



Power Ledger

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**What we do**

AUGUST 2018



Since our inception in May 2016, the Power Ledger Platform has continually evolved and improved. We have deployed in six countries. We are broadening the focus of our applications to include carbon, virtual power plants and asset ownership.

Being a leader in the Entech space, Power Ledger is at the forefront of:

- > Blockchain design & smart contracts designed for the Energy industry
- > Frictionless payment systems including cryptocurrency
- > Infonomics
- > Intuitive user interface & experience
- > Information security
- > Interoperability with leading smart meters
- > Scaling to achieve high volume, high speed and low cost transactions
- > Interfacing with existing client and market systems
- > International market regulations compliance (energy industry & cryptocurrency)
- > Cryptographic token dynamics
- > Live project implementation
- > Servicing global partnerships
- > Defining emerging trends & next generation products



cutting-edge  
blockchain solutions  
for the energy sector



why the need for a  
new energy system?



## The traditional, centralised energy system

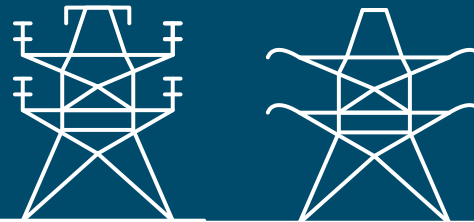
Electricity is generated from carbon-intensive, centralized sources, far from the end user. The infrastructure is impacted by natural disasters. End users have no control of where their power comes from, if the system fails or the price they pay.

Large Scale  
Generation



CARBON-  
INTENSIVE

Transmission &  
Distribution



INEFFICIENT

Retail



EXPENSIVE

Consumer

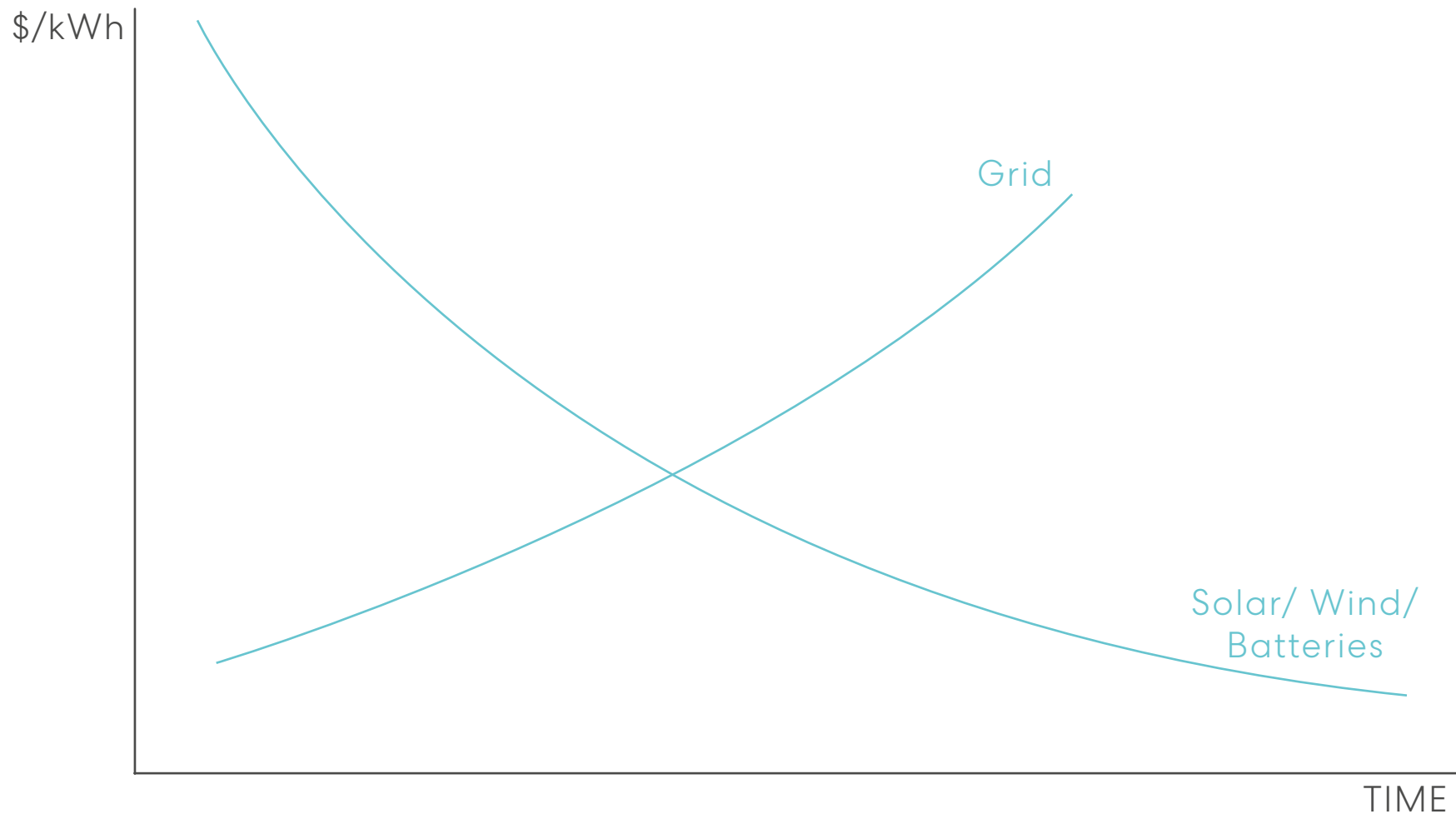


DEPENDENT



## Pressure for reform

As renewable energy becomes more affordable, more end users are electing to generate their own power. Those left using the grid are forced to absorb the cost of maintaining the grid infrastructure.

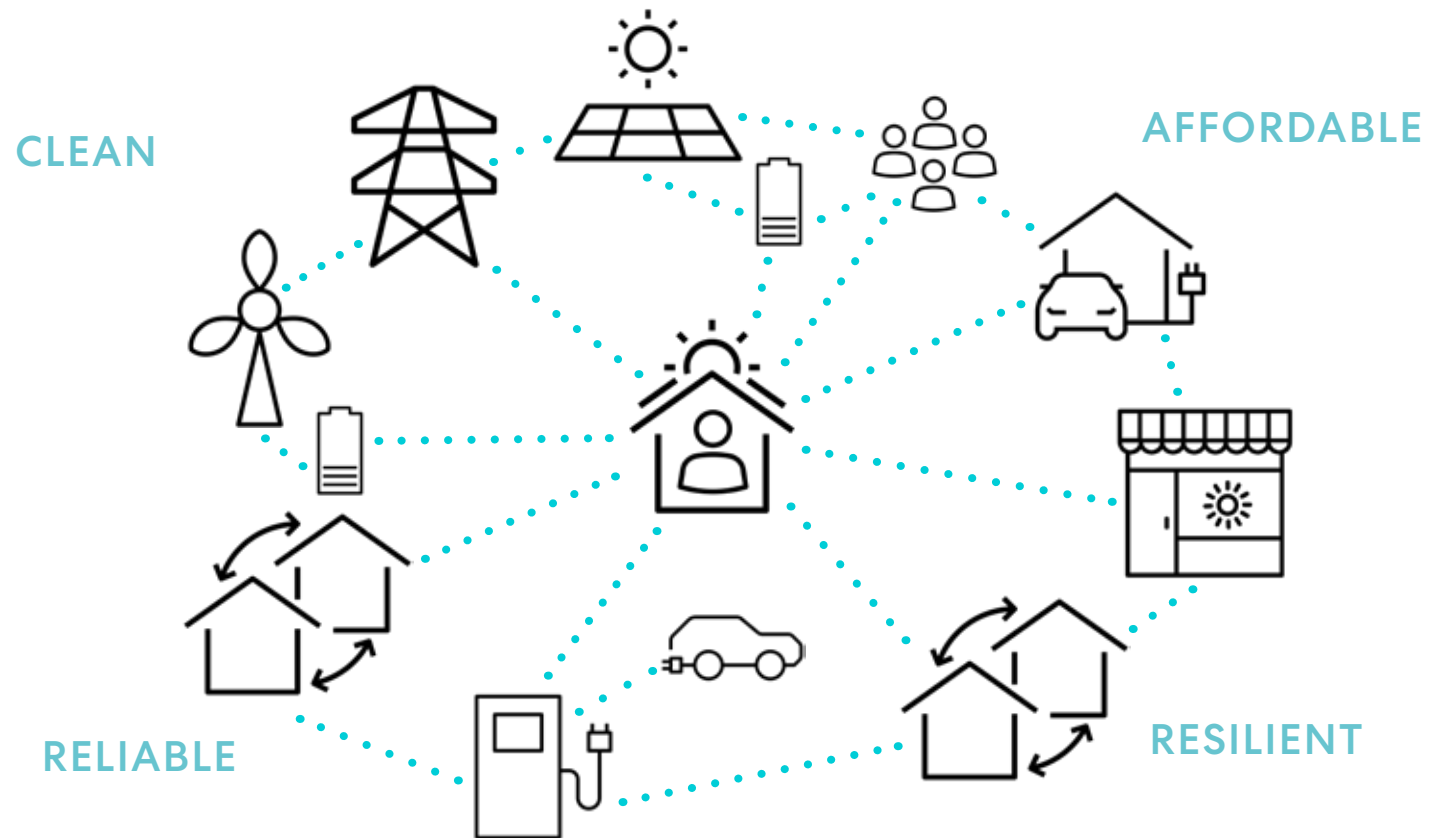




## The new, distributed energy system

Putting electricity consumers at the heart of the energy system, with an emphasis on renewables and storage, saves carbon and strips out cost. Energy is generated and owned by many and distributed to all, as close as next door.

This solves market dysfunction and cost inefficiencies AND builds in RESILIENCE. During natural disasters, a distributed energy system is more secure and reliable.



# Our Products



PEER-TO-PEER  
ELECTRICITY TRADING



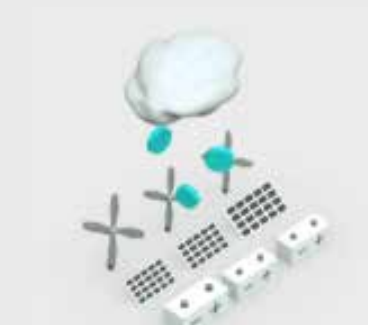
ELECTRIC VEHICLE  
CHARGING



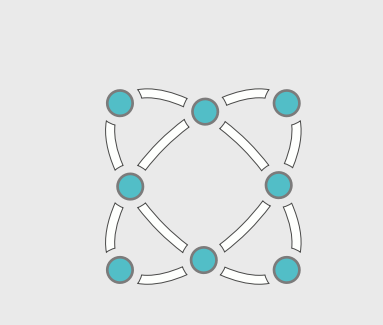
CARBON MARKETS



MICROGRID  
MANAGEMENT &  
TRADING



ASSET GERMINATION  
EVENTS



DISTRIBUTED MARKET  
OPTIMISATION



## xGrid

### Peer-to-Peer electricity trading across the regulated electricity network (the grid)

Energy retailers are able to empower their customers with a unique product offering which gives them access to cheap, clean, renewable electricity, even if they don't have the means for generating clean energy themselves. The blockchain provides an instantaneous and low-cost settlement mechanism that is secure and fully transparent.

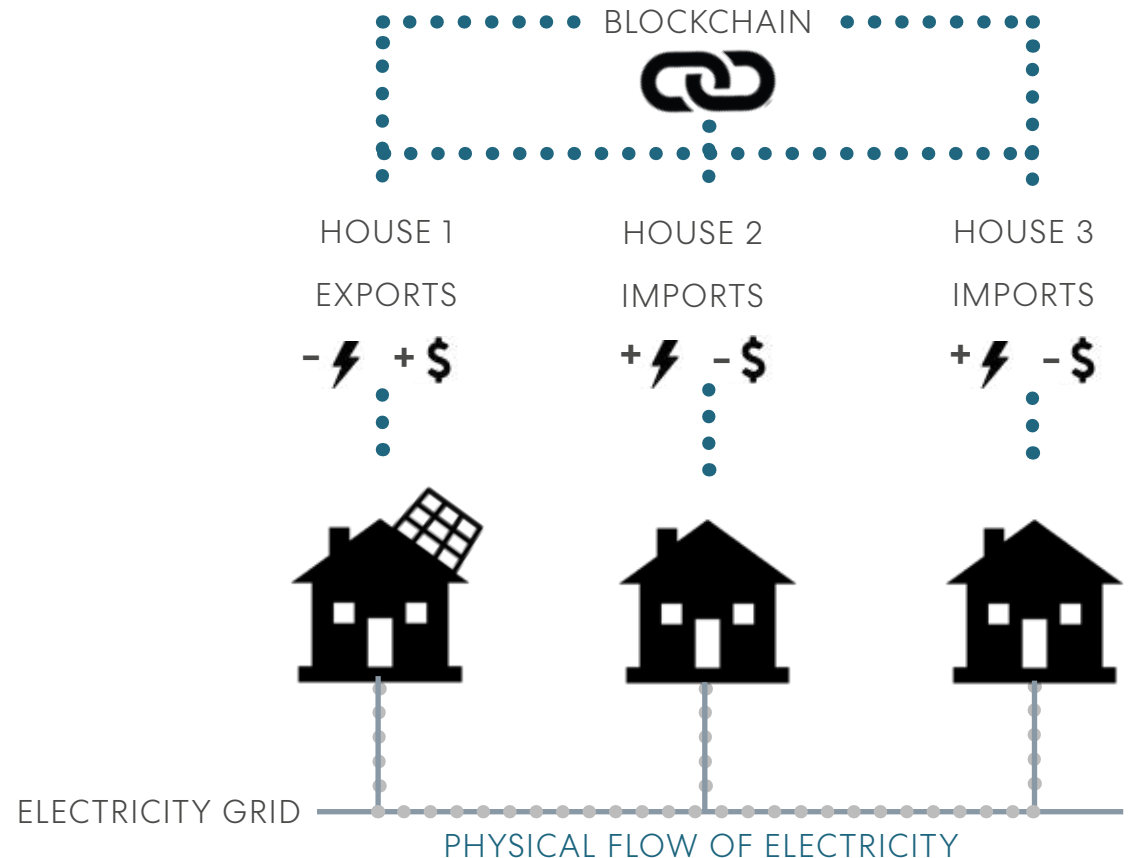
By utilizing blockchain technology, xGrid allows neighbours to trade low-carbon energy, make an income from their excess generation and receive a better return on renewable energy investments. Ultimately passing savings on to customers, leading to lower power bills.

#### Benefits:

- > Competitive advantage for innovative retailers
- > Better returns for excess generated energy
- > Transparent, secure and instant electricity transactions
- > Low-cost payment system

#### Perfect for:

- > Any household, office or retailer connected to the electricity grid
- > Those producing renewable energy, such as through solar panels
- > Electricity retailers wanting to empower their customers by offering clean, renewable energy
- > Those wanting more competitive electricity prices







## μGrid

### Peer-to-Peer electricity trading behind the regulated electricity meter

Electricity consumers within an energy microgrid or embedded network are empowered through complete visibility of their electricity usage and transactions; simply, securely, transparently and available to be viewed in real-time.

For building or complex owners and strata managers, μGrid enables electricity metering, big data acquisition, rapid micro-transactions and microgrid management at an unprecedentedly granular scale.

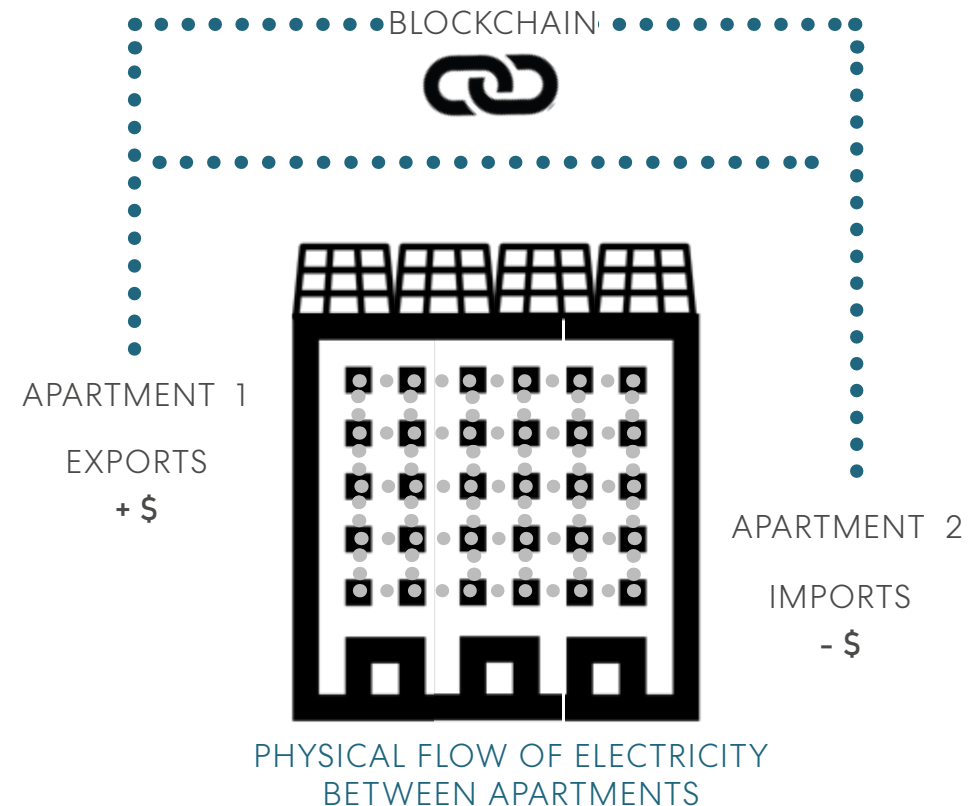
μGrid also breaks the nexus between energy generation and consumption in these environments by generating revenue from renewable energy assets, including solar panels and batteries, even if the investor of these is absent or when there is excess energy generation.

#### Benefits:

- > Transparent, secure & instant electricity transactions
- > Low-cost payment system
- > Big data acquisition
- > Rapid micro-transactions
- > Granular microgrid/embedded network management

#### Perfect for:

- > Anyone in a microgrid/embedded network environment including:
  - Residential strata complexes, such as apartment buildings or units
  - Shopping centres
  - Retirement villages
  - Caravan/holiday parks
  - Industrial parks





## Power Port

### Electric vehicle metering & settlement

Power Port provides a superior experience for anyone interacting with Electric Vehicle charging stations. Providing transparent, secure and real-time metering, Power Port also enables a simple, convenient and instant payment method.

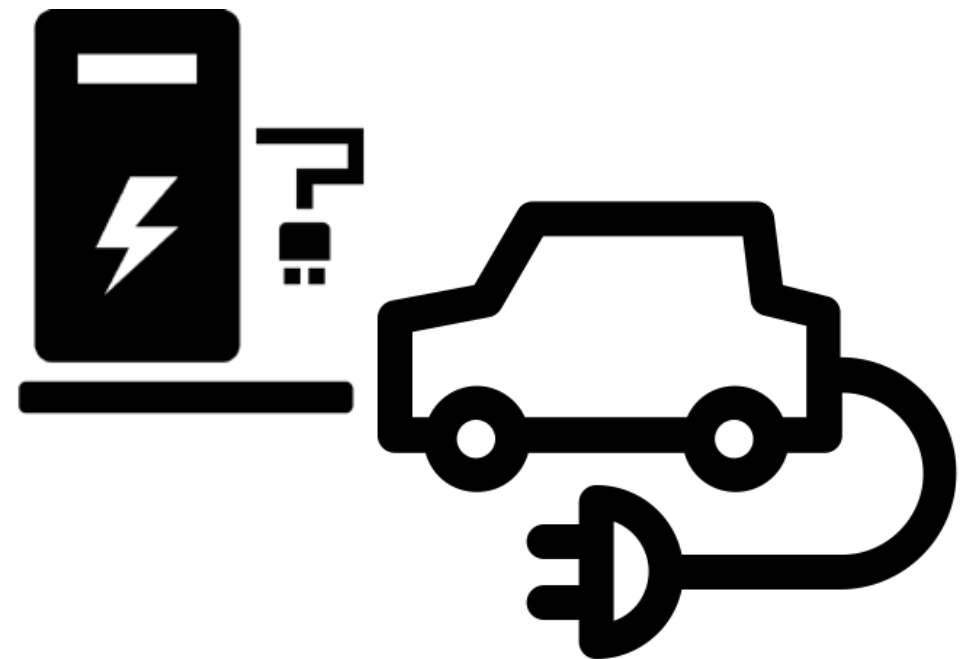
In environments with onsite renewable energy generation, enjoy increased flexibility by being able to choose which source the electricity to charge your Electric Vehicle comes from, with clean energy being especially affordable.

#### Benefits:

- > Transparent, secure & instant electricity metering & settlement
- > Low-cost payment system
- > User identification
- > Integration with existing systems (Open Charge Point Protocol (OCPP))

#### Perfect for:

- > Owners of Electric Vehicle charging stations



## C6 and C6+

### Carbon Credits and Certificates

Enjoy reporting ease through the creation of fully transparent, secure and instant digital records validation. C6 provides significantly improved efficiency and cost savings by using automated reporting for generation of carbon credits and certificates.

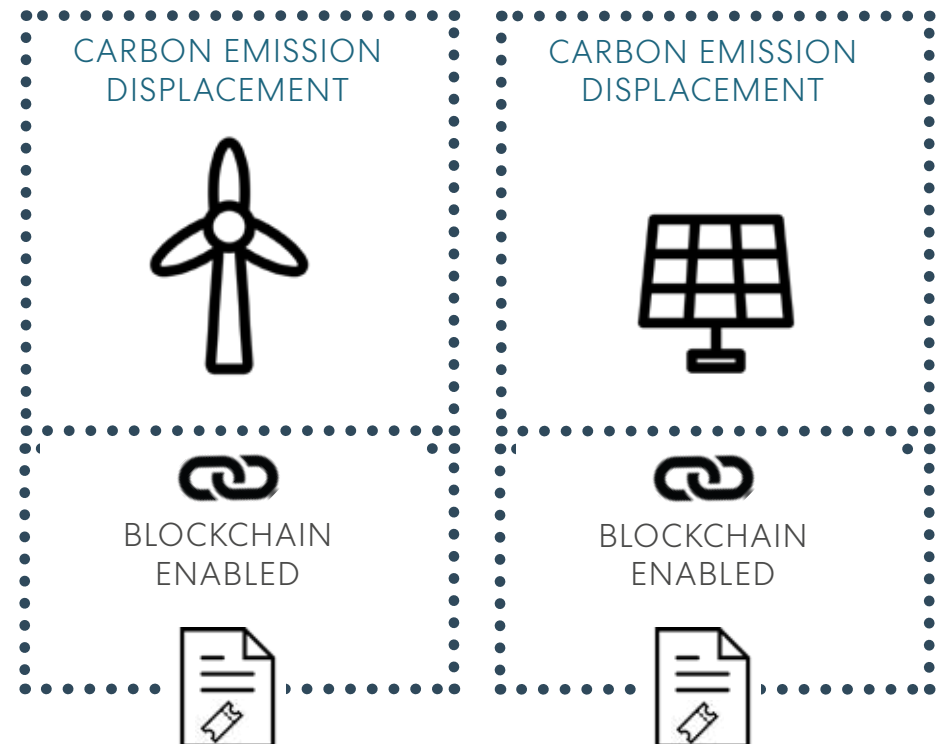
Underpinned by Power Ledger's blockchain technology, C6+ offers complete ledger visibility, ensuring all transactions are completely immutable and reliably audited. Further trust and security is built into trading carbon credits with C6+ through smart contracts..

#### C6 Benefits:

- > Transparent, secure & instant electricity transactions
- > Low-cost payment system
- > Big data acquisition
- > Rapid micro-transactions
- > Granular microgrid/embedded network management

#### C6 Perfect for:

- > Anyone in an microgrid/embedded network environment including:
  - Residential strata complexes, such as apartment buildings or units
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# Asset Germination Events

## How communities can fund and generate revenue from shared renewable energy infrastructure

Asset Germination Events (AGE) empower communities to monetize their co-owned renewable energy assets such as solar panels, wind turbines, Electric Vehicle charging stations, batteries and more. This promotes faster uptake of renewable energy assets and communities having an energy system that is more resilient and clean.

### Benefits:

- > Not classified as a security
- > Available to all to invest in
- > More affordable due to the removal of intermediary fees
- > Less barriers promotes the rapid deployment of renewable energy
- > More communities with resilient, affordable and clean energy systems

### Perfect for:

- > Anyone wanting a cleaner, more affordable and resilient energy system



NOT A SECURITY



REMOVES  
INTERMEDIARY  
FEES



AVAILABLE TO ALL



PROMOTES  
VALUE CREATION  
OF RENEWABLES



RAPID  
DEPLOYMENT

## VPP2.0

### The next generation of our xGrid product, to service Virtual Power Plants

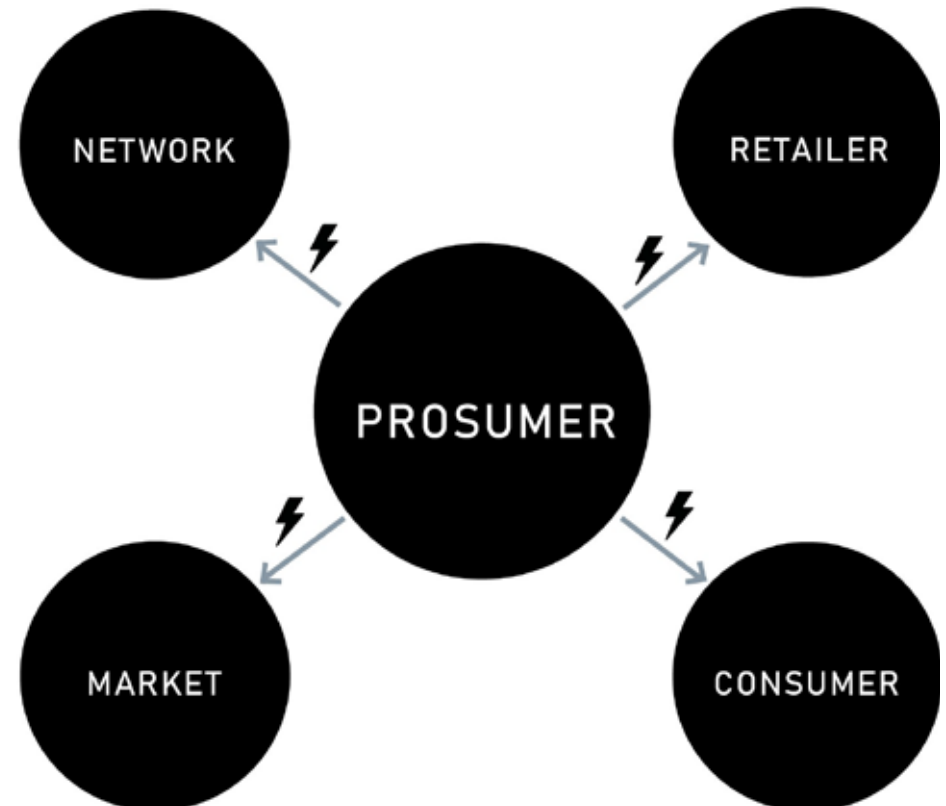
VPP2.0 takes Virtual Power Plant concepts to the next level by creating a conduit for the transaction of value between the owners of distributed energy resources and multiple counterparties. Self-executing Smart Contracts integrate with system controls creating an autonomous, power market with secure value transfer between consumers, networks and energy markets.

#### Benefits:

- > Resilience through self-healing networks managing faults
- > Network control services
- > Frequency control services
- > Power quality management
- > Capacity management (load shaping)
- > Peer-to-Peer trading

#### Perfect for:

- > Electricity retailers





**Reliable, affordable & clean energy.  
For everyone.**

Maintaining our priority focus around superior product offerings, we remain committed to our vision for a democratized energy system.



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