

Sustainability Pays Off

Solar energy systems have become more and more affordable over the past few years. Increases in efficiency mean that products from premium manufacturers in Germany do not require state subsidies to be cost effective. Thanks to a high level of automation, logistical advantages and zero-defect production. It's important to know that, even though the price gap between our products and those from Chinese manufacturers has reduced significantly, opting for a low cost Asian provider comes at the cost of sustainability.

What does this mean for consumers?

An average 5 kWp system produces around 5,000 kWh of electricity per year. This corresponds to annual savings of 1.5 tonnes of CO₂, based on a hypothetical energy mix similar to that of Germany and France. If we assume that the system can cover around 50 % of a family's energy needs, this accounts for an annual saving of 750 kg CO₂.

	China	Sonnenstrom
CO ₂ -Emission module production (in tonnes)	3.8	1.3
Energy Amortisation (in years)	5	2
Remaining Service Life (in years)	15	23 Glass/Foil 38 Glass/Glass

Why Sonnenstromfabrik?

To save costs, solar modules are mostly manufactured in countries where environmental protection plays a less important role and little consideration is given to carbon emissions during production. When it comes to environmental protection during production, Sonnenstromfabrik is one of the solar industry's role models.

Our value chain is optimised for minimal carbon emissions and audited by an external testing institute. We operate our machines predominantly with solar power produced from our own solar modules, and employ state-of-the-art filter technology.

Our plant emits 40 % less CO₂ than the average German solar company – and over 70 % less than international competitors.

What's more, we exclusively use primary materials from CO₂-audited manufacturers for our Low Carbon product range.



fast ecological payback,
long residual lifetime



CO₂-audited



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