

# A Blockchain-based Solution for the Energy Market: “Tokenization of Energy Quantities”

## What?

Blockchain or distributed ledger technology has been picking pace significantly across the **energy sector**. Two of the biggest challenges of energy markets today are the **appropriate regulation** of falling costs due to decentralized renewable energy sources and the introduction of the **internet of things (IoT)**. Peer-to-peer exchanges were seen as a solution to the decentralized structure of renewable energy sources with the challenge of energy security concerns. Moreover, the growing digitization of smart city solutions and IoT devices has generated high volumes of data to consume huge amounts of energy.

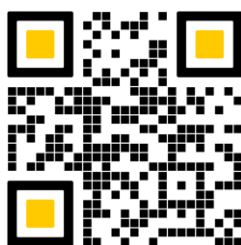
Blockchain technology can be a promising tool to **tokenize energy assets**, to record and facilitate transactions between producers and consumers of energy. There are currently some innovative blockchain-based approaches such as:

- peer-to-peer electricity trading
- management of renewable energy certificates
- decentralized grid management, tokenization of energy assets
- regulation of energy price fluctuations

## Why?

One of the recent solutions is **ZipZap**, which is essentially a tool to tokenize energy quantities. It depends on the innovative idea of peer-to-peer energy exchange. As the owners of the generators can consume their own energy and sell any excess to their neighbours or the grid using a non-fungible tokenization standard. Such blockchain technology solutions can improve the efficacy of energy markets, provide more transparency and facilitate the integration of distributed energy sources with reduced costs. As such, blockchain technology applications are indeed paving the way for a promising future in the energy sector. It would not be a wild guess to say blockchain solutions can treat the disadvantages of centralized legacy energy systems.

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