

**NEX Index Components to start Q4 2022. 130 stocks.**

<u>Name</u>	<u>Description</u>	<u>Sector</u>	<u>Currency</u>	<u>Activity</u>
Abalance Corp	Solar, new hydrogen & fuel cells, energy storage.	ROH	JPY	JAPAN
Acciona SA	Sustainable infrastructure, separate renewables.	RWD	EUR	SPAIN
Aker Horizons	Offshore / onshore wind, solar, clean hydrogen, grid.	RWD	NOK	NORWAY
Alfen NV	Electric Vehicle charging, smart grid, energy storage.	EEF	EUR	NETHERLA.
Altus Power	Large-scale, rooftop & community solar, EV charging.	RSR	USD	US
Ameresco	Energy savings, performance contracts, renewables.	EEF	USD	US
Archer Aviation	Electric aircraft, eVTOL vertical takeoff and landing.	EEF	USD	US
Arcosa	Wind tower structures, grid power and infrastructure.	RWD	USD	US
Array Technologies	Solar, ground-mounted axis sun trackers.	RSR	USD	US
Ballard Power Systems	Fuel cells, PEMs used in transportation and more.	ECV	CAD	CANADA
Bloom Energy	Stationary fuel cells, distributed but non-renewable.	ECV	USD	US
Boralex	Renewables generation, operates wind, hydro, solar.	RWD	CAD	CANADA
Brookfield Renewable Corp	Hydropower, wind, solar, energy storage, H2.	ROH	USD	US
Bumhan Fuel Cell	Fuel cell manufacture, H2 in excavators, ships, subs.	ECV	KRW	S. KOREA
BYD Co.	Electric vehicles, batteries, rail, and more.	ENS	HKD	CHINA
Canadian Solar	Solar, vertically integrated solar manufacturer, China.	RSR	USD	CANADA
Canoo	Electric delivery vehicles, configurable, multipurpose.	EEF	USD	US
Ceres Power	Fuel cells, high temperature steel units.	ECV	GBP	UK
Chargepoint	EV charging, an early leader with global presence.	EEF	USD	US
China Datang Renewable	Wind, among largest listed wind operators in China.	RWD	HKD	CHINA
Corporacion Acciona Ener.	Renewables, one of world's biggest: wind, solar etc.	RWD	EUR	SPAIN
CropEnergies AG	Bioethanol, from cereals and sugarbeet, Germany.	RBB	EUR	GERMANY
CS Wind	Wind power, both onshore, and also offshore.	RWD	KRW	S. KOREA
Dae Myoung Energy	Wind energy, solar, energy storage, EPC, O&M.	ROH	KRW	S. KOREA
Dongkuk Structires	Wind towers, growing wind energy emphasis.	RWD	KRW	S. KOREA
Doosan Fuel Cell	Fuel cells, high temperature and hydrogen, S. Korea.	ECV	KRW	S. KOREA
Ecopro BM	Battery materials, cathode and precursor for Li-ion.	ENS	KRW	S. KOREA
EDP Renovaveis SA	Wind power, among largest producers in world, Iberia.	RWD	EUR	SPAIN
Elia Group SA	Smarter grid, high voltage transmission Europe.	EEF	EUR	EUROPE
Encavis AG	Solar, large solar park operator, also wind, Germany.	RSR	EUR	GERMANY
Energiekontor AG	Wind farms, also solar parks in Germany.	RWD	EUR	GERMANY
Energix Renewable Ener.	Wind & solar, producer in Israel, Poland, US, elsewhere	RWD	ILS	ISRAEL
Enlight Renewable	Solar & wind power, energy storage infrastructure.	RSR	ILS	ISRAEL
Enphase	Inverters, micro-products for solar panels, storage.	RSR	USD	US
EVgo	EV charging, an early leader in fast charging.	EEF	USD	US
First Solar	Thin film solar, CdTe low-cost alternate to polysilicon.	RSR	USD	US
Fisker	Electric cars, electric SUVs, with contract manufacturer.	ENS	USD	US
Flat Glass Group	PV panel glass, solar plants engineering & construction	RSR	HKD	CHINA

Freyr Battery SA	Batteries, decarbonization includes cell manufacturing.	ENS	USD	NORWAY
FTC Solar	Solar, ground mounted trackers; also PV software.	RSR	USD	US
FuelCell Energy	Fuel cells, high temperature and hydrogen.	ECV	USD	US
Fugro NV	Geo-data, subsea offshore wind construction, cables.	ROH	EUR	NETHERLA.
Ganfeng Lithium	Lithium, production of compounds, metals, for batteries.	ENS	HKD	CHINA
Gevo	Biofuels, lower carbon liquid fuels, renewable sources.	RBB	USD	US
Grenergy Renovables SA	Solar projects, and wind, batteries, Spain, Latin America.	RSR	EUR	SPAIN
GS Yuasa	Battery technologies, also lithium for EVs, Japan.	ENS	JPY	JAPAN
Hannon Armstrong	Energy efficiency, capital & finance for infrastructure.	EEF	USD	US
Hyundai Energy Solutions	Solar, commercial, residential, floating panels, EPC.	RSR	KRW	S. KOREA
Iljin Hysolus	Hydrogen tanks, for fuel cell cars, trucks, ships, planes.	ENS	KRW	S. KOREA
Iljin Materials	Rechargeable battery materials, elecfoils in batteries.	ENS	KRW	S. KOREA
Innergex Renewable	Renewable power, run-of-river hydro, wind, solar.	ROH	CAD	CANADA
ITM Power plc	Fuel cells, uses PEM technology; also hydrogen.	ECV	GBP	UK
Itron	Meters, Utility energy monitor, measuring & manage.	EEF	USD	US
JinkoSolar	Solar, wafers through solar modules, China OEM.	RSR	USD	CHINA
JL Mag Rare-Earth	Rare Earths, magnets in EVs; wind turbines; Nd-Fe-B.	ECV	HKD	CHINA
Joby Aviation	Electric Aircraft, more efficient transportation.	EEF	USD	US
Kingspan Group plc	Efficient Buildings, insulation for conservation, Ireland.	EEF	EUR	IRELAND
L&F Co.	Cathode active materials, closing battery loops.	ENS	KRW	S. KOREA
Landis+Gyr Group AG	Advanced meters, modernizing grid, Switzerland.	EEF	CHF	SWITZERLAND
LG Energy Solutions	Li-ion battery leader, in grid, EVs, transport etc.	ENS	KRW	S. KOREA
Li-Cycle	Recycling lithium-ion batteries, recover raw material.	ENS	USD	US
Lithium Americas	Lithium, projects in Nevada USA, and in Argentina.	ENS	USD	US
Livent	Lithium, production of compounds, batteries.	ENS	USD	US
Lordstown Motors	Electric Vehicles, pickup trucks, telematics.	ENS	USD	US
Lucid	Electric Vehicles, premium, higher-voltage, range.	EEF	USD	US
Maxeon Solar	Solar panel manufacturer, a spinoff from Sunpower.	RSR	USD	US
McPhy Energy	Hydrogen, electrolyzers using water, H2 storage.	ECV	EUR	FRANCE
Mercury NZ	Clean power, 100% renewable hydro, geothermal.	ROH	NZD	NEW ZEALAND
Motech	Solar, cells and modules manufacturing.	RSR	TWD	TAIWAN
MP Materials	Rare Earths, US sourced strategic Neodymium, NdPr.	ECV	USD	US
Navitas Semiconductor	Gallium Nitride GaN, for grid, fast charging EVs, more.	ECV	USD	US
Nel ASA	Hydrogen, in fuel cell vehicles, renewably, Norway.	ECV	NOK	NORWAY
Neoen SA	Renewable energy, mainly in solar, some wind.	RSR	EUR	FRANCE
Nexans SA	Cables, for grid power infrastructure.	EEF	EUR	FRANCE
NFI Group	Fuel cell and electric drivetrains, for large buses.	EEF	CAD	CANADA
Nibe Industrier AB	Heating & cooling, sustainable technologies, Sweden.	EEF	SEK	SWEDEN
Nio	Electric Vehicles, design, manufacture, premium EVs.	ENS	USD	CHINA
NKT A/S	AC/DC cables, grid infrastructure improvements.	EEF	DKK	DENMARK

Nordex SE	Wind turbines, based in Germany/Europe, worldwide.	RWD	EUR	GERMANY
Novozymes A/S	Biofuels, enzymes used in partnerships, Denmark.	RBB	DKK	DENMARK
Ormat	Geothermal, works too in recovered heat energy.	ROH	USD	US
Orsted A/S	Sustainable wind, also biomass, thermal, Denmark.	RWD	DKK	DENMARK
OX2 AB	Wind and solar farms, from design to development.	RWD	SEK	SWEDEN
Piedmont Lithium	Lithium, US-based source for battery-grade lithium.	ENS	USD	US
Plug Power	Small fuel cells, e.g. in forklifts; drop in replacements.	ECV	USD	US
PNE AG	Wind, site exploration to construction and operations.	RWD	EUR	GERMANY
Polestar Automotive	Electric car manufacturer, based in Sweden, global.	ENS	USD	US
Powercell Sweden	Fuel cells, transportation, marine, stationary uses.	ECV	SEK	SWEDEN
Proterra	Electric transit buses, EV charging solutions.	EEF	USD	US
Prysmian SpA	Cables, renewable power transmission, global.	EEF	EUR	ITALY
Quantumscape	Lithium metal batteries, solid state, quicker charge.	ENS	USD	US
REC Silicon ASA	Solar, greater high-purity silicon focus PV, Norway.	RSR	NOK	NORWAY
ReneSola	Solar, project developer and operator, worldwide.	RSR	USD	CHINA
Renew Energy Global plc	India renewables, wind, solar energy Utility scale.	RWD	USD	INDIA
Renova	Wind, Solar, Biomass, power generation in Asia.	RWD	JPY	JAPAN
Rivian	Electric trucks and vehicles, fast charging network.	ENS	USD	US
Samsung SDI	Batteries, innovative energy storage, EVs, South Korea.	ENS	KRW	S. KOREA
Scatec ASA	Solar power, develops, owns and operates worldwide.	RSR	NOK	NORWAY
Sebitchem Co.	Lithium battery recycling, for precursor producers.	ENS	KRW	S. KOREA
SFC Energy AG	Fuel cells, direct methanol (DMFC) technology.	ECV	EUR	GERMANY
Shoals Technologies	Solar, electric balance of system, wiring, combiners.	RSR	USD	US
Signify NV	Lighting, systems increasing efficiency, Netherlands.	EEF	EUR	NETHERLA.
Sino-American Silicon	Solar, semi-conductor silicon wafer materials, Taiwan.	RSR	TWD	TAIWAN
SK IE Technology	Battery materials, separators and ceramic coated.	ENS	KRW	S. KOREA
SMA Solar Technologies	Inverters for solar, industrial scale storage, Germany.	RSR	EUR	GERMANY
Sociedad Quimica Chile	Lithium, a key element in advanced batteries, Chile.	ENS	USD	CHILE
SolarEdge	Inverters, panel-level solar optimizers, micro-inverters.	RSR	USD	US
Solaria Energia	Solar, renewable power generation, Iberia.	RSR	EUR	SPAIN
Solid Power	Towards solid state batteries, sulfide electrolyte.	ENS	USD	US
Stem	Smart battery storage, AI energy management.	ENS	USD	US
SungEel HiTech	Lithium battery recycling, also battery raw materials.	ENS	KRW	S. KOREA
Sunnova	Residential solar and energy storage installation.	RSR	USD	US
SunPower	Solar, efficient PV panels with rear-contact cells.	RSR	USD	US
Sunrun	Residential solar, leasing, PPA or purchase rooftop PV.	RSR	USD	US
TECO Electric Machinery	Motors, converters, in wind, EVs, electrifying everything.	ECV	TWD	TAIWAN
Terna Rete SpA	Transmission of electricity, increasingly is renewables.	EEF	EUR	ITALY
Tianqi Lithium	Lithium products, in EVs, energy storage, etc, China.	ENS	HKD	CHINA
TPI Composites	Wind Blades; also light-weighting for transportation.	RWD	USD	US

Unison	Wind power, maker of turbines, generators, towers.	RWD	KRW	S. KOREA
United Renewable Energy	Solar, also energy storage, hydrogen and fuel cells.	RSR	TWD	TAIWAN
Universal Display	Organic light emitting diodes, efficient displays.	EEF	USD	US
Verbio Vereinigte BioEn.	Biofuels, manufacturer supplier to Germany, Europe.	RBB	EUR	GERMANY
Verbund AG	Electricity supplier, hydro, a large provider for Austria.	ROH	EUR	AUSTRIA
Vestas Wind Systems A/S	Wind, wind turbine manufacturing & services, Denmark.	RWD	DKK	DENMARK
West Holdings	Solar, Japan-focused residential and commercial PV.	RSR	JPY	JAPAN
Wolfspeed	Electrifying high power systems, SiC, GaN.	EEF	USD	US
Xinyi Energy Holdings	Solar Farms, a spin-off from Xinyi solar glass, China.	RSR	HKD	CHINA
Xinyi Solar Holdings	Solar, ultra-clear glass products, China.	RSR	HKD	CHINA
Xpeng Motors	Electric Vehicles, internet and autonomous features.	ENS	USD	CHINA
Yadea Group	Electric scooters and motorcycles, electric bikes.	EEF	HKD	CHINA

130 stocks/100 = Indiv. Weights for Q4 2022

WEIGHT EACH COMPONENT = 0.769230769

130 Stocks for Start of Q4 2022.

		#	% Approx. Weight
Energy Conversion	ECV	16	12%
Energy Efficiency	EEF	24	18%
Energy Storage	ENS	28	22%
Renewables - Biofuels & Biomass	RBB	4	3%
Renewables - Other	ROH	8	6%
Renewable - Solar	RSR	30	23%
Renewable - Wind	RWD	20	15%
		130	100%

16 Adds to NEX for Q4 start: ABalance, Altus, Bumhan, Dae, Energix, Fugro, Hy. Energy Solutions, Navitas, NFI, PNE, Polestar, REC, Sebit, Sungeel, TECO, Tianqi.

10 Deletes: AFC, Cadeler, Daqo, Eolus, Hexagon, Infra., Liliun, Lion, Tritium, Xinjiang Goldwind.