



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
Acciona S.A.	ANA (Madrid)	NPP	Top 25 wind producer with more than 8.3 GW installed
Aeris Indústria e Comércio de Equipamentos para Geração de Energia S.A.	AER13 (São Paulo)	PP	Wind turbine blade manufacturing, repair, and maintenance
Aker Horizons ASA	AKH (Oslo)	PP	Holding company focused on renewable energy (wind, solar, and hydrogen) and carbon capture
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
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.
Cadeler A/S	CADLR (Oslo)	PP	Marine-vessel operator within the offshore wind industry for installation, operation, and maintenance work
Century Iron & Steel Industrial Co., Ltd.	9958 (Taiwan)	PP	Steel structures for wind energy production

*Denotes pure play vs. non pure play or diversified

Last updated September 18, 2023

China Datang Corp. Renewable Power Co. Ltd.	1798 (Hong Kong)	PP	Renewable energy generator with majority from wind
China High Speed Transmission Equipment Group Co. Ltd.	658 (Hong Kong)	PP	Mechanical transmission equipment manufacturer specializing in gearboxes for the wind power sector
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
Clearway Energy, Inc.	CWEN	NPP	Owner/operator of utility-scale wind/solar and distributed solar projects in U.S.
Concord New Energy Group Ltd.	182 (Hong Kong)	PP	Power producer with about 80% from wind
CS Bearing Co. Ltd.	297090 (Korea)	PP	South Korea-based manufacturer of wind power bearings
CS Wind Corp.	112610 (Korea)	PP	Primary focus is towers for offshore and onshore wind farms
Dongkuk Structures & Construction Co., Ltd.	100130 (Korea)	NPP	Korean diversified steel construction firm with strong steel wind tower and offshore wind platform operations
EDP Renováveis S.A.	EDPR (Lisbon)	PP	Renewables development arm of EDP with a majority wind assets
EDP – Energias de Portugal S.A.	EDP (Lisbon)	NPP	Vertically integrated utility with electric generation and T&D. Leading wind producer with 20 GW of renewable installed capacity
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
Eneti Inc.	NETI	PP	Operator of offshore wind turbine installation vessels
ENGIE S.A.	ENGI (Paris)	NPP	Leading wind producer in France and in the Top 25 globally
ERG S.p.A.	ERG (Milan)	PP	Italy-based renewable power producer with a wind-dominated production portfolio
General Electric Co.	GE	NPP	Top 5 global manufacturer of wind turbines

Goldwind Science & Technology Co., Ltd.	2208 (Hong Kong)	PP	Top 5 global manufacturer of wind turbines
Gurit Holding AG	GURN (Swiss)	PP	Materials for wind turbine blades
Hexcel Corp.	HXL	NPP	Composites for wind turbine blades including glass, carbon and other fibers and specialized coatings
Hitachi, Ltd.	6501 (Tokyo)	NPP	Significant player in wind integration, especially for offshore installations
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
Innervex 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
Omega Energia S.A.	MEGA3 (São Paulo)	PP	Brazil-based renewable energy producer with a wind-dominated generation portfolio
Orrön Energy AB	ORRON (Stockholm)	PP	Renewable energy developer and operator with a focus on wind and hydroelectric generation in the Nordics
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
Owens Corning	OC	NPP	Diversified composite manufacturer with sectoral leadership in wind turbine fiberglass composites
OX2 AB	OX2 (Stockholm)	PP	Wind developer and operator with farms in Finland, Poland and Sweden
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
ReNew Energy Global Plc	RNW	PP	Builder and operator of wind and solar generating facilities in India
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% of company revenue in 2022
SKF AB	SKF B (Stockholm)	NPP	Designs and develops bearings, seals, condition monitoring systems, and lubrication systems for wind turbines
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
The Timken Co.	TKR	NPP	Engaged in the engineering, manufacturing, and marketing of bearings and industrial motion products, including for the wind sector
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
Unison Co., Ltd.	018000 (Korea)	PP	Wind turbine production and wind farm development
Vestas Wind Systems A/S	VWS (Copenhagen)	PP	Top 5 global manufacturer of wind turbines

The information contained above is provided for informational and educational purposes only, and nothing contained herein should be construed as investment advice, either on behalf of a particular financial product or an overall investment strategy. Neither Clean Edge, Inc., nor Nasdaq, Inc. or any of its affiliates, makes any recommendation to buy or sell any financial product or any representation about the financial condition of any company or fund. Statements regarding Clean Edge's and Nasdaq's proprietary indexes are not guarantees of future performance. Actual results may differ materially from those expressed or implied. Past performance is not indicative of future results. Investors should undertake their own due diligence and carefully evaluate companies before investing. ADVICE FROM A SECURITIES PROFESSIONAL IS STRONGLY ADVISED.