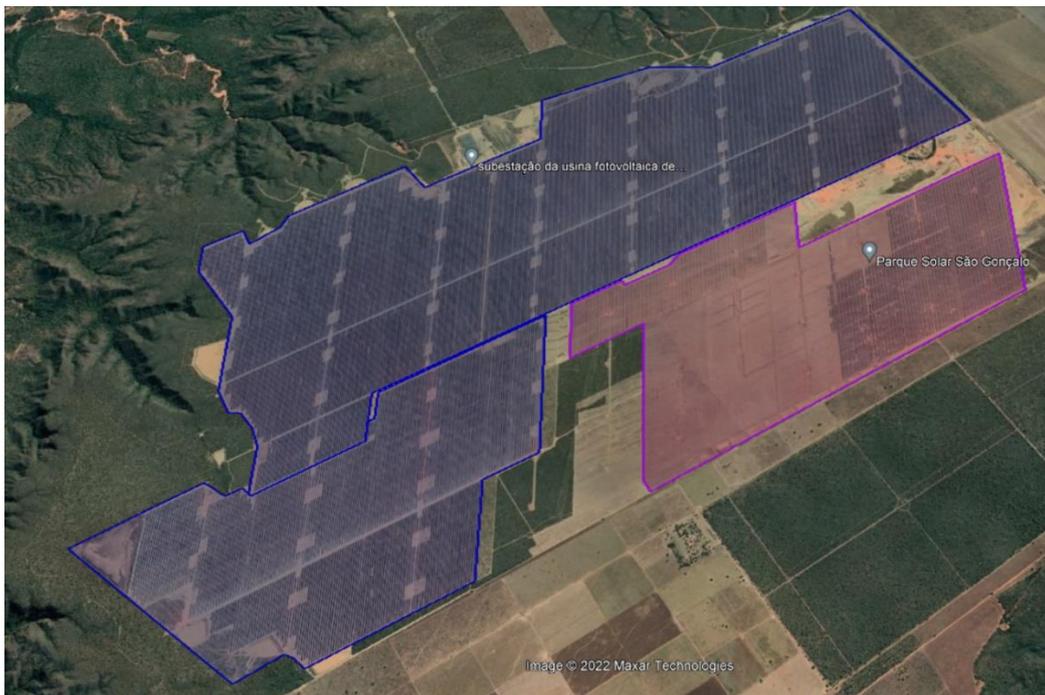


Renewable specialists squeezed as global utilities take solar seriously

Now that the large-scale solar market has [broken through 500 GW_{DC}](#), it is clear that forward-thinking international utilities are firmly on the bandwagon. The league tables of leading owners and developers published today by Wiki-Solar show traditional utilities now occupying most of the top positions. This means that renewables specialists – though still growing rapidly – are being squeezed down the list.

NextEra Energy retains top spot in both owners and developers list thanks partly to a continuing flurry of new 75 MW plants by its subsidiary Florida Power & Light. Italy's ENEL leapfrogs to second place in the owners list with new capacity all over Europe and the Americas.



Phases I to III of ENEL's 765 MW_{AC} São Gonçalo plant in Brazil brought online 2020-22 ^[1]

China's State Power Investment Corporation (SPIC) has traded places with NextEra at #1 and #2 for several years and now slips provisionally to #3 in both lists. US utility AES meanwhile climbs back to owner #4. With Adani [IN], EDF [FR] and Dominion [US] following next, India's Azure Power at owner #8 is the only renewables pure-play in the top 10. It is followed by Duke Energy [US] and then Saudi Arabia's ACWA Power which has risen ten places as it connects more phases of the multi-GW Sheikh Mohammed Bin Rashid Al Maktoum Solar Park (MBR) in the UAE.

"Another company bucking the trend – ACME Solar – climbed ten places to owner #16", says Wiki-Solar founder Philip Wolfe, "as it too benefits from the new plants directly connected to India's interstate power transmission system (ISTS). D E Shaw Renewables (DESRI) of the US is also rising".

Multi-national utilities Iberdrola [ES], NTPC [IN], Engie [FR], BP (through part-owned Lightsource BP) [GB], Shell [NL-GB], Total [FR], and China Three Gorges also feature in the tables. The owners top-list includes a number of investment funds led by Actis, Cubico and Foresight [all GB].



Rank	Plant owner / IPP	Cumulative to date		Change since end 2020		
		Plants	GWac	Plants	GWac	Rank
1	NextEra Energy [US] inc. Florida Power & Light & others	101	6.582	21	1.606	1
2	ENEL [IT] inc. ENEL Green Power, Tradewind & others	56	4.297	8	1.020	10
3	SPIC [CN] inc. Huanghe Hydro, Shanghai Electric & others	75	4.001	1	0.483	19
4	AES Clean Energy [US] inc. Main Street Power, sPower	156	3.766	54	1.499	3
5	Adani Green Energy [IN] inc. SB Energy, Parampujya	41	3.575	6	1.440	4
6	EDF [FR] inc. EDF-EN, EDF Renewable Energy	77	2.999	7	0.884	12
7	Dominion Energy [US]	73	2.731	7	0.538	16
8	Azure Power [IN]	45	2.671	4	1.125	8
9	Duke Energy [US]	72	2.660	12	0.832	14
10	ACWA Power [SA] (49% owned by Silk Road Fund [CN])	14	2.646	1	1.558	2
11	National Thermal Power Corporation [IN]	23	2.511	7	1.403	5
12	D. E. Shaw Renewable Investments [US]	44	2.425	10	1.026	9
13	Iberdrola Renewables [ES] inc. Avangrid Renewables	19	2.414	10	1.343	6
14	Enerparc [DE]	221	2.129	15	0.393	22
15	Global Infrastructure Partners [US] inc. Vena & others	42	2.010	1	0.019	
16	ACME Solar [IN]	34	1.908	5	0.883	13
17	Actis [GB] inc. Sprng Energy, Atlas Renewable Energy	19	1.876	2	0.275	26
18	Engie [FR] inc. SolaireDirect, SoCore Energy & others	55	1.861	7	0.478	20
19	Lightsource BP [GB] (part owned by BP)	160	1.845	4	0.379	23
20	Consolidated Edison Development [US]	31	1.817		0.000	
21	Neoen [FR]	63	1.799	28	0.524	17
22	Trina Solar [CN]	7	1.745	1	0.420	21
23	Southern Power [US]	27	1.648			
24	Capital Dynamics [CH]	17	1.531	7	1.012	11
25	Panda Green Energy [CN] inc. United Photovoltaics	38	1.503	1		
26	Scatec ASA [NO]	31	1.436	7	0.524	18
27	Canadian Solar [CA]	80	1.417	2	0.160	
28	Berkshire Hathaway Energy [US] inc. NV Energy	8	1.416	2	0.350	24
29	Cubico Sustainable Investments [GB]	56	1.410	4	0.220	
30	Cypress Creek Renewables [US] inc. FLS Energy	142	1.331	5	0.291	25
31	Acciona Energía [ES]	20	1.303	1	0.201	
33	JinkoSolar [CN]	13	1.263			
34	Shell [NL] inc. Silicon Ranch	27	1.233	8	0.553	15
35	Foresight Group [GB] inc. ForVEI	110	1.136	7	0.137	
36	China Three Gorges New Energy [CN]	18	1.072		0.000	

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[a] GWac figures are totalled for projects over 4 MWac, so GWp totals are typically 25-50% higher than shown here.
 [b] Wiki-Solar's database holds plant owner / ipp/s for 49.5% of active plants (19.4% by these 36 listed plant owner / i/s) so some participants may not be shown, and for others figures may be understated by a factor of 2 on average.

The world's top utility-scale solar plant owners with over ~1,000 MW_{AC} cumulative capacity

These companies are joined on the developers list (below) by renewables specialists including ReNew Power [IN], BayWa r.e [DE], Scatec [NO], Enerparc [DE], X-Elio [ES], Invenergy [US], FRV [ES], 8minutenergy [US] and Juwi [DE].

Readers are reminded that Wiki-Solar measures capacity in MW_{AC} including only projects over 4MW_{AC}, so the listed PV companies have all installed comfortably over 2 GW_P, measured by the DC solar array output. Wiki-Solar's database includes both PV and solar thermal power plants.

T E X T E N D S

(Developers list overleaf)



Rank	Project developer	Cumulative to date		Change since end 2020		
		Plants	GWac	Plants	GWac	Rank
1	NextEra Energy [US] inc. Florida Power & Light & others	126	8.539	44	3.393	2
2	Adani Green Energy [IN] inc. SB Energy, Parampuja	67	6.622	13	3.469	1
3	SPIC [CN] inc. Huanghe Hydro, Shanghai Electric & others	77	6.329	4	1.015	19
4	Canadian Solar [CA] inc. Recurrent Energy	219	5.725	11	1.328	10
5	First Solar [US] inc. Solar Chile	75	5.658	3	0.300	
6	ENEL [IT] inc. ENEL Green Power, Codensa & others	76	5.248	12	1.080	17
7	Cypress Creek Renewables [US] inc. FLS Energy	334	4.853	125	2.856	3
8	Engie [FR] inc. SolaireDirect, SoCore Energy & others	211	4.131	47	1.231	14
9	ACME Solar [IN]	69	3.515	7	1.282	13
10	SunEdison [US] (in insolvency) inc. Enfinity, First Wind	128	3.072	1	0.055	
11	ACWA Power [SA] (49% owned by Silk Road Fund [CN])	11	3.044	3	2.035	4
12	EDF [FR] inc. EDF Energies Nouvelles, Photon & others	98	3.014	33	0.969	22
13	Iberdrola Renewables [ES] inc. Infigen, Avangrid	34	2.977	15	1.787	7
14	Azure Power [IN]	47	2.928	5	1.425	8
15	Tata Power [IN] inc. Welspun, Northwest Energy & others	46	2.648	10	1.019	18
16	AES Clean Energy [US] inc. Main Street Power, sPower	118	2.640	36	1.013	20
17	Total [FR] inc. Quadran Energie, Total Solar & others	91	2.638	41	1.889	5
18	Shell [NL] inc. Silicon Ranch, Savion & others	56	2.609	18	1.291	12
19	ReNew Power [IN]	23	2.586	8	1.790	6
20	Lightsource BP [GB] (part owned by BP)	120	2.409	21	1.291	11
21	BayWa r.e. [DE] inc. GroenLeven	118	2.367	31	1.168	16
22	Neoen [FR] inc. Eight Rivers Energy	62	2.341	29	0.919	23
23	CGN Solar Energy Development [CN] (part of CGNPG)	25	2.137	1	1.000	21
24	National Thermal Power Corporation [IN]	24	2.065	8	1.175	15
25	JinkoSolar [CN]	22	1.990			
26	Scatec ASA [NO]	34	1.945	8	0.541	25
27	Enerparc [DE] inc. Pays de Montmédy Solaire	211	1.921	49	0.625	24
28	X-Elio [ES] (KKR [US] & Brookfield [CA]) inc. Gestamp	61	1.905	8	0.437	27
29	GCL-Poly Energy Holdings [HK]	36	1.815	4	0.115	
30	Trina Solar [CN] inc. Sun and Soil	20	1.802	2	0.145	
31	Invenergy Services [US]	19	1.779	9	1.338	9
33	FRV [NL] (now part of ALJ) inc. MMA Renewable Ventures	31	1.627	3	0.531	26
34	China Three Gorges New Energy [CN]	18	1.624		0.000	
35	8minutenergy [US]	13	1.615	1	0.245	
36	juwi AG [DE]	87	1.552	8	0.084	

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[a] GWac figures are totalled for projects over 4 MWac, so GWp totals are typically 25-50% higher than shown here.
 [b] Wiki-Solar's database holds project developers for 72.1% of active plants (27.3% by these 36 listed project developers), so some participants may not be shown, and for others figures may be understated by a factor of 1.4 on average.

The world's top utility-scale solar project developers with over ~1,500 MWAC cumulative capacity

Notes for editors:

- [1] Image courtesy of Google, Maxar Technologies, Copernicus/Landsat and Wiki-Solar
- [2] This release on the utility-scale solar market is available here:
http://wiki-solar.org/library/public/2211_Utilities_taking_solar_seriously_-_Leading_owners_and_developers.pdf
- [3] The top-lists, with further details of the role of the project developers is shown on Wiki-Solar's website [here](#); and equivalent details for owners are given [here](#).
- [4] 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>.
- [5] Wiki-Solar is the leading authority on utility-scale solar with a database covering over 19,000 utility-scale solar projects, of which about three-quarters are operational. Except where stated, 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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