

# What is Photovoltaic Solar Energy?

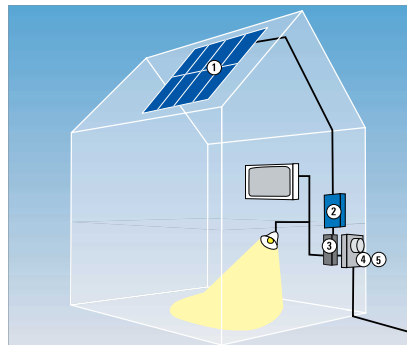
Electricity from Sunlight



## What It Does

Photovoltaic solar energy systems use sunlight to generate electricity. It lowers your utility bill, and helps reduce fossil-fuel consumption and global warming. A Schüco system lasts for many years, and adds to the value of your home.

Tax credits and rebates are available in many areas, and many utilities offer net metering. With these, any extra electricity you generate and feed out to the utility grid spins your meter backwards, saving you even more money.



## What You Need

A Schüco solar energy system is a complete, all-in package with everything you need:

- Modules
- Inverter
- Switch
- Monitor
- Mounting hardware

All components are engineered for long life and low maintenance. The modules and inverter are matched to each other for maximum efficiency.

## How it Works

1. Sunlight hitting silicon cells in a module generates a direct current.
2. A switch protects the solar modules from grid power fluctuations.
3. The solar direct current goes from the solar modules to an inverter, which converts it to household AC.
4. If there is extra solar current, the system feeds it to the utility grid, running the meter backwards.
5. If more power is needed, the switch draws power from the utility grid.

# Key Components

## Module

Schüco modules are guaranteed to perform for 25 years. They are engineered to stand up to any weather, and require no maintenance beyond the occasional hose-down so that dust and debris don't get in the way of the sunlight. Our modules are pre-tested for actual output, so when you choose one of our systems, you know exactly what you're getting.



Module



Inverter

## Inverter

We offer several inverter models to fit different system capacities. Our inverters are optimized for grid-connected systems, and are designed to give reliable service for the life of your system. They are exceptionally efficient, to maximize the amount of power you get from your system.



Monitoring

## Monitoring

The Sunny Beam keep tabs on system performance. It shows system output on a display and also sends performance data wirelessly to a computer.

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