



CONSTITUENT OVERVIEW

The **ISE Clean Edge Global Wind Energy Index (GWE)** is a float-adjusted modified market capitalization-weighted index designed to track the performance of companies that are engaged and involved in the wind energy industry based on analysis of the products and services offered by those companies (including both pure play companies focused on the wind energy sector and diversified multinationals with wind energy sector exposure).

| COMPANY | STOCK TICKER | PP / NPP* | AT A GLANCE |
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| ABB Ltd. | ABBN (Swiss) | NPP | Diversified with considerable wind exposure across the value chain, including turbine parts, grid connectors, converters, transmission, and digitization |
| Acciona S.A. | ANA (Madrid) | NPP | Top 25 wind producer with more than 8.3 GW installed |
| AGL Energy Ltd. | AGL (Australian) | NPP | Operator of Australia's largest electricity generation portfolio, and the largest listed Australian investor in renewable energy (RE) including wind |
| Alliant Energy Corp. | LNT | NPP | One of the largest utility owner-operators of regulated wind in the U.S. |
| American Superconductor Corp. | AMSC | NPP | Wind turbine design, electronic controls and systems, and engineering services |
| Arcosa, Inc. | ACA | NPP | Maker of wind and transmission and distribution (T&D) towers |
| Arise AB | ARISE (Stockholm) | PP | Swedish onshore wind developer |
| BKW AG | BKW (Swiss) | NPP | Swiss-based European energy operator (hydroelectric and nuclear) with growing sales of wind and services to municipalities and other Swiss and EU customers |
| Boralex, Inc. | BLX (Toronto) | PP | Canadian RE developer with wind projects in Canada, France, and the U.K. |
| Broadwind, Inc. | BWEN | PP | Wind tower fabrication |

*Denotes pure play vs. non pure play or diversified

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| China Datang Corp. Renewable Power Co. Ltd. | 1798 (Hong Kong) | PP | Power producer with about 90% from wind |
| China High Speed Transmission Equipment Group Co. Ltd. | 658 (Hong Kong) | PP | Largest wind gear transmission manufacturer in China |
| China Longyuan Power Group Corp. Ltd. | 916 (Hong Kong) | PP | A Top 25 wind producer; wind accounts for approximately 70% of power assets |
| China Suntien Green Energy Corp., Ltd. | 956 (Hong Kong) | NPP | Diversified power producer with about 33% of generation from wind |
| Concord New Energy Group Ltd. | 182 (Hong Kong) | PP | Power producer with about 80% from wind |
| CS Wind Corp. | 112610 (Korea) | PP | Primary focus is towers for offshore and onshore wind farms |
| Dongkuk Structures & Construction Co., Ltd. | 100130 (Korea) | NPP | Diversified steel construction firm with growing wind tower and offshore wind platform operations |
| Duke Energy Corp. | DUK | NPP | Top 25 global wind operator with more than 3,400 MW in the U.S. Duke Energy Renewables division is focused on wind and solar development |
| EDP – Energias de Portugal S.A. | EDP | NPP | Vertically integrated utility with electric generation and T&D. Leading wind producer with 20 GW of renewable installed capacity |
| Endesa S.A. | ELE (Madrid) | NPP | Largest Spanish utility operator that manages more than 7,800 MW of renewables capacity domestically (70% of its total capacity). 2,362 MW is wind power |
| Enel S.p.A. | ENEL (Milan) | NPP | Italy-based, global power provider is a Top 25 wind producer with 13,440 MW on four continents |
| Energiekontor AG | EKT (Xetra) | PP | A leading German wind developer and operator |
| ENGIE S.A. | ENGI (Paris) | NPP | Leading wind producer in France and in the Top 25 globally |
| Eolus Vind AB | EOLU B (Stockholm) | PP | Sweden-based wind power developer in the Nordics, Baltics, and U.S. |
| Falck Renewables S.p.A. | FKR (Milan) | PP | Italy-based developer and owner of renewable energy assets (wind, solar, biomass, and waste-to-energy) in six European Union countries; 959 MW of wind capacity |
| General Electric Co. | GE | NPP | Currently the world's largest supplier of wind turbines, overtaking Vestas in 2020 |
| Gurit Holding AG | GUR (Swiss) | PP | Swiss maker of composites, two-thirds of its business is now in the wind industry |

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| Hexcel Corp. | HXL | NPP | Composites for wind turbine blades including glass, carbon and other fibers and specialized coatings |
| Iberdrola S.A. | IBE (Madrid) | NPP | Highly diversified global company with assets in renewables, conventional energy, and T&D. Onshore and offshore wind represents about 50% of its renewables portfolio. Top 15 wind operator |
| Innergex Renewable Energy, Inc. | INE (Toronto) | PP | Canadian renewables developer, with wind representing more than 50% |
| Neoen S.A. | NEOEN (Paris) | NPP | France-based wind, solar, and storage developer and owner |
| NextEra Energy, Inc. | NEE | NPP | Major energy and utility-holding company, with largest wind operation in North America. Top 25 wind operator worldwide |
| Nordex SE | NDX1 (Xetra) | PP | Top 10 manufacturer of wind turbines |
| Northland Power, Inc. | NPI (Toronto) | PP | Canadian independent power producer with onshore and offshore wind projects in Canada and Europe |
| Ørsted A/S | ORSTED (Copenhagen) | PP | Global leader in offshore wind. One of the first conventional energy players to transition to renewables, with clean energy representing about 70% of revenue, and offshore wind representing 57% in 2020 |
| PNE AG | PNE3 (Xetra) | PP | German wind power pioneer, with wind historically making up 90% of revenue |
| Prysmian S.p.A. | PRY (Milan) | NPP | World's largest cable manufacturer, including wind-specific cables; undersea cabling business riding growth of offshore wind |
| RWE AG | RWE (Xetra) | NPP | 2020 acquisition of E.ON Climate & Renewables made Germany-based RWE one of the largest wind players in Europe. Top 25 operator with growing footprint in offshore wind |
| SGL Carbon SE | SGL (Xetra) | NPP | Carbon fibers and materials, increasingly supplying wind industry |
| Siemens Energy AG | ENR (Xetra) | NPP | RE mostly generated from wind (from subsidiary Siemens Gamesa Renewable Energy S.A.) provided 34.4% of company revenue in 2020 |
| Siemens Gamesa Renewable Energy S.A. | SGRE (Madrid) | PP | Major global wind turbine supplier, with operations in offshore, onshore, and services |
| SIF Holding N.V. | SIFG (Amsterdam) | PP | Netherlands-based manufacturer of offshore foundations for wind turbines and oil and gas platforms |
| SKF AB | SKF B (Stockholm) | NPP | Designs and develops bearings, seals, condition monitoring systems, and lubrication systems for wind turbines |
| SSE Plc | SSE (London) | NPP | Leader in the development of offshore wind power in Ireland and in the U.K. |

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| Terna Energy S.A. | TENERGY (Athens) | PP | Greece-based renewable energy company with wind farms in Greece, and Southeastern and Central Europe. 1,300 MW in operation, 5,000 MW in pipeline |
| Toray Industries, Inc. | 3402 (Tokyo) | NPP | Global leader in carbon fibers, with multiple carbon fiber offerings for wind blades |
| TPI Composites, Inc. | TPIC | PP | Composite materials for turbine blades. Company has entered the market for advanced materials for electric vehicles (EV), but turbine blades are still majority of business |
| TransAlta Renewables, Inc. | RNW (Toronto) | PP | Canadian renewable energy provider with wind representing more than 50% of generation assets. Majority of near-to-mid-term business pipeline from wind projects |
| Unison Co., Ltd. | 018000 (Korea) | PP | Wind turbine production and wind farm development |
| Vestas Wind Systems A/S | VWS (Copenhagen) | PP | Perennial world leader in wind turbine sales, dropped to No. 3 in 2020 behind GE and Goldwind |
| Xinjiang Goldwind Science & Technology Co., Ltd. | 2208 (Hong Kong) | PP | No. 2 global wind turbine seller in 2020 |

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