain the top spot, with compatriot McCarthy Building and France’s Eiffage climbing to second and third. Larsen & Toubro rise many places to fourth, while other high climbers are Tata, also from India, China Power Construction and China Machinery Engineering.

The average plant size in Europe is much smaller at under 20-MW. European contractors, led by Eiffage, Belectric, Equans, juwi and Cox Abengoa therefore have to complete more projects to keep up. “Against this background” says Wolfe “it is impressive to see so many European companies in the list, with specialists like Goldbeck, Elmya and Grupotec also keeping pace with the multinationals”.

Together the 34 EPC contractors in this table have installed cumulatively over 100 MWac of utility-scale solar capacity, of which 30% has been commissioned since the start of 2023.

Readers are reminded 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 [page 3] – 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 included on the following pages. These lists are published half-yearly, and this will continue [at least until the end of 2025](#).
- [2] Wiki-Solar defines ‘utility-scale solar’ as 4 MW_{AC} and above ($\approx 5\text{MW}_P$ for PV; \approx 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. 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 Q3-2024

Rank	EPC contractor [a]	[c]	Operating		Change since 01-Jan-23		
			Plants	GWac [b]	Plants	GWac [b]	Rank
1	SOLV Energy [US] (Inc Swinerton Renewable Energy)	Map	217	13.2	26	4.7	1
2	McCarthy Building [US]	Map	75	6.2	11	2.0	4
3	Eiffage Energie Systèmes [FR]	Map	129	5.3	31	1.2	10
4	Larsen & Toubro [IN]	Map	57	4.9	4	2.9	3
5	First Solar [US]	Map	57	4.3	0	0.0	
6	Sterling & Wilson [IN] (part of SP India)	Map	73	4.2	3	0.5	19
7	ACME Solar [IN]	Map	52	3.8	4	1.5	7
8	Belectric [DE] (now part of Elevion)	Map	215	3.7	18	0.4	22
9	Mortenson Construction [US]		29	3.6	3	0.6	18
10	Equans (division of Bouygues) [FR] (Inc Fabricom)	Map	243	3.6	31	0.6	16
11	juwi AG [DE] (Inc JSI Construction)	Map	168	3.1	7	0.4	26
12	Abengoa [ES] (now part of Cox Energy) (Inc Abener Energia)	Map	40	3.1	4	0.3	30
13	Tata Power [IN]	Map	23	3.0	4	1.6	6
14	China Power Construction [CN]		3	3.0	1	2.9	2
15	Vinci Energies [FR] (Inc Semi Group, Omexom and others)		54	2.9	6	0.3	31
16	Enerparc [DE]	Map	273	2.8	8	0.2	36
17	BayWa r.e. [DE] (Inc GroenLeven)	Map	119	2.6	11	0.5	20
18	China Machinery Engineering Corporation [CN]		4	2.6	1	2.0	5
19	Mahindra [IN]		43	2.5	1	0.1	44
20	Elecnor [ES]	Map	45	2.4	5	1.3	9
21	Signal Energy [US]		14	2.4	1	0.3	28
22	Gransolar [ES]		47	2.4	5	1.0	11
23	Rosendin Electric [US]		19	2.4	2	0.9	13
24	Acciona Energía [ES]	Map	28	2.3	5	0.8	14
25	Mytilineos [GR] (Inc Metka-Egn)	Map	93	2.3	7	0.4	23
26	PowerChina [CN]		14	2.1	7	1.4	8
27	Goldbeck Solar [DE]	Map	118	2.1	27	0.7	15
28	Elmya [ES]	Map	61	2.0	6	0.3	32
29	Blattner Energy [US]		17	2.0	2	0.3	34
30	SPIC (State Power Investment) [CN] (Inc Shanghai Electric Power Japan, Shanghai Electric)	Map	4	1.6	0	0.0	
31	TSK Group [ES] (Inc TSK Electronica y Electricidad)		21	1.6	2	0.2	35
32	SENS - Iqony Solar Energy Solutions [DE]	Map	95	1.5	46	1.0	12
33	Grupotec [ES]	Map	83	1.5	13	0.4	25
34	Biosar Energy [GR]		47	1.5	0	0.0	

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Totals listed above:

2,580 108.6

302 31.7

[a] These top 34 EPC contractors account for 109-GWac, ~15% 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 ~26% of projects so there will be some omissions from this list and figures for others may be understated by a factor of 3.9 on average



Wiki-Solar

Top O&M contractors for utility-scale (4-MWac+) solar projects at Q3-2024

Rank	O&M contractor [a]	[c]	Operating		Change since 01-Jan-23			
			Plants	GWac [b]	Plants	GWac [b]	Rank	
1	SOLV Energy [US]	Map	118	11.1	20	4.5	1	
2	First Solar [US]	Map	59	4.6	0	0.0		
3	Eiffage Energie Systèmes [FR]	Map	94	3.8	23	0.8	4	
4	Equans (division of Bouygues) [FR]	Map	221	3.4	26	0.6	7	
5	juwi AG [DE]	Map	156	3.4	8	0.2	22	
6	BayWa r.e. [DE]	Map	114	2.4	9	0.3	19	
7	Enerparc [DE]	Map	234	2.4	1	0.0	33	
8	McCarthy Building [US]	Map	15	2.4	5	0.9	3	
9	Belectric [DE] (now part of Elevion)	Map	133	2.4	4	0.2	25	
10	Elecnor [ES]	Map	35	2.2	4	1.2	2	
11	Cypress Creek Renewables [US] (acquired by EQT Infrastructure [SE])	Map	145	1.8	0	0.0		
12	Canadian Solar [CA] (Inc Recurrent Energy)	Map	26	1.7	2	0.6	6	
13	Metka-Egn [GR] (part owned by Mytilineos with Egnatia Energy)	Map	78	1.6	5	0.3	17	
14	Scatec ASA [NO]	Map	27	1.6	1	0.0	32	
15	SunEdison [US] (in insolvency)	Map	56	1.3	0	0.0		
16	Abengoa [ES] (now part of Cox Energy)	Map	13	1.1	0	0.0		
17	Grupotec [ES]	Map	67	1.1	10	0.2	21	
18	Exus Management Partners [ES]		4	0.9	0	0.0		
19	Sterling & Wilson [IN] (part of SP India)	Map	7	0.8	0	0.0		
20	China Datang Corporation [CN]	Map	11	0.7	3	0.3	12	
21	Larsen & Toubro [IN]	Map	23	0.7	0	0.0		
22	Focus Energia [BR]		1	0.7	1	0.7	5	
23	CGN Solar Energy Development [CN] (part of CGN)	Map	8	0.7	2	0.1	26	
24	China Guodian Corporation [CN]		6	0.6	2	0.3	13	
25	EDF Energies Nouvelles [FR] (part of EDF) (Inc EDF Renewable Energy, groSolar)	Map	36	0.6	0	0.0		
26	Vikram Solar [IN]		7	0.6	0	0.0		
27	TBEA (Tebian Electric Apparatus) [CN] (Inc TBEA SunOasis)		9	0.6	1	0.1	30	
28	ENcome [AT]		19	0.5	0	0.0		
29	IB Vogt Solar [DE]	Map	41	0.5	0	0.0		
30	Origis Energy [US]		1	0.5	1	0.5	8	
fTopPC_5121			Totals listed above:		1,764	56.7	128	11.8

[a] These top 30 O&M contractors account for 57-GWac, ~8% 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 O&M contractors for ~12% of projects so there will be some omissions from this list and figures for others may be understated by a factor of 8.4 on average