



Powered by the sun, built for the planet

Mobile energy solutions

Faber

The experts in system solutions

Klaus Faber AG is one of Europe's largest cable distributors and a provider of innovative system solutions for the industrial, infrastructure, construction and communications sectors. Its product portfolio includes cables and wires for power supply, cranes and hoists, mining, telecommunications, and infrastructure/PV.

We offer the ideal solution for green power supply in temporary applications where space is limited.

Sustainable energy – anytime, anywhere

Environmentally friendly energy supply solutions

With renewable energies such as solar, wind and hydro, we are laying the foundations for a sustainable world. These environmentally friendly technologies help to combat climate change and offer a genuine alternative to fossil fuels. Discover our versatile photovoltaic solutions – perfect for projects of any size.



Our experts

Cutting-edge photovoltaic solutions – versatile and efficient

In a world where energy demand is constantly growing, the importance of renewable and sustainable solar energy is coming increasingly into focus. With Faber, photovoltaic systems of any size can be realised – thanks to a comprehensive range of high-quality cables, wires and components. We guarantee not only the perfect selection of system components for maximum safety and longevity of your systems, but also first-class products and services. Put your trust in solar cables that can withstand even the most extreme conditions – for a future-proof energy supply.

Reliable power supply for construction sites, event venues and modular buildings

Compact power from portable solar power systems – anytime, anywhere

Discover the future of energy supply with our portable solar power generators! Thanks to their exceptional user-friendliness, our systems are ideal for temporary use: simply set it up, connect and get started straight away. The plug-and-operate principle makes it possible. Put your trust in quality 'Made in Germany': our robust, compact and high-performance solar systems are built using state-of-the-art technology and sustainable materials. Enjoy emission-free energy whenever and wherever you need it!

SCAN ME!





The flexible, portable solar solution for container roofs

The SolarFrame® is the universal solution for use on construction sites and in temporary residential or office units. An innovative, turnkey solar system that we have developed specifically for container roofs:

- **Solar energy ready for immediate use on any construction site**

User-friendly and requires no configuration – simply plug it in and use solar power without necessarily feeding energy back into the grid.

- **Comprehensive project planning and turnkey delivery**

We provide you with a turnkey solar power system, perfectly tailored to your needs – fully installed, ready for immediate use and seamlessly integrated into your electricity supply.

- **Less grid consumption. Less diesel. Lower costs. Fewer outages.**

Reduces energy consumption of air conditioning systems by minimising heat generation. Durable construction with no running costs.

- **Modular and scalable**

Up to 50 SolarFrames® can be combined in a single system. Additional frames can be easily added using CEE connectors.

- **Robust and low-maintenance**

KTL-coated steel frame for maximum corrosion resistance.

Faber SolarFrame® – efficient solar energy. Everywhere.



Faber SolarFrame®

sustainable energy – maximum flexibility

Two operating modes:

■ On-Grid

Use the SolarFrame® as an integrated addition to your electricity grid. Surplus energy can be fed into the grid or used directly on site. Ideal for sites with a grid connection that wish to reduce their energy costs and generate electricity sustainably.

■ Off-Grid

No mains supply available? No problem! The SolarFrame®, when combined with our battery storage system, provides self-sufficient energy. This means you remain independent at all times – even in remote locations. The battery storage system intelligently controls the diesel generator and the SolarFrame® system, enabling efficient use of the diesel generator and thereby reducing fuel consumption, maintenance costs and noise emissions.

This way, you can decide for yourself whether to use the mains supply as a smart supplement or to operate completely independently.



Keyfacts

- ISO 20'-coated steel frame
- 6,060 x 2,440 x 210 mm
- 375 kg
- From 2.58 kWp of generating capacity
- 3-phase system
- IP 65 | dustproof | waterproof
- Dynamic / EEG-compliant feed-in control
- CEE 32 A / 400 V Input / Output
- 50 Hz nominal frequency
- 24/7 real-time visualisation LAN | WLAN | LTE
- Stackable up to 12 high
- Suitable for crane loading
- Can be connected together
- Decentralised micro-inverter solution
- Other dimensions available on request

Faber SolarGridConnect – the smart energy hub for your SolarFrames®

The heart of your SolarFrame® system

The Faber SolarGridConnect is far more than just a site power distribution unit – it is the control centre for the entire SolarFrame® system. Acting as an intelligent link between the SolarFrames®, it manages the energy and ensures that the solar energy generated is used optimally and distributed safely.

Seamlessly integrable into any construction site infrastructure, the SolarGridConnect combines state-of-the-art energy technology with a practical design – ensuring maximum efficiency, flexibility and safety on every construction site.

Your benefits at a glance:

-  **Powerful and reliable**
NH2 load break switch, 200 A, flexible connection options, 173 kVA / 218 kVA, in accordance with IEC 61439-4.
-  **Smart connectivity**
Mounting points for grid and system metering as well as PV control – for transparent, real-time energy management.
-  **Digital metering concept**
For the first time, detailed load profile measurement is possible directly at the point of use. Consumption data can now be analysed in detail and energy consumption optimised.



Reliable. Flexible. Suitable for use on construction sites.

R2Charger – mobile charging solution for construction sites

Construction sites are becoming increasingly electrified: more vehicles and machinery require charging infrastructure – and conventional power distribution systems quickly reach their limits. The R2Charger offers a safe, robust and standards-compliant solution that is flexible in use and prevents downtime and additional costs.

Efficient charging, without compromise

Charge two electric vehicles simultaneously at up to 22 kW using the 5-metre Type 2 cables – neatly stowed away on practical brackets. Integrated safety features, automatic reset in the event of communication faults and the robust housing ensure reliable operation in all conditions.



Your benefits at a glance

- ✓ **Suitable for construction sites and safe**
specially designed for electric vehicles and construction machinery
- ✓ **Plug and Charge**
just plug it in, charge it and you're done
- ✓ **Cost-effective**
an efficient way to get started with site electrification
- ✓ **Versatile**
adapts seamlessly to any site logistics
- ✓ **Maximum safety**
with RCD protection, circuit protection and DC residual current protection,
compliant with standards and legislation

More than just a storage solution – the smart control system for a reliable energy supply

The battery storage system acts as the smart control centre for your energy system:

It coordinates the PV system and the diesel generator, balances out peak loads and optimises self-consumption. With integrated energy management, emergency power and UPS functions, as well as DC-PV integration, it guarantees an uninterrupted, efficient and future-proof energy supply – even under the most demanding conditions.

All-in-one design for mobile power supply – whether on a construction site, for an infrastructure project, at an event, a festival or a temporary installation



- **Mobile & self-sufficient power supply:** Off-grid power supply, mobile power boosting for limited connections, and three-phase operation even with a single-phase connection
- **Smart energy management:** Efficient generator integration with minimal downtime, centralised energy management with touchscreen controls, and quiet, low-emission operation
- **Scalable energy sources:** Optional integration of PV systems and EV charging infrastructure for maximum flexibility

One system. Maximum flexibility. Mobile energy reimagined.

Energy storage solution with smart energy management – for self-consumption, peak shaving and grid stabilisation

The flexible all-in-one concept is easily scalable: from 15 kW / 30 kWh up to the MW / MWh range.

Keyfacts

- Scalable from 29 kWh to over 300 kWh, power output up to 90 kVA
- Hybrid operation with PV, CHP, wind power, fuel cells or diesel generators
- Direct DC-PV connection for maximum charging efficiency
- Emergency power operation with UPS function and off-grid solution for 100% self-sufficiency
- Dynamic electricity price integration
- Real-time visualisation
- Efficient and safe thanks to LiFePO4 storage technology
- System warranty:
10 years standard, 20 years optional



Off-Grid-Einsatz



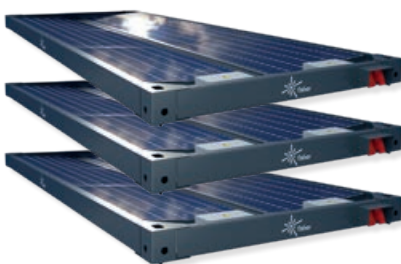
Energy management



Peak load management



Smart software



Typical effects:

- 30–70 % reduction in generator running time
- 20–60 % reduction in diesel consumption
- 30–60 % reduction in CO₂ emissions
- 15–40 % reduction in OPEX

Reduction of:

- Noise
- Maintenance
- Fuel logistics

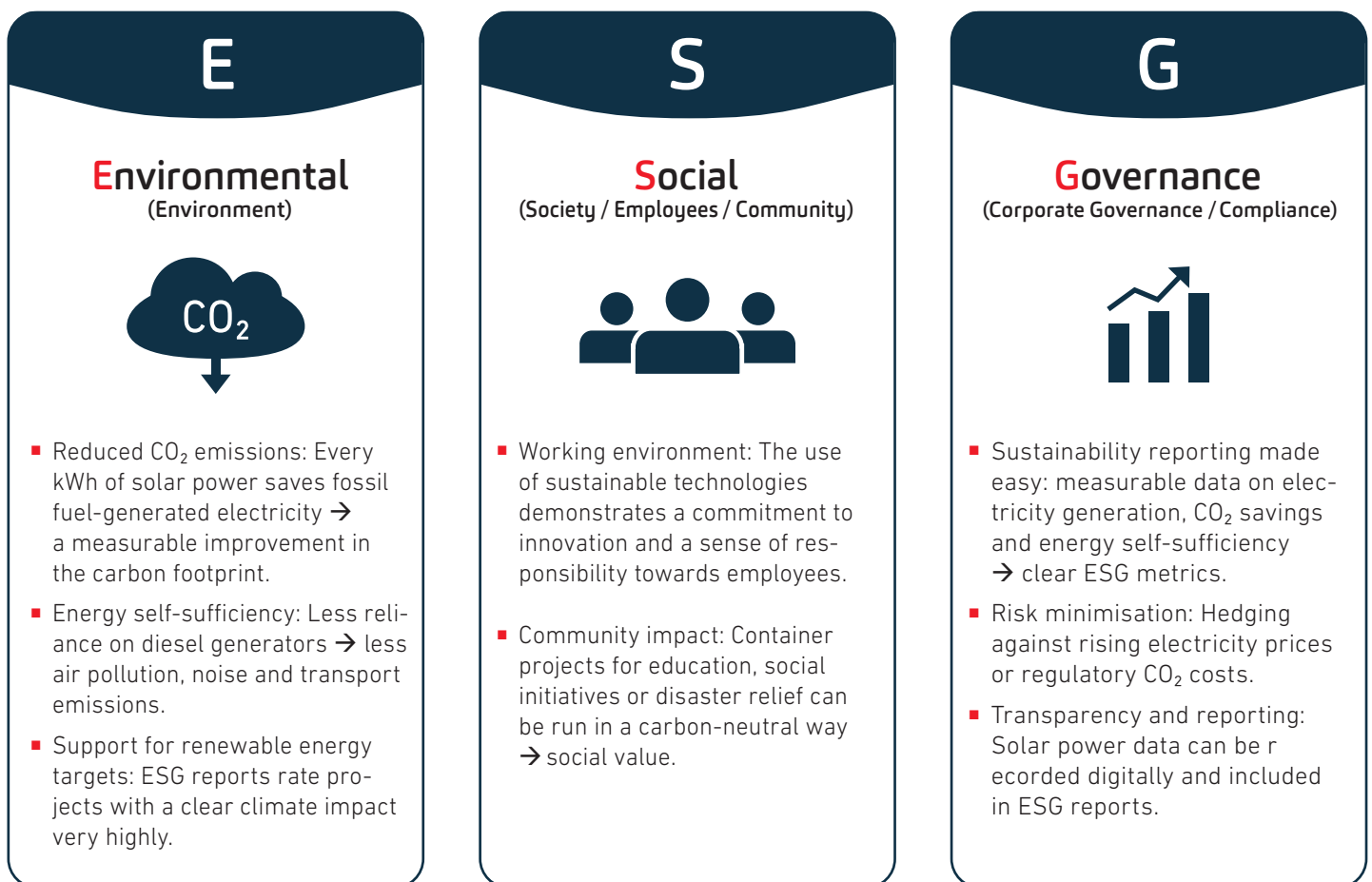


Only facts inspire trust: From estimates to reliable data

Sustainability begins when emissions, resource consumption and impacts become measurable, traceable and comparable. We can help you position your company as a pioneer in sustainability – making this clear to customers, suppliers and employees.

The market doesn't need new infrastructure – it needs an upgrade of the existing one.

Your (ESG-)benefits



Less CO₂. Greater transparency. Clear accountability.

We transform every mobile diesel-powered vehicle into a hybrid, low-emission energy platform.

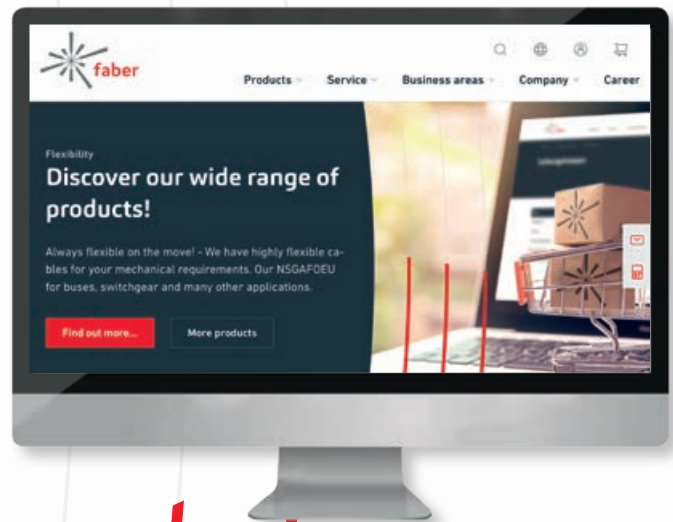
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