elekeeper 5.0

The Intelligence Behind Your Energy



AI ENERGY MANAGEMENT PLATFORM

The energy system is getting more complex

More devices. More data. More decisions



01

Solar generation changes every day

02

Energy prices fluctuate

03

Battery capacity is limited

04

EV charging adds new loads

05

Grid requirements are becoming more dynamic

The challenge is no longer simply generating or storing energy

It is knowing what to do with it, at the right time

From Energy Management to Energy Intelligence



Traditional EMS:

Monitor → Configure → Execute

elekeeper:

Understand → Predict → Optimise→ Act → Learn

elekeeper transforms energy management from rule-based control into intelligent decision-making

One intelligent platform. Every energy decision

elekeeper connects:

- PV
- Battery
- Load
- EV
- Grid
- Load
- Electricity Price

And turns all those inputs into coordinated decisions

- Manage Energy
- Maximise Value
- Simplify Service



The AI architecture

Five specialised capabilities. One coordinated intelligence layer

01

AI Saving

Predict. Optimise. Save

Intelligently optimises solar, battery and energy consumption based on electricity prices and real-time system conditions

02

AI Keeper

Ask. Understands. Act

Simplifies system interaction, explains AI strategies and enables easy control of supported loads and functions through natural language

03

AI Designer

Design. Analyse. Decide

Simplifies energy system design with intelligent configuration, performance simulation and detailed ROI analysis

04

AI Care

Clear Insights. Greater Confidence

Gain clear insights into system performance and enjoy a more intuitive and confident system management experience

05

AI Edge

Local Intelligence. Lasting Reliability

Keeps AI Saving strategy running locally, even when cloud connectivity is unavailable





AI Saving: where intelligence creates measurable value

AI Saving continuously analyses:

01 PV generation

02 Load consumption

03 Electricity prices

04 Battery SOC

05 Battery capacity

06 Grid import/export constraints

07 EV charging requirements

08 VPP dispatch requirements

Then continuously optimises the system

Every kWh has a better time to be used

Many signals. One continuously improving strategy

How AI Saving Thinks



01 Forecast

PV generation
Load consumption
Electricity prices

02 Understand

Energy demand
Battery availability
Grid constraints
User requirements

03 Optimise

Charging / discharging
Self-consumption
Peak shaving
Grid interaction

04 Execute

Device-level control

05 Re-optimise

Continuously adapt
as conditions change

Powered by mathematical optimisation and rolling optimisation models, AI Saving evaluates multiple energy variables simultaneously to determine the most valuable operating strategy

Real-world intelligence



01 High Solar Generation

Maximise self-consumption and reduce unnecessary grid purchases

02 Low Solar / High Price

Use stored energy when grid electricity becomes expensive

03 EV Connected

Coordinate charging with energy prices, PV availability and household demand

04 Peak Shaving Optimization

Automatically manage battery charging and discharging to cap peak demand and reduce electricity costs

05 Negative Electricity Prices

Adapt battery charging and export behaviour to changing price signals

06 VPP Dispatch

Earn with VPP dispatch and automatically switch to AI Saving when dispatch pauses, ensuring uninterrupted electricity cost optimization

07 Diesel Generator Management

Reduce generator runtime, fuel costs and unnecessary noise. Keep generators running at optimal power to charge batteries, improving fuel efficiency

08 Battery Thermal Management

Heat or cool batteries only when needed, maintaining optimal performance while minimizing energy consumption

EV Charging

elekeeper can coordinate

Solar + Battery + Home Load
+ EV + Electricity Price

To determine

01 When to charge the EV?

02 What charging power is optimal?

03 Where should the energy come from?

And then

Charge when energy is smarter,
not simply when the car is plugged in



Beyond the Home

Virtual Power Plant



One Intelligence Layer
Multiple Energy Scenarios

Residential

PV + Storage + EV Charging
+ Smart Load Control

Commercial & Industrial

PV + Storage + Load Management
+ Energy Cost Optimisation

Virtual Power Plant

Distributed assets + Dynamic
Dispatch + Grid Services

AI Designer

From system design to sales decision

Step 1

Input Address
+ Load Profile

Step 2

AI Recommended
PV · Inverter · Battery

Step 3

Investment · ROI
· Payback Report

Step 4

Show homeowners
the value



Design intelligence that moves naturally toward a decision

AI Care

Diagnose. Check. Maintain

Installation Wiring Check
(On-site)

One-click diagnosis
(Remote)

From installation to after-sales



AI Keeper

Talk to Your Energy System

01 Temporary Plan

02 Circle to Ask

03 Voice to Action

04 Strategy Insight

Ask. Understand. Act









AI Edge

Intelligence Doesn't Stop When the Cloud Does

Cloud

Learn → Analyse → Optimise

AI Edge

Synchronise → Localise → Execute

Energy devices

Continue operating intelligently with AI strategy



Ecosystem



elekeeper doesn't manage isolated devices. It orchestrates the energy ecosystem.

GRID

VPP / dynamic pricing / grid services

SMART HOME

Major smart-home platforms

EV

OCPP-compatible charging infrastructure

HEAT PUMP

SG-Ready devices

Why elekeeper?

01 Intelligence

From monitoring to prediction and optimisation

02 Coordination

PV, battery, load, EV and grid working as one system

03 Value

Optimise energy costs, self-consumption and asset utilisation

04 Service

Give installers better visibility, diagnosis and management tools



SAJ Global Sales Map

100 +

Global Countries

2,000,000 +

Devices

10 GW +

Power

1,000,000 +

Users

10,000 +

Activated AI Saving

3,000 +

Developers



Energy is becoming intelligent

elekeeper is the intelligence that makes it happen

Predict energy

Optimise every asset

Create more value

The intelligence behind your energy

