

sun2safe



## ENERGY MANAGEMENT SYSTEM

YOUR PERSONAL ENERGY TRANSITION



clean energy  
services and solution

# ENERGY TO THE POINT OF NEED

## SAVE COSTS AND GO GREEN

Renewables are shaping our energy future. As the costs of fossil fuels are increasing, investors and homeowners are more and more interested in finding smart and green energy solutions and reducing their dependency on diesel or the national grid. The sun2safe offers a sustainable power supply providing energy to the point of need without interruptions. A special remote monitoring tool allows constant and close insights into the power production as well as an optimal management of the power consumption. This ensures a predictable energy spend, which is the basis for immediate and long-term cost savings.

The possibility to integrate multiple energy sources makes the sun2safe highly flexible. The sun2safe can be fed by the power of the sun, by the national grid or by other means such as diesel generators. By utilising this efficient hybrid concept a steady and reliable energy supply can be guaranteed – 24 hours a day, 365 days a year, even during cloudy days, the winter season or in cases of blackouts. Surplus produced energy can be stored for later use in the integrated batteries or can be fed into the grid. The sun2safe represents a multifunctional energy management and storage solution for a greener and cleaner future.



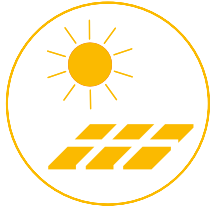
*“The sun2safe creates a new level of self sustaining. The energy management tool allows users to understand and handle their energy consumption better, enabling them to save energy and money. In this way, sun2safe pays back its costs of installation several times over lifetime.”*

*Claudio Alberti,  
Chief Engineer of the sun2safe*



# MULTIPLE ENERGY SUPPLY

## POWER AND BACKUP SOLUTIONS



### PHOTOVOLTAIC

Utilise the power of the sun! The combination of our solar power generation system sun2live with the sun2safe reduces the dependency on diesel and the grid. Electricity generated by the photovoltaic technology guarantees an eco-friendly power supply.



### BATTERY

The sun2safe unit is equipped with high performance batteries that can be charged by the photovoltaic panels, the grid, diesel generators or any other energy sources. Thus, a permanent energy supply without interruptions can be ensured. Excess produced energy will not be lost.



### GRID

In case of cloudy weather and discharged batteries the sun2safe offers the possibility to draw energy from the grid. Vice versa, it can feed the grid with excess energy and thus, generate valuable revenue. The concept of net metering allows solar power customers to get credit for the excess power they feed back into the grid. sun2safe supports this innovative way of fostering private investments in clean energy.



*„The sun2safe is an ideal solution for a sustainable energy supply. Homeowners with solar installation become completely independent from the unreliability of the grid or high-maintenance diesel generators. Top-tier components ensure low maintenance costs. This saves substantial money.“*

*Thomas Beindorf,  
Chief Technical Officer of The meeco Group*

# PRODUCT FEATURES & BENEFITS



- oursun 340 Wp Mono All Black solar modules
- Durable, mono crystalline high-performance-photovoltaics-modules at maximum output

## Eco-friendly energy management and storage



- 7" touch screen display allows a simple parameter consultation
- Remote monitoring via smart phone or pad or PC
- Maximum Power Point Tracking (MPPT) technology for maximum solar energy capture
- Earn valuable net metering revenue for life



Swiss design and  
German engineering

- Providing energy to the point of consumption without interruptions
- Ensuring predictable energy input, as well as immediate and long-term cost savings
- Continuous insight into critical equipment and environmental conditions
- Storage capacity from 10 kWh to 500 kWh

Simple  
installation  
and control

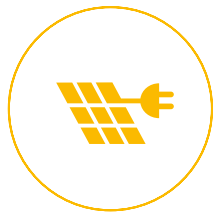


# THE POWER SUPPLY OF THE FUTURE

## INTELLIGENT ENERGY MANAGEMENT

Photovoltaic systems in combination with storage systems offer a sustainable and cost-effective way to generate the required electricity on site and to consume or store it efficiently. An integrated and intelligent online monitoring system, customers always have an exact overview of the generated solar energy, the current energy consumption and the available energy in the storage system.

Energy management systems increase energy efficiency and ensure a steady and reliable energy supply. The applications are diverse:



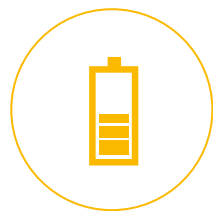
### OPTIMIZED OPERATION OF PV SYSTEMS

With photovoltaic systems, consumers can optimise their energy consumption by themselves. With a connected energy management system such as sun2safe, electricity is consumed when it is most economically available. Combined consumption devices such as battery storage, electric storage heating systems, heat pumps, air conditioning systems, etc. also contribute to the optimization of the consumers' own consumption.



### E-MOBILITY

By using energy management systems such as sun2safe, charging stations for electric cars in multi-family homes can be operated in a grid-stable manner and billed on a customer-specific basis.



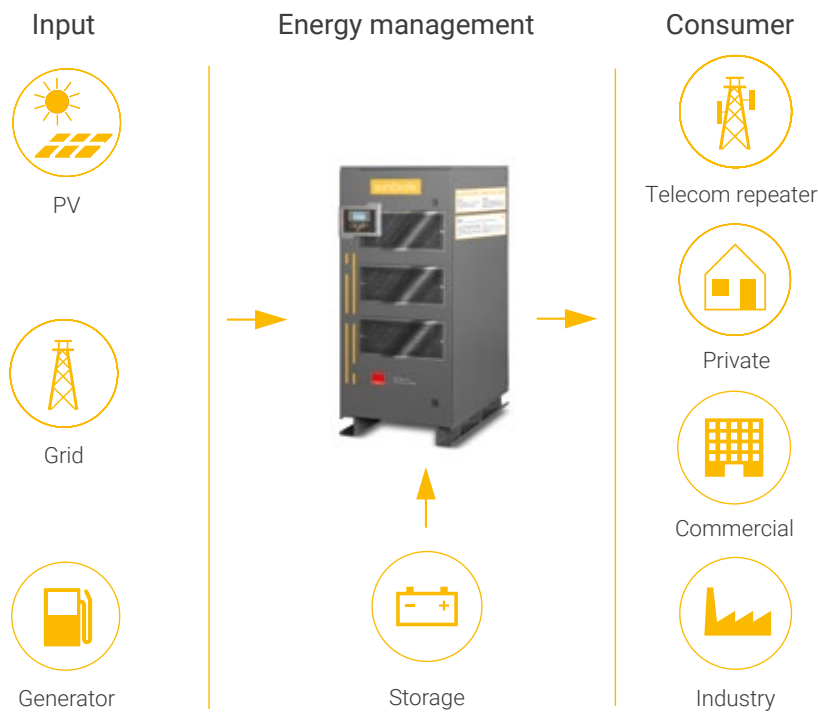
### LOAD MANAGEMENT

Decentralized storage facilities contribute to grid relief and load optimization in the local distribution grid. Peak shaving with local battery storage facilities or the management of battery storage facilities, taking into account weather and irradiation forecasts, reduces peak loads and efficiently uses the energy generated by PV systems.

# INTELLIGENT POWER MANAGEMENT

## TROUBLE-FREE POWER WITHOUT INTERRUPTIONS

Our life is dependent on energy. Preparing food, running computers, televisions and air conditioners or ensuring a permanent lighting – energy is mandatory for every business and nearly every activity. Power outages or grid weaknesses disturb the smooth operation of technical devices and thus, the efficiency of companies as well as the daily routine of private households. meeco created an intelligent energy management solution giving customers the peace of mind running their businesses and homes trouble-free. The sun2safe is an all-in-one system consisting of top-tier batteries to store energy and a converter/inverter to convert the current suitable for all devices and applications. It is easily combinable with multiple energy sources. Through this flexible application and the independent selection of energy solutions the sun2safe is perfectly suitable for various types of customers.



# ALL-IN-ONE SYSTEM TO IMMERSE IN THE SOLAR WORLD

## TAILORMADE SOLUTIONS

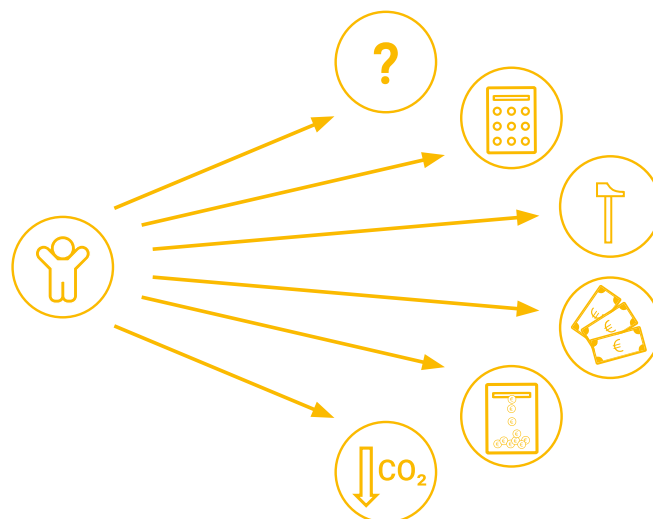
Each house is individual. For this reason, we design and configure the photovoltaic system and the sun2safe energy storage system tailor-made according to your consumption model and your building specifications.

- ✓ Individual size of the sun2safe system for all house types
- ✓ Individual battery power for your special requirements
- ✓ Adaptation of the sun2safe to local power grid conditions
- ✓ Tailor-made solutions for flat roofs/gable roofs/pent roofs/carports etc.

# SHAVE-OFF ENERGY COSTS WITH SUN2SAFE

## ENERGY INDEPENDENCE FROM DAY ONE

1. Lean back: We plan, calculate and install your personal renewable energy system for you.
2. From the energy cost savings you refinance the photovoltaic system and the energy management system sun2safe.
3. After the payback period, the electricity costs are reduced to almost zero for the next decades.
4. Combine independence with climate protection: With sun2safe you contribute to significantly reducing CO<sub>2</sub> emissions on our planet.





## CORE BUSINESS

- Developing and implementing clean energy business strategies and governmental programs.
- Creating and financing bankable renewable energy projects.
- Providing management services to ensure on-going operational and financial success.

## OUR MISSION

### ABOUT The meeco Group

Our mission is to serve the world with clean, sustainable and affordable energy. Being on the forefront of creating and developing highly customised solar power generation and storage solutions, we contribute to a greener and cleaner environment.

By keeping the financial profitability in mind, we consider it our commitment to reduce carbon emissions worldwide. With our long-lasting experience in the field of renewable energy investments we develop flexible and tailor-made clean energy solutions while providing attractive returns on investment for our clients and partners. Via our regional offices and joint venture companies we already delivered 420 MW across three continents.

For more information, please email [support@meeco.net](mailto:support@meeco.net) or visit [sun2safe.meeco.net](http://sun2safe.meeco.net)

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