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SolaX Power

pv magazine webinars

The future of intelligent energy management with SolaX XHub

24 November 2025

10:00 am – 11:00 am | CET, Berlin

9:00 am – 10:00 am | GMT, London

Matthew Lynas

Editor

pv magazine

Rudolf Schell

Senior Training Expert

SolaX Power

Welcome!

pv magazine webinars

Do you have any questions? ❓ 🙋

Send them in via the Q&A tab. 👉 We aim to answer as many as we can today!

You can also let us know of any tech problems there.

We are recording this webinar today. 📹

We'll let you know by email where to find it and the slide deck, so you can re-watch it at your convenience. 👀 💡

X-Hub

1 Core Value

Intelligent, Multi-purpose,
Energy Controller

SOLAX POWER
PARTNER
ONE-STOP SMART MANAGER
Simplifying Life, Maximizing Savings
shelly
SG Ready
9:41
Schedule details
Today,June 4th
14:30 update
00:00
Standby
15min
Down
00:15
Off- grid
135min
Down
03:30
Discharging
15min
Down
06:15
AI
Standby
15min
In progress
12:30
Self-use
15min
Pending
16:30
Charging
15min
Pending
20:15
Standby
15min
Pending
20:15
Charging
Chandelier
Floor lamp
EVC
XHub
SOLAX

SOLAX POWER
BVB 09
PARTNER
SMART ENERGY MAXIMUM PROFIT
SolaX end-to-end smart PV-ESS-EV-HP ecosystem maximizes energy efficiency and ROI.
EARN
50+%
SOLAX
XHub

ENERGY DISPATCH - GRID FRIENDLY CONTROL

- Three-phase Unbalance*
- Support § 14a EnWG & § 9 EEG
- OpenADR , IEEE 2030.5
- SunSpec
- Ripple Control
- DRM

XHub complies with key international regulations and supports VPP, avoiding risks while creating additional revenue.

EASY INSTALLATION: ALL-IN-ONE

- Replace the smart meter
- Supports BOTH Direct Connection and CT
- One for Grid connection point, one for third party inverter

- 7Pitch rack installation compatible with the distribution box
- Support LAN or WiFi
- Magnetic WiFi Antenna
- Bluetooth 5.1 for easy network configuration
- Seamless Upgrade with Meter's RS485

2

Product Introduction

SolaX Unified Energy Brain,
Edge-cloud Synergy for Smarter Energy

WHAT CAN XHUB DO?

01 Hitting user pain points

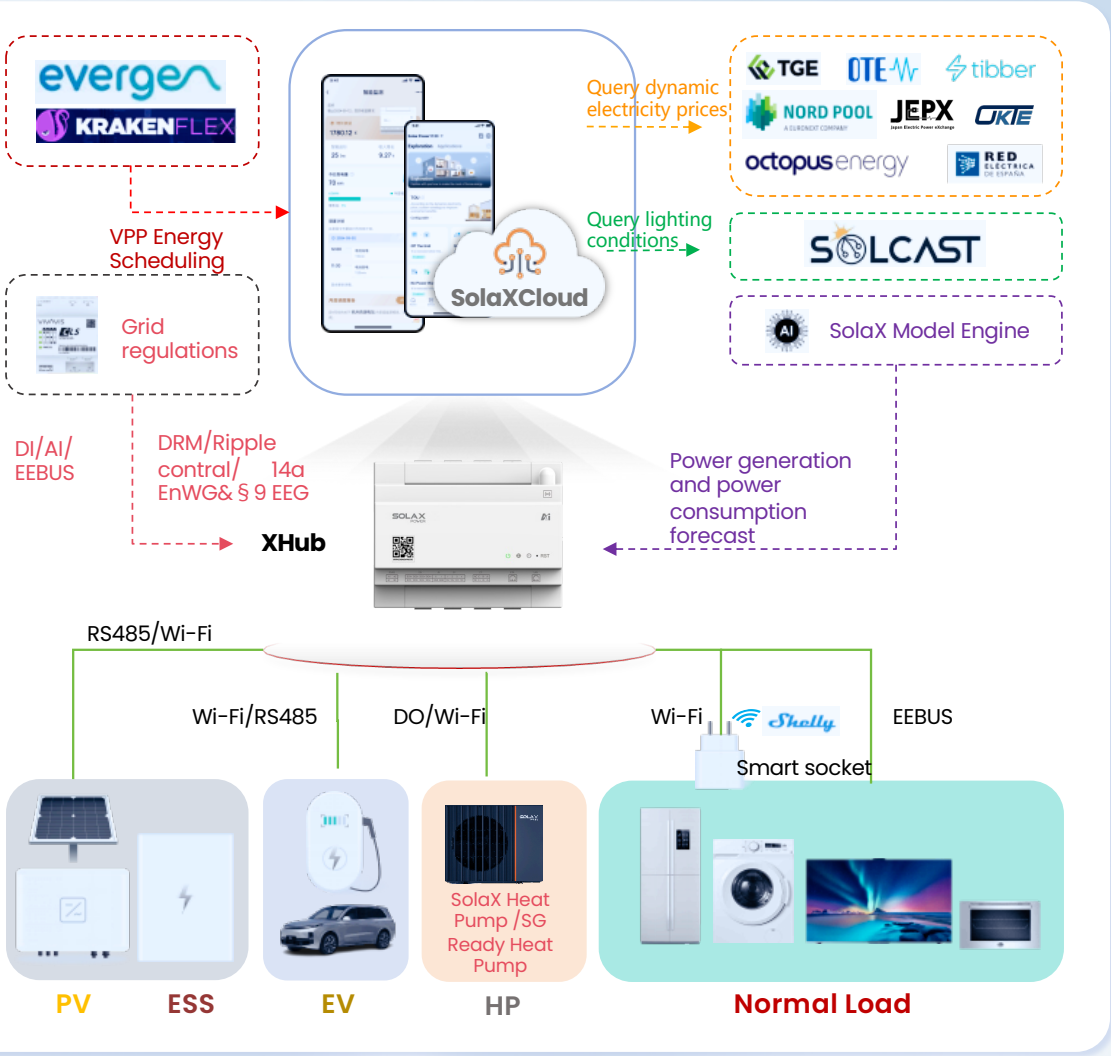
- by **50%+** compared with self-generation and self-consumption
- **one-stop management** of PV-ESS-EV-HP and other loads
- **Grid-Ready:** Supports Ripple Control, DRM, §14a EnWG, § 9 EEG
- **Fully Customizable** to Fit Your Needs

02 Install and enjoy

- **Simple installation:** DIN-rail installation, one-click Bluetooth network configuration, and fast cloud access
- **Automatic identification:** One-click scanning makes it easy to bring home energy devices under control

03 Visual management (APP&WEB)

- **24/7 Smart Butler:** AI updates the scheduling schedule in real time based on dynamic electricity prices, weather, etc.
- **Statistics and forecasts**: Real-time updates of AI-generated revenue, power generation, and power consumption forecast data
- **Monthly Report**: Automatically generate home energy reports and user behavior recommendations

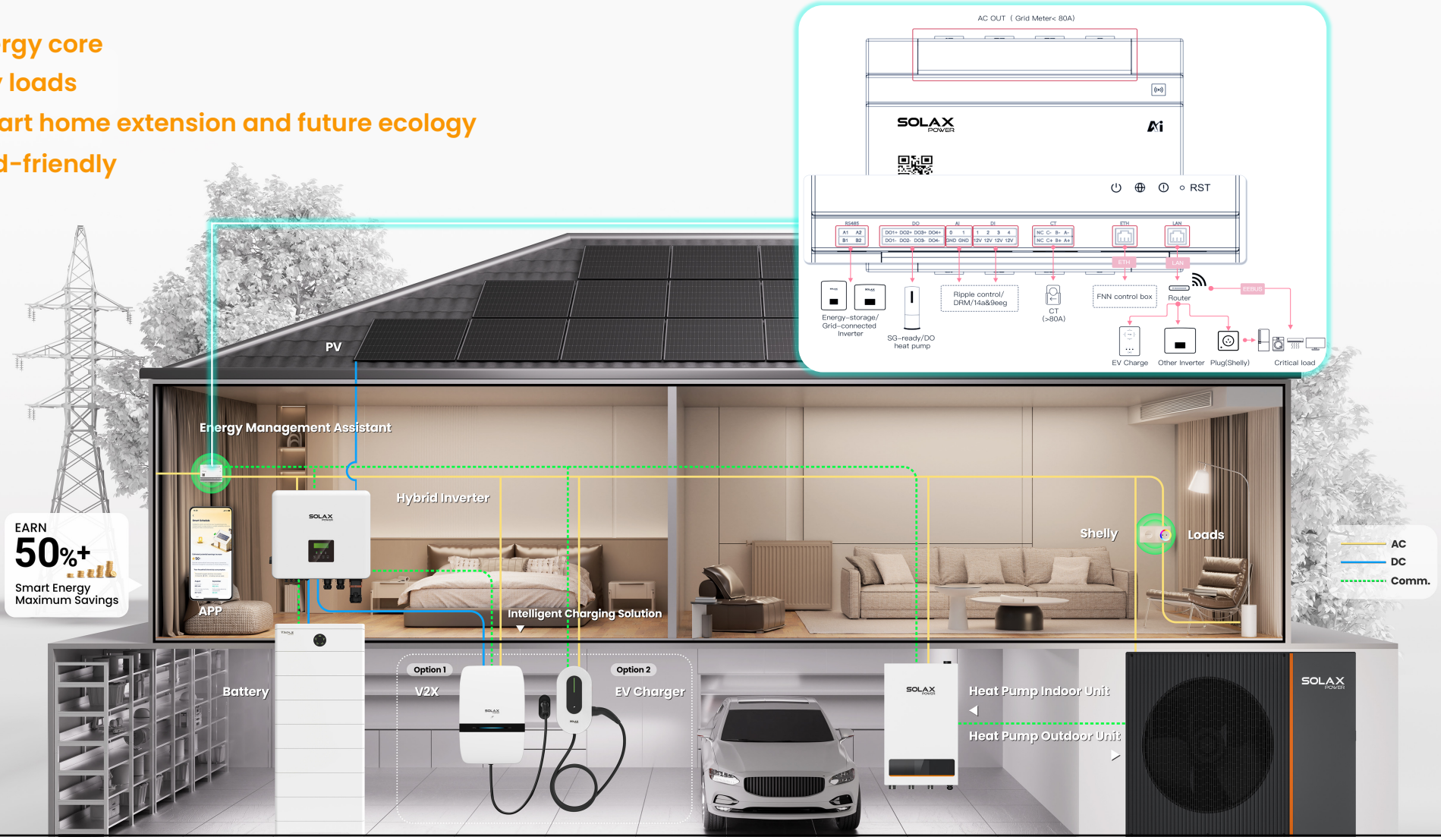


2-1 Product Introduction

Energy Management

ENERGY MANAGEMENT - ENERGY HUB, AGGREGATE MANAGEMENT

- Energy core
- Key loads
- Smart home extension and future ecology
- Grid-friendly



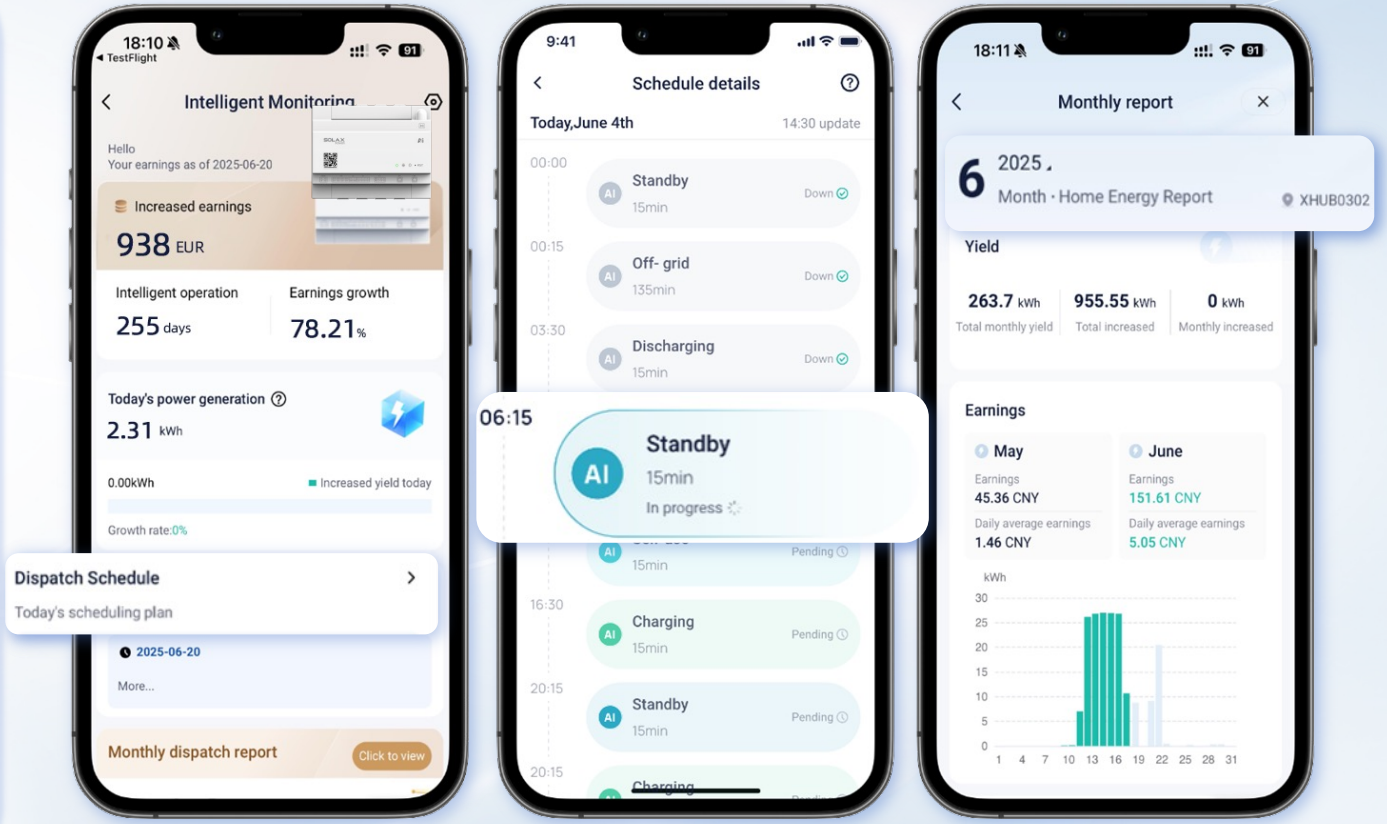
ENERGY MANAGEMENT - ONE-STOP MANAGEMENT OF PV, ESS, EV, HP AND OTHER USE, VISIBLE, MANAGEABLE AND CONTROLLABLE

One-stop management

- One-stop management
- Card-style, one-screen display

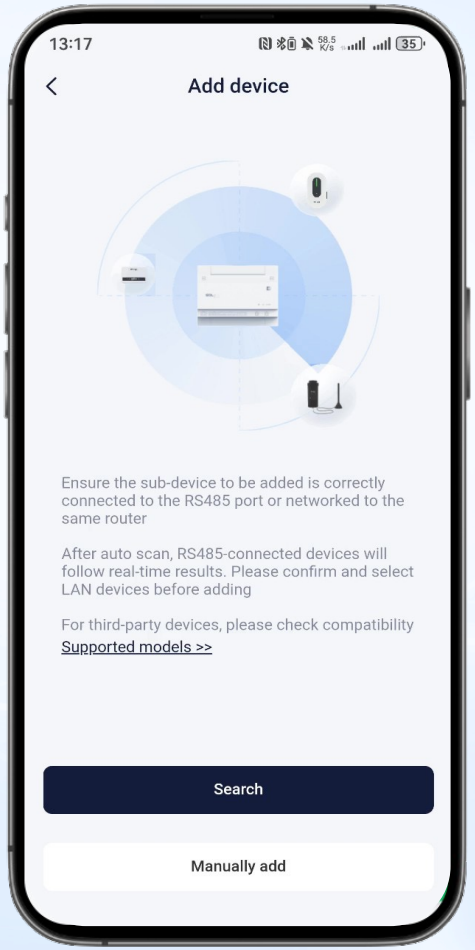
Daily monitoring and statistics after AI is enabled

Daily monitoring and statistics



- Daily monitoring and statistics after AI is enabled: increased revenue , increased energy , and schedule
- Updates the full-day AI schedule every 15 minutes.
- Monthly report is automatically

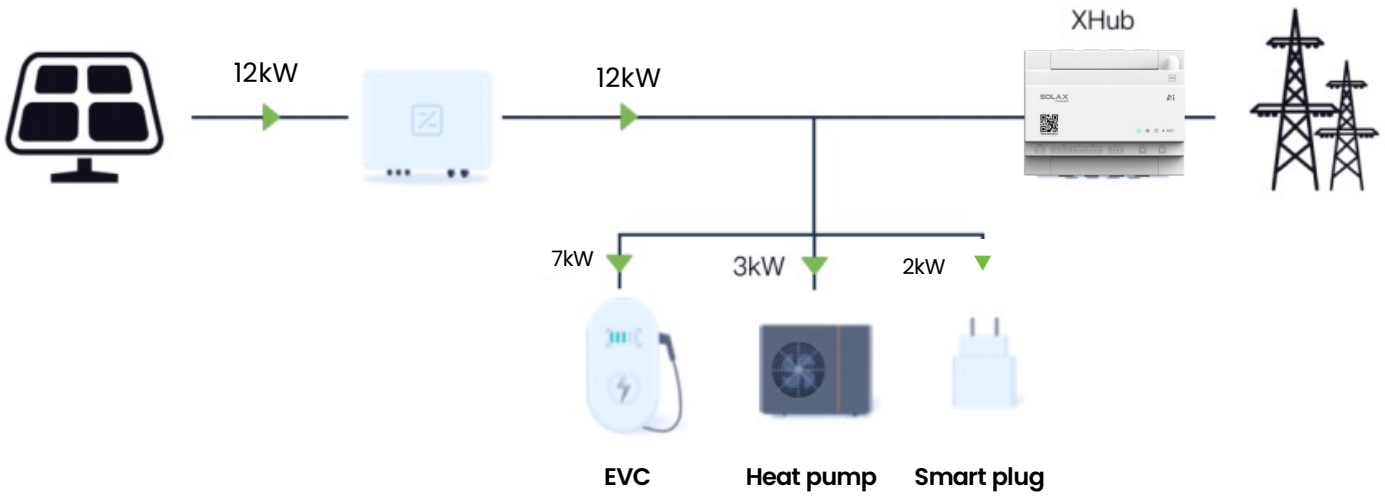
SMART ENERGY MANAGEMENT - LOAD SIDE- ONE-CLICK SCAN + CONTROLLABLE LOAD PRIORITY



System sub-device management

- One-click scanning of sub-devices, automatic addition
- Drag and drop to complete the load priority setting

SMART ENERGY MANAGEMENT - LOAD SIDE- ONE-CLICK SCAN + CONTROLLABLE LOAD PRIORITY



Remaining green power >>> Charging pile / other controllable load starting power

Green electricity distribution is carried out according to user-set priorities to maximize the use of green electricity and reduce electricity costs

Note: XHub will only perform overall control of the controllable load

X-ENERGY MANAGEMENT: 8 WORK MODE

One-stop management

Standby

Self Use

Storage First

Export First

Forced Discharge

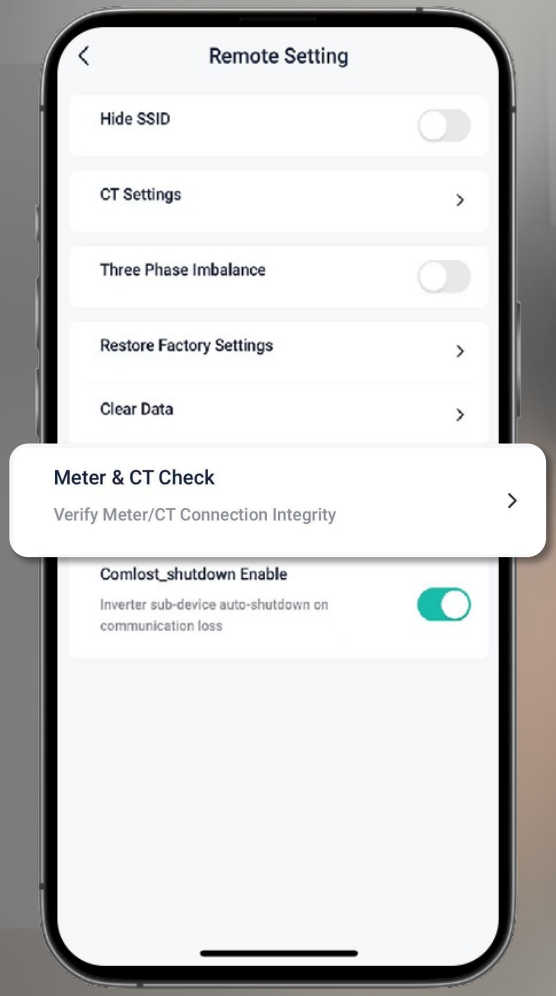
Forced Charge

Full Import

KEY FEATURES-METER & CT CHECK

To address common on-site issues such as polarity reversal and incorrect phase sequence, the system can detect and identify these problems based on various feedback signals.

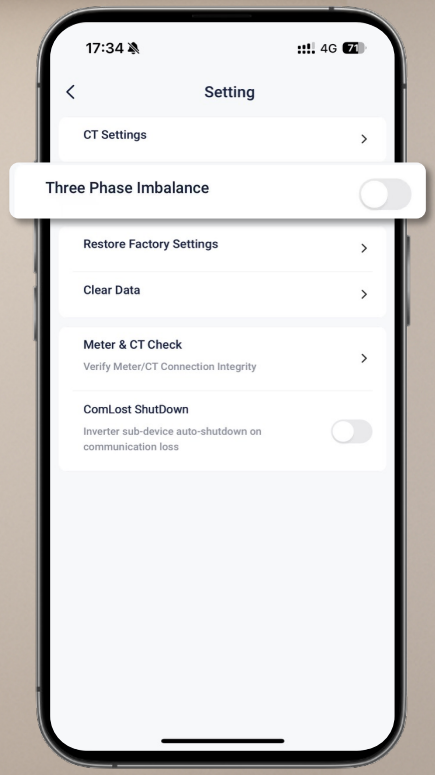
When using the internal-CT function, it can automatically adapt without the need for manual rewiring.



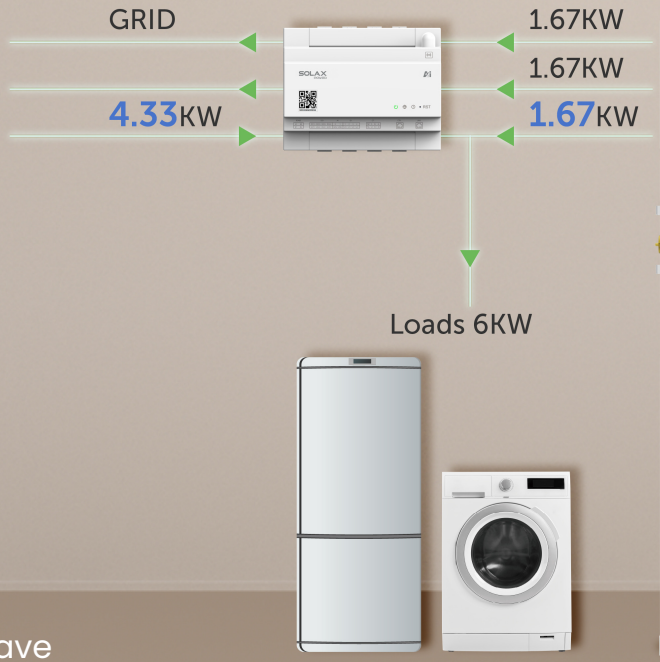
ENERGY MANAGEMENT: INV SIDE- SYSTEM-LEVEL THREE-PHASE IMBALANCE

SOLAX POWER

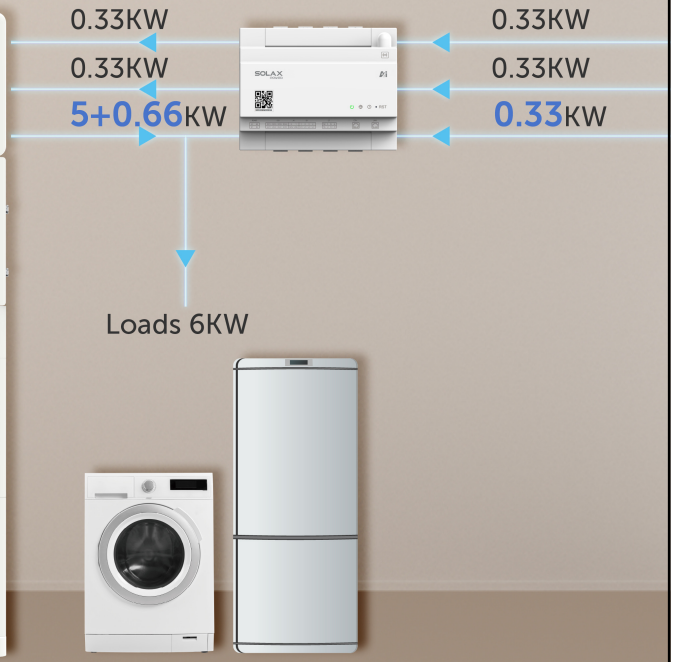
Three phase Unbalance.



THREE PHASE
BALANCED
OUTPUT SUPPORTED



THREE PHASE
UNBALANCED
OUTPUT SUPPORTED



To improve the utilization rate of photovoltaicpower generation and save more electricity

ONE-STOP MANAGEMENT—INTEGRATED PV, STORAGE, CHARGING, AND HEATING SOLUTION

Type	Mode	Status
Storage Inverter	X1-HYBRID-G4	coming soon
	X3-HYBRID-G4	released
	X1-IES	released
	X3-IES	released
	X3-ULTRA	coming soon
	X3-HYB-G4 PRO	released
	X1-VAST	coming soon
	X3-IES-P	coming soon
On grid Inverter	X1-SMART G2	coming soon
	X1-MINI G4	
	X1-BOOST G4	
	X3-PRO G2	released
	X3-MIC G2	
EVC	X1/X3-HAC、C1-HAC、A1-HAC	released
Heat Pump	STU-290	released
Plug (Shelly)	Shelly Plus Plug S	released
	Shelly Plug S MTR GEN3(White)	
	Shelly Plug S MTR GEN3(Black)	
	Shelly Outdoor Plug S GEN3	
	Shelly Plus Plug UK	

2-2 Product Introduction

Energy Dispatch

THE PROBLEM OF TRADITIONAL ENERGY DISPATCH

1 Influencing Factors

| Environmental changes

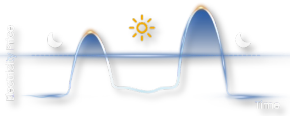
Changes in ambient light, temperature, etc., lead to changes in PV generation

| Load changes

The daily load power curve varies, es

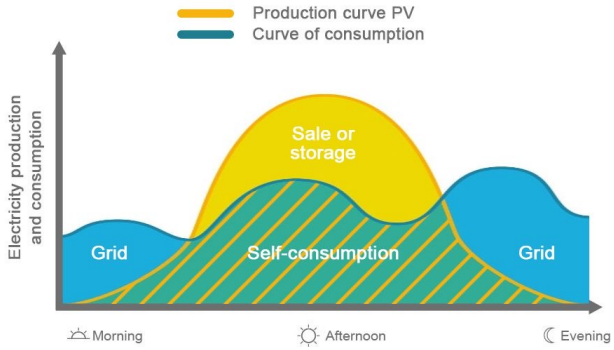
| Electricity price changes

The electricity price changes frequently



2 Traditional solutions

Self-consumption



Time of Use

3 Problems

Rigid Constraints

Fixed logic fails to adapt to changing environment, load, or prices

---

Slow Response

Delayed adjustments cause missed opportunities and revenue loss

---

Manual Bottlenecks

Preset rules block agile, automated optimization.

Limited Revenue

Static models can't capture dynamic market gains

SMART SCHEDULE EDGE-CLOUD SYNERGY, FASTER AND MORE ACCURATE DECISIONS

SOLAX POWER

Faster and More Accurate Decisions **millisecond-level** response. **>96%** forecast accuracy

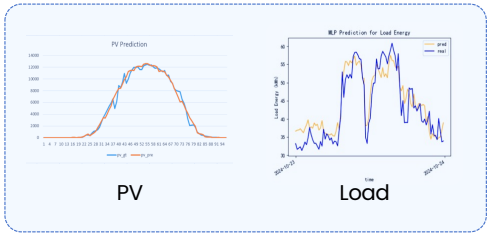
Cloud Advantage

TGE · OTE · tibber · NORD POOL · JEPX · OKTE · octopus energy · RED ELÉCTRICA DE ESPAÑA

Integrate

SolaXCloud

>96%
forecast accuracy



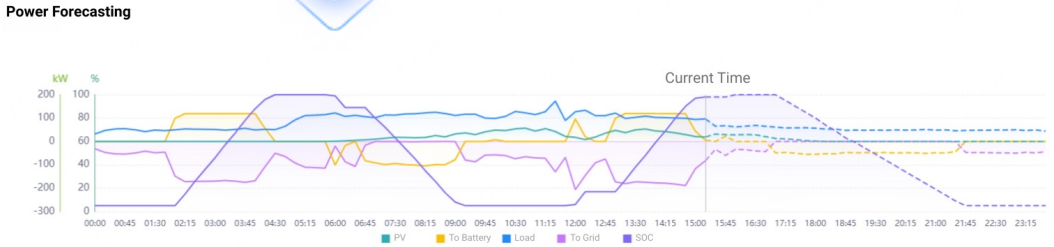
Cloud-edge collaboration

Edge Advantage

- Local data synchronization and scheduling optimization with millisecond-level response.
- On-device AI computing, immune to network instability and latency.

Real-time

Strategy output



Strategy optimization based on electricity pricing

ENERGY SCHEDULING - SMART SCHEDULE CLOUD-EDGE COLLABORATION, 24/7 SMART HOUSEKEEPER

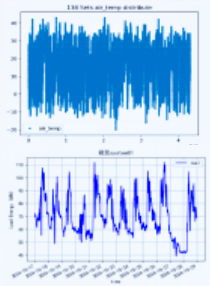
SOLAX POWER

cloud

Big data deep learning model

Basic data input
- **Power station photovoltaic storage parameters**
- Historical operation data
- Real-time operation data
- Weather data such as irradiance and temperature

Feature extraction



Model Training

Photovoltaic, load forecast output

Dynamic electricity prices

TGE · NORD POOL · octopus energy · tibber · OTE · JEPX · RED ELÉCTRICA DE ESPAÑA · OKTE

Hourly sync forecast data

synchronization of electricity price data

side

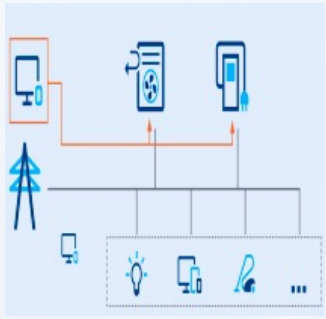
Local intelligent scheduling algorithm model

- Prediction results analysis
- Optimal solution calculate
- Automatic mathematical modeling
- Optimal strategy Output

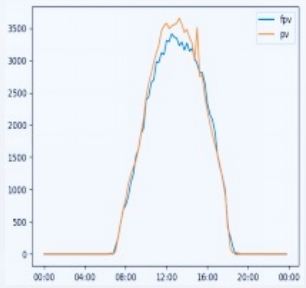
Strategy Output

Intelligent dynamic scheduling plan
- Selling electricity at the right time
- Buy electricity at the right time
- Emergency power supply
- Power distribution on demand

Controllable load automatic control



Comparison of program benefits



Program Overview

- **15-** Minutes PV forecast
- **15-** Minutes load power consumption forecast
- **15-**Minutes Optimal Strategy Generation

Solution Advantages

96% Accuracy

in PV & Load Forecasting—Powered by Global Data and Deep Learning

50%+ Revenue Uplift

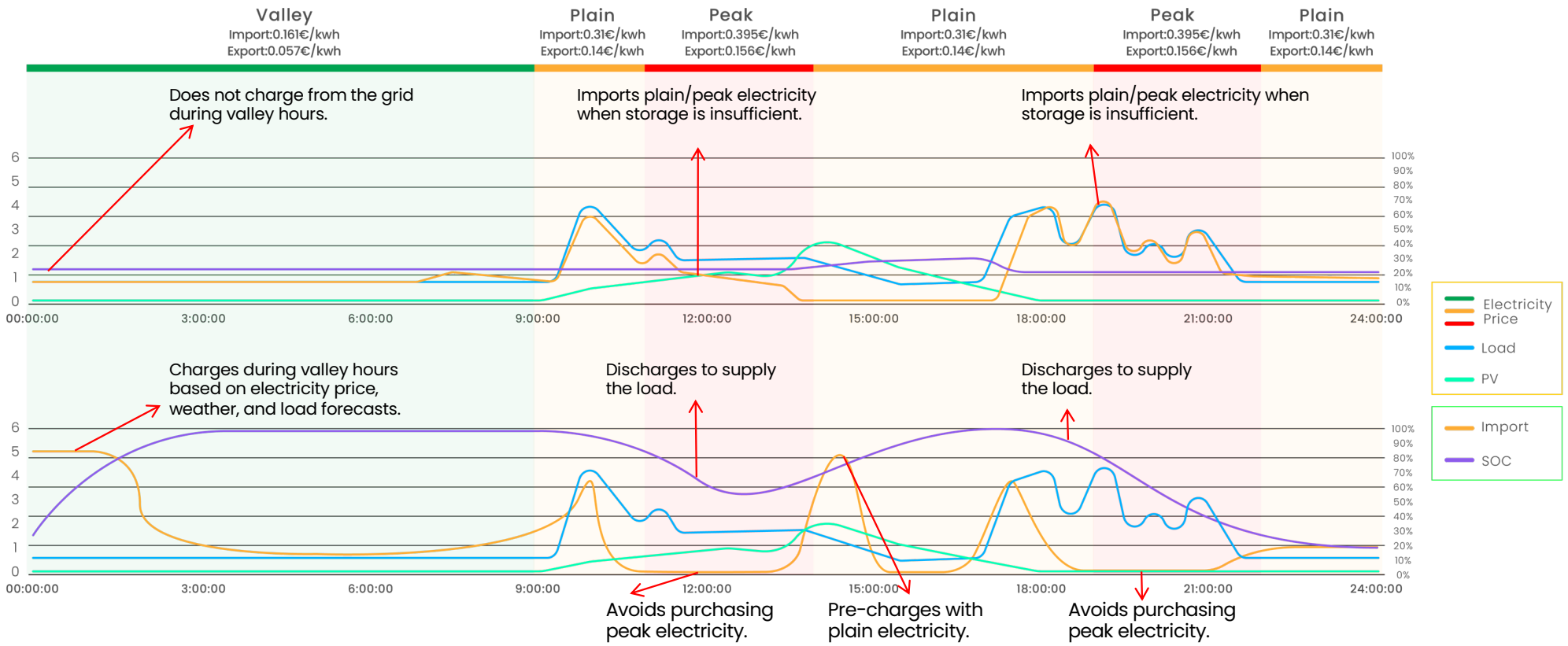
Adaptive real-time scheduling for maximum returns

Adaptive & Iterative

Relentless Optimization in Action.

TRADITIONAL VS XSCHEDULE

SOLAX POWER



Traditional self-consumption **VS** XSchedule

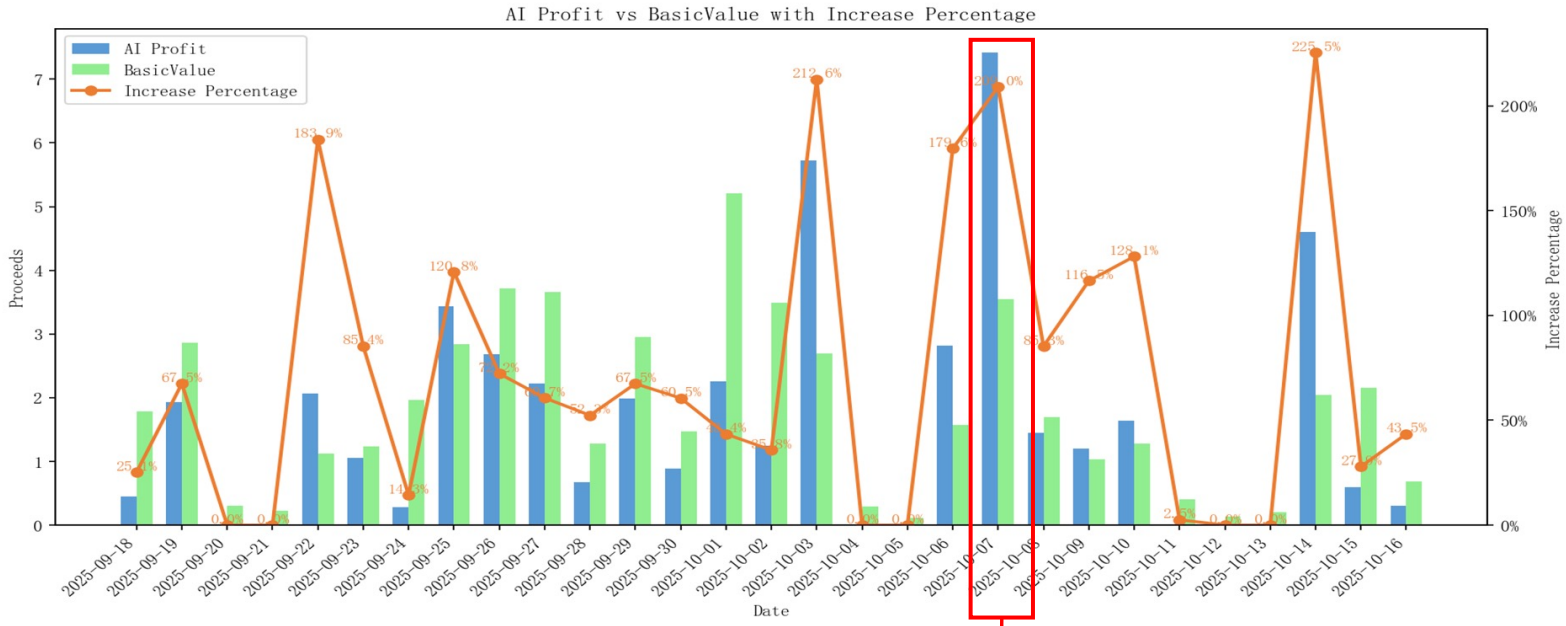
27.4kWh — 5.8kWh | 7.1kWh | 14.5kWh

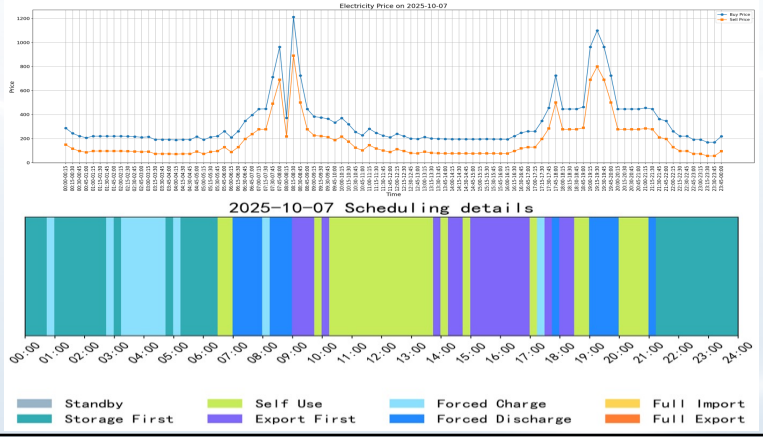
28.1kWh — 18.4kWh | 9.2kWh | 0.5kWh

47.42% Cost-saving today

2.85€ Cost-saving today

ACTUAL SITE REVENUE CASE





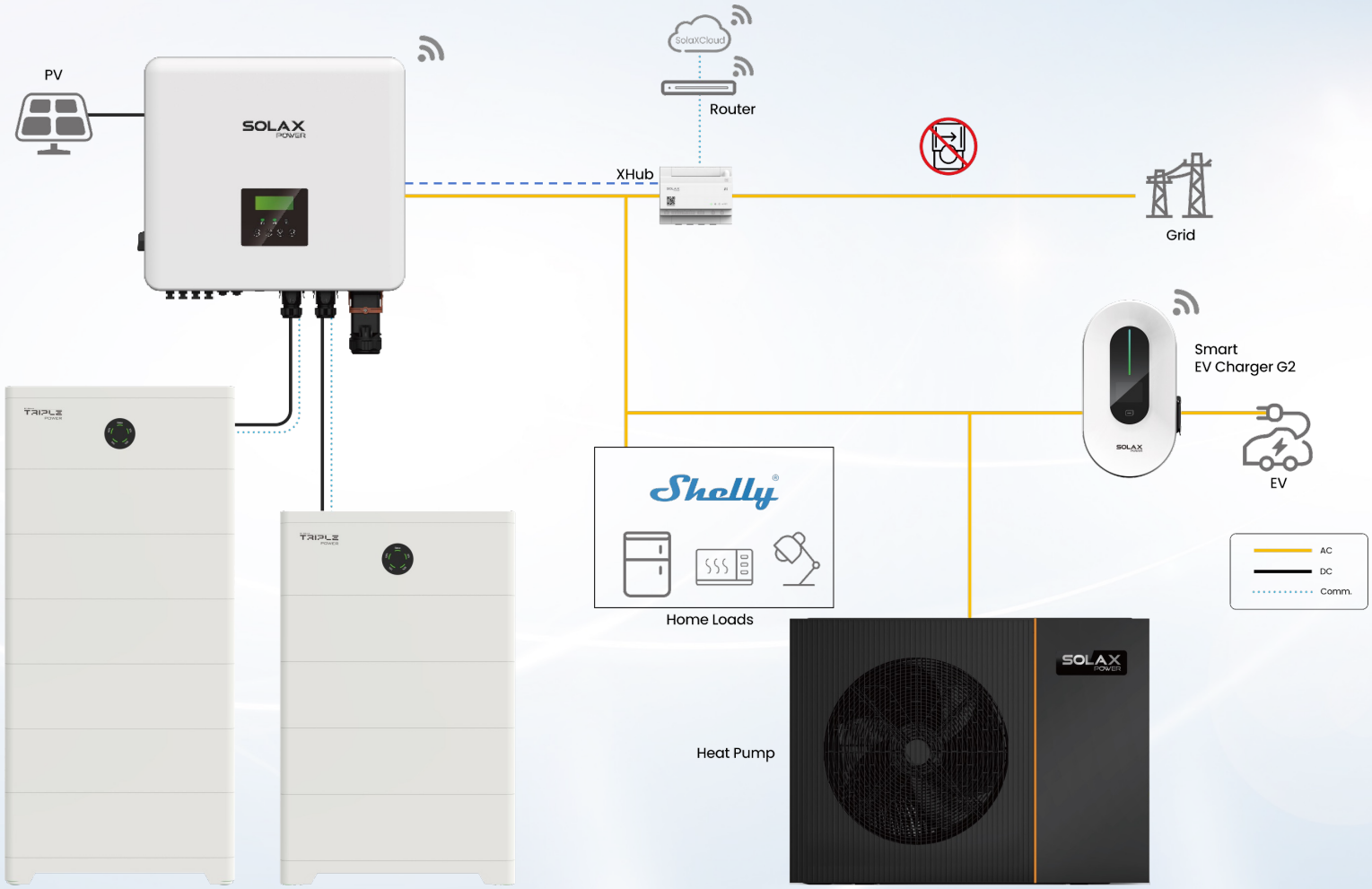
Date: 7/10/2025
Increase Percentage:209.01%

Country:Estonia
Stie info: X3 Hybrid G4 + 4*T58
Electricity price setting:
Electricity selling commission fee： 0.08
Electricity purchase distribution fee: 1.00
Electricity purchase tax rate: 25%
Currency: EUR
Company：NORDPOOL

3 Application

Comprehensive Green PV-ESS Solutions
—Maximize Your Energy Returns

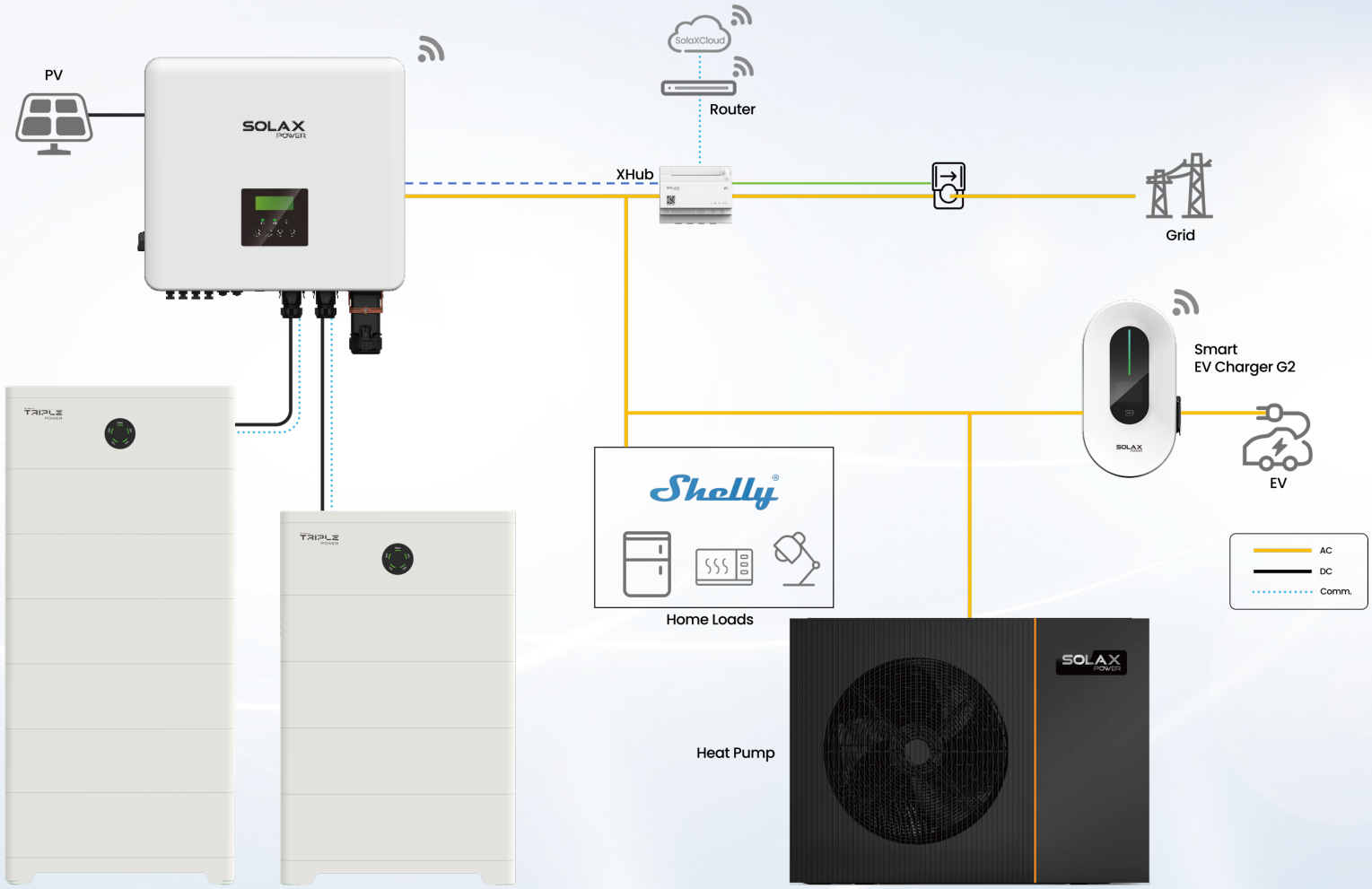
PV-ESS-EV WHOLE-HOME LOAD SOLUTION



Solution Description

- Comprehensive PV-ESS-EV-LOAD Solution Support
- For Loads Below 80 A, Just Replace the Meter—Fast, Hassle-Free Installation
- Parallel inverter scenarios are not currently supported

PV-ESS-EV WHOLE-HOME LOAD SOLUTION (EXTERNAL CT)



Solution Description

For loads exceeding 80 A，connect the original meter's power line to AC IN only (do not link it to AC OUT), and select the appropriate CT，current support(40ma/100A/200A/400A/600A)

SOLAX POWER

4

Implementation

Rapid Installation,
Seamless Third-Party Integration,
and Uncompromising Data Protection

THIRD-PARTY ECOSYSTEM CONSTRUCTION

Smart Home Ecosystem

Official Home Assistant Integration for Shelly
Seamless plug-and-play control for a truly connected smart home

Data Services and Dynamic Integration

Dynamic pricing + weather forecasting + VPP connectivity for precise, future-ready energy control

30+
Regions

Third-party inverter control and heat pump linkage

Supports third-party inverters retrofit and SGReady/EEBUS heat pump connectivity

EEBUS Alliance Ecosystem

Seamless integration with smart home appliances via EEBUS protocol

COMPLIANCE CERTIFICATION PRACTICES

ISO 27001 Certification

Certified on July 29, 2025

- This standard was proposed and revised by the BSI.
- By conducting timely regulatory audits and ensuring that the organization's information management system remains robust, allowing customers to truly experience the company's commitment to information security.

NO.1 in industry

The SOC 2 TYPE 2 Certification

Certified on July 31, 2025

- The SOC 2 TYPE 2 Assurance Report evaluates the security, availability, processing integrity, confidentiality, and privacy protection of SolaXCloud's business operations.
- The report is based on the Trust Services Criteria (TSC) from the American Institute of Certified Public Accountants (AICPA), with Ernst & Young

COMPLIANCE CERTIFICATION PRACTICES

EN18031 Certification

Certified on July 30, 2025

- EN18031 focuses on protecting sensitive data (such as customer information) and complies with GDPR and relevant EU regulations.
- Complementary to ISO 27001, this standard enhances cybersecurity and ensures that organizations handling personal or confidential information comply with relevant regulatory requirements.

PSTI Certification

Certified on August 05, 2025

- PSTI regulations require built-in security protections and update mechanisms to proactively defend against cyber threats and protect data security and system stability.
- We provide security updates across the entire product lifecycle, preventing premature device retirement due to vulnerabilities and ensuring long-term protection for customers' investments.

THANKS

With SolaX,
You've Got The Power

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The future of intelligent energy management with SolaX XHub

Q&A

24 November 2025
10:00 am – 11:00 am | CEST, Berlin, Paris
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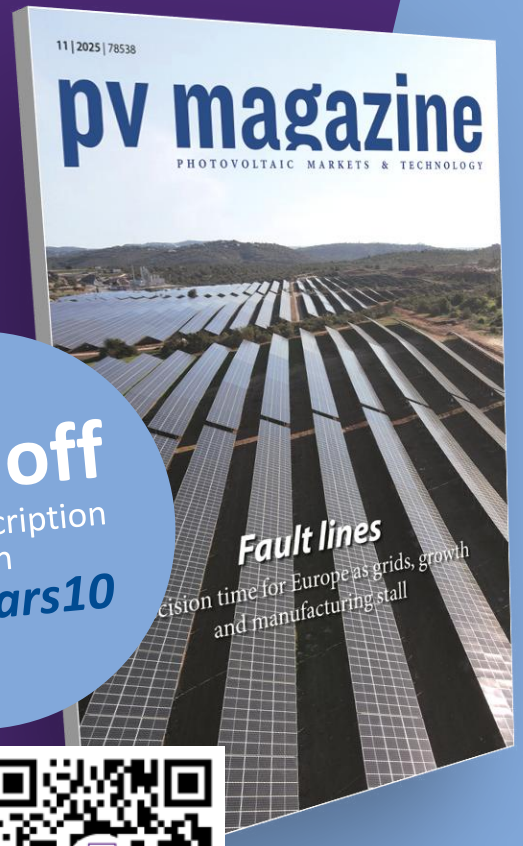

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Thursday, 27 November 2025
9:00 am – 10:00 am CET, Berlin
1:30 pm – 2:30 pm IST, Delhi

Monday, 8 December 2025
6:00 am – 7:00 am CET, Berlin
4:00 pm – 5:00 pm AEDT, Sydney

Many more to come!

Scaling back contact for every scenario

Safety by design: Prefabricated EBOS for smarter, longer lasting solar & BESS

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Registration is now open! Join us at pv magazine Week Europe from December 1 to 4, 2025, for exclusive insights into Europe's changing energy landscape—from flexible market design and bankable PV project strategies to groundbreaking technologies and the future of energy storage.

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Matthew Lynas
Editor
pv magazine

Thank you for joining today!