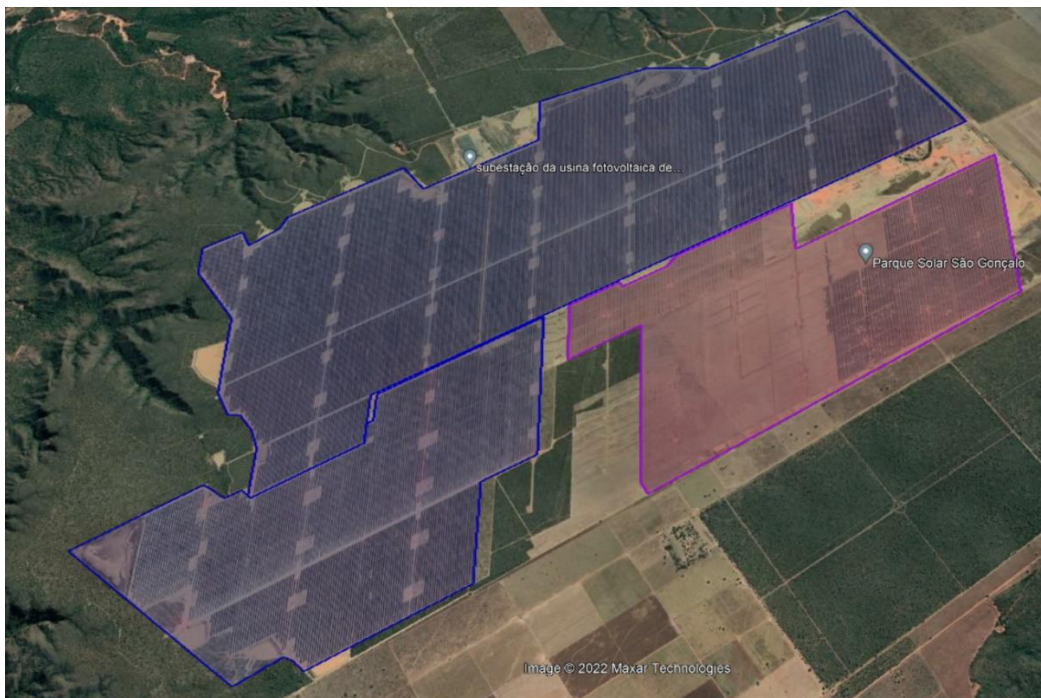


Renewable specialists squeezed as global utilities take solar seriously

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].



Continued/-

| 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.

TEXT ENDS

(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 (≈5MW_P for PV; ≈ 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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