



## Constituents Overview Sheet

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	SECTOR	AT A GLANCE
Acciona S.A.	ANA (Madrid)	Developers & Operators (D&O)	Top 25 wind producer with more than 8.3 GW installed
Alliant Energy Corp.	LNT	D&O	One of the largest utility owner-operators of regulated wind in the U.S.
American Superconductor Corp.	AMSC	Services, Parts & Materials (SP&M)	Wind turbine design, electronic controls and systems, and engineering services
Arcosa, Inc.	ACA	Wind Turbines & Towers (WT&T)	Maker of wind and transmission and distribution (T&D) towers
BKW AG	BKW (Swiss)	D&O	Swiss-based European energy operator (hydroelectric and nuclear) with growing sales of wind and services to municipalities and other Swiss and EU customers
Bonheur ASA	BONHR (Oslo)	SP&M	Operator of offshore wind turbine installation vessels
Boralex, Inc.	BLX (Toronto)	D&O	Canadian RE developer with wind projects in Canada, France, and the U.K.
Cadeler A/S	CADLR (Oslo)	SP&M	Marine-vessel operator within the offshore wind industry for installation, operation, and maintenance work
Century Iron & Steel Industrial Co., Ltd.	9958 (Taiwan)	WT&T	Steel structures for wind energy production

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China Datang Corp. Renewable Power Co. Ltd.	1798 (Hong Kong)	D&O	Renewable energy generator with majority from wind
China Longyuan Power Group Corp. Ltd.	916 (Hong Kong)	D&O	A Top 25 wind producer; wind accounts for approximately 70% of power assets
China Suntien Green Energy Corp., Ltd.	956 (Hong Kong)	D&O	Diversified power producer with about 33% of generation from wind
Clearway Energy, Inc.	CWEN	D&O	Owner/operator of utility-scale wind/solar and distributed solar projects in U.S.
Concord New Energy Group Ltd.	182 (Hong Kong)	D&O	Power producer with about 80% from wind
CS Bearing Co. Ltd.	297090 (Korea)	SP&M	South Korea-based manufacturer of wind power bearings
CS Wind Corp.	112610 (Korea)	WT&T + SP&M	Primary focus is towers for offshore and onshore wind farms
Dongkuk Structures & Construction Co., Ltd.	100130 (Korea)	SP&M	Korean diversified steel construction firm with strong steel wind tower and offshore wind platform operations
EDP Renováveis S.A.	EDPR (Lisbon)	D&O	Renewables development arm of EDP with a majority wind assets
Enel S.p.A.	ENEL (Milan)	D&O	Italy-based, global power provider is a Top 25 wind producer with 13,440 MW on four continents
Energiekontor AG	EKT (Xetra)	D&O	A leading German wind developer and operator
Energix-Renewable Energies Ltd.	ENRG (Tel Aviv)	D&O	Developer and operator of renewable energy projects in Israel, Poland, and the United States
ENGIE S.A.	ENGI (Paris)	D&O	Leading wind producer in France and in the Top 25 globally
Enlight Renewable Energy Ltd.	ENLT (Tel Aviv)	D&O	Israel-based independent power producer with significant wind generation in Europe and Israel
ERG S.p.A.	ERG (Milan)	D&O	Italy-based renewable power producer with a wind-dominated production portfolio
Fugro N.V.	FUR (Amsterdam)	SP&M	Geotechnical engineer with significant activity in wind power development
Galata Wind Enerji A.S.	GWIND.E (Istanbul)	D&O	Turkey-based independent power producer with significant wind generation
GE Vernova, Inc.	GEV	WT&T	Top 5 global manufacturer of wind turbines
Goldwind Science & Technology Co., Ltd.	2208 (Hong Kong)	WT&T	Top 5 global manufacturer of wind turbines
Hexcel Corp.	HXL	SP&M	Composites for wind turbine blades including glass, carbon and other fibers and specialized coatings
Hitachi, Ltd.	6501 (Tokyo)	SP&M	Significant player in wind integration, especially for offshore installations
Iberdrola S.A.	IBE (Madrid)	D&O	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)	D&O	Canadian renewables developer, with wind representing more than 50%
Neoen S.A.	NEOEN (Paris)	D&O	France-based wind, solar, and storage developer and owner
NextEra Energy, Inc.	NEE	D&O	Major energy and utility-holding company, with largest wind operation in North America. Top 25 wind operator worldwide

Nordex SE	NDX1 (Xetra)	WT&T	Top 10 manufacturer of wind turbines
Northland Power, Inc.	NPI (Toronto)	D&O	Canadian independent power producer with onshore and offshore wind projects in Canada and Europe
Orrön Energy AB	ORRON (Stockholm)	D&O	Renewable energy developer and operator with a focus on wind and hydroelectric generation in the Nordics
Ørsted A/S	ORSTED (Copenhagen)	D&O	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	SP&M	Diversified composite manufacturer with sectoral leadership in wind turbine fiberglass composites
PNE AG	PNE3 (Xetra)	D&O	German wind power pioneer, with wind historically making up 90% of revenue
Prysmian S.p.A.	PRY (Milan)	SP&M	World's largest cable manufacturer, including wind-specific cables; undersea cabling business riding growth of offshore wind
ReNew Energy Global Plc	RNW	D&O	Builder and operator of wind and solar generating facilities in India
RWE AG	RWE (Xetra)	D&O	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
Serena Energia S.A.	SRNA3 (São Paulo)	D&O	Brazil-based renewable energy producer with a wind-dominated generation portfolio
SGL Carbon SE	SGL (Xetra)	SP&M	Carbon fibers and materials, increasingly supplying wind industry
Siemens Energy AG	ENR (Xetra)	WT&T	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)	SP&M	Designs and develops bearings, seals, condition monitoring systems, and lubrication systems for wind turbines
Terna Energy S.A.	TENERGY (Athens)	D&O	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	SP&M	Engaged in the engineering, manufacturing, and marketing of bearings and industrial motion products, including for the wind sector
Toray Industries, Inc.	3402 (Tokyo)	SP&M	Global leader in carbon fibers, with multiple carbon fiber offerings for wind blades
TPI Composites, Inc.	TPIC	SP&M	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
Vestas Wind Systems A/S	VWS (Copenhagen)	WT&T	Top 5 global manufacturer of wind turbines

COMPANY	STOCK TICKER	SECTOR
ABB Ltd.	ABBN (Swiss)	Grid Infrastructure (Electric Meters, Dev Networks) ( <b>EMD&amp;N</b> )

Advanced Energy Industries, Inc.	AEIS	Energy Storage & C ( <b>ES&amp;C</b> )
Advantech Co., Ltd.	2395 (Taiwan)	Enabling Software (E EMD&N
AES Corp.	AES	ES&C + GI
Alfen N.V.	ALFEN (Amsterdam)	EMD&N + GI
Allis Electric Co., Ltd.	1514 (Taiwan)	GI
Alupar Investimento S.A.	ALUP11 (São Paulo)	GI
American Superconductor Corp.	AMSC	GI
Analog Devices, Inc.	ADI	ES&C
Aptiv Plc	APTIV	EMD&N
Arcosa, Inc.	ACA	GI
Atkore, Inc.	ATKR	GI
AZZ Inc.	AZZ	GI
Belden, Inc.	BDC	GI

BYD Co. Ltd.	1211 (Hong Kong)	ES&C
Centrais Elétricas Brasileiras S.A.	EBR	GI
Chung-Hsin Electric & Machinery Mfg. Corp.	1513 (Taiwan)	GI
Cisco Systems, Inc.	CSCO	ES
Companhia de Transmissão de Energia Elétrica Paulista S.A. (CTEEP)	TRPL4 (São Paulo)	GI
Companhia Paranaense de Energia S.A. (COPEL)	CPLE6 (São Paulo)	GI
Daihen Corporation	6622 (Tokyo)	GI
Digi International, Inc.	DGII	EMD&N + ES
E.ON SE	EOAN (Xetra)	GI + EMD&N
Eaton Corp. Plc	ETN	ES
EDP-Energias de Portugal S.A.	EDP (Lisbon)	GI
Elia Group S.A.	ELI (Brussels)	GI
Emerson Electric Co.	EMR	ES

Enel S.p.A.	ENEL (Milan)	GI + EMD&N
EnerSys	ENS	ES&C
ENGIE S.A.	ENGI (Paris)	GI + ES&C
Enphase Energy, Inc.	ENPH	ES&C
Equatorial Energia S.A.	EQTL3 (São Paulo)	GI
ESCO Technologies, Inc.	ESE	EMD&N
Fluence Energy, Inc.	FLNC	ES&C
Fortis, Inc.	FTS (Toronto)	GI
Fortune Electric Co., Ltd.	1519 (Taiwan)	GI
Generac Holdings, Inc.	GNRC	ES&C
GE Vernova, Inc.	GEV	EMD&N
Grupo Energisa S.A.	ENGI11 (São Paulo)	GI
GS Yuasa Corp.	6674 (Tokyo)	ES&C
Hammond Power Solutions, Inc.	HPS.A (Toronto)	GI

HD Hyundai Electric	267260 (Korea)	GI
Hitachi Ltd.	6501 (Tokyo)	EMD&N + GI
Honeywell International, Inc.	HON	EMD&N + GI
Hubbell, Inc.	HUBB	GI
Hydro One Ltd.	H (Toronto)	GI
Hyosung Heavy Industries Corp.	298040 (Korea)	GI
Iberdrola S.A.	IBE (Madrid)	GI
Iljin Electric Co., Ltd.	103590 (Korea)	GI
Infineon Technologies AG	IFX (Xetra)	EMD&N
International Business Machines Corp.	IBM	ES
Itron, Inc.	ITRI	EMD&N + ES
Johnson Controls International Plc	JCI	EMD&N + ES
Landis+Gyr Group AG	LAND (Swiss)	EMD&N + ES
Littelfuse, Inc.	LFUS	GI
LS Electric Co., Ltd.	010120 (Korea)	GI
MasTec, Inc.	MTZ	GI
Meidensha Corp.	6508 (Tokyo)	GI + EMD&N

MYR Group, Inc.	MYRG	GI
National Grid Plc	NG. (London)	GI
Nexans S.A.	NEX (Paris)	GI
NGK Insulators, Ltd.	5333 (Tokyo)	GI
NKT A/S	NKT (Copenhagen)	GI
nVent Electric Plc	NVT	GI + ES&C
NVIDIA Corp.	NVDA	EMD&N
NXP Semiconductors N.V.	NXPI	EMD&N
Oracle Corp.	ORCL	ES
Osaki Electric Co., Ltd.	6644 (Tokyo)	EMD&N
Panasonic Corp.	6752 (Tokyo)	ES&C
Preformed Line Products Co.	PLPC	GI
Prysmian S.p.A.	PRY (Milan)	GI
QUALCOMM, Inc.	QCOM	EMD&N
Quanta Services, Inc.	PWR	GI
Redeia Corporación S.A.	RED (Madrid)	GI
Redes Energéticas Nacionais, SGPS, S.A.	RENE (Lisbon)	GI
Renesas Electronics Corp.	6723 (Tokyo)	EMD&N



Samsung SDI Co., Ltd.	006400 (Korea)	ES&C
Schneider Electric SE	SU (Paris)	EMD&N + ES
Shihlin Electric & Engineering Corp.	1503 (Taiwan)	GI
Siemens AG	SIE (Xetra)	GI + EMD&N
SMA Solar Technology AG	S92 (Xetra)	ES&C
SolarEdge Technologies, Inc.	SEDG	ES&C
SPIE S.A.	SPIE (Paris)	GI
SSE Plc	SSE (London)	GI
Stella-Jones, Inc.	SJ (Toronto)	GI
STMicroelectronics N.V.	STM	EMD&N
Sumitomo Electric Industries, Ltd.	5802 (Tokyo)	GI
Ta Ya Electric Wire & Cable Co., Ltd.	1609 (Taiwan)	GI
Taihan Electric Wire Co., Ltd.	001440 (Korea)	GI
Takaoka Toko Co., Ltd.	6617 (Tokyo)	EMD&N
TERNA S.p.A.	TRN (Milan)	GI

Tesla, Inc.	TSLA	ES&C
Texas Instruments Inc.	TXN	EMD&N
Transmissora Aliança de Energia Elétrica S.A. (TAESA)	TAE11 (São Paulo)	GI
Trimble, Inc.	TRMB	ES
Valmont Industries, Inc.	VMI	GI
Verbund AG	VER (Vienna)	GI
Voltronic Power Technology Corp.	6409 (Taiwan)	ES&C
Wasion Holdings Ltd.	3393 (Hong Kong)	EMD&N
WEG S.A.	WEGE3 (São Paulo)	GI
WESCO International, Inc.	WCC	EMD&N + GI
Willdan Group, Inc.	WLDN	ES

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