

ZKB MeinIndex Sustainable Solar

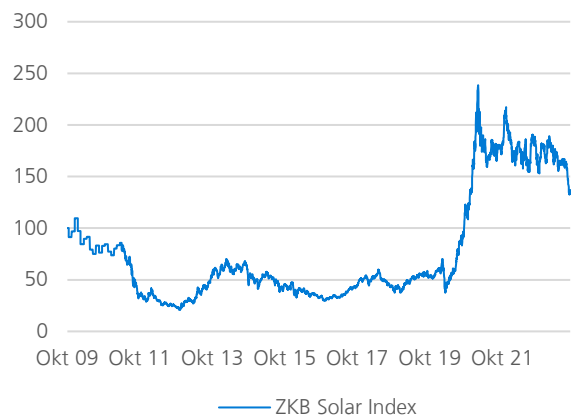
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31.08.2023

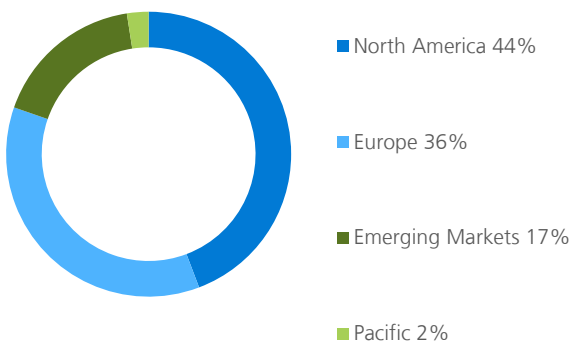
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In brief

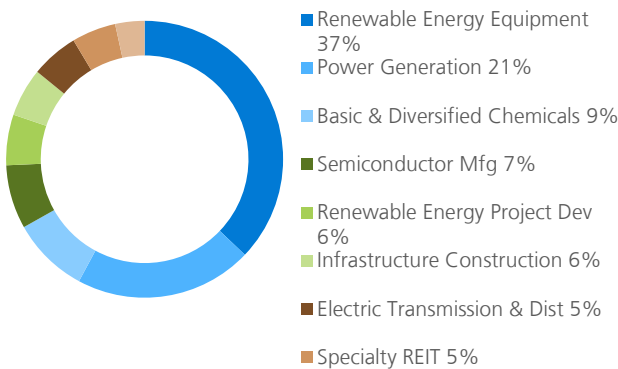
- Unlike fossil fuels, solar energy is infinitely available and the amount transmitted is equivalent to 5,000 times the world's energy consumption.
- Solar energy is available on a decentralized basis, consequently requiring less transfer capacity.
- The current decade will see photovoltaics achieve network parity (when production costs for solar power are the same as the cost of electricity from the grid).
- The share of solar technologies in the energy mix in year 2040 is forecasted at up to 20 % (a growth factor of 320).



Distribution by region as of 31.08.2023



Distribution by portfolio category as of 31.08.2023



Performance figures ZKB MeinIndex Sustainable Solar

Absolute		Annualized	
1m	-13.4%		
3mths	-15.2%		
1y	-25.5%		
3y	49.2%	16.4%	
5y	202.1%	40.4%	
since launch	37.1%	2.7%	

Annual performance	
2015	-6.5%
2016	-34.1%
2017	66.9%
2018	-26.2%
2019	52.2%
2020	172.3%
2021	21.2%
2022	-13.9%
2023 YTD	-16.7%

Solar energy and sustainability

In future, people will be able to use a large number of different energy sources. Fossil fuels will sooner or later run out, or it will no longer be possible to use them for climate reasons. Renewables can and must take the leading role in future energy provision. Solar power has a vital contribution to make. The energy transmitted to the earth from the sun is around 5,000 times greater than the world's energy consumption. No other renewable energy source can compete with that. A major advantage of solar energy is that it can be harnessed everywhere on earth. For example, a vast number of unused roofs is available for the on-site use of solar energy as electricity or heat. Solar energy can also be added incrementally, i.e. in small units, thus lessening the risk of large-scale power outages. In particular, the production of electricity from the sun – photovoltaics – has made enormous progress over the past 10 years in terms of production technologies and cost reductions. In the foreseeable future, it will be possible for government support to be withdrawn. Production of solar modules is nearing industrial levels, bringing corresponding economies of scale. Costs are also falling as a result, meaning that in the current decade, electricity from photovoltaic modules will cost the same as electricity from the grid ("network parity"). If we accept forecasts from numerous quarters that solar technologies will account for up to 20 % of world energy production by the middle of the 21st century, this represents an enormous growth factor.

ZKB MeinIndex Sustainability Solar

For the ZKB MeinIndex Sustainability Solar, companies that cover a broad range of solar applications for electricity as well as heat and cold generation are selected from the sustainable investment universe of Zürcher Kantonalbank. The main focus is on the provision of products and systems for electricity production. The most widespread form – crystalline photovoltaics – represents an important part of the index. A more precise differentiation is made between the individual stages in the value chain. Other technologies include the various thin-film technologies, solar thermal electricity production and concentrator technologies. Solar thermal applications for heat / cold

Suppliers and raw materials

Crystalline solar technology has its origins in sand. The raw material for the production of solar wafers and cells – crude silicon – is extracted from silica sand. Producers in this sector include manufacturers of machines and other products for the solar industry (producers of raw materials are excluded).

Wafer/cell (production)

Wafers and the cells produced from them are the most important elements in the production of a solar module.

Modules (production)

A solar module is a packaged, interconnected assembly of cells.

All-round suppliers

Companies which are active in two or more stages of the value chain with notable production activities.

New technologies

In terms of new technologies, a distinction is drawn between four different areas: 1) Thin-film: a series of promising approaches based on thin-film technology, such as amorphous silicon, copper indium gallium diselenide (CIGS) and cadmium telluride (CdTe); 2) Solar thermal/concentrators: this category comprises manufacturers of solar thermal electricity production plants and concentrator modules/systems; 3) Project developers: they develop, build and/or operate projects in the solar value chain; 4) Solar thermal heat/cold: comprises manufacturers of plants and systems for the production of solar thermal heat or cold, such as solar collectors.

Key data ZKB MeinIndex Sustainable

Solar

CH Sec No.	10 687 107
Bloomberg Symbol	ZKBISOLR

Open End ZKB Tracker Certificates

CH Sec No.	ISIN	Symbol	Tranche
10 716 406	CH0107164060	TRSOLO	Retail
10 716 413	CH0107164136	TRSOLI	Institutionell

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ZKB MeinIndex Sustainable Solar Components as of 31.08.2023

Underlying	Currency	Portfolio category	Weight as of 31.08.2023
Ameresco Inc	USD	Renewable Energy Project Dev	5.85%
Applied Materials Inc	USD	Semiconductor Mfg	7.38%
Canadian Solar Inc	USD	Renewable Energy Equipment	4.07%
Enphase Energy Inc	USD	Renewable Energy Equipment	3.46%
First Solar Inc	USD	Renewable Energy Equipment	4.75%
Flat Glass Group Co Ltd	HKD	Renewable Energy Equipment	5.04%
Hannon Armstrong Sustainable I	USD	Specialty REIT	5.11%
Hanwha Solutions Corp	KRW	Basic & Diversified Chemicals	3.41%
Manz AG	EUR	Factory Automation Equipment	3.39%
MasTec Inc	USD	Infrastructure Construction	5.61%
Maxon Solar Technologies Ltd	USD	Renewable Energy Equipment	2.43%
Meyer Burger Technology AG	CHF	Renewable Energy Equipment	3.78%
NextEra Energy Partners LP	USD	Power Generation	4.64%
Redeia Corp SA	EUR	Electric Transmission & Dist	5.48%
Scatec ASA	NOK	Power Generation	5.77%
SMA Solar Technology AG	EUR	Renewable Energy Equipment	3.54%
SolarEdge Technologies Inc	USD	Renewable Energy Equipment	2.64%
Solaria Energia y Medio Ambien	EUR	Power Generation	5.63%
SunPower Corp	USD	Renewable Energy Equipment	2.93%
Terna Energy SA	EUR	Power Generation	4.48%
Wacker Chemie AG	EUR	Basic & Diversified Chemicals	5.50%
Xinyi Solar Holdings Ltd	HKD	Renewable Energy Equipment	4.12%

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