

iClima Distributed Renewable Energy Index

SMART ENERGY IS RESHAPING OUR DATED, FOSSIL FUEL BASED, CENTRALIZED ELECTRICITY GRID

WHY

DGEN?

IT IS DECENTRALIZED

Electricity being produced at the point of consumption. It means local energy, solar rooftops & associated batteries epitomize the solution.

IT IS DIGITAL

AI, 5G and IoT make possible the optimization and management of these decentralized & distributed renewable assets like we have never been able to do before.

IT DECARBONISES

Renewable energy is at the core of Smart Energy, underpinning both the generation of local electricity as well as in the storage of it.

Why is Smart Energy taking off?

IT IS DEFLATIONARY

Because solar & batteries are not fuels, they are technologies. They have benefited from economies of volume and are now at a price point that makes "local solar" price competitive vis-à-vis utility supplied electricity.

What companies are in DGEN that make it so unique?

THE DISRUPTORS

GLDGENER is unique in many ways. No other ETF represents the companies making Vehicles to Grid (V2G), Virtual Power Plants (VPPs), EV Charging Network, Microgrids and Local Solar a reality.

Sample of companies:

EVgo

TESLA

BYD

SUNRUN

PROTERRA

CLEANSARK

-chargepoint+

NOVVE

MEYER BURGER

ENPHASE

stem

blink

volta

FLUENCE

Consumers of electricity becoming ProSumers reshaping energy, transportation and buildings of the future

DeFi (Decentralized Finance) is an emerging digital financial infrastructure, removing central financial institutions from transactions. Similarly, DeGen (Decentralized Renewable Generation) is disrupting the dated power grid.

GLDGENER represents the convergence of deflationary, decarbonizing technologies. Consumers of electricity are becoming 'ProSumers'.

The current energy crisis will persist. Energy efficiency and local solar & battery are the only short term solutions. Consumers of electricity want security of supply and predictable cost. Producing electricity at point of consumption is now price competitive, and the technologies are deflationary.

Ticker : GLDGENER



We shift the narrative on climate change investments, by looking for the companies with products and services that preclude emissions from ever taking place.

Equally unique is that we use tangible and quantifiable metrics in our methodology, such as Potential Avoided Emissions, as a proxy for impact & relevance.

Ours is a holistic ESG approach. We lead with “E”, based on these tangible metrics, and additional “S” and “G” screens are based on UN Global Compact indicators.

Index Details

Index Name: iClima Global Decarbonisation Enablers Index

Index URL: www.solactive.com/Indices/

Inception Date: September 2020

Number of holdings: 164

Asset Class: Equities

Eligible Universe: Solactive GBS Global Markets All Cap USD Index TR (ISIN: DE000SLA78F9)

Weighting: Tiered weighting to ensure no company comprises greater than 2% at each rebalance date

Index Provider: Solactive AG

Rebalance Frequency: Every six months

Bloomberg Ticker: GLCLIMUN Index

ISIN: DE000SLOB8N8

Currency: USD

Base Value/Base Date:
02 Aug 2017, set at 1000

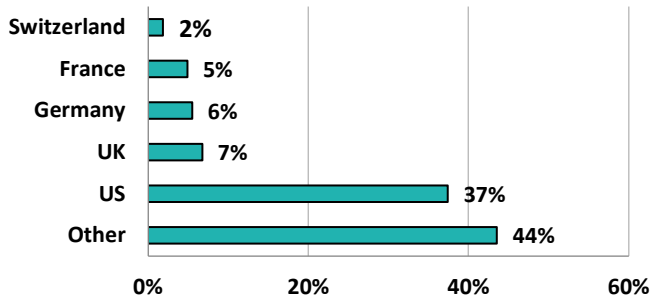
The **iClima Global Decarbonisation Enablers Index USD** was designed to represent the securities from companies with products and services that preclude CO₂e emissions from ever taking place. These companies move our economies away from “business as usual”, products and services with material emissions or heavy fossil fuel association. Decarbonisation is quantified based on a tangible metric: Gigatons of CO₂e avoided.

Why iClima Decarbonisation Index?

We created the **iClima Global Decarbonisation Enablers Index** in September 2020 to provide unique data and research for those looking to find the most innovative and relevant companies in the climate space. Our unique approach looks for the providers of solutions that will be necessary as the world shifts to more sustainable economies.

- 1. Exclusion & Innovation approach to ESG:** Most climate change indices are based on Inclusion & Transformation, the idea that companies can make an impact if they “do less harm”. While we appreciate that many companies are great corporate citizens, there is a limit to the impact of decarbonization if it is a cost line item. We represent innovation, the companies that problem solve to mitigate climate change.
- 2. A comprehensive set of solutions:** The index provides balanced exposure to companies providing climate change solutions from five sub-sectors including green energy, green transportation, water and waste improvements, decarbonisation enabling solutions and sustainable products.
- 3. Megatrend with tail winds:** Climate change and the transition to a low carbon economy is one the largest megatrends of the 21st century. Green investments are largely being fueled by a combination of climate change supportive regulatory changes such as the 2015 Paris Agreement and new consumer-based preferences such as veganism, ridesharing, and electric vehicles.

Exposure and Characteristics



TOTAL Capitalization \$3,053,163,611,990

% of Index

Mega Cap	1.04%	Small Cap	7.35%
Large cap	52.18%	Micro Cap	4.81%
Mid Cap	34.61%		

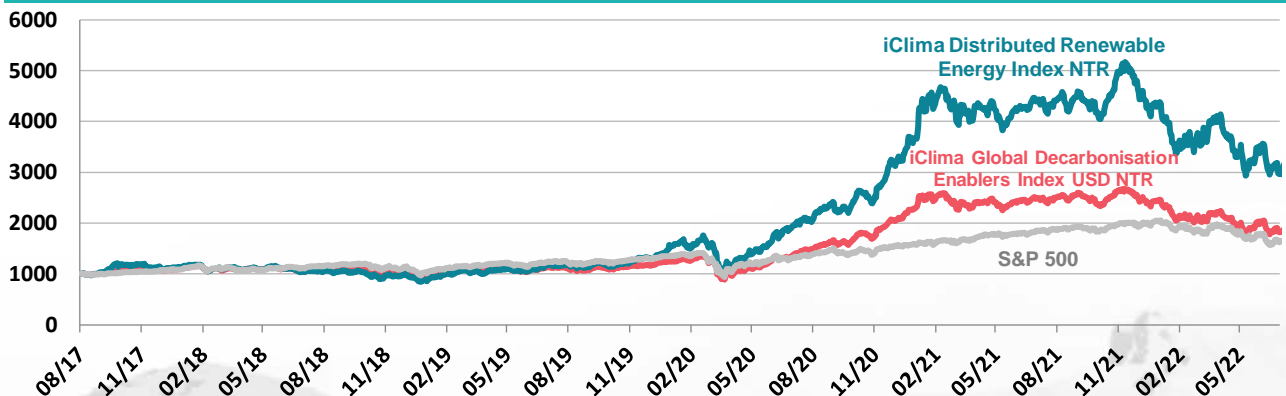
Exposure and Characteristics

Security	% Weighted
Enphase Energy, Inc.	1.94%
Sociedad Química y Minera de Chile S.A.	1.78%
BYD Company Limited	1.36%
Quanta Services, Inc.	1.28%
Republic Services, Inc.	1.15%
EDP Renováveis, S.A.	1.15%
Ørsted A/S	1.14%
Li Auto Inc.	1.14%
SolarEdge Technologies, Inc.	1.12%
VERBUND AG	1.08%
Total	13.15%

Sector Breakdown



Index Performance 2nd Aug 2017 to 29th Jul 2022



iClima Global Decarbonisation Enablers Index USD NTR

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2022	-12.79%	1.16%	1.69%	-10.86%	2.23%	-8.89%	12.05%						-16.55%
2021	6.32%	-2.00%	-0.01%	1.22%	0.24%	3.14%	0.41%	2.32%	-6.79%	9.14%	-3.18	-2.73	7.33%
2020	1.32%	-3.42%	-16.25%	11.01%	9.23%	8.06%	10.13%	11.37%	1.55%	1.92%	21.41%	10.87%	83.51%
2019	10.54%	3.63%	-0.60%	3.87%	-7.01%	8.29%	-0.13%	-3.07%	2.38%	2.39%	2.97%	5.98%	31.91%
2018	3.79%	-4.98%	-0.03%	0.65%	0.34%	-3.15%	2.53%	0.70%	-1.12%	-9.30%	2.91%	-6.85%	-14.40%
2017									5.36%	2.43%	0.17%	1.37%	

Methodology

Company selection criteria is built on a fact and data-based methodology. Inspired by the findings of Project Drawdown and the EU Green Taxonomy, iClima identified five segments that will make a significant impact to lowering levels of CO₂e. Companies within each of these segments were then included based on a rules-based funneling system to test for whether they are revenue generating, to gauge the percentage of their 'green' revenue vs. non green. Exclusions were then applied to companies that have exposure to nuclear, armaments, fossil fuels, and certain Global Compact indicators including slavery.

The Decarbonisation Solutions

The Decarbonisation Solutions encompass a comprehensive list of five sectors and 27 subsectors in total. These cover a broad set of solutions, all poised to benefit from the increased need of sustainable solutions as regulatory demands, investor appetite and consumer behaviour shift the world to a greener economy.



Green Energy Companies

provide or enable renewable energy production from solar, wind, hydro, ocean, tide, and geothermal sources.

Examples include: Renewable Energy Assets; Renewable Energy Developer; Renewable Energy Equipment and Green Utility



Green Transportation Companies

focus on climate change solutions that enable reduction in greenhouse gas emissions from fossil fuel combustion in internal combustion engine ("ICE") vehicles. Also, companies in public transportation that enable a modal shift from ownership and usage of private ICE.

Examples include: Electric transportation; Electric Vehicles and bikes; Ride Sharing and Efficiency



Water & Waste Improvement Companies

provide water and waste management services that enable energy saving, sustainable treatment of waste and avoidance of landfill greenhouse gas emissions from decomposition.

Examples include: Pollution Control, Recycling and Materials; Waste Management; Water and Waste Efficiency



Decarbonization Enabling Solutions Companies

cover a wide range of solutions that indirectly enable reduction of greenhouse gas emissions from energy generation, combustion in ICE vehicles, and operation of buildings and industrial processes.

Examples include: Fuel Cells and Alternative Fuels; Battery Supply Chain; Electric Systems; Energy Efficiency; Energy Storage; Green Finance; Semiconductor Devices; Lighting Systems; Measurement Instruments; Sustainable Infrastructure; Electrical Components



Sustainable Products Companies

offer products from sustainable raw materials, products that enable reduction of greenhouse gas emissions in the production stage, use phase and/or end of life phase.

Examples include: Food Solutions; Telepresence; Sustainable Materials; Efficient Materials and Processes; Sustainable Buildings; Sustainable Forestry

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