

decentralizing power





Prosume provides utilities, aggregators, TSOs/DSOs and technology providers the blockchain software and support necessary for their product and solution offering to endusers, allowing them to regulate energy data management, trace all data flows and rest assured that all information provided is 100% verifiable and secure.



The perks of using

Blockchain

SECURE, INCORRUPTIBLE DATA

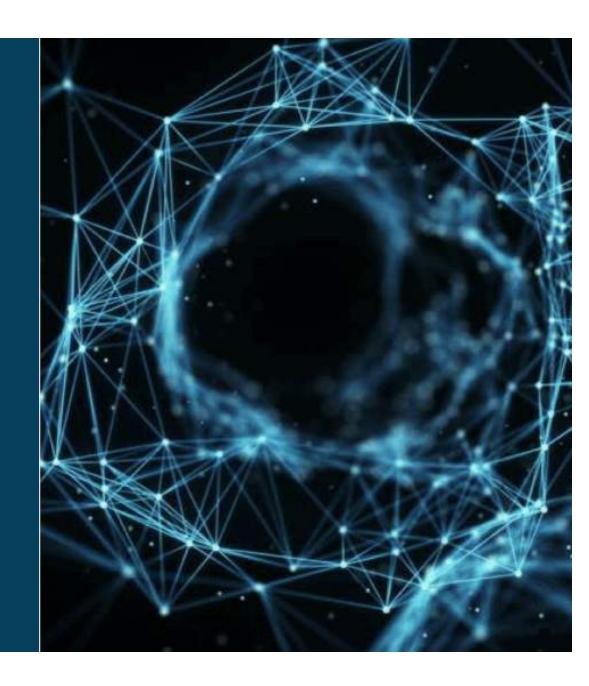
The immutable quality of distributed ledger means that consensus amongst all nodes in a network is required for information to be validated, resulting in tamper-proof data storage.

ENHANCED TRUST IN A TRUSTLESS SYSTEM

A decentralised approach to certifying all energy transactions between validated players in the ecosystem: consumers, prosumers, suppliers (utilities) and grid operators (distribution and transmission) means that power is not concentrated in the hands of a few, but spread out amongst many.

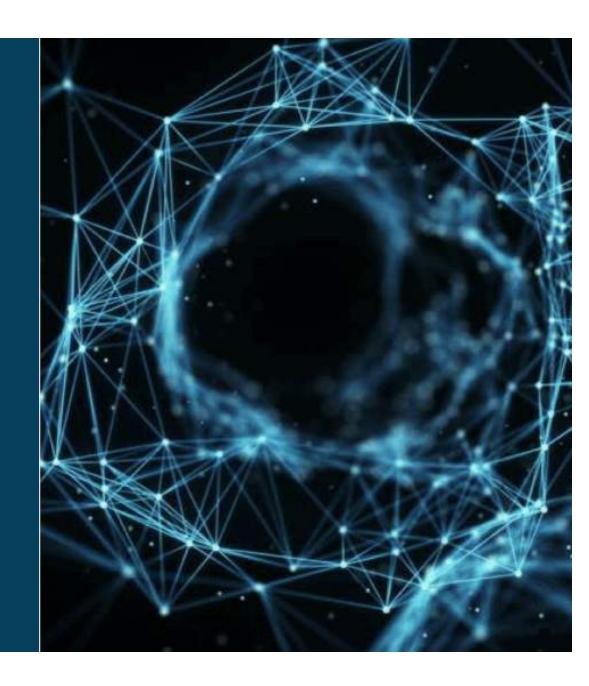
TRANSPARENCY & RELIABILITY

The universally accessible nature of blockchains means that each and every stakeholder can verify data with the assurance that it is correct and indisputable.



Our customers

- Utilities
- TSOs/DSOs
- Aggregators
- Energy communities
- ESCOs
- Technology providers



Our services

6 ways Prosume revolutionises the energy sector:

- i) Smart contracts
- ii) Smart billing δ Automated payments
- iii) Peer-to-peer energy exchange
- iv) Grid balancing
- v) Trading processes optimization
- vi) Energy source traceability





i. Smart contracts

Automatic regulation and settlement of transparent, on-demand energy flows and transactions.

ii. Smart billing & Automated payments

- Precise and instant monitoring of prosumers' energy consumption, production and energy expenditure.
- Regular, intervalled payment methods, with minimum delays and reduced collection costs.

iii. Peer-to-peer energy exchange

Prosume's solution integrates existing suppliers/aggregators as partners in the platform. Suppliers manage P2P interactions between prosumers through matching bid and ask conditions. All data will be easily retrievable by the supplier, easing internal billing processes.



iv. Grid balancing

Algorithmic management for the profiling and scheduling of prosumers' production and consumption by aggregators and in turn, grid operators.

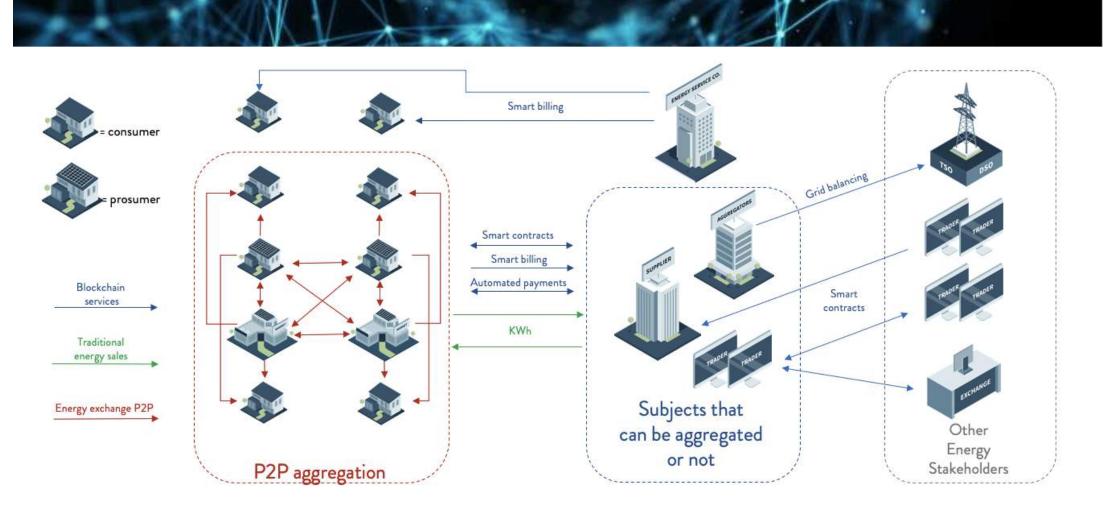
v. Trading processes optimization

Adopting blockchain technology, energy traders and market stakeholders can integrate processes and data (i.e. deals) coming from market exchanges or legacy systems on to a shared platform on which every entity can manage its own data and share such information with counterparts, grid operators, regulators and authorities.

vi. Energy source traceability

Tracing an energy's source, from production to consumption







Jan 2015

Birth of Dajie LTD Apr 2017 – Apr 2018

Energie Steiermar k project May 2018

Birth of Prosume srl Jun 2018

Joint
venture
with
Evolvere:
birth of
EProsume

Nov 2018

Win of Barcelona grant Feb 2019

Integration of software with Evolvere's IoT device

Jun 2019

Win of Ledger Program (Horizon 2020) Jun 2019

Integration
with smart
meters: birth
of Grid
Agility
Consortium

The team



Mattia De Vecchi CEO



Alex D'Elia



Daniele Morisco CFO



Giacomo Beretta Business developer



Fabio Cedronio Business developer Italy



Pierluigi Maori



Massimo Ferronato



Karolin Langfeldt Global business developer



Carlo Riganti Legal



Giovanni Quaglino Marketing & Product Strategy



Alessia Borge Country manager Spain



 $\begin{array}{c} \textbf{Amanda Lim} \\ \textbf{Communications } \boldsymbol{\delta} \\ \textbf{Branding} \end{array}$



Luise Müller-Hofstede Global business developer



Super cute developers

ENERGIE STEIERMARK PILOT

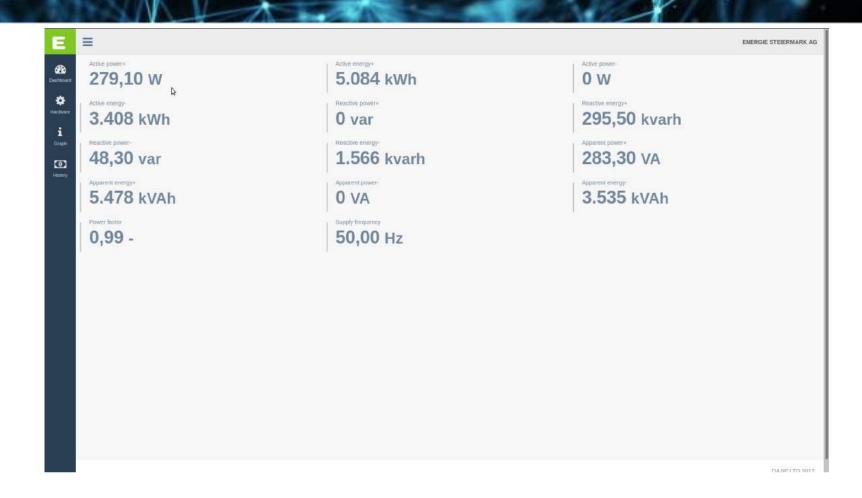
In 2017 Prosume (previously Dajie ltd) developed a pilot for Energie Steiermark (an Austrian utility company) and Next (the company's digital branch) with the goal of demonstrating a feasible peer-to-market use case amongst a utility's customers. The project started in April 2017 and remained active for a year.

Main features included the following:

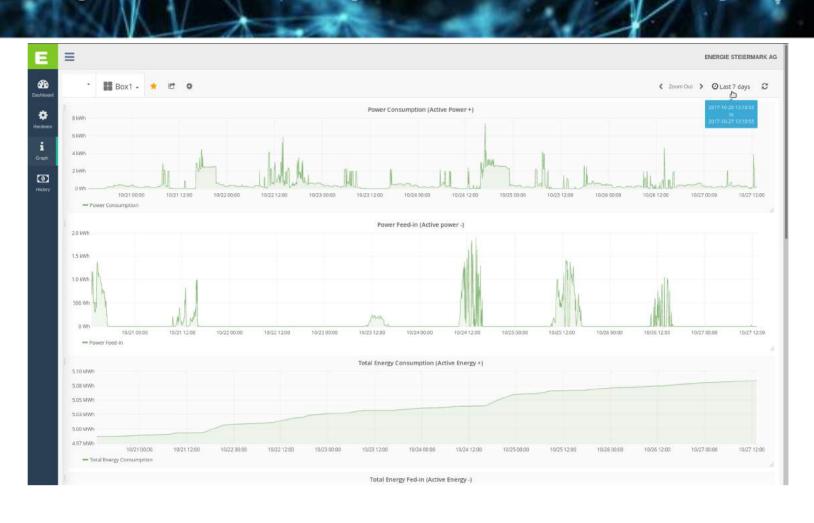
- Multiple assets on a single blockchain.
- Assets, issuable at any time.
- Decentralized asset exchange with bid δ ask order book.
- Embedding of memos within transfers (encrypted messages).
- Easy implementation of smart contracts can easily be implemented to match bid δ ask orders.
- Use of a permissioned blockchain, where blockchain owners control their account management for private use.
- Triple asset setup: payment token (DEC), transaction token (DAJIE) and kWh log token (KWH).

The project has since been put on hold, awaiting smart meter deployment.

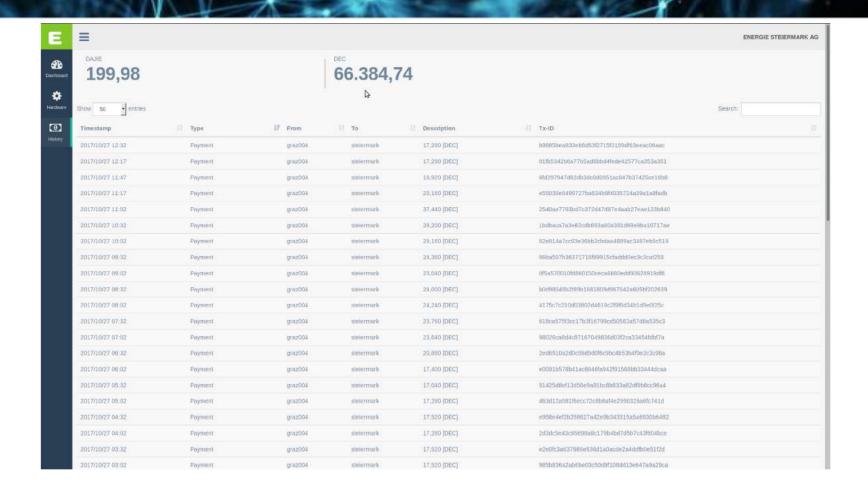
Energie Steiermark pilot: metered data



Energie Steiermark pilot: metered data graphs



Energie Steiermark pilot: transactions on the blockchain



Barcelona Energy Community

In Q4 2018, Prosume (through its subsidiary branch Prosume Solutions SL) won a grant from the city council of Barcelona to develop a pilot project for its community.

The project, "Barcelona Energy Community", focuses on the blockchain registration of data related to consumption, production and energy storage of the town buildings.

Due to the latest regulation permitting actual peer-to-peer energy exchange amongst communities (Real Decreto 15/2018), the pilot's main aim is to simulate energy exchange between city buildings.

The project will install around 20 blockchain light nodes in these buildings, adding to the nodes that will be cloud-hosted by June 2019. The project's validation will begin in September 2019 and conclude in December 2019.

We're currently in talks with the city of Barcelona in order to translate this project simulation into a real-life peer-to-peer situation by 2020.

Barcelona Energy Community

The main features of the service platform are:

- Deployment and validation of blockchain based tools that support smart communities of energy prosumers.
- Integration of power plant, storage systems and consumption sites.
- Peer-to-peer exchange of electricity between prosumers on a distributed micro-grid.
- Micro-grid management tools.
- Integration of the tools developed by the city council through the EU-funded DECODE project (development of the blockchain framework for energy will be based also on the specific requirements provided by the DECODE steering Committee).

Presenting e-Prosume

Blockchain technology enters the household

Italian energy aggregator Evolvere has allied with Prosume in an unprecedented partnership between a leader in the distributed generation sector and a blockchain solutions provider.

Managing around 12,000 PV plants, Evolvere's large network is significant: it will be the first time an aggregator has shook on a blockchain development plan, making e-Prosume the first project of its kind and proportions.





Smart homes: the future

Aimed at bringing the blockchain into smart homes, the joint venture's first plan of action is to integrate Prosume's software with EUGENIO, a smart home gateway manager.

Through an app on a device, e-Prosume allows homeowners to manage various aspects of their everyday lives: energy savings, safety, comfort and smart payments, in a wholesale upgrade of the definition of 'smart living'.

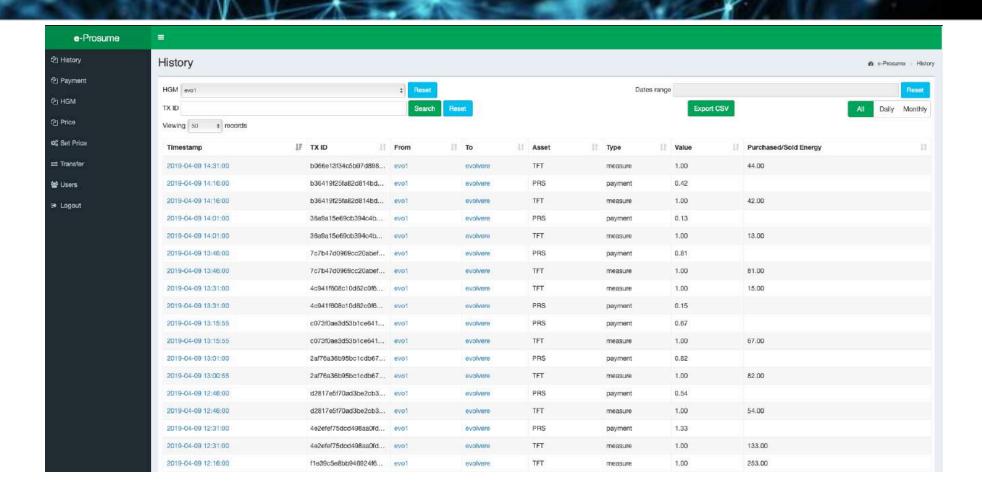


Nodes on a blockchain

Integrated and installed into homes (within a year) would be some of the first 2.000 smart home devices in the world that would represent the nodes on an energy blockchain network.

Through a customised cloud platform, this integration enables production and consumption data collection, progressing the liberalisation of the local energy market and evolving its smart grids. From the real-time collection and analysis of such data, end-clients will also enjoy new services made possible by recent IoT and Big Data technologies. The possibilities don't end there: e-Prosume will also offer Balance of System services to grid operators.

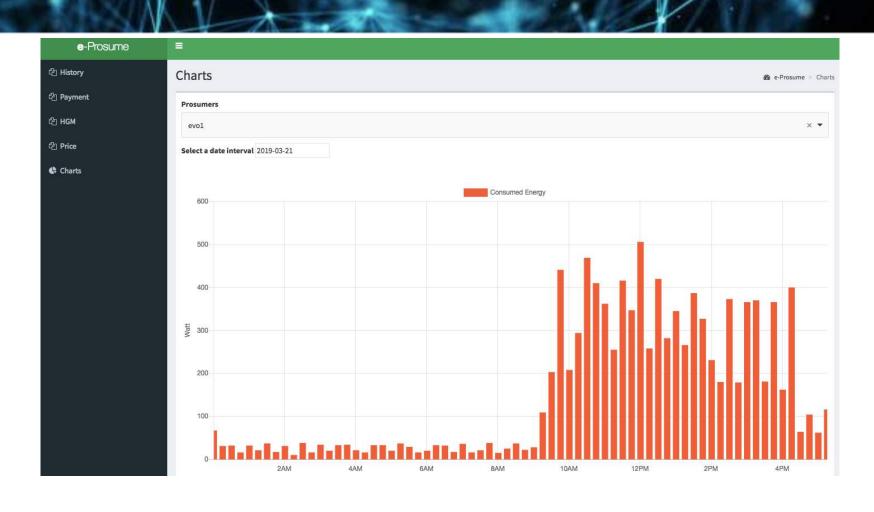
e-Prosume interface: measures and payments

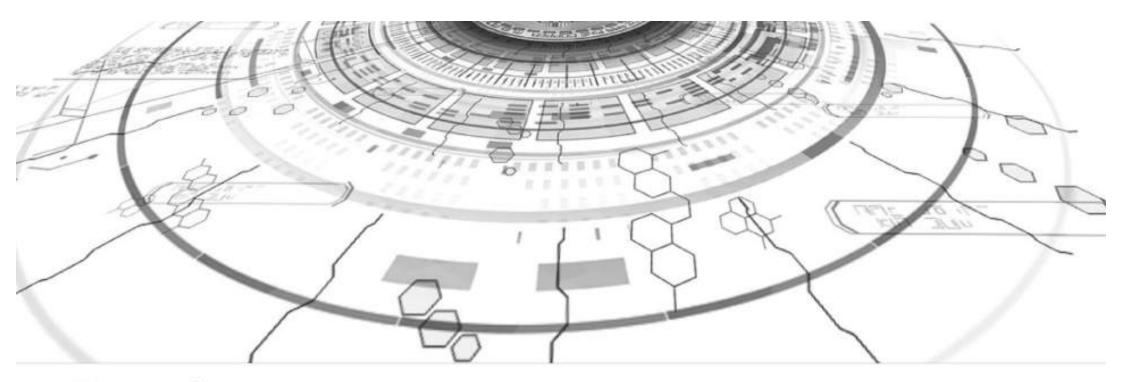


e-Prosume interface: "blocks"

e -Prosume	=		
연 History	Block 3767052		⊕ e-Prosume > block > 10762
리 Payment	Parameter	Value	
♣ HGM	Block Number	3767052	
② Price	Wallet Type	OperationTypeTransfer	
o° Set Price	From	evo1	
☐ Transfer	То	evolvere	
₩ Users	Asset	TFT	
⊕ Logout	Amount	1.00000000	
	purchasedEnergy	24993900	
	energyDiff	44	
	txID	b066e13f34c5b97d8982aaff3298a052	
	purchasedPower	177	
	reactiveEnergy	4516803	
	autoConsEnergy	0	
	consumedEnergy	44	
	buyPrice	0.01	
	sellPrice	0.01	
	subID	20934	
	Timestamp	2019-04-09 14:31:00	

e-Prosume interface: chart example





Thank you

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