



EEG Elements Energy GmbH

Engineering energy independence.







What this presentation covers.

01	The challenge	Why energy is getting more expensive, less reliable and harder to plan
02	Who we are	EEG — an Austrian energy engineering company
03	The product	One platform, three lines — covering every energy need
04	Why JOHANN	What sets JOHANN apart — and how it compares
05	Your value	Direct savings today and strategic value tomorrow
06	Working with EEG	A partner for the full lifecycle — with proof from the field

Energy is getting more expensive, less reliable and harder to plan.

Four pressures are converging on commercial and industrial energy users — and no single off-the-shelf product solves all four. We built JOHANN to address them in one integrated solution.

Rising costs	Volatility	Grid dependency	Seasonal mismatch
 <p>Grid tariffs are climbing over 10% per year, with no sign of reversing.</p>	 <p>Day-ahead and peak price spreads are widening, making budgets unpredictable.</p>	 <p>Supply security is eroding; grid-instability events have roughly doubled since 2022.</p>	 <p>Solar is abundant in summer but scarce in winter — when heating and EV demand peak.</p>

The result: rising, less predictable energy costs and growing exposure to outages. This is the gap EEG was built to close.

Sources: Austrian grid-operator tariff notices 2023–2026 (e.g. +16.5% / +11.9% p.a.); market data. Figures generalised.

An Austrian energy engineering company, built to make independence affordable.

Founded in 2018 in Dobl-Zwaring, Styria — developing, producing, installing and maintaining complete energy systems in-house.

THE COMPANY

- Manufacturer and operator of integrated energy systems, based in Austria
- Founded 2018 to make large-scale energy storage affordable
- Full in-house value chain — development, production, assembly, service
- Powered by deep energy-data analytics and intelligent software

VISION

To set the standard for intelligent energy systems — through advanced data analytics, engineering excellence and scalable solutions.

MISSION

To enable industries and households to operate more sustainably and efficiently — securing a reliable energy future with integrated solutions.

Our platform: JOHANN — an integrated energy system combining short & long-term storage, heating, and cooling in one platform.

One platform, three lines — covering every energy need.

Seven years of insights, advancements, and engineering expertise — perfected in the new X3.

	<u>JOHANN X3 Battery</u>	<u>JOHANN X3 Calor</u>	<u>JOHANN X3 Hydrogen</u>
ROLE	Modular electricity storage	Integrated storage, heating & cooling	Long-term hydrogen energy storage
SYSTEM CONCEPT	Battery storage for intelligent electricity management	Battery storage with a fully integrated heat pump	Battery + heat pump + hydrogen — full multi-energy stack for seasonal balancing
READINESS	Series · market-ready	Series · market-ready	Pilot for X3 · from Q4 2026
SCALING	kWh → MWh	16–32 kW thermal, scalable to MW per project	kW → MW modular
KEY ADVANTAGE	Energy resilience and uninterrupted power through fast-response storage and seamless backup	Maximum self-sufficiency and efficiency through integrated power-to-heat optimization	Long-term energy independence and resilience by storing renewable energy for months, not days

Full specifications: see the JOHANN product leaflets.

One system that does what separate solutions cannot.

A central energy platform that integrates and manages electricity, heating and cooling — with both short-term and long-term storage, engineered and serviced in Austria.

Integrated energy innovation

The only platform combining battery, thermal and reversible seasonal hydrogen storage in one intelligent control system.

Data-driven optimization

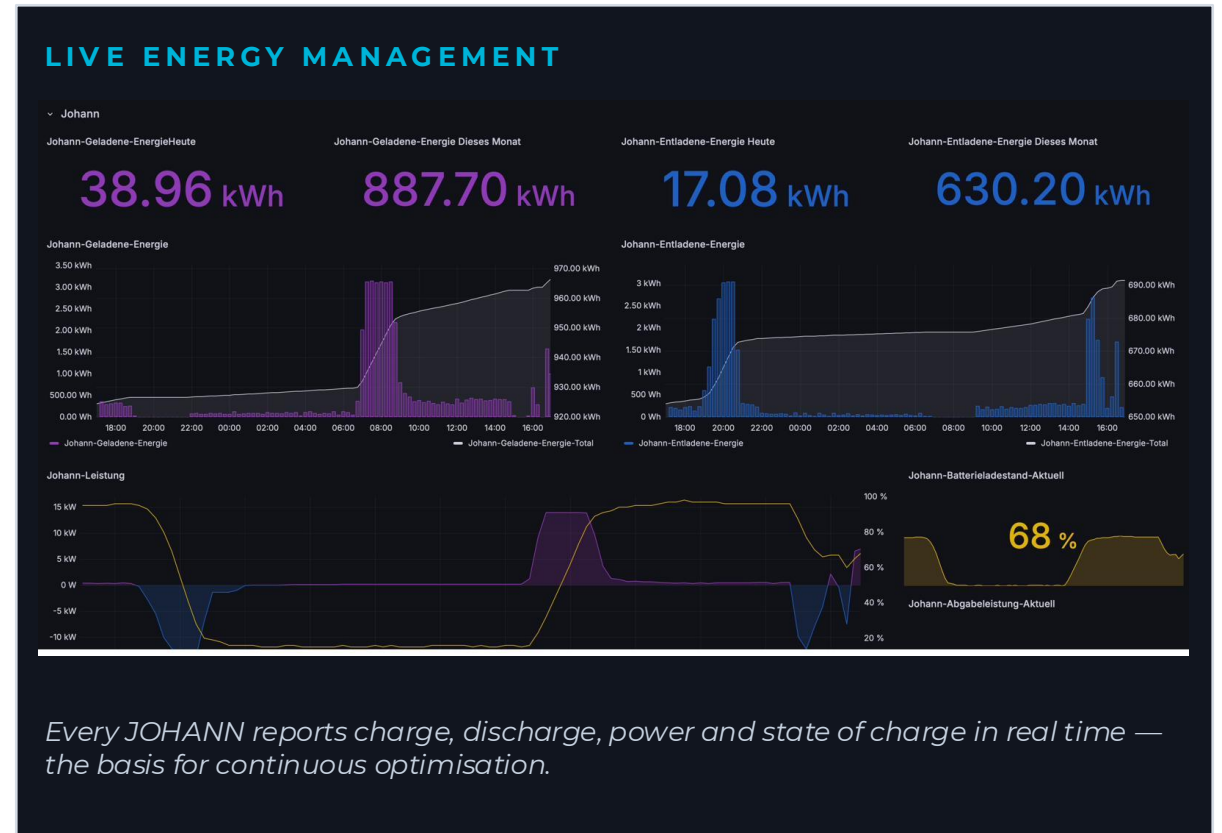
Real-time user-friendly monitoring — turning operating data into measurable savings, greater system transparency and stronger resilience.

Independence & resilience

Island-capable during outages; up to 100% annual autarky with Calor + Hydrogen — reducing grid dependency.

End-to-end local partnership

From initial analysis through manufacturing to long-term servicing, delivered via one Austrian-based partner.



Where the JOHANN platform stands apart.

How JOHANN compares across conventional energy system alternatives.

What sets it apart	JOHANN — integrated platform	Typical alternatives
Fire-safe by design	✓ Certified full-surface fire protection (R90 / EI90 / REI90)	Often no fully integrated certified fire protection
True multi-energy integration	✓ One platform combining battery, heat and seasonal hydrogen storage	Single-function battery systems
Direct manufacturer service	✓ One accountable partner with own AT field service team	Fragmented third-party installation and support
10-yr warranty · 30-yr design life	✓ 10-year performance warranty · 30-year design life with scheduled overhaul	Full system replacement typically after ~10 years
Right-sized for various sites	✓ Precisely scalable in modular expansion steps	Often oversized utility-scale or undersized residential systems
Open data interface	✓ Modbus TCP open interface for data connectivity	Closed cloud ecosystems with vendor dependency

Generalised category comparison.

Lower bills today — a stronger business tomorrow.

JOHANN delivers value on two fronts: direct savings you see on the bill, and strategic value that protects and future-proofs your operation.

DIRECT SAVINGS

Lower energy costs from day one

What you see directly on the bill

- Solar self-use instead of bought power
- Lower grid tariffs & demand charges
- Heating converted from fossil fuels to electricity
- Avoided backup generator & boiler costs
- Funding-eligible configurations — assessed per project (FFG, aws, KPC)

STRATEGIC VALUE

Strength beyond the energy bill

What protects and future-proofs you

- Supply security & operational resilience → [more on p. 9](#)
- CO₂ reduction, ESG compliance & reporting transparency
- Future-proof regulatory readiness
- Up to 100% energy autonomy with Calor + Hydrogen
- A visible commitment to sustainability leadership

Your numbers, proven. Our engineering team calculates the exact savings and payback for your site using in-house tools — so you decide with confidence, not estimates.

Uninterrupted power for critical infrastructure.

When the grid fails, operations cannot. JOHANN keeps critical loads live — on sustainable energy.

- **Stays on through any outage**
Island-capable — critical loads keep running when the grid drops.
- **Instant UPS switchover**
Backup transition < 20 ms — no interruption to sensitive loads.
- **Sustainable, not diesel**
Stored renewable energy: no fuel logistics, no emissions, silent.
- **Beyond backup**
Shaves peaks and lifts PV self-use — delivering value every day.

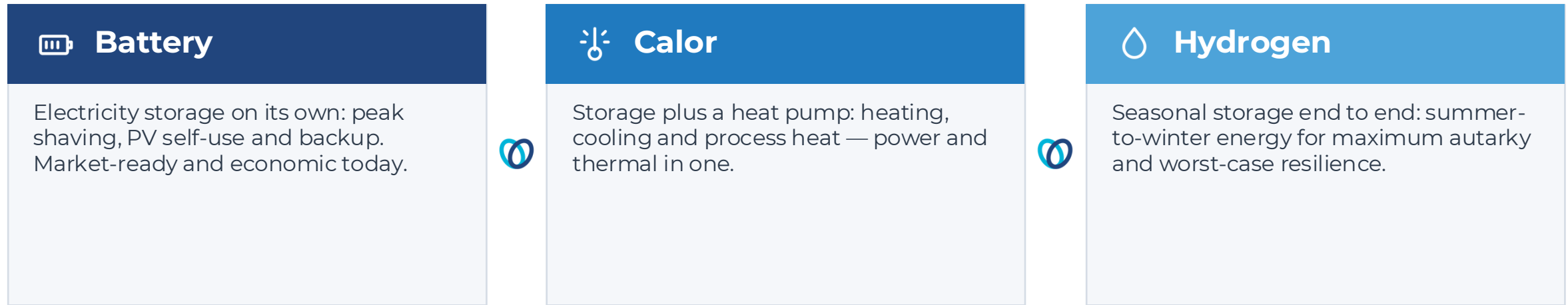
Built for sites that can't go dark.

JOHANN X3 unit



Each line stands alone. Together they multiply value.

Every line works on its own — and combining them unlocks more, so projects can grow into a full energy hub.



1 + 1 + 1 > 3

The sector-coupling multiplier

One way in: capture savings with Battery now, then get the best from the full energy hub by adding Calor and/or Hydrogen. Whatever your priorities, EEG develops the best options for you to choose from.

Five stages, one accountable partner.

Each stage is a reason to choose EEG — from deep engineering to full permitting coverage and decades of servicing.

01

Understand

Your real data first:

a structured intake and in-house data-analytics tools applied to your load profile — not a generic quote.

02

Propose

Engineered options:

standardised variants from maximum efficiency to lowest cost — not one take-it-or-leave-it offer.

03

Plan in detail

Deep engineering upfront:

a detailed plan which stays with you — demonstrating EEG's engineering discipline from the outset.

04

Deliver

Full permitting & build:

permitting coverage, production, delivery and handover — one point of contact.

05

Operate & service

Decades of service:

continuous monitoring, optimisation and a service roadmap — kept running, not sold and forgotten.

Over 150 projects delivered — and operating today.

JOHANN is not a prototype. It runs in daily operation across a growing fleet of real installations in Austria and beyond.

150+

projects realised

NONE

safety-relevant failures recorded
to date

SEGMENTS WE SERVE

- Commercial & retail
- Industry & production
- Public sector & utilities
- Emergency services & defence
- Multi-site & infrastructure



Trusted where it matters: from single sites to multi-site fleets, organisations rely on JOHANN for energy they can count on.

Everything that matters, on one page.

The whole story in brief — the pressures, the platform, the payoff and the proof.

THE CHALLENGE

Four pressures, converging

Rising tariffs, price volatility, eroding grid reliability and seasonal mismatch — pressures that keep building. JOHANN is engineered to tackle them together.

THE PLATFORM

One system, three lines

Battery for storage, Calor to add heat, Hydrogen to ensure seasonal storage — engineered, assembled and serviced in Austria.

YOUR VALUE

Lower bills + a stronger business

Direct savings from peak shaving and PV self-use, with more predictable energy costs — plus resilience and ESG value.

RESILIENCE

Independence when it counts

Island-capable during outages, with backup switchover < 20 ms. Up to 100% annual autarky with Calor + Hydrogen.



150+

projects realised



~8 yrs

in the field



In-house

value chain, AT



Funding-eligible

assessed per project



Let's build your energy independence.

Contact our engineering team — you set the priorities, and we guide you through every step: analyse, propose, refine and deliver.



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