

SG CONNECT

**YOUR BRIDGE TO ENERGY
SELF-SUFFICIENCY**



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SG CONNECT Benefits



DYNAMIC PRICES

If your energy provider offers dynamic electricity tariffs, SG-Connect allows you to charge the battery and activate devices connected to the SG-Ready interface during favorable time frames. By combining this with the load shifting function, you can efficiently take advantage of price fluctuations on the European spot and day-ahead markets.

(Country-specific function)

Your benefit: Low prices and free* electricity during certain time frames.

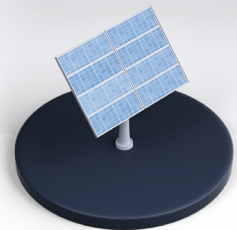


DYNAMIC FEED IN

The SG-Connect platform adjusts the feed-in power of the photovoltaic system based on the grid loads and allows for feeding-in that exceeds the export limit defined by the grid operator. With dynamic feed-in, solar energy can be partially or fully injected into the grid during low grid loads.

(Country-specific function)

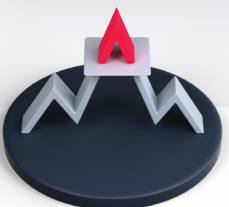
Your benefit: Significant reduction in the amortization time of the system.



SELF CONSUMPTION OPTIMISATION

The most effective energy savings result from increasing self-consumption. By storing energy, the surplus from the photovoltaic system can be stored and used when there is little or no sunlight.

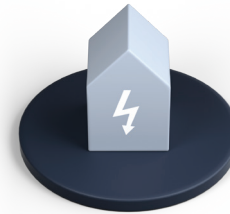
Your benefit: Energy costs as well as grid fees are reduced.



PEAK SHAVING

It optimizes energy consumption from the electricity grid by limiting to a predefined threshold. If the actual consumption exceeds this limit, the difference is compensated by activating the battery.

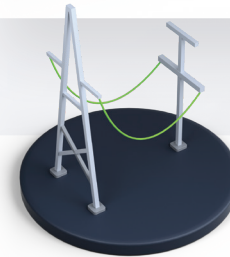
Your benefit: Grid fees are effectively reduced.



BACKUP POWER

In the event of a blackout, the SG-Connect system switches to emergency power supply within 20ms.

Your benefit: Ensuring the continuous functionality of your household appliances.



GRID SERVICES

As an owner of an SG-Connect system, you can actively participate in national system services. The electricity transmission system, for example, is crucial for European independence, economic prosperity, and social security.

(Country-specific function)

Your benefit: A stable electricity grid reduces maintenance costs and increases the competitiveness of the local economy.



LOAD SHIFTING

Energy demand is shifted from peak to off-peak times. With the in-house ESGP platform, time frames with low electricity prices can be specifically utilized.

Your benefit: Energy costs are reduced.



DEMAND RESPONSE

Together with the ESGP platform and the SG-Connect system, we enable you to respond flexibly to requirements for relieving the electricity grid. In the event of an overload caused by the feed-in of unstable energy producers, the request is activated by the transmission system operator and forwarded to the Synaptic unit. This unit activates battery charging and additionally connected SG-Ready devices.

(Country-specific function)

Your benefit: During activation, only reduced grid fees apply.



CARBON FOOTPRINT REDUCTION

Stabilizing the electricity grid and management of production and consumption fluctuations lead to a reduction in backup devices based on conventional energy sources such as diesel or natural gas.

The benefit for all of us: Improved efficiency of photovoltaic systems means a reduction in CO2 emissions and other greenhouse gases.

INTRODUCTION Synaptic

We are pleased to announce our latest breakthrough in technology - a new hardware called "SYNAPTIC." This product is designed to enhance efficiency and improve integration with our existing NGEN platform.



NGEN DEVELOPED
MACHINE CODE



PLUG&PLAY
CONNECTIVITY



SMART METER



LOCAL ENERGY
MANAGEMENT



SELF SUFFICIENCY
AND ENERGY STORAGE
SYSTEMS



INDUSTRIAL
APPLICATIONS



ACCESS TO ENERGY
SPOT MARKET



SMART GRID CONNECT
APP



SMART GRID Connect App!



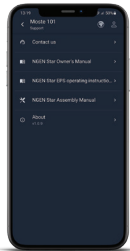
Follow your
electricity
production



Control your
energy sources

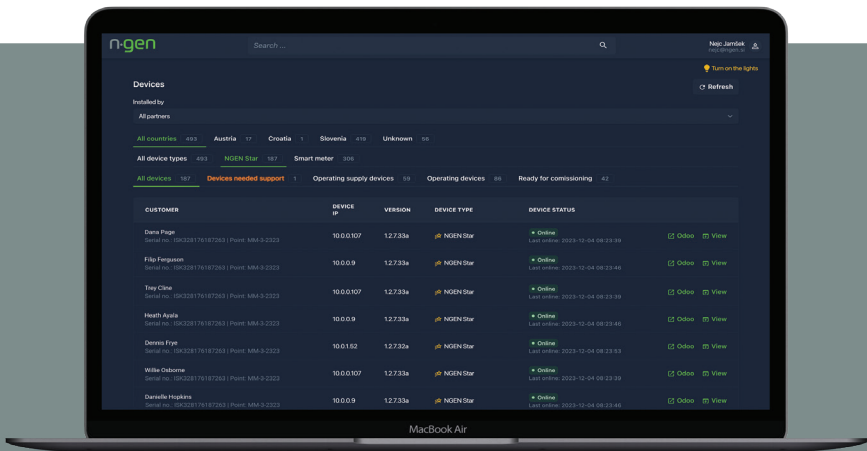


Participate in
virtual groups



Recieve
personalized
notifications

ADVANTAGES Nexus



PLATFORM
FOR SYSTEM
MONITORING



REMOTE
CONTROL



PERFORMANCE
TRACKING



TROUBLE-
SHOOTING



REAL TIME
DATA
TRACKING

CHARGE AND PAY ONLINE

justCHARGE

is a platform that enables comprehensive establishment and management of charging infrastructure and payment system.

- Effortless charging
- Future-ready technology
- Total control
- Flexible pricing
- Company vehicle integration
- Transparent transactions
- Responsive support



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