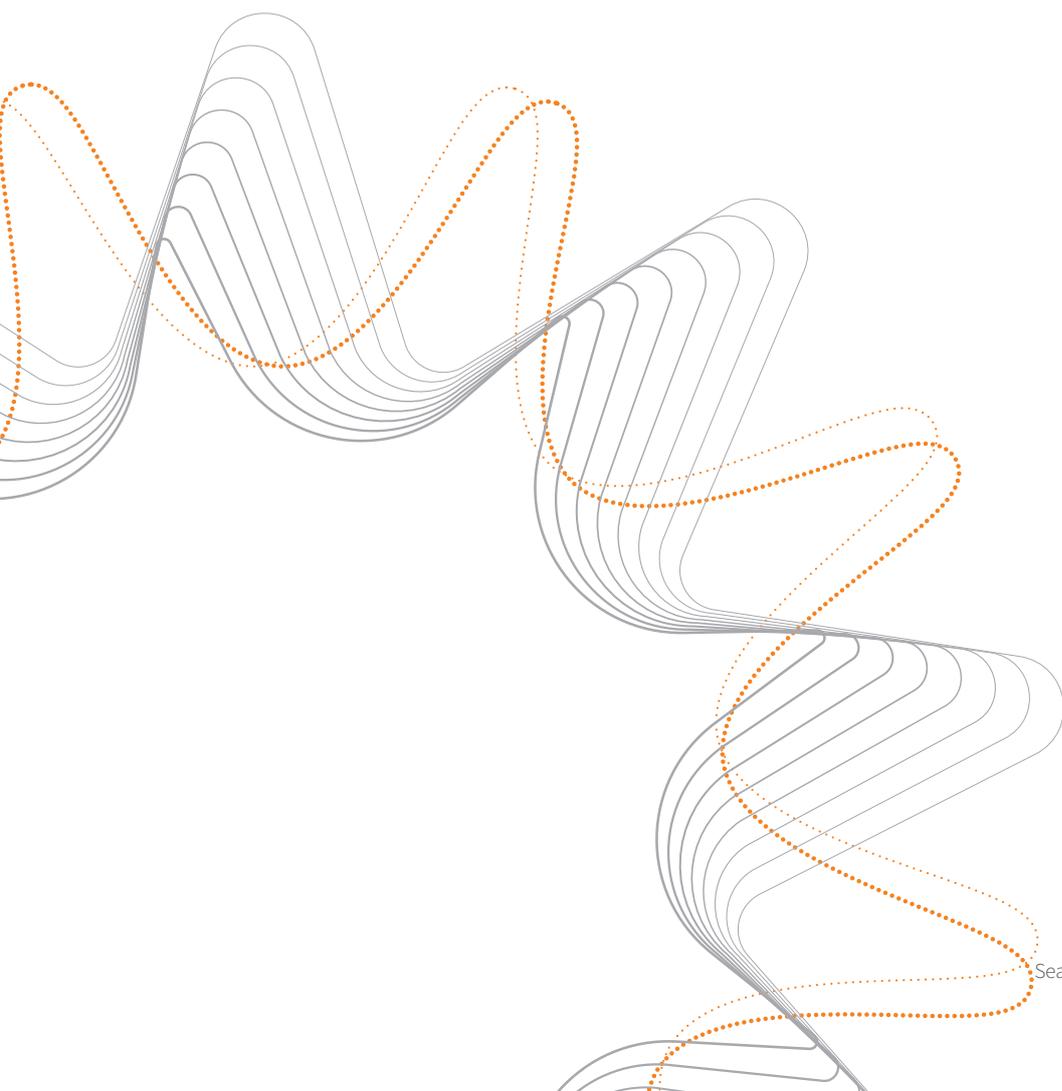


Bankable. Reliable. Local.



EPISODE 77

Lower Energy Bills Made Simple with SolisAI



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>> Background

As household electricity demand continues to rise, energy bills are becoming an increasing concern for families across Europe. From air conditioning in summer to heating in winter, high-power appliances can quickly push monthly costs up — especially during peak tariff periods. With energy prices remaining unpredictable, many households are looking for smarter ways to manage their electricity use without sacrificing comfort or convenience.

This is where intelligent energy management makes a real difference.

>> The Challenge Facing Modern Households

Today's homeowners face a mix of practical and emotional pressures when it comes to energy use:

- **Rising electricity bills**

Seasonal peaks in energy consumption can significantly increase household costs.

- **Anxiety around pricing thresholds**

Tiered or time-based tariffs often lead people to limit usage, sometimes at the expense of comfort.

- **Need for reliable backup power**

Essential appliances such as fridges, lighting and internet connections need to stay online during outages.

- **A desire to live more sustainably**

Many households want to maximise the use of clean energy and reduce their carbon footprint.

- **Balancing all of this manually is difficult. That's why automation and intelligence are key.**

>> How SolisAI Helps

SolisAI is Solis' smart energy management system, built around an integrated solar and energy storage setup. By intelligently scheduling how and when energy is used, SolisAI helps households reduce electricity costs automatically.

Key features include:

- **Intelligent charging and discharging**

The system charges the battery during low-cost, off-peak hours and uses stored energy during expensive peak periods — effectively “store low, use high”.

- **Multiple operating modes**

Users can choose from SolisAI automatic scheduling, profit maximisation, self-consumption priority, or timed scheduling, depending on their goals and tariff structure.

- **Dynamic electricity pricing integration**

SolisAI can work with real-time electricity pricing, automatically optimising energy use as prices change.

- **Remote visual management**

Through the SolisCloud app or web platform, users can monitor energy flows, savings and system performance in real time.

- **Once set up, the system runs automatically, removing the need for constant manual adjustments.**

>> Real-World Results: A Belgian Household Case Study

A good example of SolisAI in action is the home of Belgian user Djordy Huis.



System Setup

- **Hardware:** A 20 kW inverter paired with a 10 kWh battery as part of an integrated PV + energy storage system.
- **Software:** System management via the SolisCloud platform, with SolisAI enabled.
- **How the System Operates.**
- **At night:** The battery charges automatically during off-peak hours when electricity prices are lowest.
- **During the day:** Stored energy is used during peak pricing periods, reducing reliance on expensive grid electricity.
- **On sunny days:** Solar energy is prioritised, with excess generation stored for later use.
- All of this happens automatically, without any user intervention.

SolisAI not switched on:



SolisAI switched on:



The system has been in operation for nearly a year, the system has delivered significant results after implementation:



>> The Results After Nearly One Year

After close to 12 months of operation, the benefits were clear:

- **Lower electricity bills**

Household electricity costs were reduced by around 17.9%, delivering average monthly savings of approximately €21 and annual savings of around €215.

- **Greater peace of mind**

Concerns about crossing pricing thresholds were eliminated, improving overall comfort and confidence in daily energy use.

- **Reliable backup power**

In the event of a grid outage, the system switches automatically to provide several hours of essential power.

- **A smaller carbon footprint**

Greater use of solar energy and off-peak electricity helped reduce overall household emissions.

>> A Smarter Way to Use Energy

SolisAI is more than just a way to save on electricity bills. It's a smarter approach to energy that gives households greater control, confidence and freedom — without adding complexity.

By combining intelligent pricing strategies, automated scheduling and real-time visibility, SolisAI helps every kilowatt-hour work harder. The result is a more economical, reliable and sustainable energy experience for modern homes.

With SolisAI, saving energy becomes effortless.