HENDRIK'S HOME / NETHERLANDS / 2026

Same Battery, Twice the Revenue

How AI Saving schedules a 50 kWh SAJ HS5 EK90 system around changing electricity prices at Hendrik's home in the Netherlands.

THE CHALLENGE

The home can store surplus solar or use it on site. Its grid connection has no feed-in capacity.

THE SOLUTION

elekeeper schedules the battery around solar forecasts, household demand and 15-minute prices.

THE RESULT

The app shows 2.26 times the savings of solar and storage alone on the same hardware.



SAJ HS5 EK90

Why timing mattered for Hendrik

In May, Hendrik added a 50 kWh battery to the solar panels already on his Dutch home. His grid connection did not allow exports, so storing surplus power at midday meant he could use it after sunset. On cloudy days, he still needed grid power at prices that changed every 15 minutes. In June he switched on AI Saving to shift those purchases to the cheaper hours.

SITE CONDITIONS

The meter only runs one way

At 52° north, Hendrik has long summer days, short winter days and a rooftop solar system that cannot feed surplus electricity into the grid.

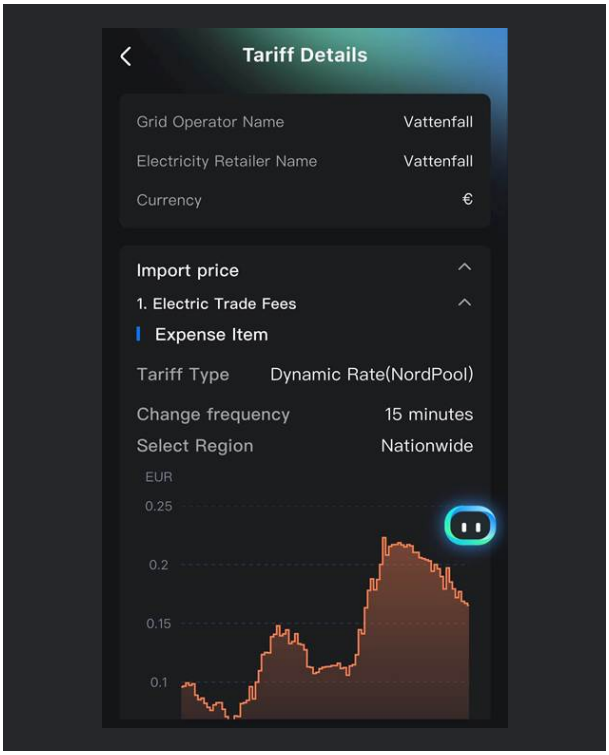
THE SEASONAL GAP

Summer surplus

With nearly 17 hours of daylight in June, the roof can produce more than the household uses. Once the battery fills, the remaining solar energy goes unused.

Short winter days

In December, daylight falls below eight hours. With less solar generation, the household relies more on grid electricity. The time it buys that power matters.



Dynamic tariff in elekeeper

18 NOVEMBER 2026 / NORD POOL NL

€0.065
per kWh · overnight low

€0.22
per kWh · late afternoon

On this day, the import price stayed above €0.20/kWh until almost 10 p.m.

BATTERY OPERATION

How AI Saving plans the battery's day

Every 15 minutes, elekeeper weighs the import price, weather forecast and household demand. Here is how a day can unfold.

OVERNIGHT

Charge at a low price

The battery can buy lower-cost grid power for the morning.

MORNING

Make room for solar

Stored energy supplies the home and frees capacity for rooftop generation.

MIDDAY

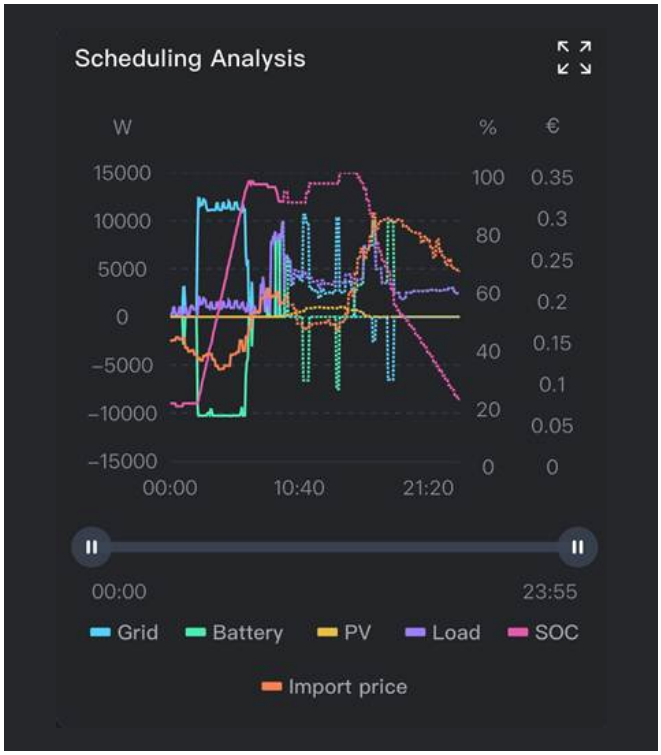
Store surplus solar

As output rises, the battery takes in electricity the home cannot use immediately.

EVENING

Use stored energy

When prices rise, the battery can cover demand and reduce expensive imports.



Scheduling Analysis in elekeeper

ENERGY RECORDED / MAY–NOVEMBER 2026

4,953	5,774	7,162	5,474
kWh	kWh	kWh	kWh
Solar generation	Home consumption	Battery charge	Battery discharge

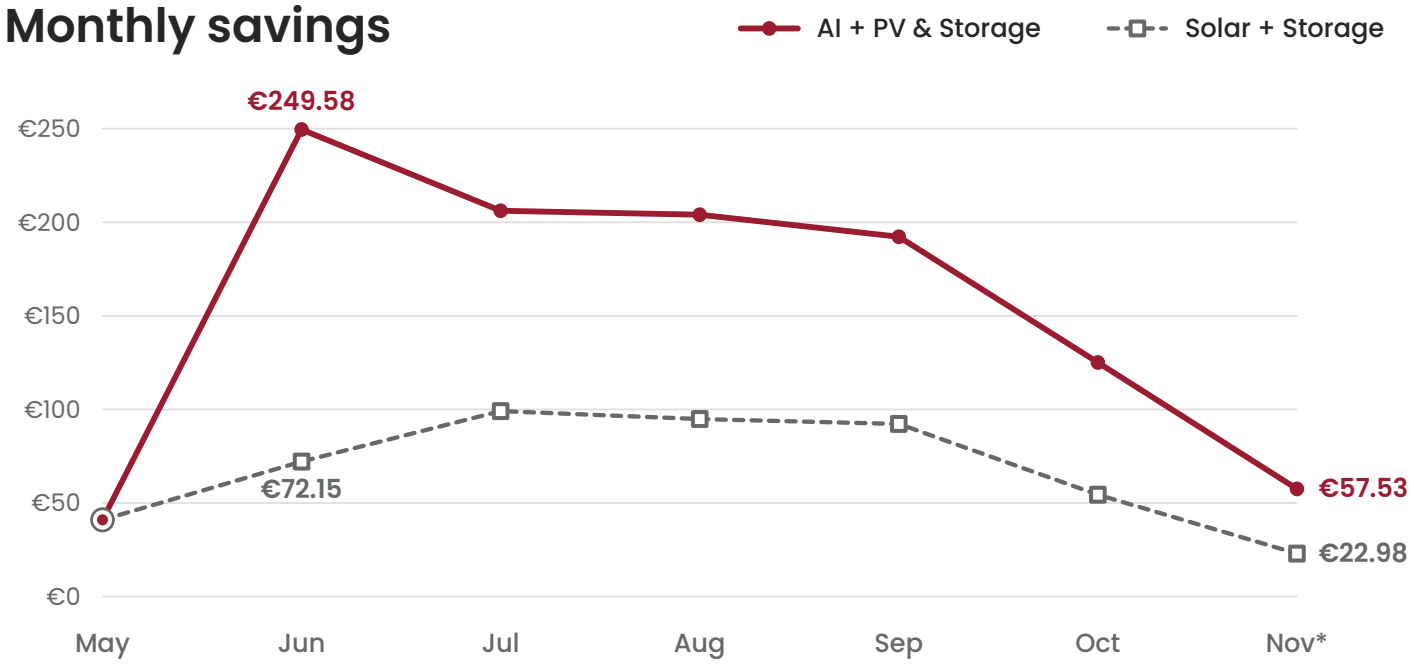
Charging exceeded rooftop generation because the battery also drew power from the grid.

PERFORMANCE / MAY–NOVEMBER 2026

Two curves, one battery

May provides a baseline. Both strategies showed €41.01 before AI Saving was enabled. In June their results began to diverge.

Monthly savings



* November is month to date. The two series are the comparison scenarios in Hendrik's elekeeper dashboard.

JUNE / FIRST MONTH WITH AI

+€177.43

June had the largest gain. The app recorded €249.58 with AI Saving and €72.15 for solar and storage alone.

NOVEMBER / MONTH TO DATE

2.50×

As solar production fell, AI Saving still showed €57.53 in savings against a baseline of €22.98.

CASE RESULTS

What Hendrik sees in elekeeper

The dashboard separates the value of solar and storage from the additional savings it attributes to AI scheduling.



elekeeper revenue dashboard

DASHBOARD COMPARISON

2.26×

the savings with AI Saving enabled

PV + storage	**€476.81**
AI + PV + storage	**€1,075.69**
Additional savings	**+€598.88**

The €598.88 difference represents a 126% increase over the dashboard's solar-and-storage baseline.

SYSTEM AT A GLANCE

Installation	Netherlands · May 2026
System	SAJ HS5 EK90
Hardware	10 kW PV · 10 kW inverter · 50 kWh battery
Software and tariff	elekeeper AI Saving · Nord Pool NL, 15-minute prices

Source: elekeeper dashboard, May–November 2026 to the date of reporting. Savings compare two app-calculated scenarios. Results vary with consumption, weather, tariff and system configuration.