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pv magazine webinars

13 September 2023

2:00 pm – 3:00 pm | BST, London
3:00 pm – 4:00 pm | CEST, Berlin, Paris
4:00 pm – 5:00 pm | EEST, Athens

Empowering energy savings at home

Mark Hutchins
Editor
pv magazine

Saleh Alnsour
Product Manager Hybrid/Battery Distribution
Sungrow

Welcome!

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. 👀 💡


SUNGROW
Clean power for all
SUNGROW EUROPE
Empowering energy savings at home

YOUR SPEAKER
FOR TODAY

SALEH ALNSOUR

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AGENDA

Empowering energy savings at home

THAT'S US

HYBRID SAVINGS

Sungrow Introduction 1	Sungrow Residential Portfolio 2	Importance of self consumption 3
Case study 1 4	Case study 2 5	Conclusion 6

KEY FACTS

100% commitment to Green Energy

150+ COUNTRIES
20+ Local Subsidiaries
370+ Service Outlets

340 GIGAWATT
Deployed
Worldwide
by December 2022

119 GIGAWATT
Shipped PV
Inverters
in 2022

30+%
Global Market
Share 2021

Largest
EMC Chamber
in the PV World

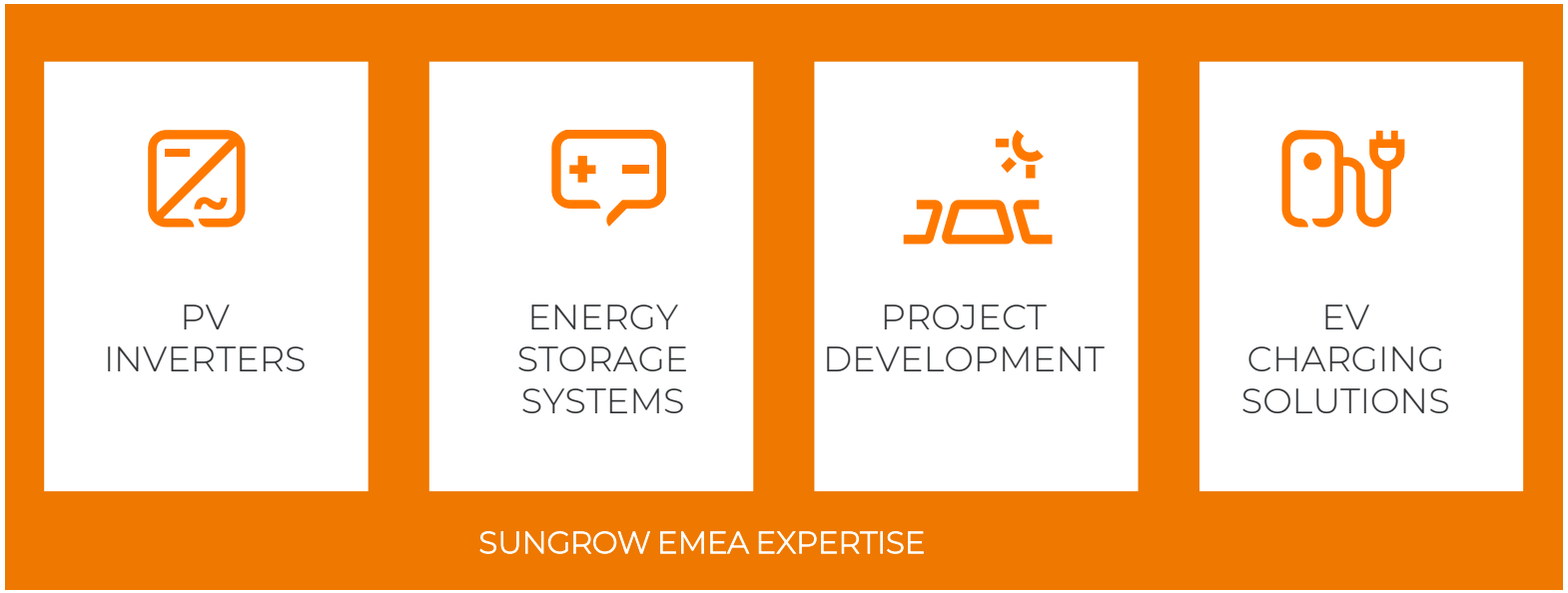
3.77 BILLION USD
Global Sales
Revenue
in 2021

40+%
Proportion
of Technical
R&D Personnel

Up to 99%
Efficiency
of PV inverters

WHAT WE DO

CLEAN TECH ENERGY TO POWER THE WORLD



HYDROGEN

SUNGROW EMEA R&D


PORTFOLIO EXCELLENCE
Covering all demands (from 3 kW to 8.8 MW)
SUNGROW
Clean power for all

RESIDENTIAL HYBRID INVERTERS

INCREASE SELF-CONSUMPTION TO THE FULLEST

- 1-phase & 3-phase portfolio
- Quick & easy installation
- Compatible with Sungrow and BYD battery
- Integrated back up solution
- Free of charge monitoring
- Live Data in iSolarCloud

RESIDENTIAL BATTERY

INCREASE SELF-CONSUMPTION TO THE FULLEST

- Scalable from 9.6 up to 25.6 kWh
- Modular system
- 33 kg per module – easy installation
- Available with 1- & 3-phase Hybrid inverter
- Free of charge monitoring

RESIDENTIAL EV CHARGING

SMART AND FULLY INTEGRATED

- Available with 1- & 3-phase Hybrid inverter + Battery
- Available as 7 or 11 kW version
- 4 different charging modes
- Fully integrated into iSolarCloud
- All products from one supplier

THE 3-PHASE SOLUTION

BEYOND THE EXPECTED

IMPORTANCE OF SELF-CONSUMPTION

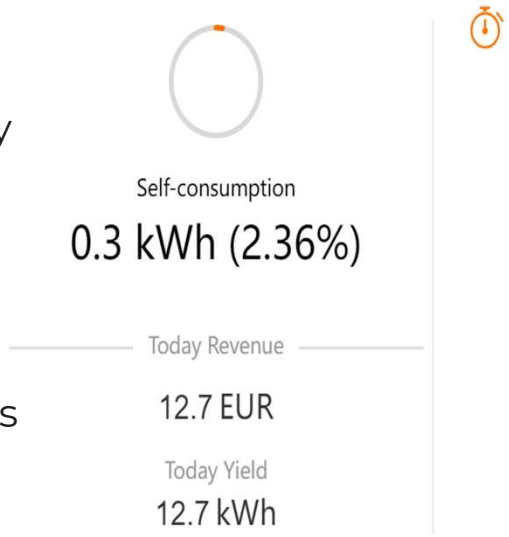
-Economic Benefits

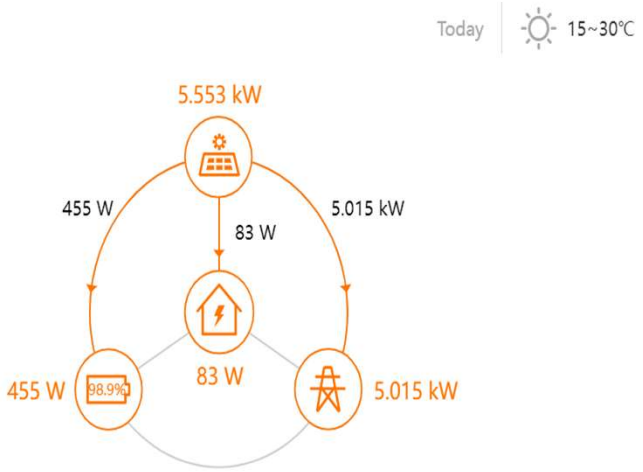
-Environmental Benefits

-Energy Independence

ECONOMIC BENEFITS

Self-consumption of solar energy means using the power you generate, reducing the need to buy from the grid. This directly lowers monthly energy bills. Especially where feed-in tariffs are low, maximizing self-consumption ensures you get the most value from your solar system, saving costs and promoting sustainable energy use.





ENVIRONMENTAL BENEFITS

Self-consumption of solar energy reduces reliance on fossil fuels, decreasing greenhouse gas emissions. By using power generated on-site, we lessen the environmental impact associated with energy production and transport, contributing to a cleaner, more sustainable future.

Calculation Standards for Energy Conservation and Emissions Reduction of PV Power Generation

1 kWh PV Yield equals to	
CO_2 Reduction	0.997kg
Save Standard Coal	0.404kg
Tree	0.054trees

Carbon dioxide emission reduction, standard coal saving and equivalent tree planting index data are calculated based on the total yield of the plant. If the plant already has yield before using iSolarCloud, the existing yield cannot be counted in the calculation of energy saving and emission reduction data.

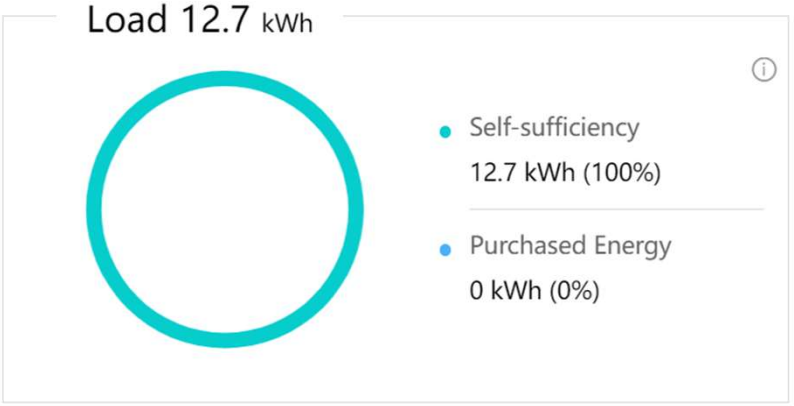
CO_2 Reduction 1.46 Ton

Save Standard Coal 590.2 kg

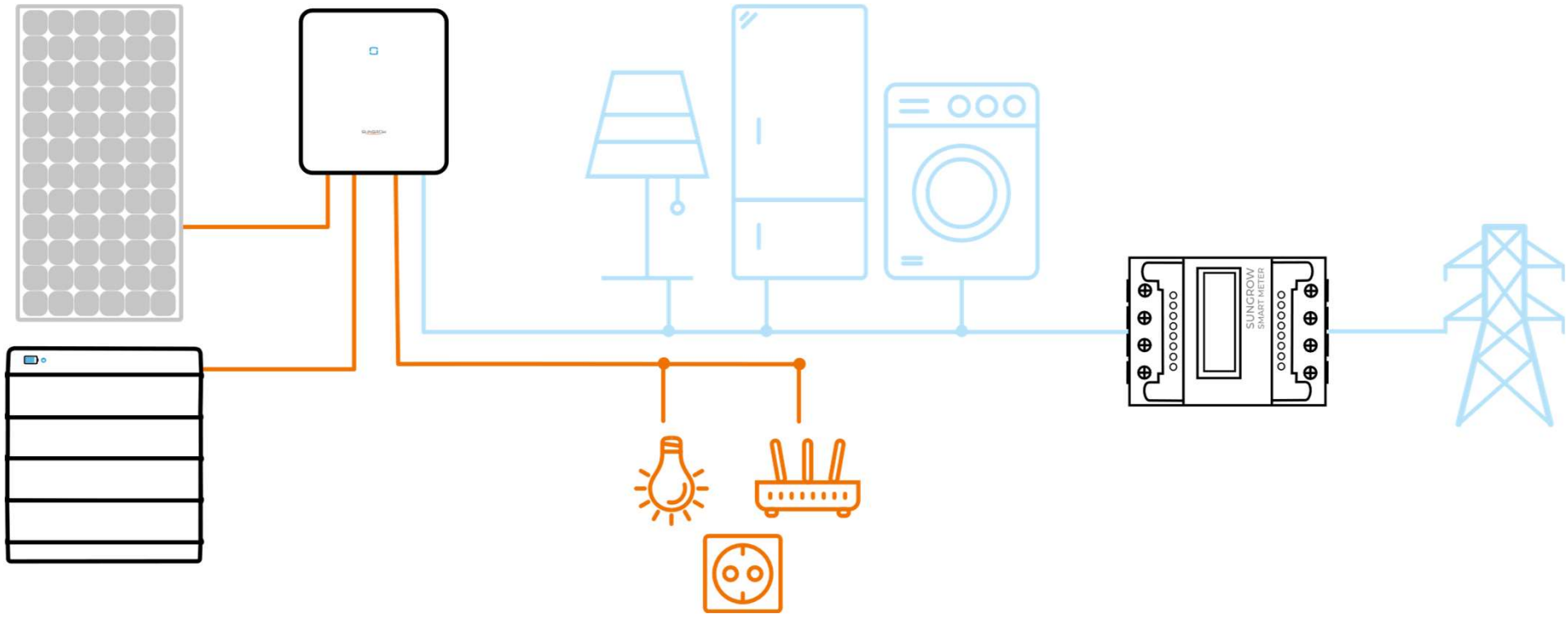
Tree 79.53 trees

ENERGY INDEPENDECE

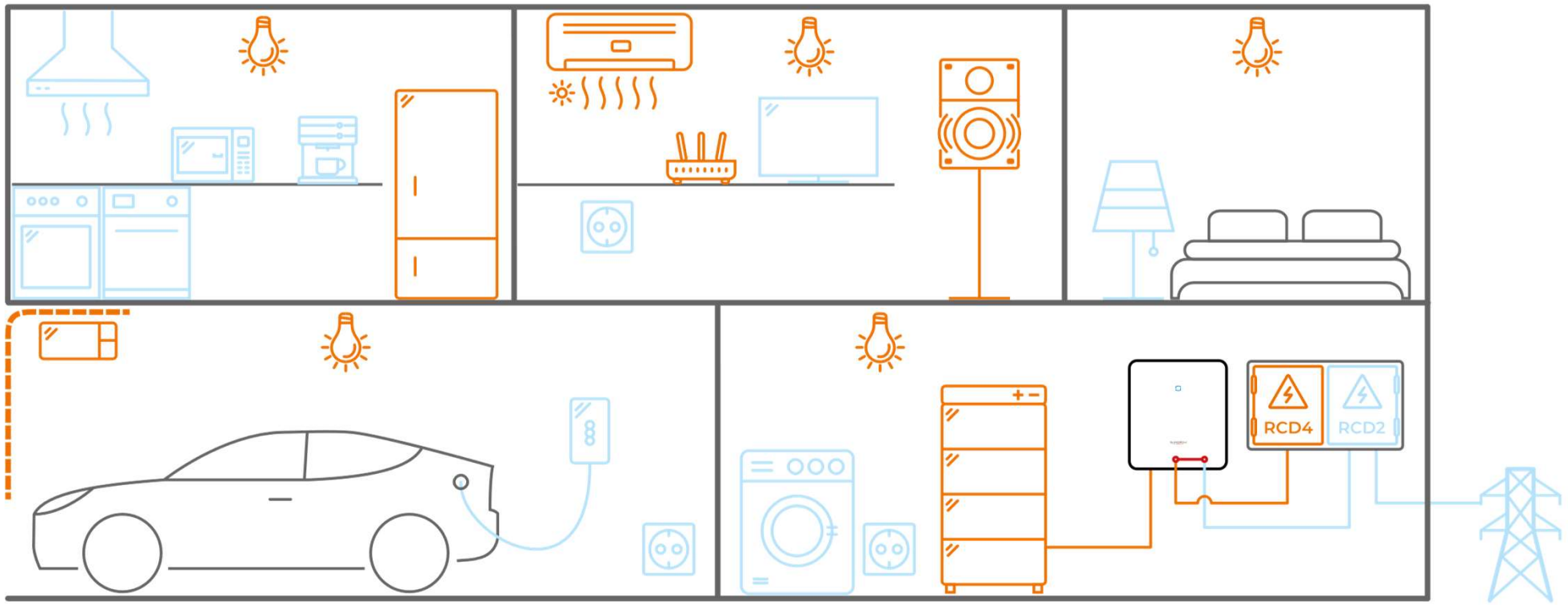
Self-consumption enhances energy independence by reducing reliance on external power sources. By using solar energy produced on-site, homes and businesses can operate more autonomously, buffering against grid outages and fluctuating energy prices.



BACKUP MODE - WIRING



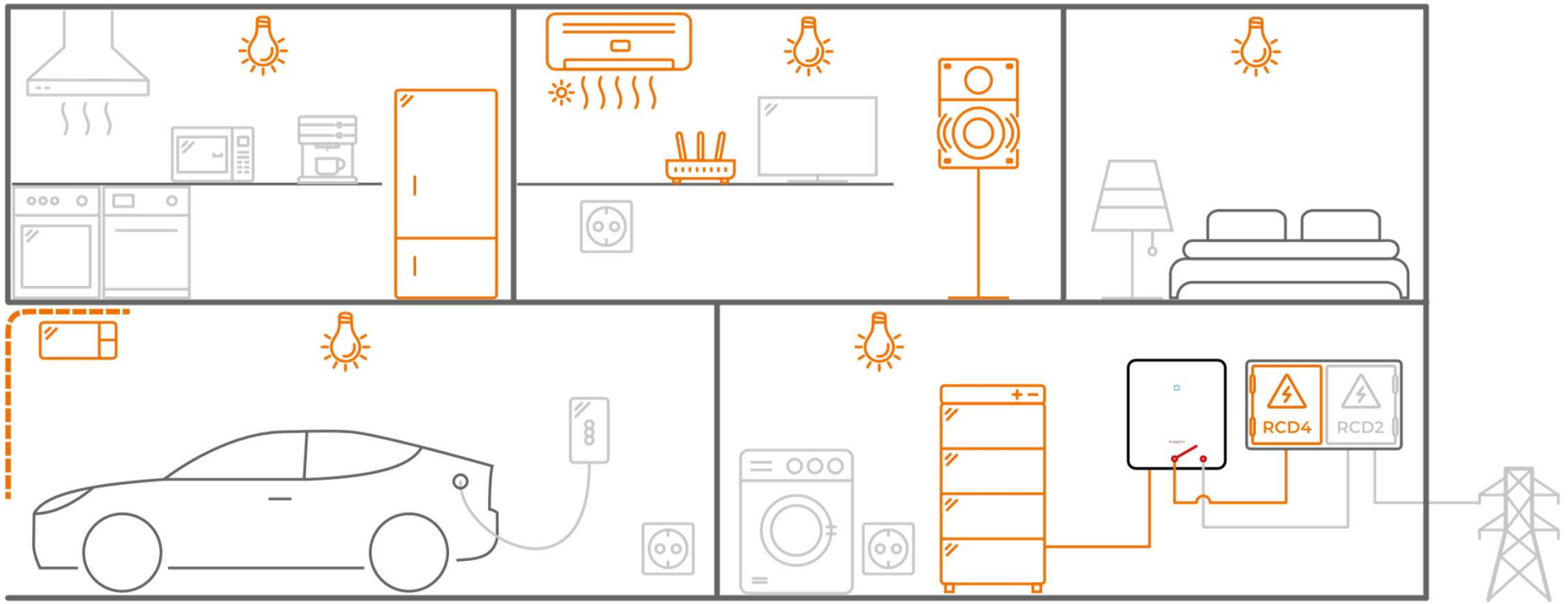
BACKUP MODE – HOW IT WORKS



GRID CONNECTED

SUNGROW

BACKUP MODE – HOW IT WORKS



GRID OUTAGE

SUNGROW

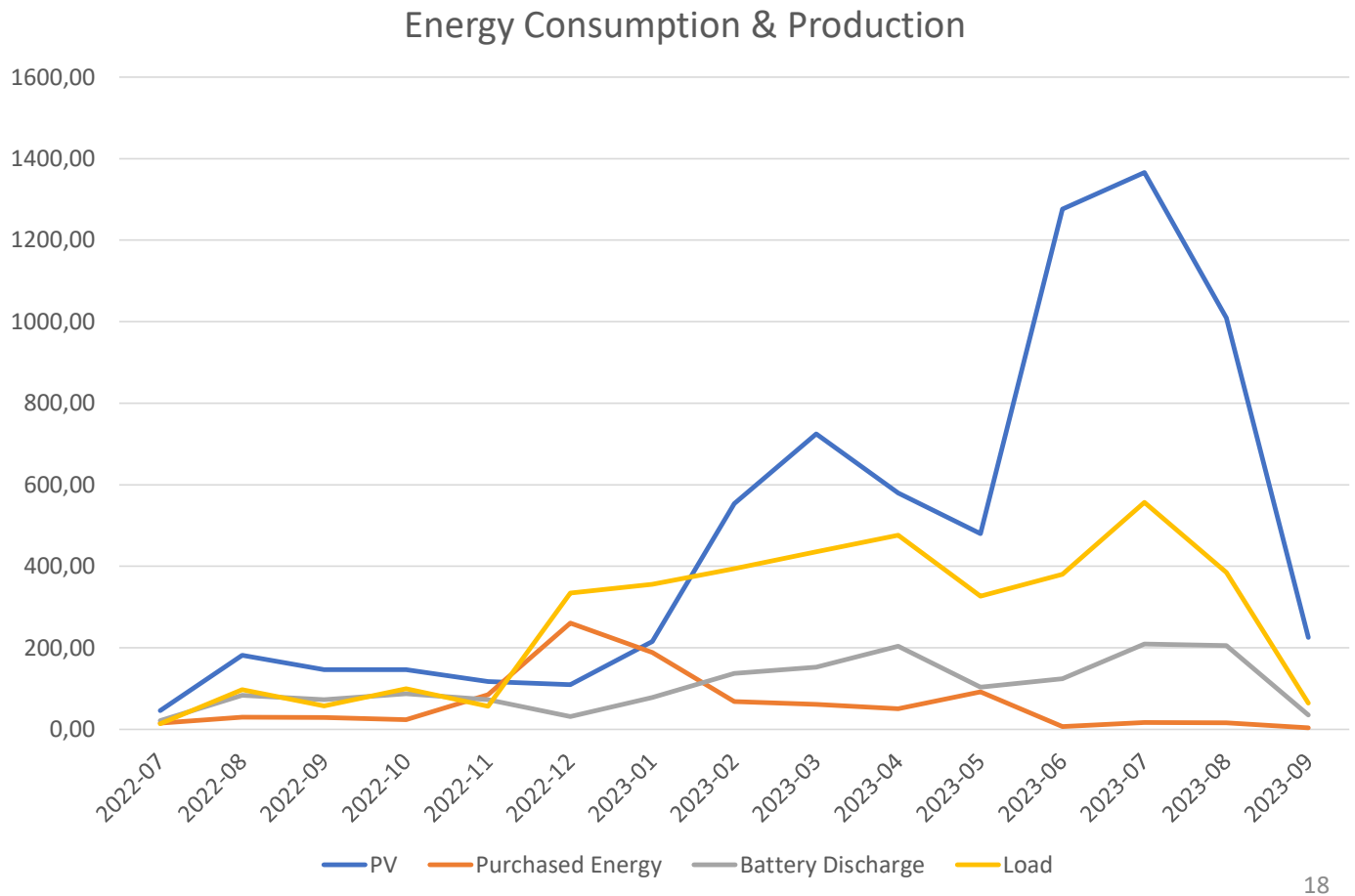
Case Study 1

Location: Italy

Inverter: Single-phase hybrid SH6.0RS

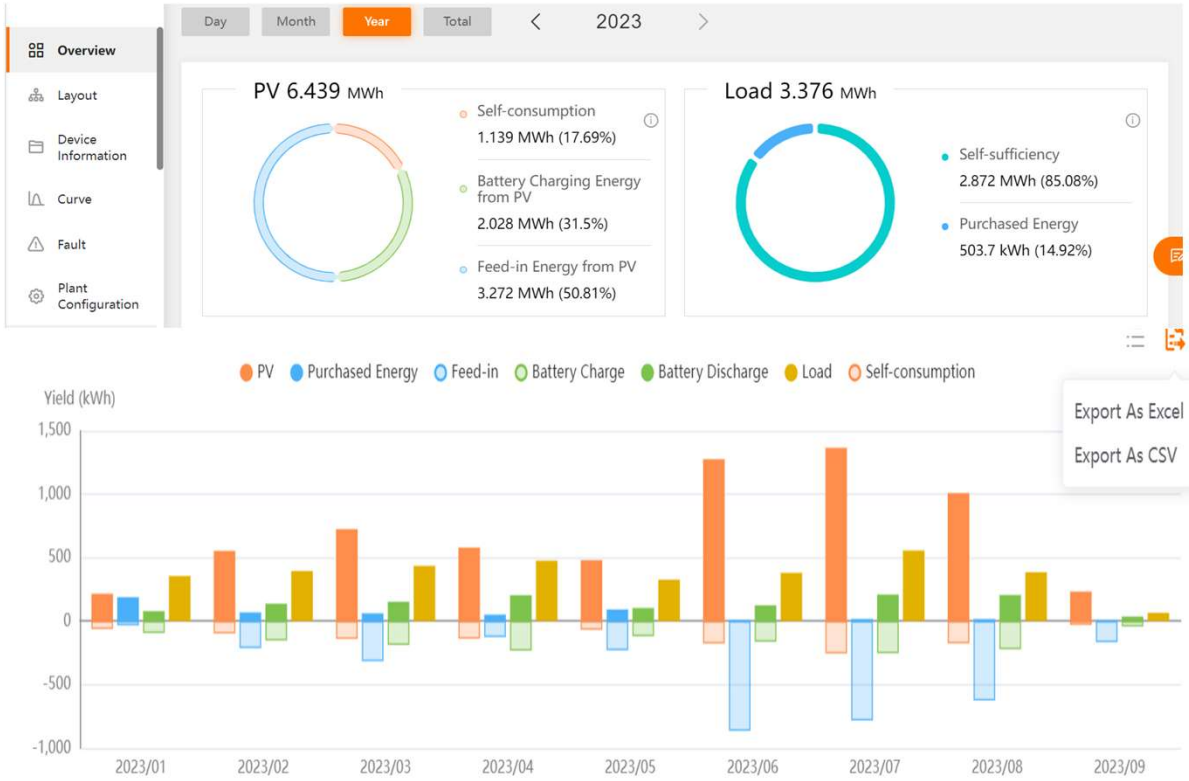
Battery Capacity: 19.2kWh

Time Period: July 2022 to September 2023



Case Study 1

Calculating the savings using the data from iSolarCloud



Click here to generate a report

Case Study 1

Calculating the savings using the data from iSolarCloud

Time	PV(kWh)	Purchased Energy(kWh)	Feed-in(kWh)	Battery Charge(kWh)	Battery Discharge(kWh)	Load(kWh)	Self-consumption(kWh)
2022-07	46,00	15,20	13,40	31,10	21,80	13,90	20,50
2022-08	181,90	30,10	15,00	107,50	83,90	97,60	59,40
2022-09	146,90	29,10	0,00	93,20	73,00	57,20	53,70
2022-10	146,50	24,00	0,10	110,70	87,70	99,70	35,80

Breaking Down Your Monthly Data:
PV (kWh): Energy generated from your solar panels.
Purchased Energy (kWh): Energy bought from the grid.
Feed-in (kWh): Excess energy sold back to the grid.
Battery Charge/Discharge (kWh): Energy stored in and used from your battery.
Self-consumption (kWh): Energy consumed that hasn't been purchased or fed back into the grid.

Case Study 1

Calculating the savings using the data from iSolarCloud

1. Savings from Solar (PV) and Battery:
PV: Self-consumption(kWh) x Cost of Electricity
Battery: Battery Discharge(kWh) x Cost of Electricity

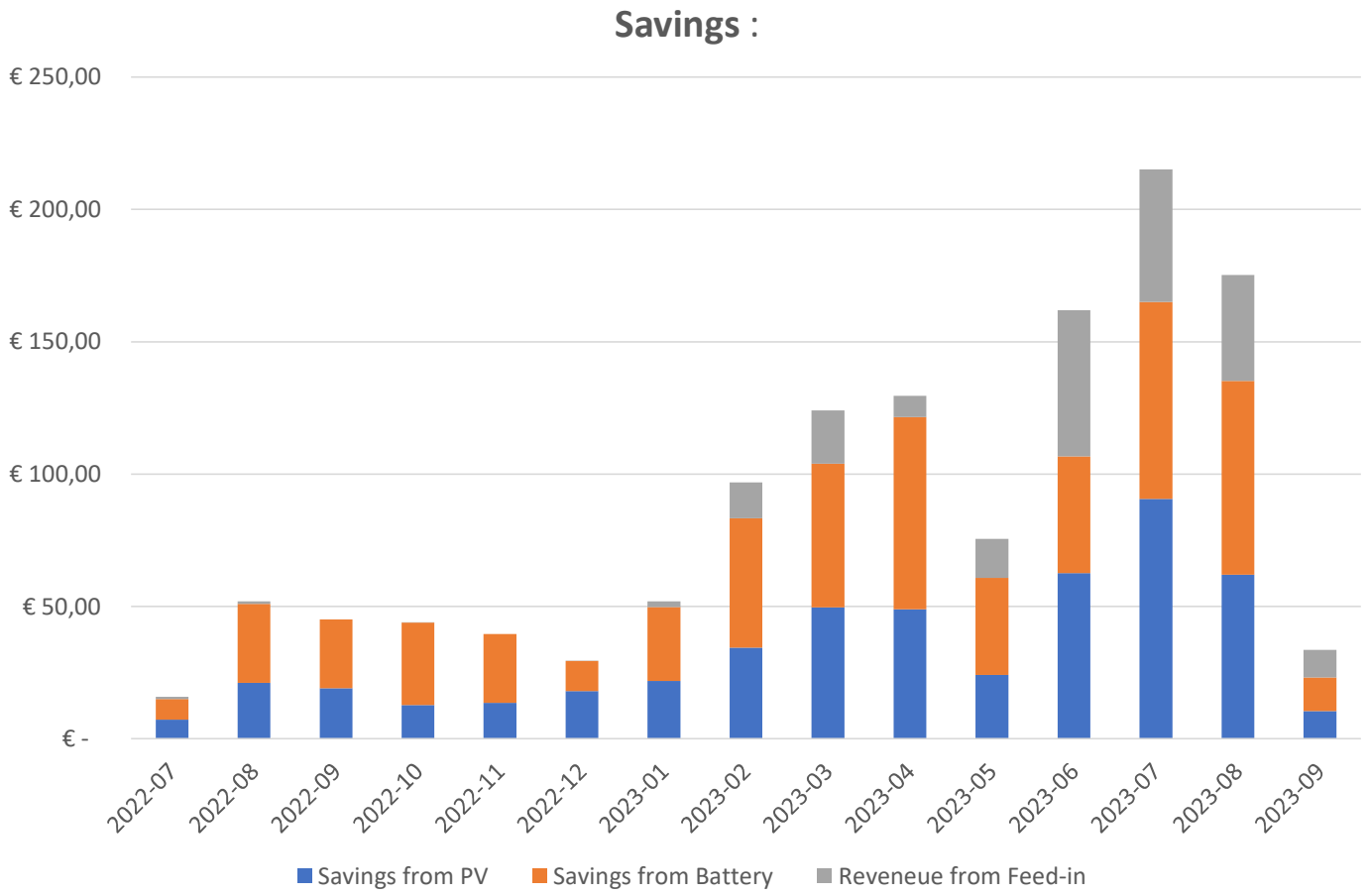
2. Revenue from Feed-in: Feed-in(kWh) x Feed-in Tariff

3. Cost of Purchased Energy: Purchased Energy(kWh) x Cost of Electricity

4. Net Savings: PV Savings + Battery Savings + Revenue from Feed-in - Cost of Purchased Energy

Case Study 1

Calculating the savings using the data from iSolarCloud



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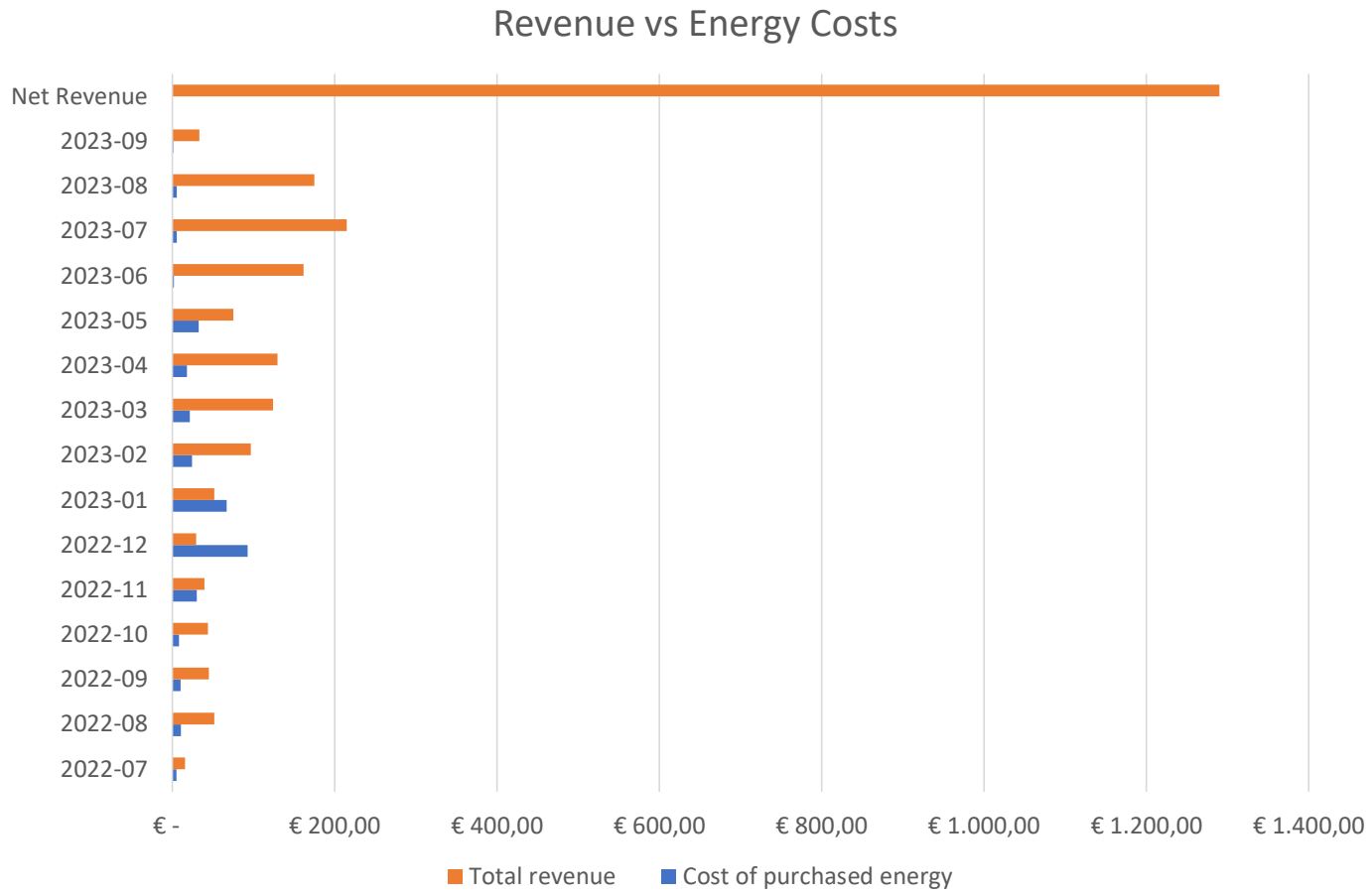


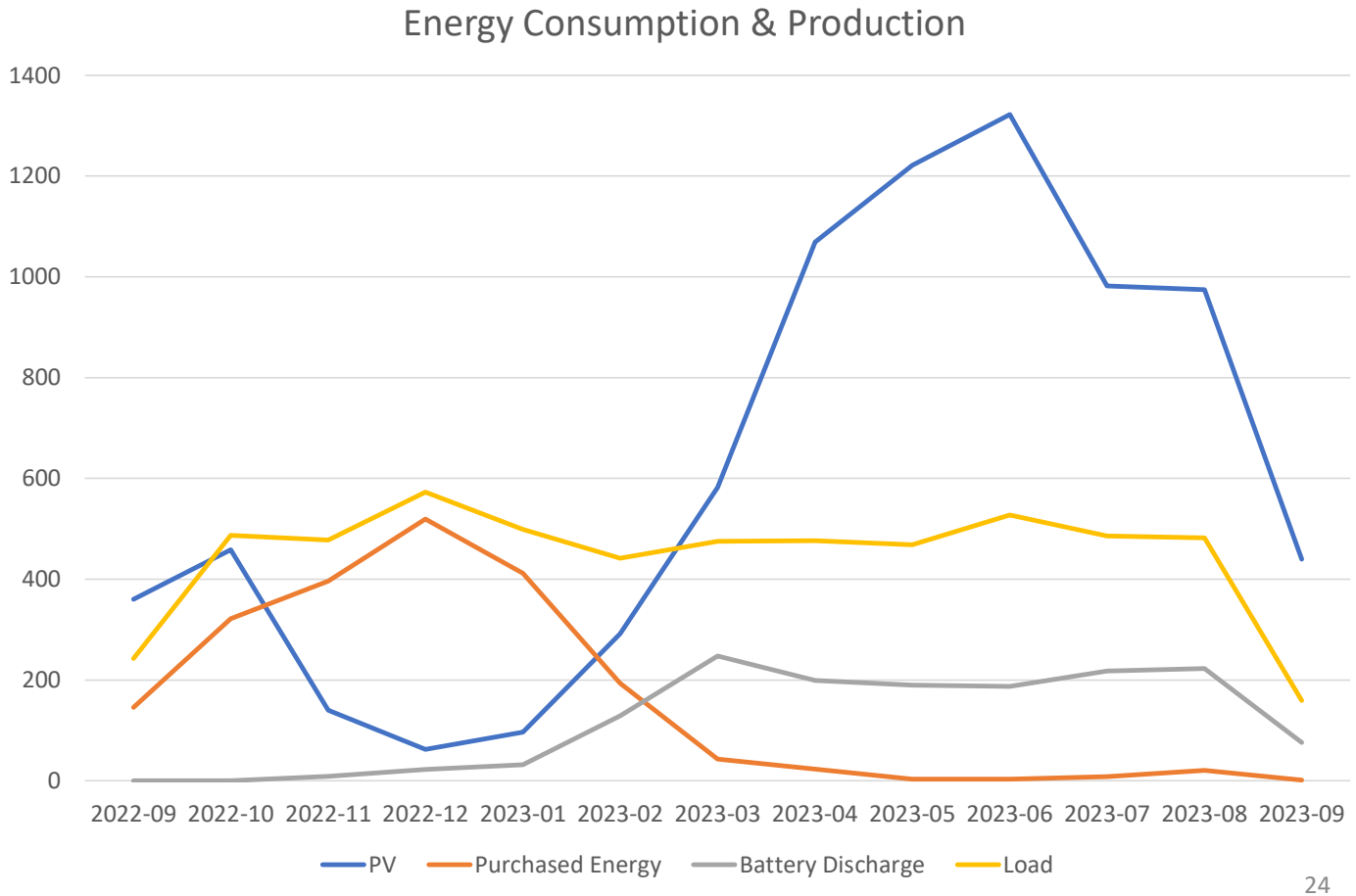
Case Study 2

Location: Germany, Bavaria

Inverter: Three-phase hybrid
SH8.0RT

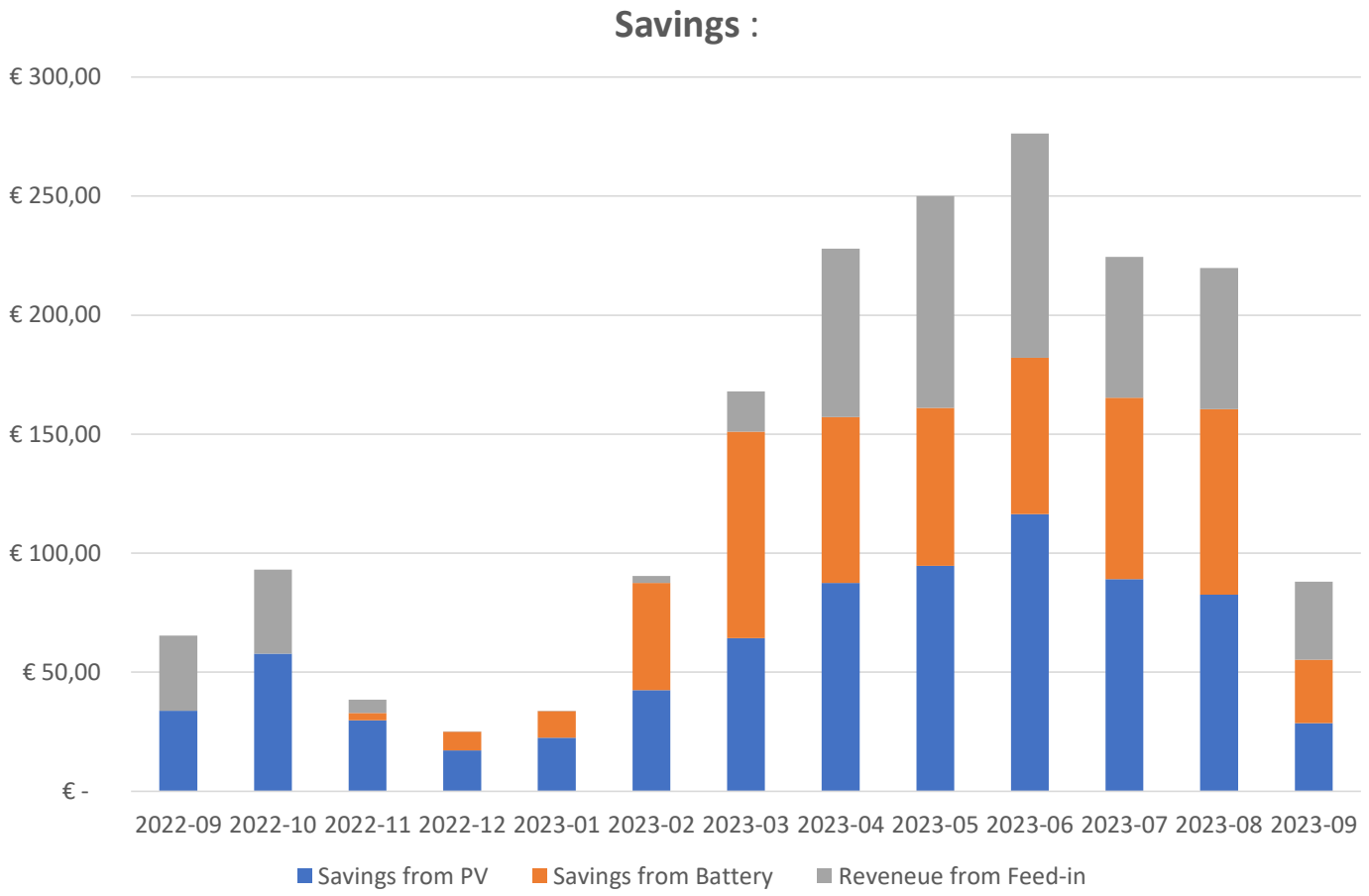
Battery Capacity: 16.0kWh

Time Period: Septmeber 2022 to September 2023



Case Study 2

Calculating the savings using the data from iSolarCloud



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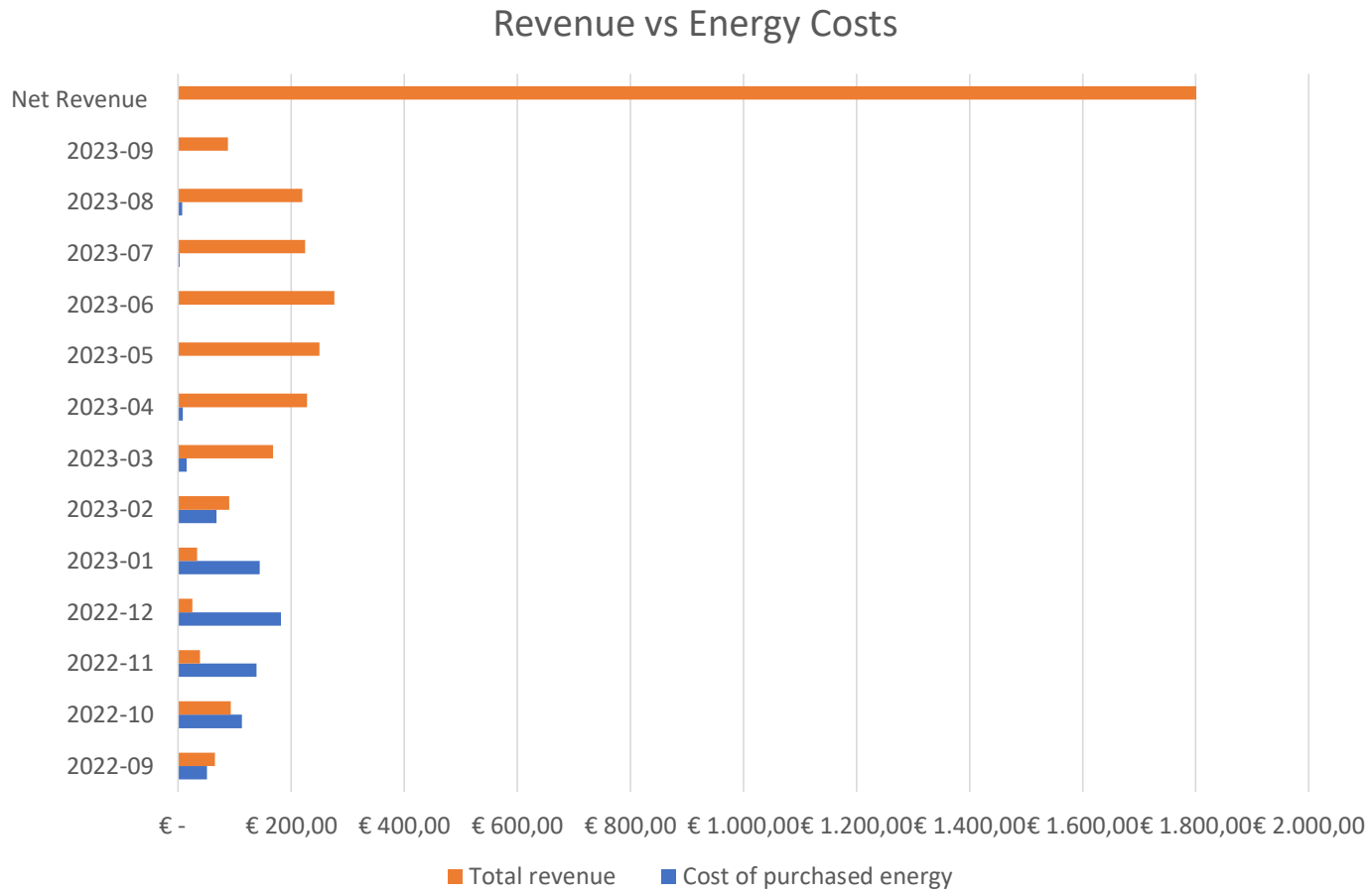

THE 3-PHASE SOLUTION

SAVE MORE WITH OUR EV-CHARGER

SUNGROW AC CHARGER

Maximize Savings with Self-Consumption & Advanced Solar Integration

GREEN POWER CHARGING: Economical EV charging with PV excess.

Optimize every kilowatt: Direct solar energy to household needs & EV charging.

Seamless Management: All-in-one app for solar, battery, and EV.

Adapt & Save: Unique 3-to-1 phase switching.

Speedy ROI: Boost savings and accelerate your investment return.

MAXIMUM SAVINGS

Tips to save even more

Choose suitable PV plant that covers your needs: Opt for a system size that matches your consumption to optimize ROI.

Batteries are essential to maximize savings: Storing excess solar energy ensures you use more of what you produce, leading to greater savings.

Pay attention for charging times for your battery and EV car: Timed charging during low-demand or peak solar output can drastically reduce energy costs.

Expand Your Storage If Necessary: Upgrading your battery capacity can cater to increased energy needs and further enhance self-consumption benefits.

Leverage Governmental Incentives: Ensure your system qualifies for local subsidies or tax benefits to further decrease costs.

WRAP-UP

Embrace the Future of Energy

- **Self-consumption** is the key to energy independence and financial savings.
- **Hybrid inverters, batteries, and EV chargers** from Sungrow make the most of your rooftop solar.
- **Financial and environmental benefits** await those who optimize their energy systems.
- **Take the next step:** Explore how Sungrow can empower your energy journey!

CLEAN POWER FOR ALL

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Q&A

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10:00 am – 11:00 am BST, London
11:00 am – 12:00 pm CEST, Berlin, Paris, Madrid

Evolution of the “1+X” modular inverter

Wednesday, 20 September 2023
10:00 am – 11:00 am EDT, New York City
4:00 pm – 5:00 pm CEST, Berlin, Paris, Madrid

BESS diagnostics for holistic lifecycle management

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Mark Hutchins
Editor
pv magazine

Thank you for joining today!