



SMA COMMERCIAL ENERGY SOLUTION

Small
& Large
Commercial

FULL OF ENERGY

Empower your business with efficiency,
cost savings and a reduced carbon footprint.



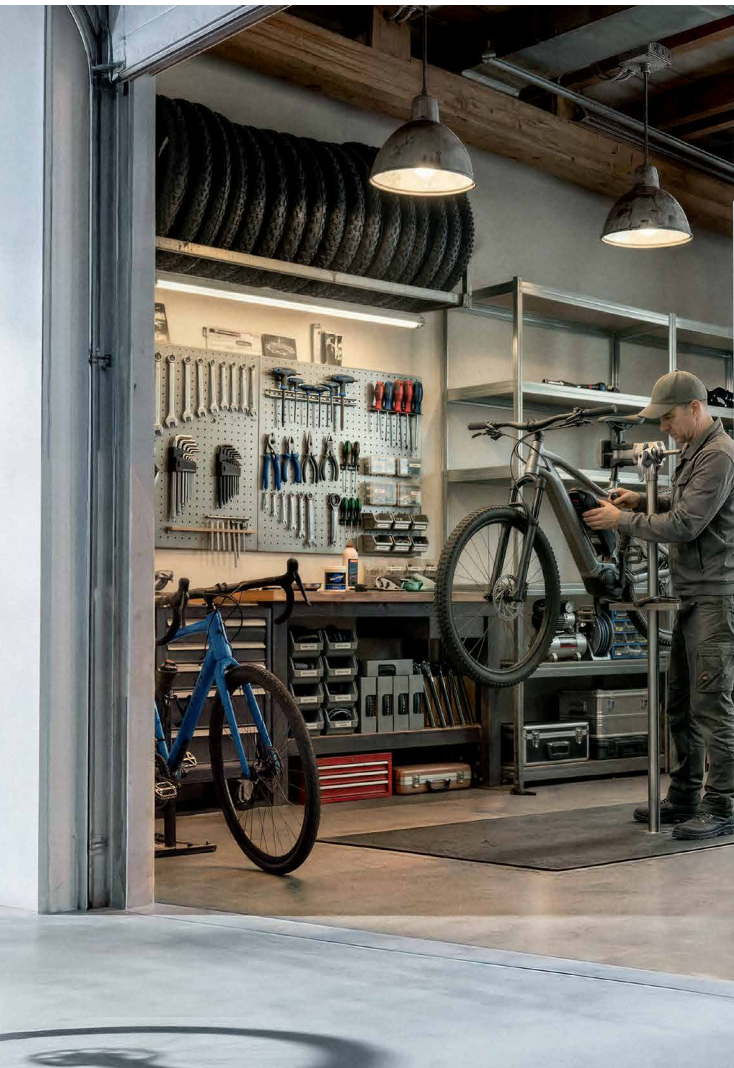
Smart energy that moves your business forward.

For companies, solar energy is a uniquely powerful way to cut costs, strengthen independence, and boost sustainability. With SMA, you don't just generate your own clean electricity – you integrate it into a complete system. Efficient storage, smart e-mobility, heating integration, and intelligent energy management – combined with reliable backup – ensure your operations run uninterrupted, securing your energy supply during outages and enabling greater energy independence. A smarter energy foundation for businesses that want to move ahead.



WHAT YOU CAN EXPECT:

- Efficient solar power generation, storage, and intelligent energy management to permanently reduce operating expenses.
- Uninterrupted power without disrupting your daily operations.
- Future-proof solutions that scales as your business grows.
- Reliable performance for high ROI – even under extreme circumstances.
- Devices and software designed with strong cybersecurity.



WHY SMA?

- ✓ Rely on proven satisfaction: 8 out of 10 customers would choose SMA again.¹
- ✓ Stay protected: with built-in safety and industry-leading cybersecurity.
- ✓ Enjoy worry-free operation: thanks to low failure rates from extensive testing.
- ✓ Trust proven technology: validated by over 1 million systems worldwide.
- ✓ Benefit from decades of experience – with more than 45 years in solar.



WHAT YOU CAN RELY ON:

- High-quality hardware and smart software from one source.
- Precise management that controls energy flows based on real-time data.
- Modular design built to integrate new assets and functions over time.
- Components tested well beyond standard requirements.
- Built-in security features that keep your business and data protected.

¹ Based on an internal SMA customer survey conducted via the SMA Energy App among owners of residential solar systems (participants: over 11,000 in Germany, Belgium, and the Netherlands). Respondents were asked about their intention to choose SMA again ("Would you choose SMA again?").



One solution, many applications.

The modular design allows for easy expansion as business needs grow.



Generate solar power

The **SMA Commercial Energy Solution** helps your company produce low-cost solar power on site and reduce dependency on changing electricity prices.

Proprietary SMA technologies like **SMA ShadeFix** ensure maximum yield even with partial shading, while **Sunny Portal** enables smooth integration, intelligent monitoring and reliable operation in any setup.

+ THE SMA ADVANTAGE

More usable solar energy that can be consumed, stored or fed into the grid creating a new revenue source – scalable from small to large commercial setups.



Store solar power

Keep your solar power available when you need it with SMA – even after sunset.

Modular, durable batteries with smart charging improve energy use, lower costs and scale to your business needs.

+ THE SMA ADVANTAGE

Lower costs and higher independence by using surplus energy more effectively – with peak load shaving and multi-use capabilities built-in.



Charge with solar power

The **SMA Commercial Energy Solution** enables solar-powered fleet charging that lowers running costs and supports sustainability goals.

Scalable hardware with smart load control keeps charging safe, efficient and optimized for any fleet size.

+ THE SMA ADVANTAGE

Cost-saving, low-carbon mobility that boosts your fleet's efficiency by prioritizing surplus solar power for every kilometer.



Heat with solar power

Surplus solar power can support heating, hot water and other thermal needs efficiently and sustainably – and SMA makes it easy.

By connecting heat pumps, thermal storage and smart controls via advanced software, SMA increases self-used renewable energy and cuts reliance on conventional heat sources.

+ THE SMA ADVANTAGE

Cost-efficient heat supply powered by your self-generated solar energy.



Become independent with solar power

Give your business more independence from price fluctuations and unreliable grid conditions. A mix of solar generation, storage and smart management ensures stable and reliable operation – especially when the grid is unavailable.

Backup power ensures uninterrupted operations with a dependable power supply, even during grid outages.

+ THE SMA ADVANTAGE

Reliable energy to support your operations even when the grid can't – with higher yield, lower costs, less effort and self-optimization built-in.



Effortless savings – all year round

The integrated energy management with SMA Energy Maximizer automatically reduces energy costs. Self-learning algorithms and forecast-based control optimize the use of solar power and grid consumption – also taking dynamic tariffs into account.

- ✓ 24/7 automated control that continuously optimizes energy use
- ✓ Works with any provider and fits new or existing systems
- ✓ Increases value through self-consumption, peak load shaving and smart energy use
- ✓ Adjustable backup reserve for greater security
- ✓ Fully automatic operation with minimal user interaction

SMA AT WORK

Just two of the endless success stories SMA is powering around the globe.



Cattle Farm

An investment that is paying off.

More than ten years ago, farmer Johannes Schindele began transforming his farm into a renewable-energy operation. Starting with a PV system and later adding battery storage, he significantly increased his self-consumption and long-term energy independence.

By intelligently combining solar production with storage, Schindele now covers the majority of his energy needs with his own system. Excess electricity is stored and used when required, ensuring reliable power even when the sun isn't shining. His farm now operates with remarkable self-sufficiency – a strong example of how SMA delivers sustainable, dependable results.

Energy consumption p.a.: **175 MWh**

Self-sufficiency quota: **81 %**

Payback time: **≅ 10 years**



CYBERSECURITY

Your Energy. Fully Guarded.

SMA ensures that your business's energy system is protected at every level. Secure device architecture, encrypted communication and certified data handling form a robust foundation that keeps your operations safe and compliant at all times.

- ✓ Built-in security features that go beyond legal requirements
- ✓ Data processed under strict German cybersecurity and privacy standards
- ✓ Regular updates keep systems aligned with current and future regulations
- ✓ Data hosting GDPR – compliant and exclusively in the EU

Tree Nursery

Sustainable irrigation powered by the sun.

In the rural area of Jumilla, Spain, an off-grid energy system was implemented to support a tree nursery's irrigation needs. Due to the high energy demand of pumping systems and the requirement to irrigate at different times of the day, a reliable and independent renewable solution was essential.

The installation combines a 400 kWp photovoltaic system with advanced energy storage and SMA battery inverter technology, ensuring a stable and continuous energy supply. In 2024, the system was commissioned to operate entirely off-grid, enabling the site to achieve full energy autonomy while eliminating the need for diesel generation.

With an annual production potential of approximately 480 MWh of solar energy, the system not only secures irrigation processes but also significantly reduces emissions – avoiding more than 215 tons of CO₂ per year. The project demonstrates how smart integration of solar power and storage can deliver both economic and environmental benefits, with an amortisation period of just four years.

Energy yield p.a.: ~ **480 MWh**

Energy stored in batteries: **100% (off-grid)**

CO₂ savings: ~ **215 t p.a.**



[SMA.de/en](https://www.sma.de/en)

