Building Web3 Communities Through Energy Sharing

Smart contract powered energy exchange

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www.zertipower.com

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What is ZertiPower?

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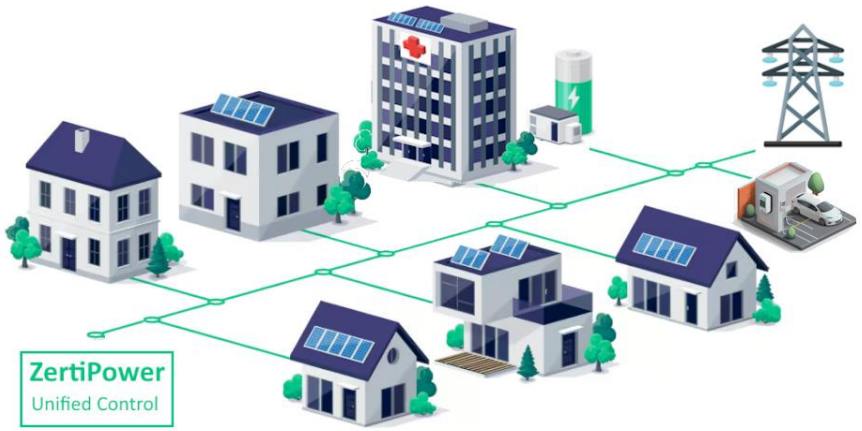
A platform for the **creation & management of Citizens Energy Communities (CEC)** that help facilitate the **energy exchange**.

An CEC is a member-ran community of users who share the energy produced **through the existing electricity network**.

The system **empowers citizens** to participate actively **P2P** in the energy system, **maximizes the microgrid benefits**, introduces a **circular economy** to improve the local economy and **monetize the microgeneration of renewable energy**.

ZertiPower is based on the most innovative technologies (**blockchain, web3, tokenization, and SmartContracts**) to guarantee traceability and transparency of operations.

These technologies prevent the manipulation and falsification of data **to guarantee trust in a decentralized network** without any central authority.



KWh-EKW exchange

Microgrid

Decentralized Energy Communities

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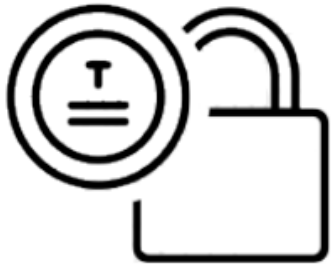
P2P Energy Sharing

Data App for Prosumers and Energy Aggregators

Data App for Energy Mapping



Tokenization

Decentralized Autonomous Organization (DAO): Governance & Security

Monetization: Circular Economy Energy Attribute Certificates (EAC)

Tokenization

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Token EKW

Energy + Circular Economy

StableCoin with 2 functions:

- Token for KWh exchanges between members
- Boost the circular economy

EKW Tokens | Local Economy

Token ZEAC

Renewable Energy Certificate

Tokenized EAC:

- Integrates full traceability.
- Can be traded and transferred but never duplicated, counterfeited or manipulated

ZEAC Tokens | Renewable Energy Certificates

Token ZDAO

DAO Governance Equity Token

Shares of DAO led actions.

These tokens guarantee:

- Right to vote & community governance
- Ownership rights of KWh produced

DAO Tokens | Governance

MicroGrid: Decentralized Energy Community

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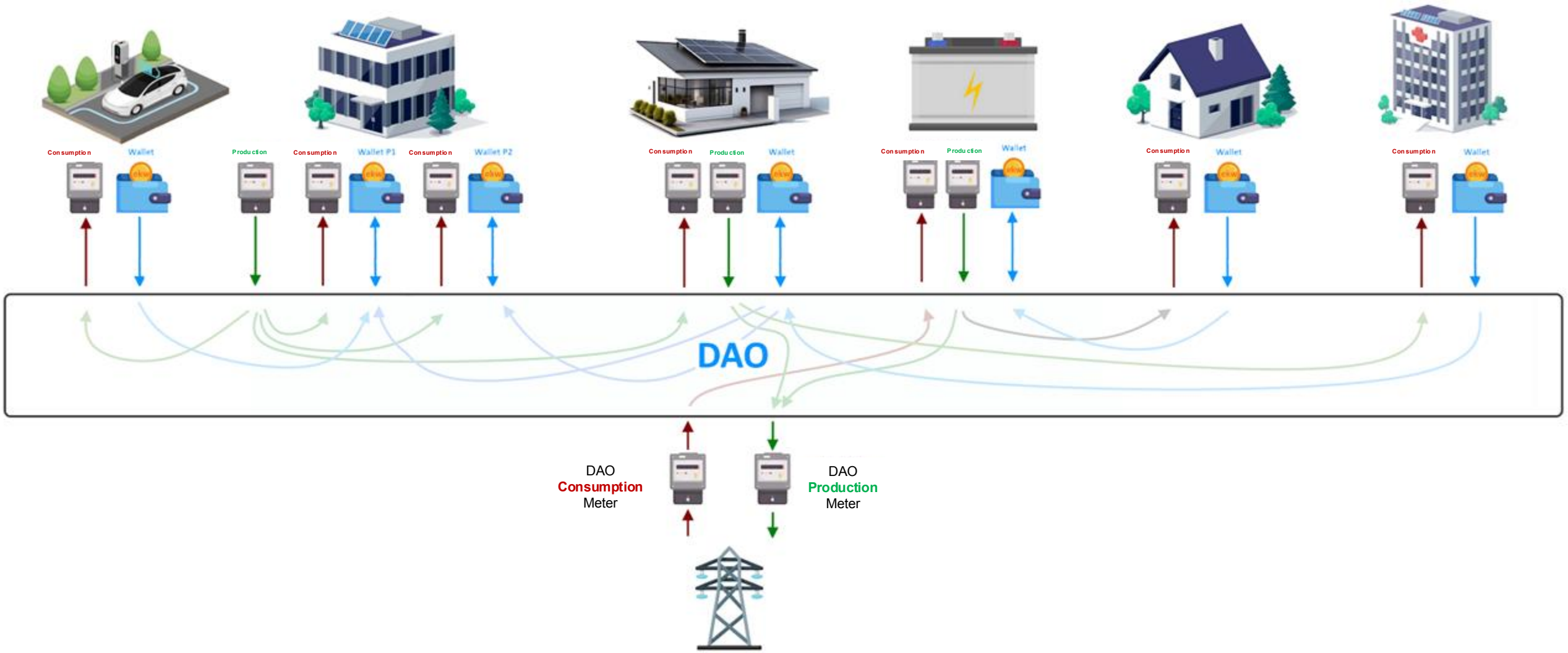

Power App: Multiple features into one dashboard

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Characteristics:

Energy:

- Self Production & Consumption
- Global production & Distribution quota of the shared installation unit
- Historical Data: daily, weekly, monthly, and annual

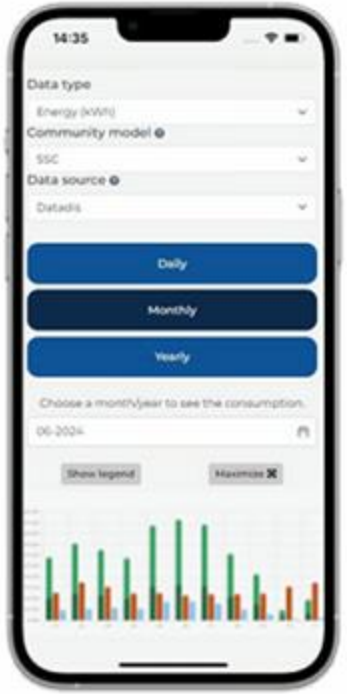
Wallet:

- EKW Balance
- A detailed list of KWh exchanges for EKW tokens
- EKW community exchange via QR code

Governance:

- Community-governed proposal & voting system

Features:



Wallet

Historical Data

Consumption

Community Production

Governance

Voting

All in one App | Energy | Wallet | Governance

P2P Surplus Exchange

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MicroGrid Functionality

Community members exchange their surplus of generated energy with other consumers who have a deficit, P2P, through the electric grid.

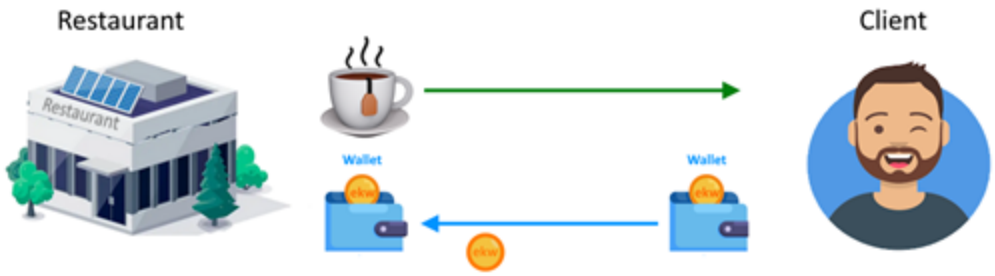
ZertiPower automatically synchronizes energy production and consumption between the members to avoid sending surpluses to the grid.

The system automatically compensates the flow of kWh between producers and consumers by transferring the corresponding EKW, based on supply and demand or market price.

KWh – EKW Exchange

MicroGrid

Circular Economy



EKW Token Exchange: Goods + Services

EKW token drives local economy by providing the ability to exchange locally-sourced goods & services at nearby businesses

EKW Tokens | Local Economy

P2P Mobile App Transfer

The ZertiPower App has a digital wallet functionality, which allows users to easily make P2P EKW exchanges using a QR code

Mobile App + Wallet | QR Code

Monetization via Energy Attribute Certificates (EAC)

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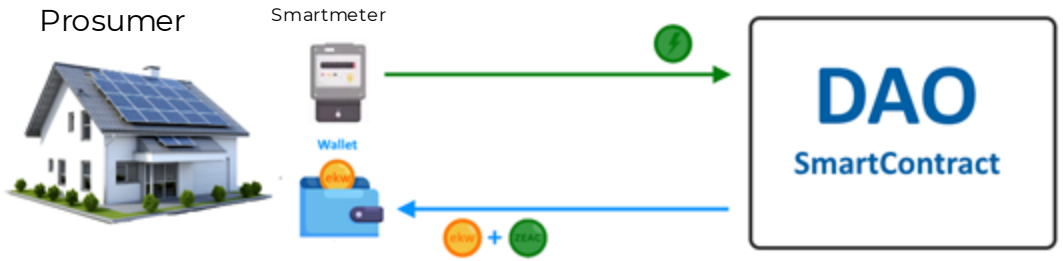
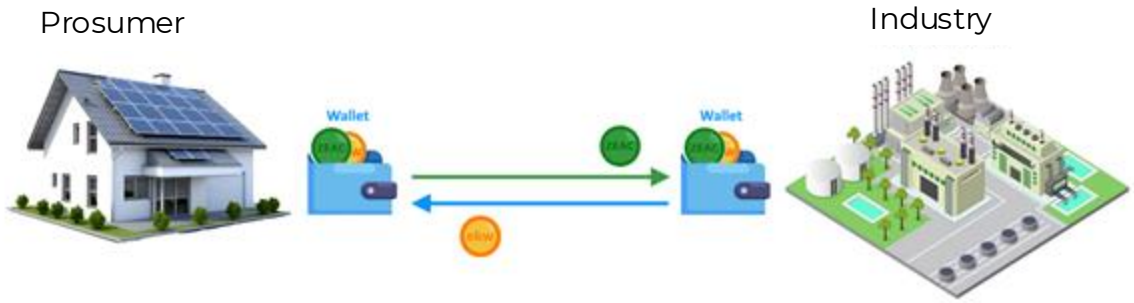


Tokenization of EAC (ZEAC)

- Prosumers are compensated in ZEAC tokens for the generated KWh.
- Each ZEAC token is equivalent to an EAC and can be sold on the open market, generating extra income that improves a facility's ROI.

ZEAC Tokens | Renewable Energy



ZEAC Token Purchase

- Companies can purchase EACs directly from prosumers to optimize costs
- Tokenization simplifies operations, guarantees authenticity, and certifies traceability.

Traceability | Authenticity

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Thank you!

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