



YOUR BRIDGE TO ENERGY SELF-SUFFICIENCY



A COMPLETE SOLUTION FOR
SMART ENERGY MANAGEMENT

SGCONNECT

WWW.SGCONNECT.EU



DECENTRALIZED ENERGY SYSTEM IS OUR GOAL



OUR MISSION

„Trust is the foundation of the energy transition. We operate with radical transparency – clear data, honest communication and secure, backdoor-free proprietary technology.“

CEO Roman Bernard

NGEN transforms energy infrastructure into intelligent, active assets through a vertically integrated ecosystem of proprietary hardware and software – built to serve the European Green Deal's goal of a climate-neutral continent by 2050.

01

Vertical integration

Hardware and software under one roof.
Full ownership of results.

02

Industrial precision

Real-time grid response,
multi-country rollouts.

200+ MWh
OPERATED STORAGE

2 GWh+
EUROPEAN PIPELINE

03

Operational integrity

Radical transparency,
EU-resident data.

04

Future-proof solutions

OTA updates and new
features.

12 countries
ACTIVE OPERATIONS

~ 200
EMPLOYEES

Milestones

Our Journey Toward a Sustainable Future

Large-scale expansion
~1.25 GWh currently being implemented across Europe

Launch of the AI-powered **SG Brain** (an update to SG CONNECT) and investments in Portugal and Romania

Integration of the **SG CONNECT** and **ESGP** platforms for managing BESS units and optimizing the power grid

Introduction of the **NGEN Star** *
Introduction of **justCHARGE** **

First large-Scale BESS in Europe
(12,5 MW / 22 MWh)

Founding of **NGEN**
in Žirovnica,
Slovenia

2018

2019

2021

Austria

2023

Germany
& Poland

2024

UK

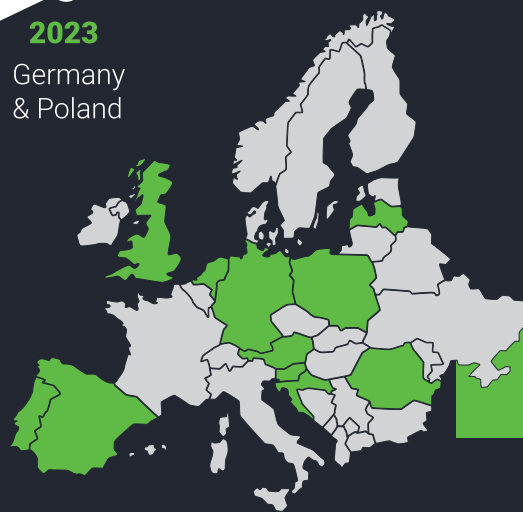
2025

Iberia, Romania
& Croatia

2026

Baltics &
Australia

- * NGEN-Star: Integration of photovoltaic systems, energy storage systems, hybrid inverters and smart meters
- ** justCHARGE: Platform for managing charging infrastructure for electric vehicles and payments



~ 200
employees
in 12 countries

SG Connect - The Heart of The Smart Home

SG Connect is your personal energy assistant. It is an intelligent platform that connects your solar panels, battery storage, and smart home appliances directly to the energy market - automatically making the smartest financial decisions for you in real-time.

Your 24 / 7 energy assistant

SMART ANALYSIS	Monitors production, consumption and market prices every 2 seconds.
COST OPTIMIZATION	Shifts heavy loads (heat pump, EV) to cheapest hours or solar surplus.
UNINTERRUPTED POWER	Switches to backup in under 20 milliseconds - faster than a flicker.
ENERGY SHARING	Share surplus solar across locations via the Virtual Energy Group.

Compatible devices

PV INVERTERS

HEAT PUMPS

EV CHARGERS

AC UNITS

SMART METERS

CORE BENEFITS

Why homeowners choose NGEN

- Reduce energy bills via dynamic pricing & peak leveling
- Black-out protection with sub-20 ms switchover
- Maximized solar self-consumption
- 10-year warranty on core SG Connect components
- Top-tier cybersecurity, EU-based data storage
- OTA firmware updates keep the system up to date



From Cost to **Earnings Advantage.**

Energy-intensive businesses face rising electricity prices, peak loads, grid fees and strict regulation. NGEN turns energy from a cost center into a strategic resource — through one integrated package, one accountable partner.

FINANCIAL

Permanent cost reduction

More self-consumption, less grid import - immediate impact on the energy bill from day one.

FINANCIAL

Peak shaving & grid fees

Cut peak loads automatically - reduce tariff category and demand charges.

OPERATIONS

Real-time transparency

Live visibility of consumption, generation and savings - always available via SG Connect.

SCALE

Multi-site rollout

From a single site to a multi-site fleet - same architecture, same dashboards, same SLAs.

With SMART Industrial Battery Every Watt Counts

NGEN industrial battery storage system is an all-in-one, AC-coupled storage, designed for the most demanding commercial environments.

100% DEPTH OF DISCHARGE

Use full storage capacity without compromising battery lifespan.

USER-FRIENDLY MANAGEMENT

SG Connect App for intuitive control and real-time optimization.

BUILT FOR SAFETY

Advanced liquid cooling and multi-layer preventive safety systems.

PLUG & PLAY

Easy integration into your existing infrastructure with minimal downtime.

MODULAR & SCALABLE

Start with 200 kWh and scale up to 120 units (12 MW / 24 MWh) to grow with your business.

POWERFUL PERFORMANCE

Provides 100 kW AC-Output, 200 kWh AC-Storage capacity and a peak AC-Output of 110 kW.

The Ultimate Energy Intelligence

Maximize ROI, ensure grid stability and unlock new revenue streams.

SG Brain - the **AI Mind** of Every Battery



SG Brain upgrades any NGEN storage asset from a passive system into an active profit center. It analyzes electricity prices, weather forecasts, battery status and consumption – and automatically controls optimal charging and discharging.

Core capabilities

Autonomous optimization

AI selects optimal charge / discharge windows from real-time price and weather signals.

Market participation

Join FCR / aFRR markets and earn revenue by supporting the European grid.

Predictive peak shaving

Forecasts peak loads and caps consumption to a lower tariff category.

Negative price protection

Limits production or stores excess solar when market prices turn negative.

Real-time insights

Monitor all energy flows every 2 seconds in the SG Connect app.

Smart battery control

Keeps the battery at optimal charge level for maximum efficiency.

Inputs & logic

DAY-AHEAD PRICES	Real-time EPEX / nominated exchange
STATE OF CHARGE (SOC)	2-second monitoring
GENERATION FORECAST	Weather-driven, 24–48 h ahead
CONSUMPTION FORECAST	Customer schedule & historical pattern
MONITORING	Grid fees, time-of-use, tariff category
DEGRADATION COSTS	EUR per cycle, lifetime model

justCHARGE - EV Charging, Simple and Profitable

One platform for drivers, businesses and operators. Universal compatibility with any OCPP 1.6 / 2.0.1 charger — no manufacturer lock-in.

FOR THE DRIVER

Scan, plug, and justCHARGE

ACCESS	QR code or NFC at any station - no app required
PAYMENT	Apple Pay, Google Pay or credit card
AUTOCHARGE	Plug in & start automatically (registered users)
DISCOVERY	Real-time map: availability, price, speed
PRICING	Transparent, no preloading, no hidden fees

FOR BUSINESS

Turn parking into profit

PRICING	Different tariffs for public, employees, guests
BILLING	Fully automated - settlement direct to operator
FLEET	Link employee cards for tracking & benefits
COMPATIBILITY	OCPP 1.6 / 2.0.1 - works with any charger
TARIFF STRUCTURE	Real-time usage, revenue, fault alerts



USE CASES

HOTELS

OFFICE PARKS

FLEET DEPOTS

PUBLIC CHARGING

RETAIL

HIGHWAY STOPS

ESGP - the **Brain** of Your Energy Infrastructure

The Energy Smart Grid Platform uses AI to manage energy assets intelligently – reducing operating costs and unlocking new revenue from energy markets. Available as a white-label solution for utilities and operators.

OPTIMIZE INFRASTRUCTURE

Precision control

Monitors PV, BESS and HVAC every 2 seconds with millisecond-precision response.

Full lifecycle support

Turnkey, from engineering and commissioning through to operation and maintenance.

SLASH OPERATIONAL COSTS

Smart peak shaving

Deploys stored energy at peak demand charges to flatten the tariff curve.

Dynamic price arbitrage

Shifts consumption to low-cost windows automatically – no manual intervention.

UNLOCK REVENUE

Grid monetization

Sell excess capacity to ancillary markets via direct platform integration.

Energy communities

Share surplus across multiple locations in real time via the Virtual Energy Group.

THE NGEN ADVANTAGE

Reacts to grid instability in under 20 ms – fast enough to participate in the most demanding ancillary services markets across Europe.

< 20
MILLISECOND
RESPONSE

Stability for a Decentralized World

The global shift toward decentralized energy requires more than hardware — it requires intelligence. NGEN provides the integrated operating system that bridges volatile renewables and a rock-solid grid.

CONTROL	Utility-scale mastery The central nervous system for large-scale storage - syncing hardware with real-time market demand.
STABILITY	Grid stability Synthetic inertia and frequency response - the role traditional power plants used to fill.
RETURNS	Maximum profitability Captures peak value across balancing and ancillary markets through automated trading.
SECURITY	Future-proof Software-defined network built to Europe's strictest technical and regulatory standards.

Driving Energy Solutions Across Europe



End-to-End support for a Hassle-Free Battery Installation

We support the project end-to-end — from inspecting the site, through permitting and design, to commissioning.



STEP 01

Foundation prepared

On-site preparation including the maintenance shaft for easy cabling and future service access.



STEP 02

Crane-lift placement

G-MAX units delivered and lifted directly onto the foundation. Pre-engineered enclosures, no on-site assembly.



STEP 03

Connect & commission

Connection, commissioning and landscaping. The system is producing returns from day one.

Energy as an Asset Class

The energy transition has long been more than a political goal — it is a global investment opportunity. NGEN delivers vertically integrated, exit-ready storage projects with predictable cash flows, multiple revenue streams and fully documented regulatory structures.

> 10%

PROJECT ROI
(DEPENDING ON
THE MODEL)

2 GWh+

PIPELINE ACROSS
EUROPE

200+

MWh OPERATED
STORAGE

< 20 ms

GRID FREQUENCY
RESPONSE

CASH FLOWS

Stable, predictable

Long-term contracts and combined revenue from balancing energy, direct marketing and intraday trading.

PIPELINE

Scalable rollout

Standardized platform enables rapid replication across markets and asset sizes.

EXIT

Exit-ready structure

Clearly documented and transferable for the secondary market — built for asset rotation.

DELIVERY

Turnkey implementation

From planning, permitting and engineering through operation — one accountable partner.

RISK

No third-party dependency

Proprietary trading platform and in-house team - no counterparty risk on the optimization layer.

REPORTING

Transparent KPIs

Real-time monitoring; clear performance data available at any time via SG Connect.

Expanding grid connectivity with smart battery storage

SECTOR	CAPACITY	HARDWARE
EV fleet Charging hub	1 MW / 2 MWh	10x G-MAX + 1.3 MWp PV

The challenge

An EV fleet operator needed to expand charging capacity, but the local grid connection was limited to 50 kW — far below what the fleet required. Upgrading the connection would have been slow and expensive.

The solution

NGEN G-MAX storage combined with a 1.3 MWp PV array effectively boosts available charging power without grid reinforcement.



EV CHARGING PLAZA WITH CO-LOCATED G-MAX STORAGE

RESULT

Power connection available (power output too low)
Additional of 1 pc. G-MAX

NEW TOTAL POWER OUTPUT

8 charging points · 1 MW total charging capacity across the hub.

Regulatory reserve storage with fast ROI

SECTOR

Utility
Balancing
reserve

CAPACITY

22 MW /
44 MWh

HARDWARE

14x TESLA
Megapack XL

Mission

Grid-supporting battery storage providing balancing reserve. The asset participates in ancillary services markets while smoothing renewables output for the local network.



14 × MEGAPACK XL, BALANCING RESERVE DUTY

RESULT

Potential additional return through trading - six-figure amount per month

Provision of control reserve as active contribution to grid stability

All-day availability of electricity from renewable sources



Hybrid solar solution for standard household consumption

SECTOR	CAPACITY	HARDWARE
Residential	20.72 kWh	8.8 kWp PV + NGEN Star



The Challenge

With the old net-metering system in Slovenia gone, standard solar panels aren't enough to combat rising energy bills. A household using 9,000 kWh annually was facing €30,300 in electricity costs over the next decade. They needed a strategic way to dodge expensive grid fees and secure a real return on their investment.

The Solution

To solve this, the family installed an 8.8 kWp NGEN Star hybrid solar system paired with a 20.72 kWh battery. Thanks to a €5,940 state subsidy, their total out-of-pocket cost was €11,919. Combined with NGEN's self-sufficiency package, this setup lets them store their own solar power and use it precisely when grid prices peak.

RESULT

Fast ROI: The entire system pays for itself in just 6 years.

Massive Long-Term Savings: Over 10 years, the family pays only €2,630 for grid electricity, avoiding the projected €30,300—a nearly 88% reduction in energy costs.

Peak Protection: The battery automatically powers the home during the grid's most expensive time block (Block 1).

Future-Proof: The home is permanently shielded from unpredictable energy market spikes and changing tariffs.

Powering the **next generation** across Europe and beyond

200+

EMPLOYEES,
12 COUNTRIES

200+ MWh

OPERATED
STORAGE

2 GWh+

EUROPEAN
PIPELINE



10-15 yr

WARRANTY ON
COMPONENTS

<20 ms

GRID FREQUENCY
RESPONSE

EU-grade

CYBERSECURITY
& DATA

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