Energy Commons Protocol

INTEROPERABILITY BETWEEN AND WITHIN ENERGY SYSTEMS

PROSUME
decentralizing power

The Energy Commons Protocol (ECP) leverages DLTs to break data silos and centralisation in the energy sector. ECP completes our offering by allowing the interoperability (between them and with the energy infrastructure) of so far fragmented services:

- P2P energy production and consumption by prosumers
- smart billing and settlement procedures
- carbon credits tracking

The decentralised pool of data will primarily allow empowering prosumers to contribute to grid balancing, gaining agency over big centralized players. Secondly, the availability of (almost) real-time data on individual consumption allows smart billing and the cut of intermediaries and bureaucracy in the settlement procedures.

Finally, the registration of carbon credits certificates in the ledger will impeach their illegal exchange/reuse, as well as allow communities of prosumers to receive them. Hence, ECP will optimise the whole sector while promoting renewables (prosumers' main production) and sustainable behaviors.

MAIN FEATURES

- Standardized data structure of energy production/consumption
- Protocol for the exchange of certified data
- Decentralized ledger of exchanged values

The goal is to build a simple system where settlement procedures of locally metered energy data exchange can easily be communicated between providers / utilities / aggregators and standard DSO/TSO (even between Country borders) and between clients without a centralized server or the need of intervention, translation or substitution of actual systems in place. Thus providing granular definition of privacy layers while preserving accuracy and transparency of data.

KEY POINTS

- company: Prosume Solutions sl
- counterpart: Ledger Consortium
- type: Grant
- date: May 2019