



SOLARPOWER SUMMIT 2025WELCOME TO THE SOLAR FLEX ERA

LET'S FLEX
EUROPE'S
BUILDINGS TO
SUPPORT THE GRID



IET'S LET'S LET'S

SOLARPOWER SUMMIT 2025



THIS IS THE TITLE OF THE KEYNOTE

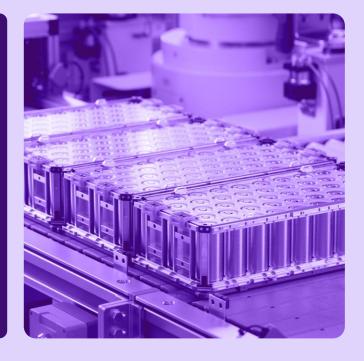
MICHAEL SCHMELA

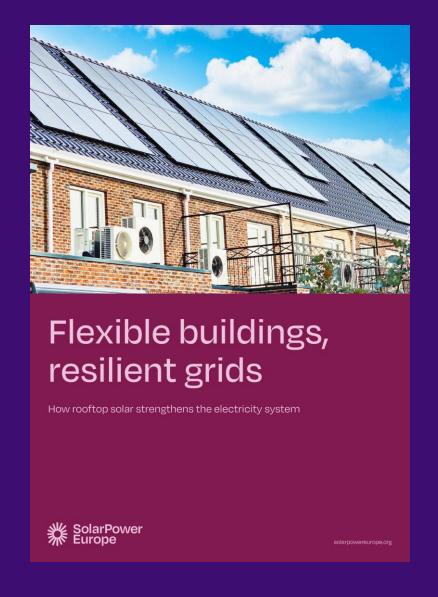
Executive Advisor and Director of Market Intelligence, SolarPower Europe



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FLEXIBLE
BUILDINGS,
RESILIENT
GRIDS

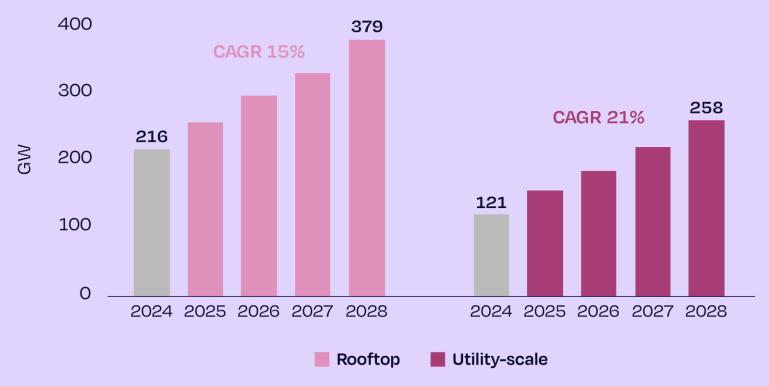






Rooftops continue dominating EU solar

EU-27 annual solar PV rooftop and utility-scale segments scenarios 2024-2028







Solar buildings are truly flexible





Benefits of flexible buildings

- Buildings can provide essential flexibility solutions
- Potential to meet 52% of daily, 35% of weekly, and 29% of annual flexibility needs
- Significant benefits to the energy system
- Direct economic benefits to consumers

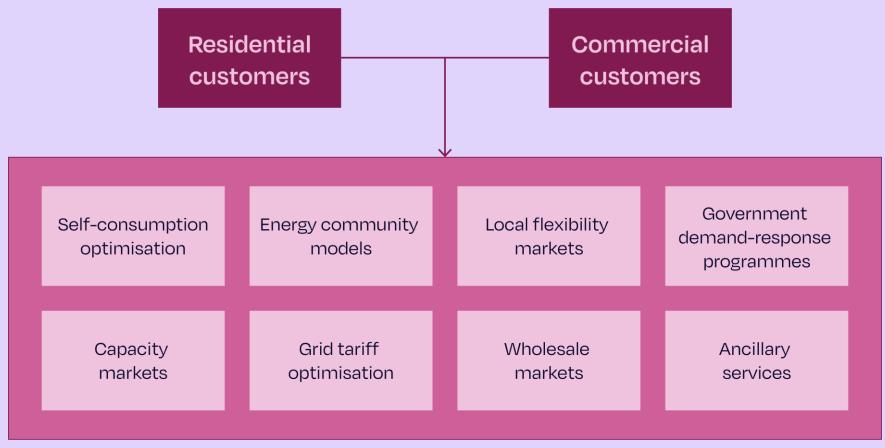
Buildings' contribution to EU flexibility needs 2030





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Value streams for demand-side flexibility



source: © SolarPower Europe 2025



Policy recommendations

- 1. Set price signals that incentivise flexible behaviour and efficient grid use
- Grid tariffs must provide clear time-of-use signals
- Cost-reflective grid tariffs for users engaged in energysharing and energy communities
- Flexibility services, such as participating in balancing markets, local flexibility markets, or providing ancillary services, should not be subject to grid tariffs
- The EU should harmonise grid tariff methodologies

- 2. Complement smart meters with flexibility measurement devices
- 3. Tailor technology support schemes to maximise flexibility from buildings
- 4. Develop standards for interoperability to facilitate plug-and-play energy systems
- 5. Allow flexibility from buildings to access balancing markets









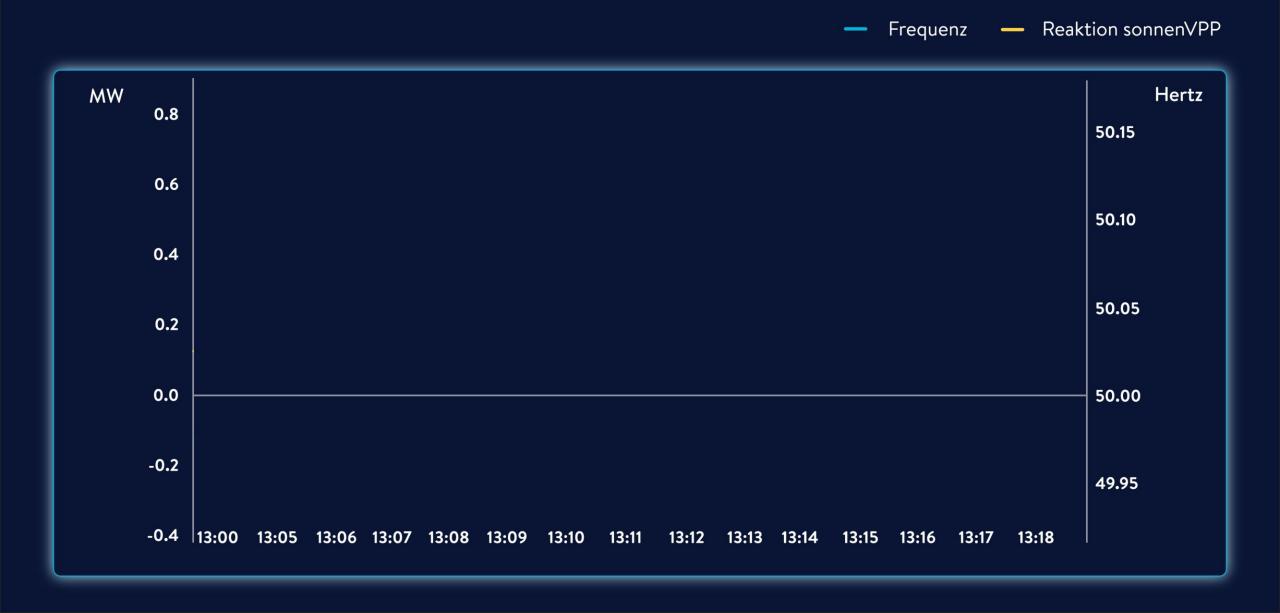




MARIE GARSTECKI

Regulatory & Policy Manager,
Sonnen

Frequenzausgleich durch sonnen VPP am 01. September 2023



Policy Asks:



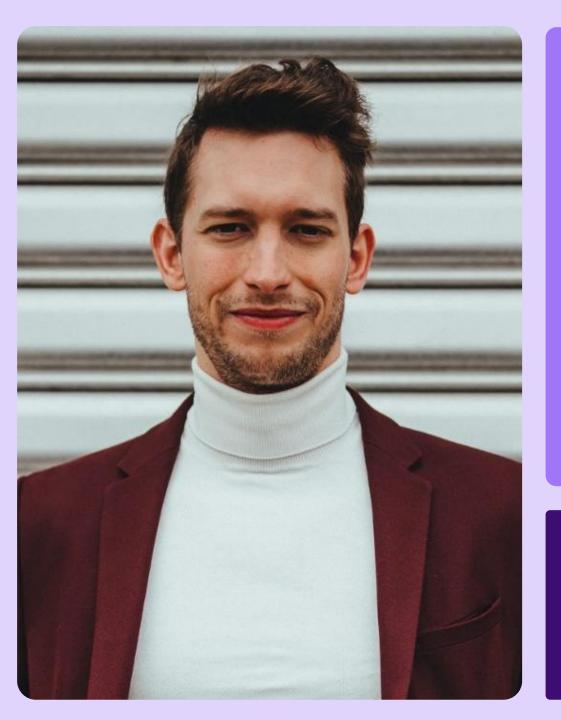
1. More Market (Access)

2. More Europe

3. More cost-reflective Network Tariffs

IET'S ELEM

SOLARPOWER SUMMIT 2025



DRIES BOLS

CEO, LIFEPOWR



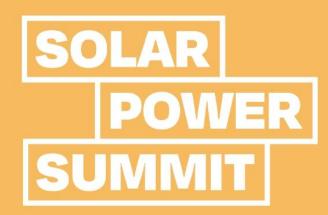
Case Study: Residential optimization based on system needs in Belgium

#energyflexibility #gridbalancing #EnergyServiceProvider #energymanagement #VirtualPowerPlant #demandresponse

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The POWR to unlock, orchestrate and valorize Energy Flexibility





"Holy Grail" in Flex: Stacking Value Streams to find their global optimum





"Holy Grail" in Flex: Stacking Value Streams to find their global optimum

Energy Bill Savings

"Behind-the-meter"



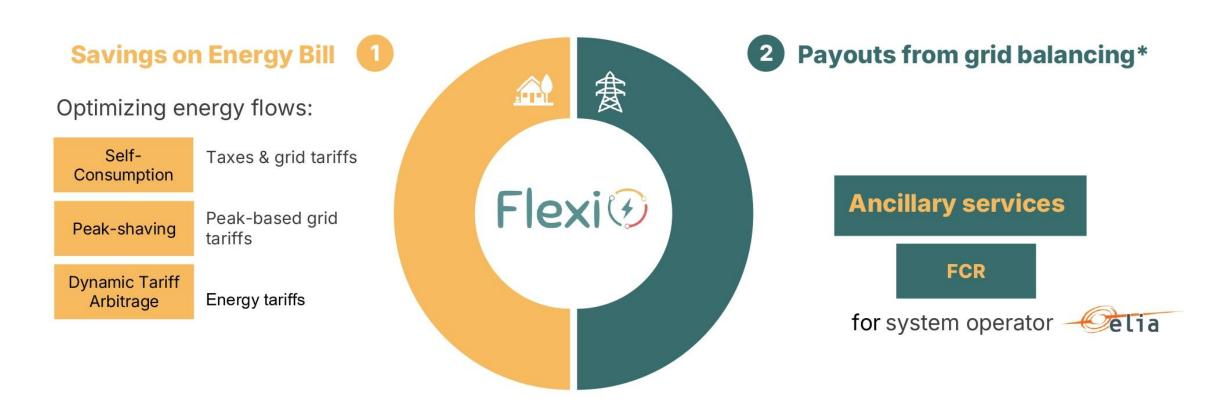
Energy markets

Ancillary services

Congestion markets



Case study 1: Stacking Savings with Ancillary Service payouts in 2024





Case study 1: Stacking Local Value Streams with Flexibility markets (2024)



Results

By end of year

3000 active participants
Avg. portfolio dimensioning:

4.3kVA of symmetric power

12kWh of storage

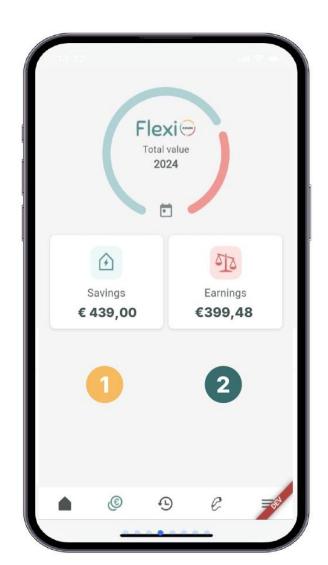




Consumer pays less thanks to the optimized 'behind-the-meter' strategy, taking into account consumption behavior and pricing.

Average household savings per year

€ 439



2 Payouts

Consumer receives a **reward payout** from participating to grid balancing.

Average household earnings per year

€ 399



Case study 2: Stacking Savings with Energy Market Flex







Zooming in on the performance

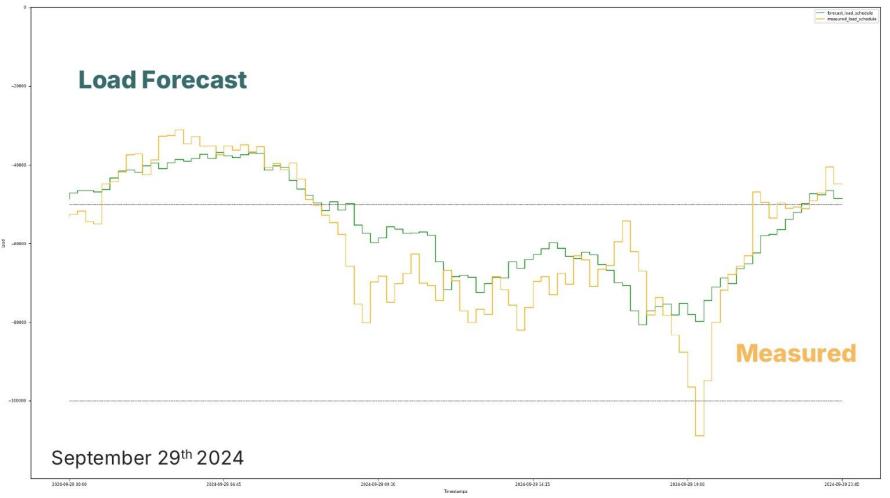
Pilots with leading utilities

80 & 400 active participants

Avg. portfolio dimensioning:

4.3kVA of symmetric power

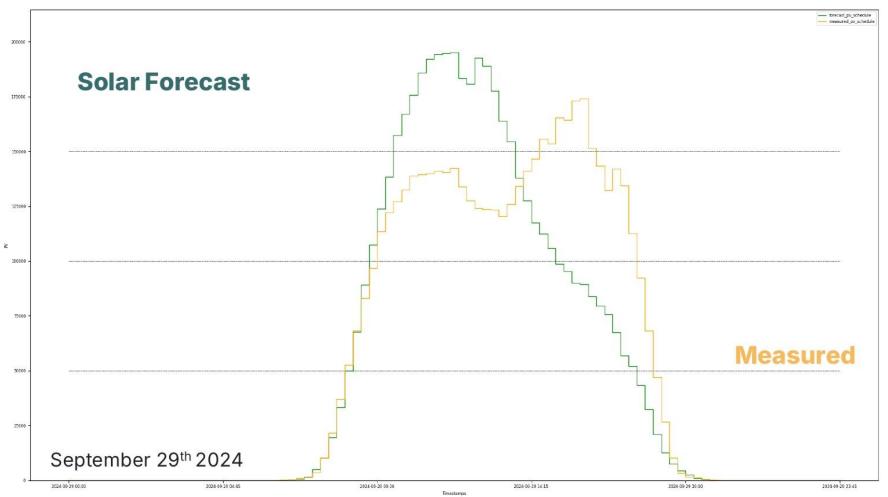
12kWh of storage

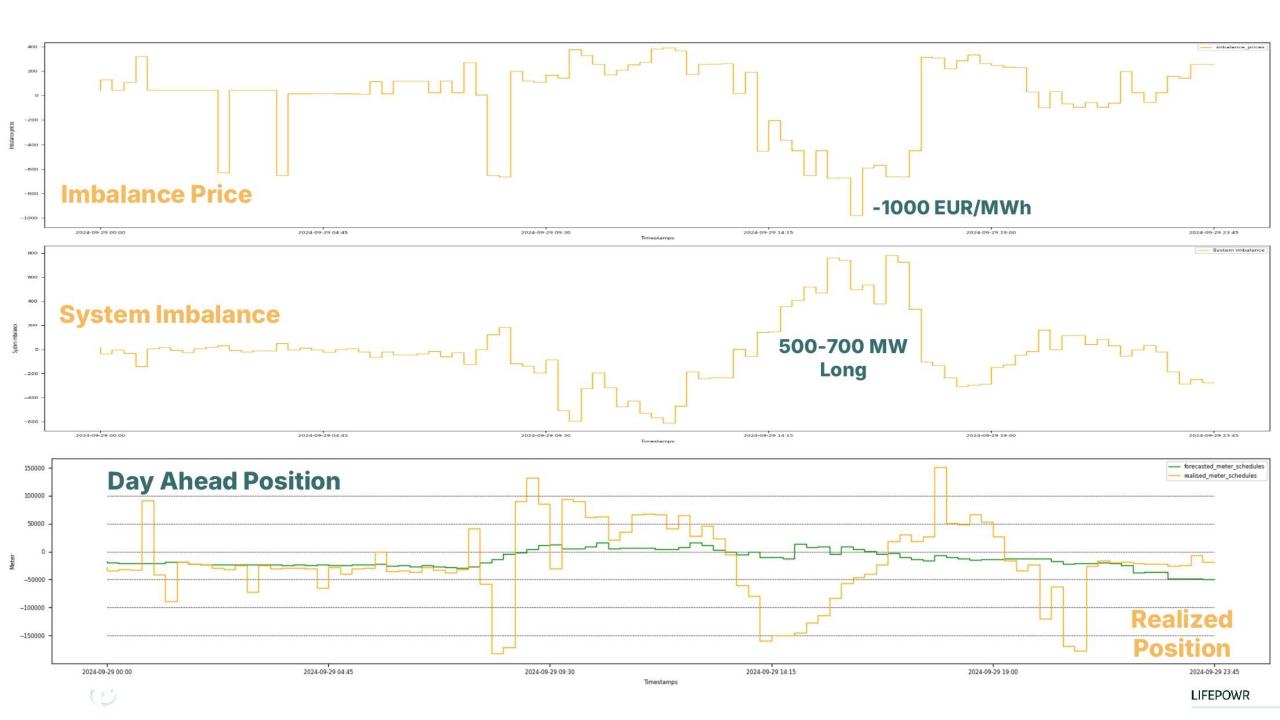


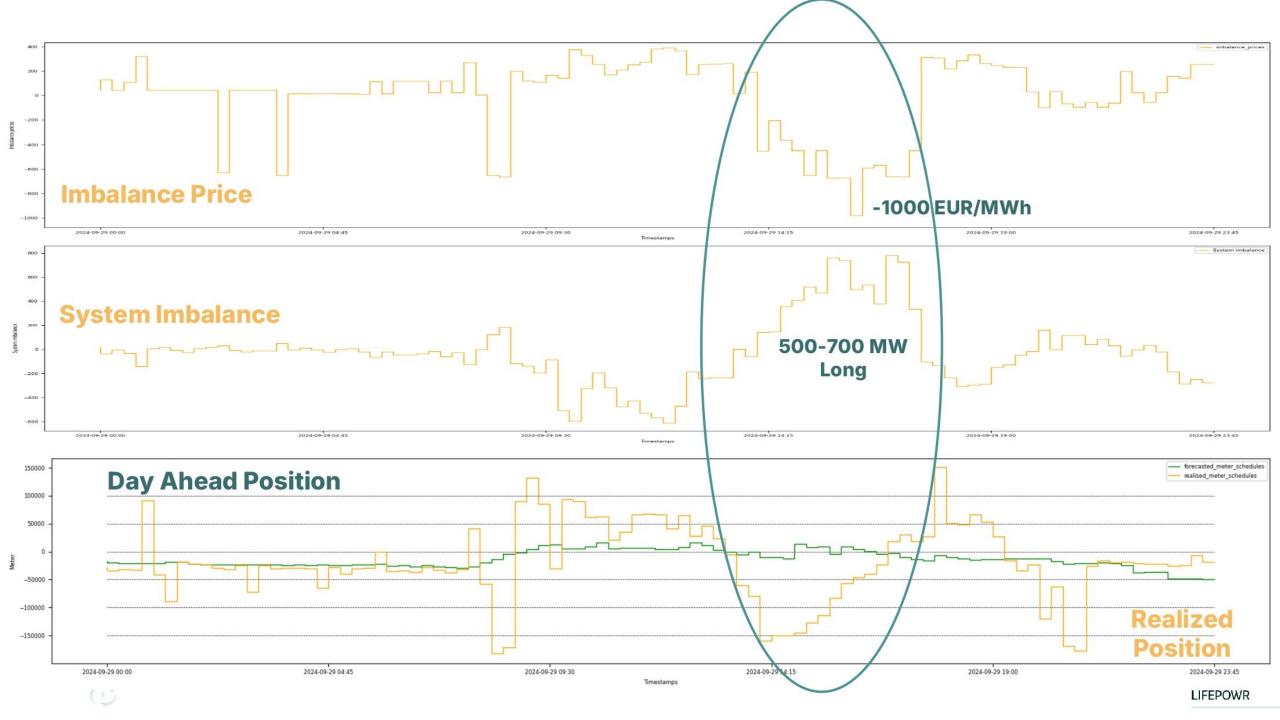


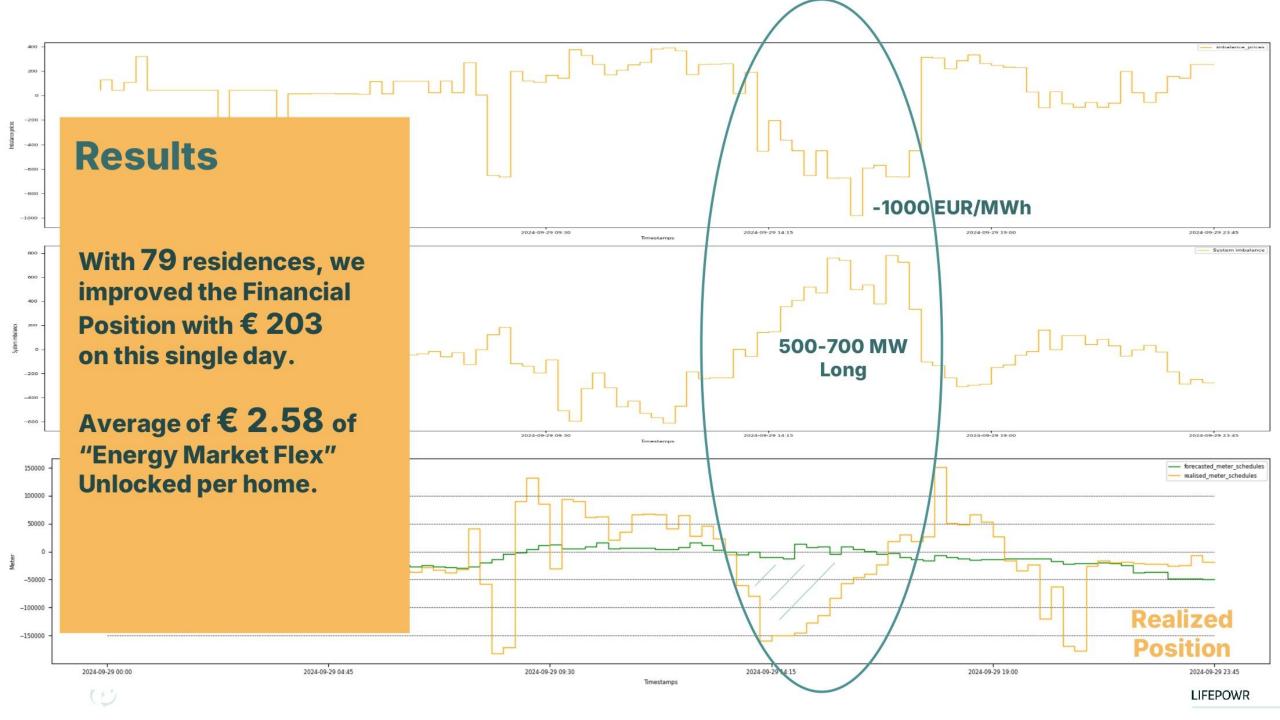
Pilots with leading utilities 80 & 400 active participants Avg. portfolio dimensioning: 4.3kVA of symmetric power 12kWh of storage

Zooming in on the performance











THANK YOU & LET'S FLEX!

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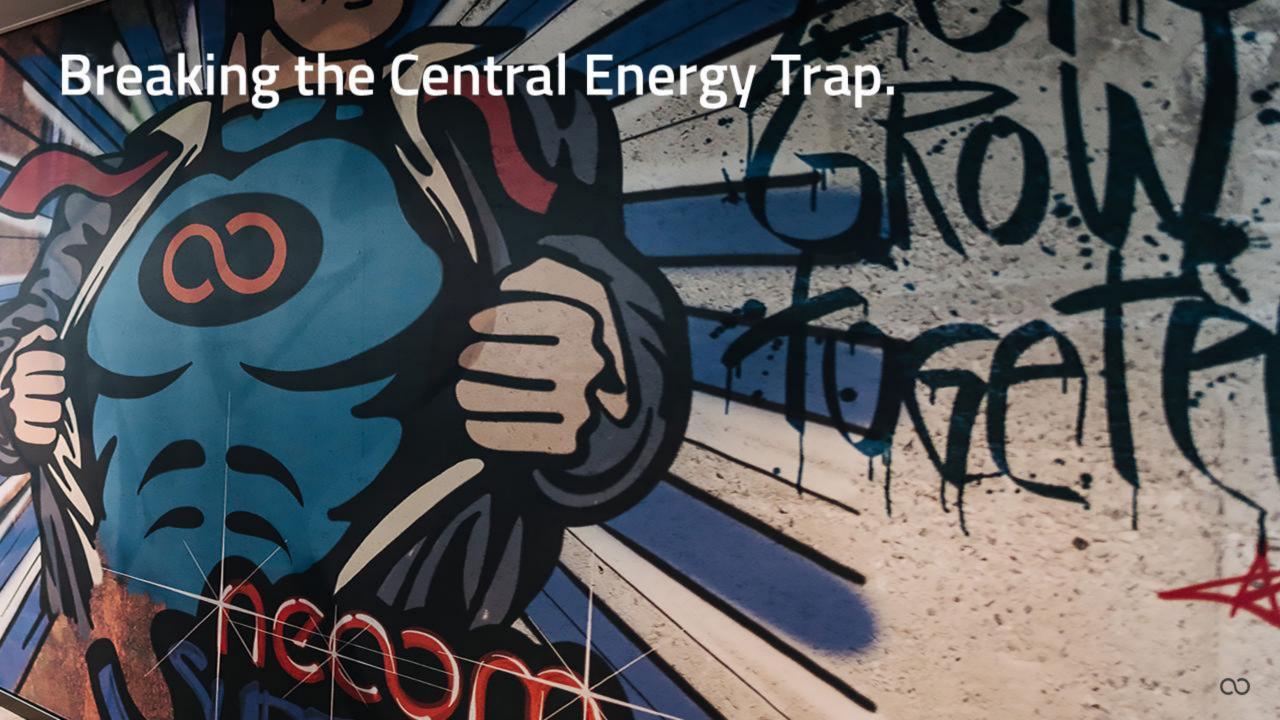


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WALTER KREISEL

CEO, NEOOM



NEOOM

Breaking the Centralized Energy Trap

The Problem: A Challenge for Energy Policy

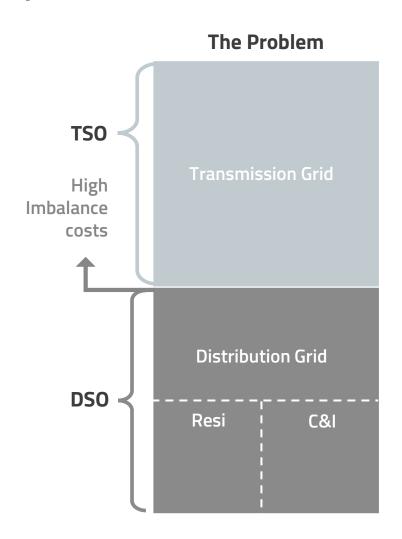
Slow Grid Expansion

High Costs of Infrastructure and balancing costs

Loss of Competitiveness

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Centralization Hinders Progress



NEOOM

Breaking the Centralized Energy Trap

The Problem: A Challenge for Energy Policy

Slow Grid Expansion

High Costs of Infrastructure and balancing costs

Loss of Competitiveness

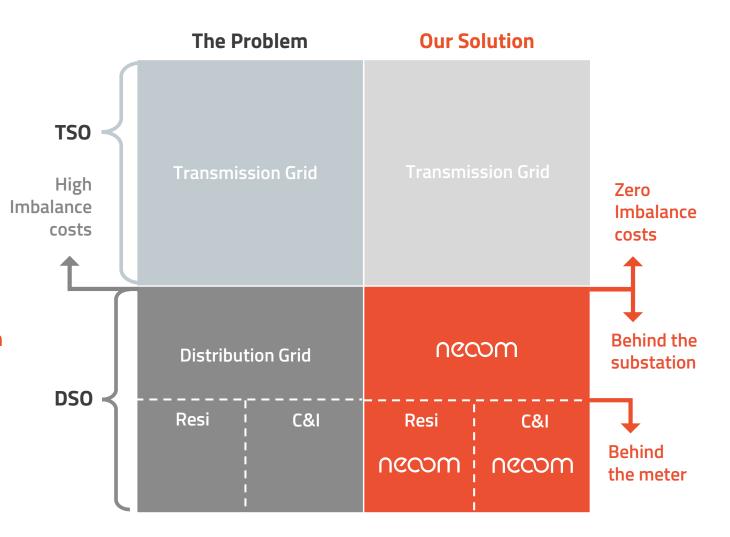
Centralization Hinders Progress

Our Solution: Empowerment Instead of Competition

Integrated Partnerorientatet Business Model

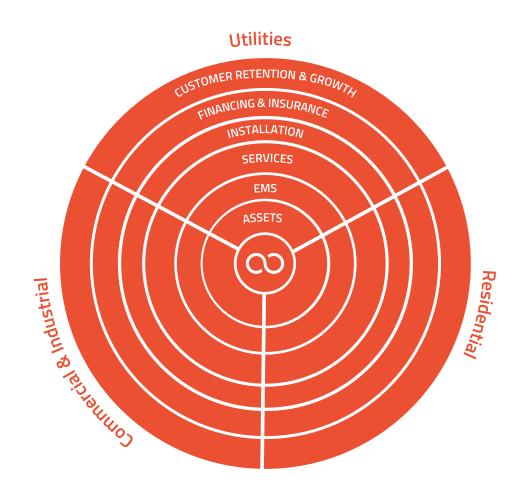
Multi-use cases around the Energy Market

Shifting grid investments and impalance costs in real Customer Value

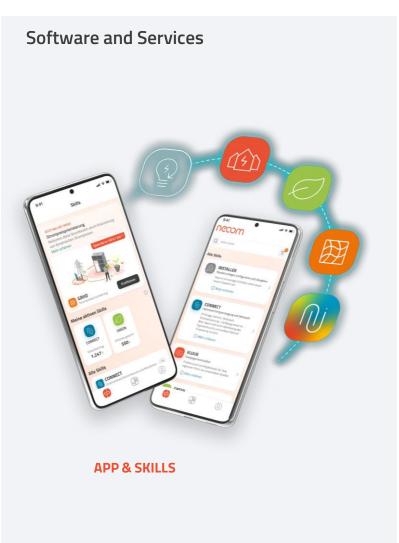


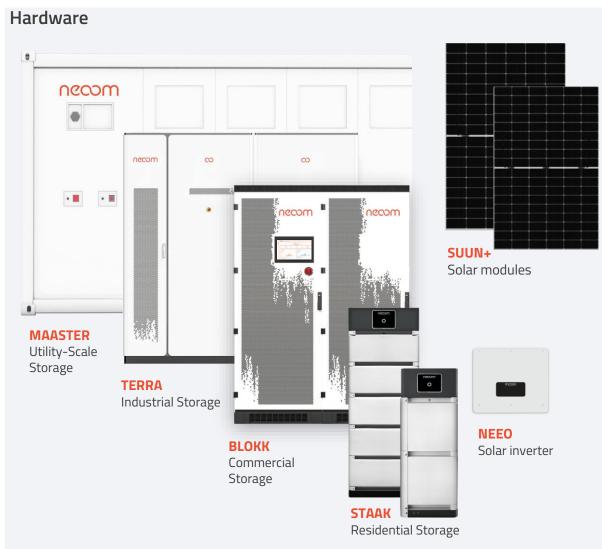
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Our Business Model



Full Overview of Technologies

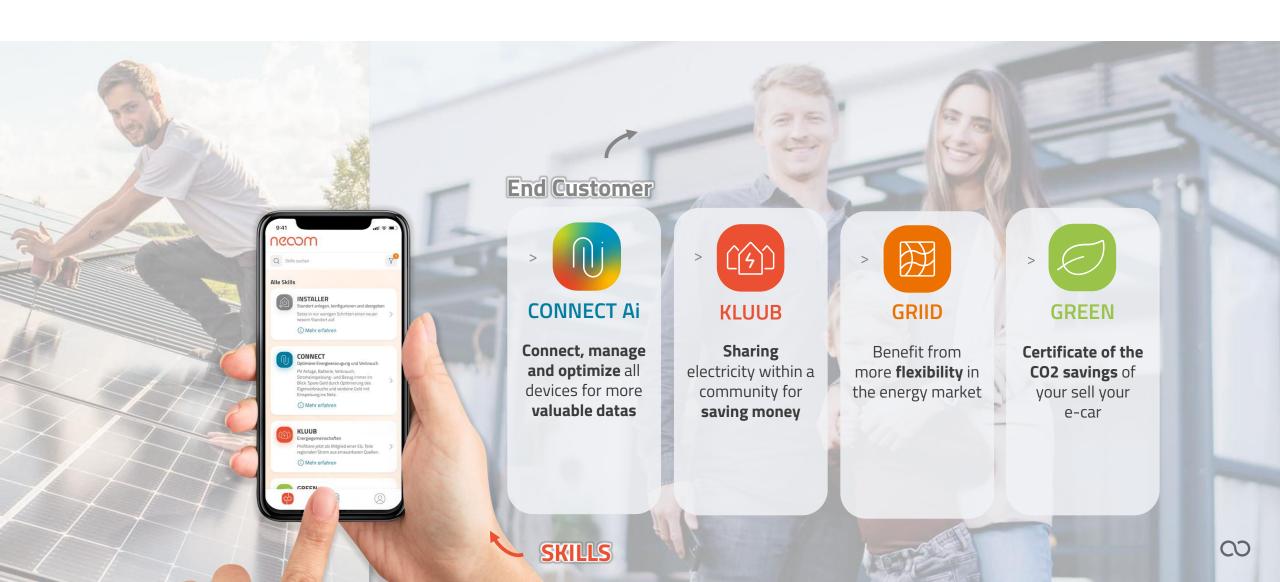




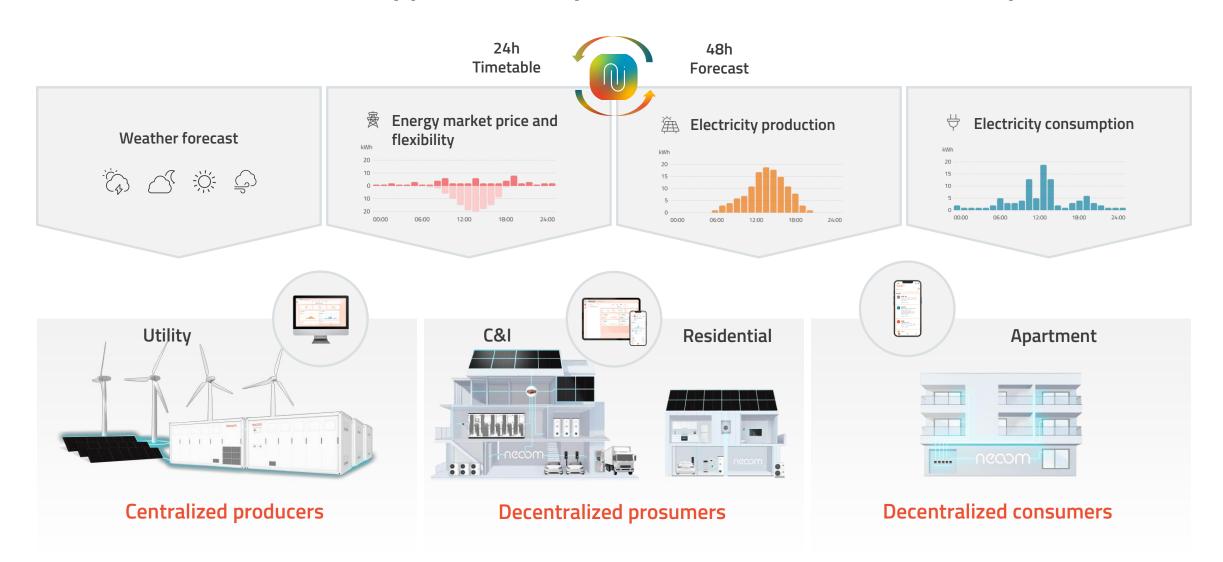




The digital Skills & Services



Data driven multi market approach to tap the full behind the substation potential



Our Ai connected World

61.223

Devices under control

11.446

Activated sites

31.125

Connected Prosumers

100.677

Total App downloads

13GWh

Peer2peer traded energy



NEOOM BUSINESS MODEL

Benefits for all stakeholders in the Behind-the-substation market

	0			
Products	neoom	Systempartner	Utility	Customer
HARDWARE	 Direct access to devices in the network Maximize impact through the full system leverage Cross-selling opportunitys 	- Hardware sales enable revenue through software sales	 Attracting more customers through added value Additional revenue streams 	 Independence Less energy price risk Less CO2 footprint
CONNECT Ai	 Access to data from all devices onsite customer needs and context based cross-selling based on data Additional recurring revenue stream 	 Offer faster amortization and higher annual revenue through software. Revenue participation in a scaling model Remote maintenance 	 Scalable business model participation Access to data for forecasting and pricing optimization Attracting more customers through added value 	 Simple usage Al trained per customer that takes many variables and forecasts into account for more efficiency and profit
(F)	- Crossselling hardware - Leveraging network affect in user and revenue growth - Additional recurring revenue stream	 Offer faster amortization and higher annual revenue through software. Revenue participation in a scaling model 	 Scalable business model participation Access to data for forecasting and pricing optimization Attracting more customers through added value 	 Increased independence through decentralized energy trading Reduced Energy Price risk Reduced energy costs (grid fees and taxes) and higher feed-in tariff
GRIID	 Attracting commercial and industrial customers Additional recurring revenue stream 	 Offer faster amortization and higher annual revenue through software. Revenue participation in a scaling model 	 Scalable business model participation Access to data for forecasting and pricing optimization Increase customer retention through combined intelligent products 	 Increased profitability combined with the support to integrate more renewable sources into our energy system
GREEN	- Crossselling hardware - Revenue from Carbon Impact Portfolio - Carbon offset	 Offer faster amortization and higher annual revenue through software. Revenue participation in a scaling model 	 Scalable business model participation Attracting more customers through added value 	 Possibility to donate a share of the payout to carbon reducing projects Easy way to sell CO2 savings of the emobility
REENT	 Assets under management Attracting new end-customer segments (growth) Additional recurring revenue stream 	- Attract and convert low-budget leads.	 Attracting more customers through added value Additional revenue streams on equity or loans 	 Less initial capital needed Earnings covers partly/fully system costs No equity capital required







Thomas Pellerin-Carlin MEP, **European Parliament**



Regulatory & Policy Manager, Sonnen



Dries Bols CEO, **LIFEPOWR**







Walter Kreisel CEO, **NEOOM**



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