



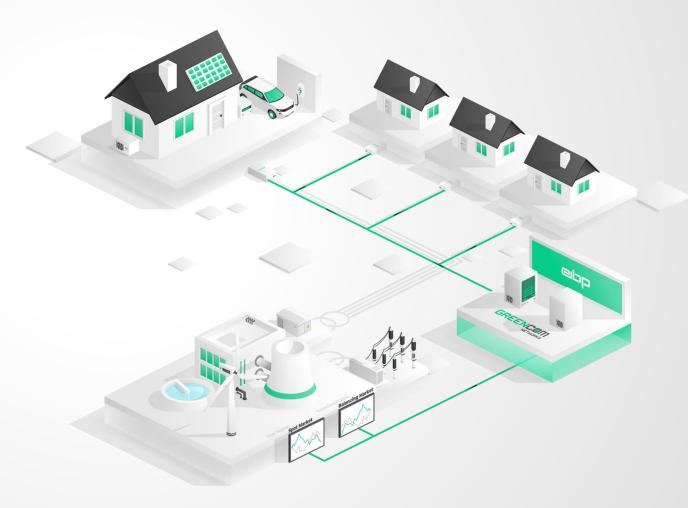
ENERGY TRANSITION DIALOGUE IN LUXEMBOURG

October 24 2019

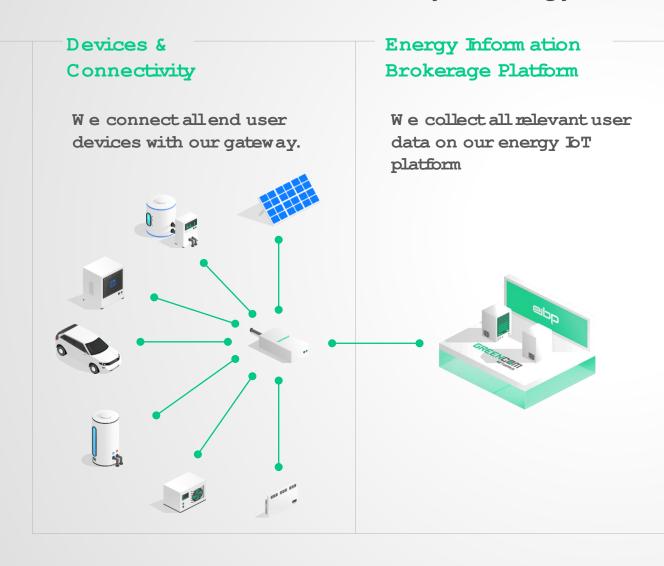
Who are we.

GreenCom Networks is a Germ an-French software-as-a-service company offering a white label Energy bT Platform to utilities, energy service companies and manufacturers of energy-relevant devices.

Our energy inform ation brokerage platform (eibp) enables energy providers to bunch disruptive digital business models while leveraging the increasing share of distributed energy assets and end consumers' demand for innovative services.



GreenCom has a unique end-to-end IoT solution to enable new digital energy services that transform today's energy Markets.



Use Cases

This data collection serves as base for several. application areas and use case.

Home Energy Management



Energy independence

- Power Flat-rate
- 21° as a Service

Aggregation Services



- Energy Communities
- Peer-to-Peer Energy
- Virtual Power Plants

Virtual Market Place











- Asset sales
- Energy supply contracts
- Repair and maintenance
- Insurances

Optimize local energy flows with eibp:boost and offer your clients an engaging end customer app.

eibp:boost



Features



Intuitive end custom er portal and app templates



Continuous custom er engagem ent



Machine-learning-based forecasting of connected devices



Machine-learning 2012 improve economics by up to 10% Machine-learning-based optimization of local energy flows to



Detailed reporting features for the local hero



Access to a broad device base of leading manufacturers through GreenCom's device driver library



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eibp:mesh – lay the foundation for a distributed energy community.

eibp:mesh



Features



Connecting customers with each other



Overall and individual production and consumption within energy community



Energy efficiency benchmarking features



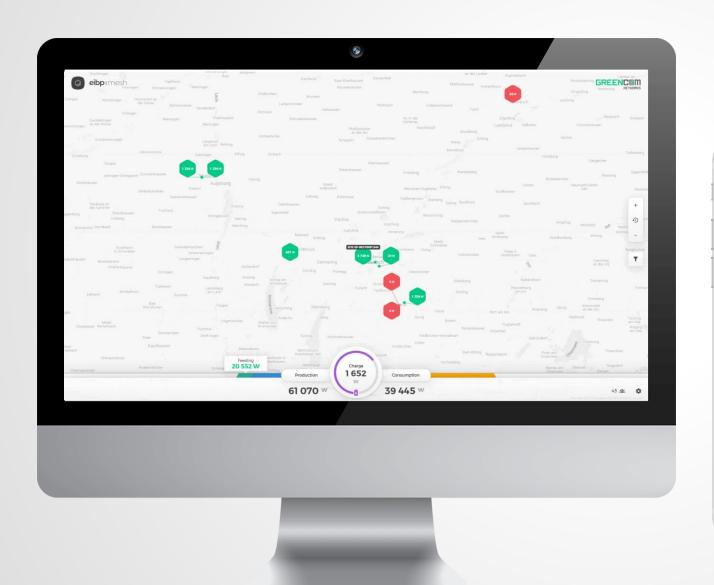
Gamification and competition amongst customers



Foundation for peer-to-peer energy through virtual energy sharing principles



Showing live energy flows within the community.







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Changing the paradigm – "shine" as a community movement from the bottom.





Create your own energy community



Fully digital customer interaction



Receive a bundled community supply tariff for all members



Real-time transparency on energy flows within community



Get an extra premium on top of feed-in premium on your local production



Real-time balance of financials, energy and CO2 footprint



Receive a discount on consumption during times of local production within your community



Gamification and interaction

eibp:cluster – our virtual power plant leverages the power of decentralized small assets.

eibp:cluster Available by End of Q3/2019 Private households Battery PV

Features



Integration with existing trading, VPP and ERP systems and energy market data



Integration of distributed generation, consumption and storage assets for an overarching automatic optimization of different asset types



Applied machine-learning technology for advanced forecasting and optimization



- Continuous optimization on the basis of actual market price forecasts across all liquid markets under consideration of asset-specific parameters
- Balancing markets (primary, secondary, tertiary control depending on the prequalification of the asset); Spot; Intraday



Logbook for reporting



Local optimizations are end-customer/customer specific.

How does itwork?





Configurable optimization goals

- Economic
- Autarky
- CO2



Production and consumption forecasts



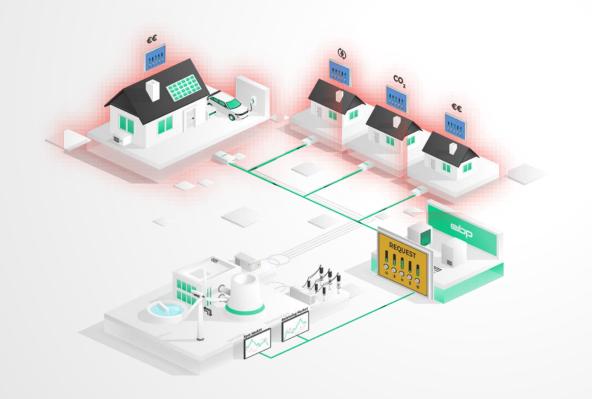
Comfort level aware



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Global optimization find the best way to use on the targeted market.

How does itwork?





Identify flexibility



Market price forecasts



Devices filtering and selection

- Responsiveness
- Availability
- Accuracy



Operational costs and constraints

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Example Smart City Business Model with RheinEnergie – Fully digital and sustainable energy community in Cologne.



Installations



700 customers, 16 apartment blocks



972.03 kWp



655 kWh Battery storage capacity, 64 kW



44 heat pumps, 184 kWel, 572 kWth



1,734 kWth district heating, 52,500 lbuffer storage

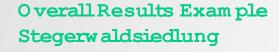


5 EV charging stations





Smart Cities generate significant benefits through an intelligent, fully digital energy management.



Im pact of
AI-based Optimization



independence from outside power supply



reductions of CO 2 emissions



energy cost savings



reductions of CO 2 emissions



increased independence from outside power supply





GREENC MM NETWORKS Thank you.

JAN LENGERKE

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Looking under the hood – our technology.

Cloud Platform

M ulti-Cloud



NoSQL Database



Eventbased



Micro-Services



Micro-Services



Dockerized



AI /Machinelearning



Applications

eibp:boost

Home Energy Mgmt.



Energy Comm unity



Virtual Power Plant

eibp:empower



3rd Party
Applications

Use Cases

Energy Independence

Power Flat-rate

21° as a Service

Energy
Com m unity

Peer-to-Peer Energy

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