

sonnen

energy is yours

The energy supply
of the future. Today.





Our goal is clean and affordable energy for everyone. Together we can already achieve this today.

With the **sonnenBatterie** we have laid the foundation for this: it stores self-produced energy for your own use and thus takes you on the first important step towards energy independence. All information regarding our intelligent solar storage battery can be found starting **on page 6**.

The **sonnenCommunity** takes the concept of independence one step further. Here, we connect households who produce their own energy to create the world's largest independent energy community. Read more about the many benefits starting **on page 14**.

With our intelligent **accessories**, your energy household will not only be clean, but sustainable. Starting **on page 18**, you can learn everything about our innovative products such as the **sonnenCharger**, **sonnenHeater** and **sonnenBackup-Box**.

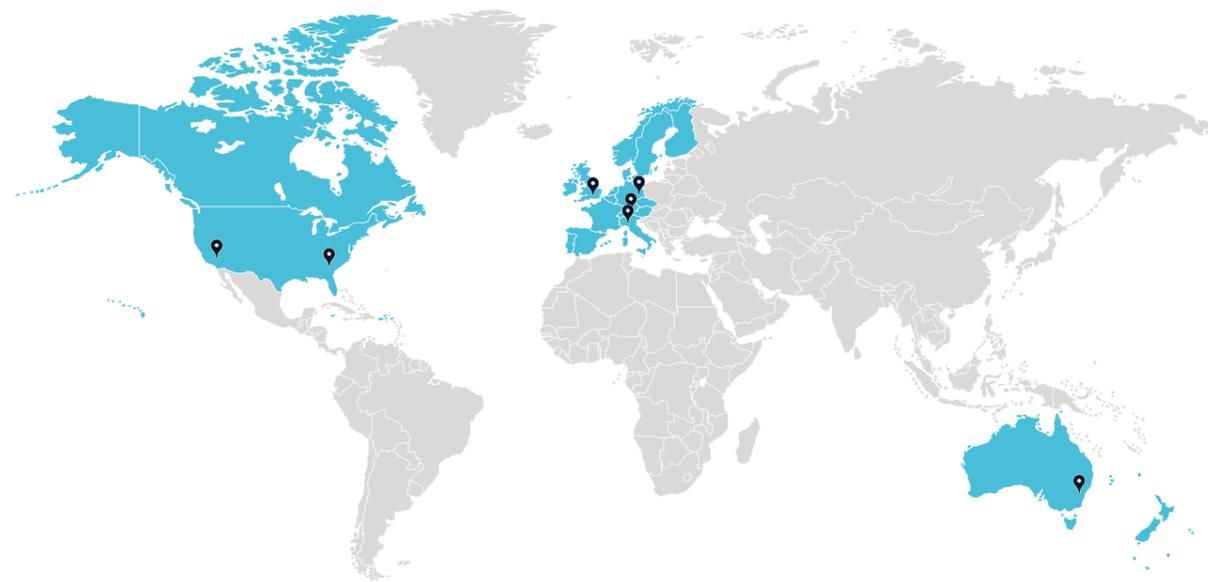
Founded in Bavaria, proven worldwide.

Our success story began in 2010 as a Bavarian start-up whose vision was making clean and affordable energy accessible to everyone. Since then, we have put our heart and soul into giving our customers worldwide the opportunity to take their energy future into their own hands. This is why we are also represented in international markets by now – including Italy, the United Kingdom, the United States and Australia.

As the market leading manufacturer of intelligent lithium energy storage systems and the operator of the world's largest power-sharing platform, we already supply more than 120,000 people with clean and locally-generated energy with more than 30,000 installed systems.



Philipp Schröder, Global Chief of Sales & Marketing and Christoph Ostermann, CEO & Co-Founder



Wildpoldsried, DE · Berlin, DE · Bergamo, IT · Bristol, UK · Los Angeles, US · R&D Center Atlanta, US · Sydney, AU

sonnen ...

- ... Global market leader for lithium iron phosphate batteries
- ... Operator of the world's largest electricity sharing platform
- ... One of the fastest growing technology companies in Germany
- ... Multiple national and international awards
- ... More than 30,000 battery storage units installed worldwide
- ... More than 120,000 people supplied with electricity from renewable energy sources



reddot award 2018
winner





sonnenBatterie

sonnenBatterie – declare your independence.

Clean energy doesn't have to be expensive: a photovoltaic system enables you to produce energy at costs that are significantly lower than the usual electricity prices. We developed the sonnenBatterie to ensure that your solar power is available to you day and night.

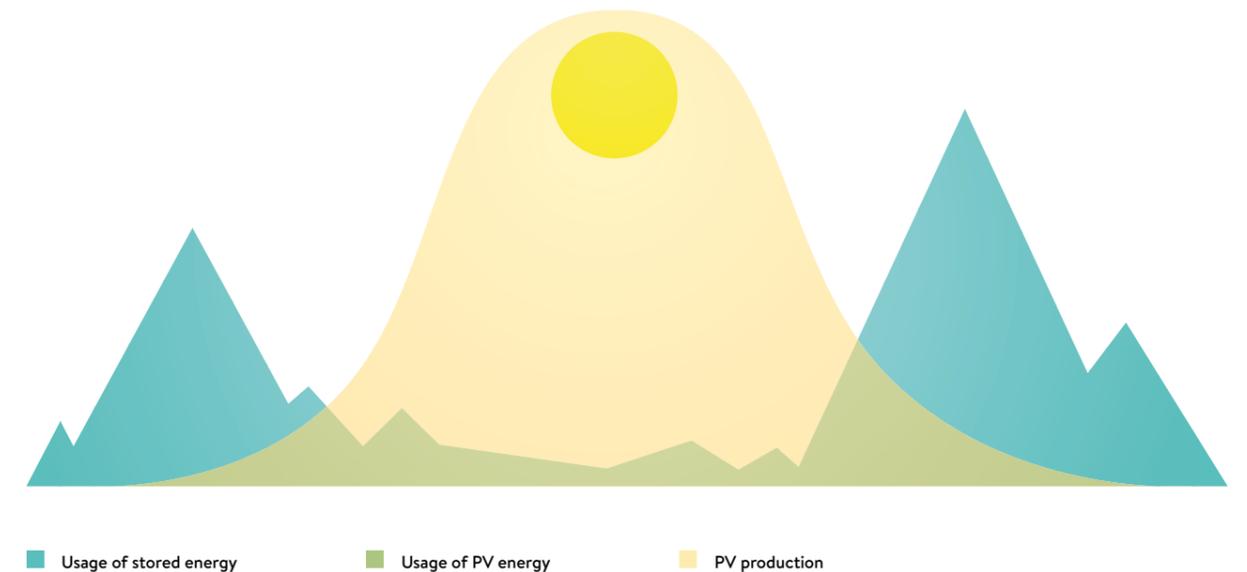
Our proven high-tech solution allows you to store the electricity generated from your photovoltaic system and use it whenever you need it. With this technology, nearly 75% of your annual electricity consumption is covered with self-generated energy. This means that you need very little electricity from traditional energy companies and are more protected against rising energy prices.

Our range of battery storage models offers systems to suit every household. Whether sonnenBatterie eco, hybrid or pro, at sonnen you get the solution best suited to your needs.



How the sonnenBatterie works.

The sonnenBatterie stores any excess electricity generated by your photovoltaic system that is not currently needed in your house. The stored solar energy is then available to you in the evening or at night. However, the sonnenBatterie can do so much more. As an intelligent storage system, it optimises your own consumption according to your household consumption and the current weather data. In this way, it automatically ensures that as much solar power as possible remains in your home.



Morning:
minimal energy production,
high energy need.

At sunrise the solar panels start to produce energy, though not enough to cover the morning energy need. The sonnenBatterie will bridge the gap with the stored energy from the day before.

Midday:
highest energy production,
low energy need.

In the daytime the solar panels' energy generation is at its peak. But since nobody is home the energy consumption is very low so that most of the generated energy is stored in the sonnenBatterie.

Evening:
low energy production,
high energy need.

The highest daily energy consumption is in the evening when the solar panels produce little or no energy. The sonnenBatterie will cover the energy need with the energy produced in the daytime.

There are many reasons for a sonnenBatterie.

Quality from the market leader:

Get the world's best-selling solar power storage unit "made in Germany" with a full 10-year warranty and an extra long battery life with over 10,000 charging cycles.¹

Ready-to-connect and intuitive all-in-one system:

The sonnenBatterie is an intelligent high-tech device in a compact cabinet ready for connection and suitable for every household. It includes high quality battery modules, an inverter, measurement technology and the latest software.

Smart-home-ready:

The intelligent energy manager of the sonnenBatterie optimises your consumption, taking weather forecasts into account to estimate your likely charging behaviour. With our intelligent accessories, we guarantee optimal power distribution in your home and turn it into a smart home in no time at all.

Always expandable:

The sonnenBatterie is designed as a flexible multi-level storage concept that adapts to every household's needs. Should you ever need more capacity, the sonnenBatterie can be expanded at any time.

Safest, most durable cell technology (LiFePO₄):

We focus on safety above anything else. That's why we have opted for a particularly reliable and sustainable battery technology and only use lithium iron phosphate cells (LiFePO₄). They are considered to be more durable and safer than many other lithium-ion batteries. Lithium iron phosphate is also the only battery material that occurs as a natural compound and doesn't contain any toxic heavy metals.

Mobile control:

The integrated touch display of the sonnenBatterie, the sonnen app and our customer portal always keep you informed about all values relating to your energy household. Through our mobile solutions you can even control specific electrical devices if you're not at home.

Access to sonnenCommunity:

The world's largest independent energy community allows you to share electricity with other members on fair terms and choose between flexible electricity rates.

Contact us:

If you would like to know more about the sonnenBatterie, please do not hesitate to **call us: +44 330 114559**. We are glad to advise you!



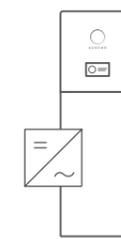
Which sonnenBatterie is right for me?

There are two solutions for homeowners: the sonnenBatterie eco and the sonnenBatterie hybrid. If even more energy is needed, for example in commercial buildings, the larger sonnenBatterie pro is the right solution. Find out which model suits you best!



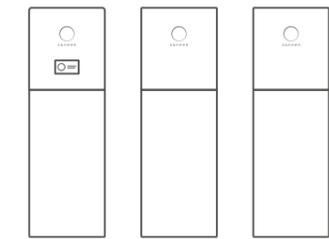
Flexibility at its best – the sonnenBatterie eco.

The sonnenBatterie eco is the perfect solution for those wanting the greatest possible flexibility. Since it is not bound to any particular photovoltaic system size, its modular design makes it the right companion for you. It can also be easily connected to other power sources and is compatible with a mini wind turbine, a unit or a fuel cell. The sonnenBatterie eco is also ideally suited for those who already have a photovoltaic system. It can be easily connected to existing installed systems enabling them to enjoy their solar power day or night.



Cost-efficient – the sonnenBatterie hybrid.

The sonnenBatterie hybrid provides maximum cost-efficiency as the system also includes the inverter for your photovoltaic system. This eliminates the need for an external device to convert direct current (DC) from the roof into alternating current (AC) for your house. This significantly reduces the total cost of a photovoltaic system and sonnenBatterie. The system also becomes more compact and efficient. Due to its very high efficiency, we ensure that solar power reaches your household with virtually no losses.



Always ready for use – the sonnenBatterie pro.

The sonnenBatterie pro is the new standard for responsible energy consumption in commercial operations. It offers maximum self-sufficiency, capacity and performance. Since companies require more energy than a typical single-family home, three sonnenBatteries can be combined to form a larger capacity storage solution. Due to this higher performance and increased capacity, the sonnenBatterie pro operates with larger photovoltaic systems and is therefore suitable for commercial buildings with large solar arrays. Thanks to the integrated energy manager with weather forecasting and estimated charging behaviour, your company can achieve efficient and transparent supply of clean power at all times.



- Completely flexible, not bound to any PV system size
- Intelligent integration, compatible with other electricity sources
- Ideal for new and existing solar panels
- Easy connection to existing technology
- Emergency power capability with the sonnenBackup-Box
- Smart-home-ready with intelligent accessories
- AC inverter

- Significantly reduced system cost
- Integrated PV inverter
- No need for an external inverter
- High efficiency
- Optimal self-consumption of your own solar energy
- Emergency power capability with the sonnenBackup-Box
- Smart-home-ready with intelligent accessories
- DC inverter

- sonnenBatterie solution for larger commercial applications
- Emergency power capability with the sonnenBackup-Box
- Three cascaded eco systems to provide a bulk storage solution
- Higher capacity and performance
- Greater system intelligence with smart accessories
- AC inverter



sonnenCommunity

Be independent together: the sonnenCommunity.

The sonnenCommunity is your ticket to a new, clean and affordable energy future. With a sonnenBatterie and sonnenCommunity membership, you become 100% independent of your previous energy provider.

This is how it works:

The sonnenBatterie is designed to ensure that you will use the majority of your self-generated solar energy. The sonnenCommunity then ensures that if you need additional energy for your home, you will receive it from other community members. The idea behind this is that we connect people who generate their own energy into a large community who can share their clean electricity with one another. The sonnenCommunity also offers various electricity tariffs, which gives every household a suitable energy supply solution to suit their needs – regardless of whether they contribute energy themselves or not. In this way, we guarantee maximum energy independence and transparent supply at fair conditions for everyone. More than 120,000 people are already being supplied with clean and affordable energy as part of the world's largest electricity sharing platform. The sonnenCommunity is available in Germany, Austria, Italy and Australia.

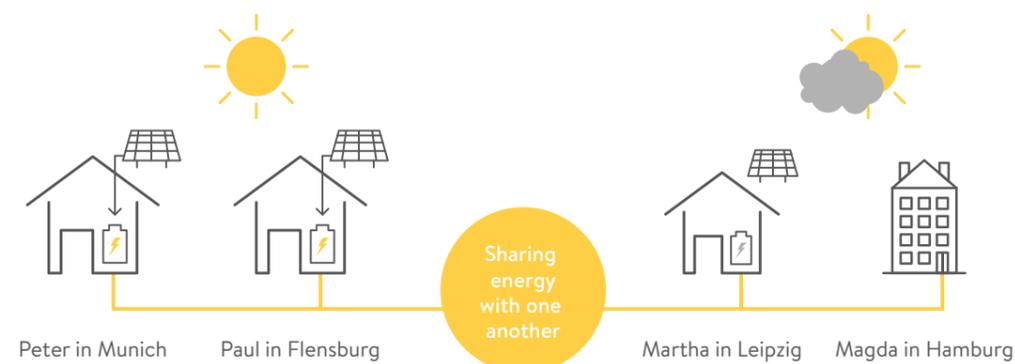
The United Kingdom and USA are next in line. Please note that setup and tariffs in the sonnenCommunity may differ in regard to the individual requirements of each country.

sonnenCommunity – take your energy future into your own hands!

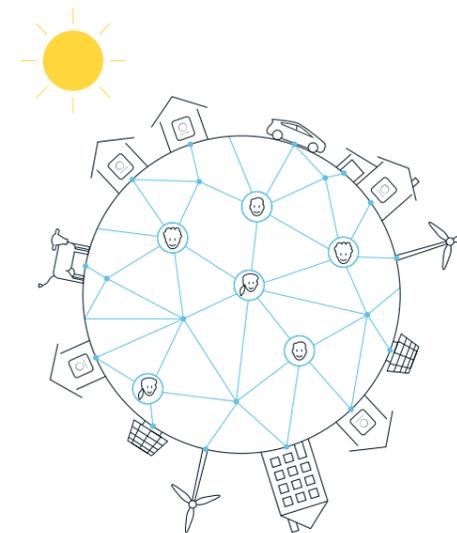
How does the sonnenCommunity work exactly?

Members of the sonnenCommunity are virtually and intelligently connected to each other and – depending on demand and weather conditions – can add to or draw out from the energy surplus as needed. Because members simply share unused energy with each other online, they become independent from their previous energy providers. Whoever provides excess energy will receive better prices than if they sold it to a large energy provider – because the energy companies' profit margin is no longer applicable. The sharing platform is controlled through software, which can detect how much power is currently being produced and consumed. This keeps supply and demand in balance so that there is always enough energy for all sonnenCommunity members. The sonnenCommunity thus completely replaces your previous energy provider making you 100% independent.

sonnenCommunity: Independence from your energy supplier



sonnenCommunity at a glance.



- World's largest energy community
- Energy-sharing on fair terms
- Over 120,000 members are supplied with energy
- Complete independence from traditional energy suppliers
- Transparent and clean energy supply
- Access to flexible, inexpensive energy rates
- Joint stabilisation of the public electricity grid
- Promotes the use of renewable energies

As green as it gets: our electricity producers.

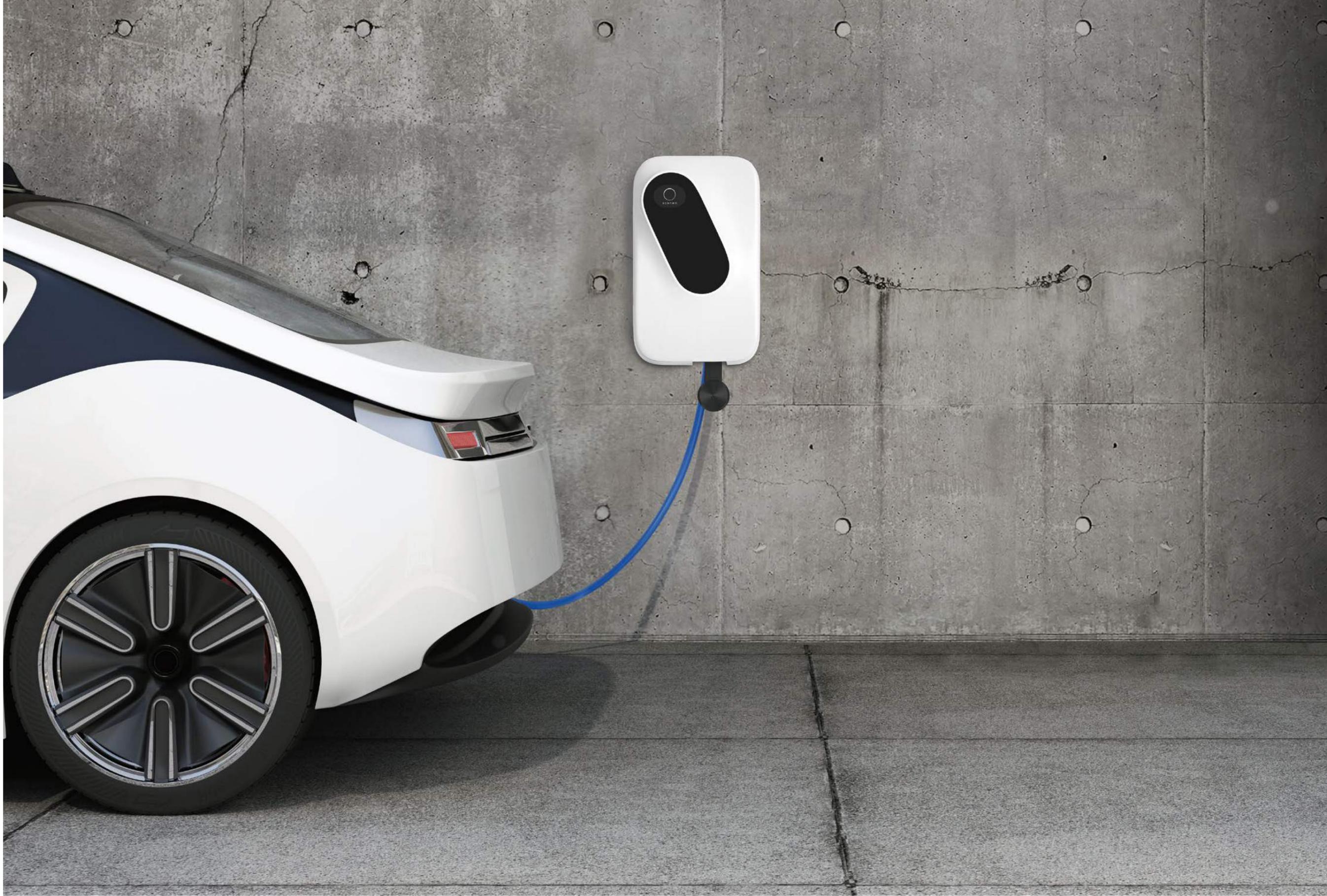


Wouldn't it be nice to know that the electricity that you use doesn't come from an environmentally-harmful coal power plant, but instead from a family or farm's rooftop? As a member of the sonnenCommunity, you no longer have to worry where your electricity comes from. Transparency is important to us, which is why we give you a behind-the-scenes look at the sonnenCommunity at sonnen.de/en/sonnencommunity. Now your electricity will have a face – and not just one, but thousands. The sonnenCommunity does not only include sonnenBatterie owners, but also the operators of other decentralised generation plants.

These include, for example, wind turbines, biogas plants or large PV systems², which can generate large amounts of energy. Every operator of such a system can become a member of the sonnenCommunity and thus secure an additional bonus for any electricity they provide.

This energy mix ensures that sufficient energy is available to all members of the energy community, even during prolonged periods of bad weather, in winter or when the demand is unexpectedly high.

² Technical inspection required.



Accessories

Now for even more innovation: our accessories.

Make your home not only independent, but also sustainable – with the accessories from sonnen. Thanks to the integrated energy manager, the sonnenBatterie already ensures optimised power consumption in your home. To further increase your own consumption, sonnen offers intelligent accessories that are compatible with the sonnenBatterie: from heat generation to emergency power to the electric car charging station.



sonnenHeater



sonnenBackup-Box

Warmly recommended: the sonnenHeater.

With the sonnenHeater you can use solar energy to generate heat. If between spring and autumn the electricity yields of the solar panels are particularly high and excess energy is produced, the sonnenHeater allows you to utilize this in a targeted way. No expensive external control is necessary, because the sonnenBatterie's energy manager regulates the sonnenHeater precisely. This optimises your own consumption and saves not only electricity but also heating costs. By integrating the sonnenHeater into your heating system, you reduce your oil and gas consumption and at the same time make an important contribution to the environment. In-home power and heat generation – with the sonnenBatterie and the sonnenHeater!

- In-home power and heat generation
- Intelligent heating rod with dynamically-adapted output up to 3.5 kW
- Takes consumption and weather data into account
- Adjustable water temperature from +10 degrees to +80 degrees
- Easy control via the sonnenBatterie
- Saves on heating costs
- Compatible with sonnenBatterie eco, hybrid and pro

No more power outages – with the sonnenBackup-Box.

With the emergency power option from sonnen, power outages will be forever in the past. The flexible and easy installable sonnenBackup-Box is compatible with the sonnenBatterie eco, hybrid and pro and offers you maximum security for a constant power supply in your home. Up to 2.8 kW of peak power are available for the protection of a complete phase. The sonnenBackup-Box combined with an 8 kWh sonnenBatterie can, for example, power your home's refrigerator, lights and internet router all day long.

- Emergency power option
- Protection against power outages
- Switch-on time of 3 seconds
- Up to 2.8 kW peak power for securing a complete phase
- Can be retrofitted to existing systems
- Compatible with sonnenBatterie eco, hybrid and pro

Let your car soak up some sun: sonnenCharger.

With the sonnenCharger, the intelligent EV charger for your home, you can use your photovoltaic panels and a sonnenBatterie to charge your electric vehicle with clean electricity. Instead of using conventionally generated electricity from fossil-fired power plants, the new charging station from sonnen allows you to draw the required electricity directly from your solar panels or your sonnenBatterie. For the first time, electric mobility becomes truly clean!

Full flexibility - in an intelligent system.

The sonnenCharger is not only an EV charger, but part of an intelligent system which uses the sonnen control center to actively interconnect with your sonnenBatterie, your photovoltaic panels and your electric vehicle.

Thanks to this connection, the sonnenCharger is able to optimally align itself to your daily routine and operate in two possible charging modes: power and smart.



Charging mode power:

The power charging mode automatically ensures that your electric vehicle will charge as quickly as possible with your self-generated electricity, meaning your car is ready for use in no time. Simply plug it in and get started!



Charging mode smart:

In smart mode, you specify the time when you next want to use your car. Then, within the available time period, the sonnenCharger is able to consider the weather forecast data and the household's electricity consumption to decide where the self-produced solar energy is needed the most and when is the best time to charge the electric vehicle.



Benefits at a glance

- Intelligent charging technology to maximise home consumption
- Seamless integration into a system comprising energy storage, photovoltaic panels and electric car
- Power and smart charging modes for full flexibility
- Management at any time via sonnenCharger app
- Integrated intuitive touchscreen allows convenient on-site operation
- High-quality, durable materials with a timeless design from sonnen
- Compatible with all current electric cars with IEC-Type-2-plugs³
- Outdoor capability with IP54 certification

³ As well as IEC-Type-1-plugs with adaptor.

Start your own energy revolution by contacting us.

Bring the future of energy supply into your home, with the sonnenBatterie, the sonnenCommunity and our intelligent accessories. Declare your energy independence now and become a part of a global movement.

Our team would be glad to advise you.

We look forward to hearing from you.

Hotline

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Mon – Fri 8:00 am – 6:00 pm

Sat 9:00 am – 4:00 pm

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🐦 twitter.com/sonnencommunity

📺 youtube.com/user/sonnenbatterie

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