

## CASE STUDY

# Accelerating the Energy Transition with Web3

Aventus' enterprise-friendly blockchain solution offers seamless transition to enhanced security for a global energy leader



## AT A GLANCE

### Industry

Energy

### Challenges

Energy Web needed a solution that could provide production-ready, reliable and completely trustless blockchain infrastructure including governance and token mechanism.

It also needed to build an SaaS platform that could easily be independently governed by a range of authorised stakeholders.

### Results

- Over 7.5 million Energy Web tokens transferred using Aventus proprietary technology, without interruption or delay
- Over 800 active worker nodes connected to EnergyWebX
- Three enterprise solutions in production, including one in partnership with PayPal
- Launched Marketplace application in Apple App Store

## Aventus & Energy Web Accelerate Energy Transition with Web3

Energy Web is a global nonprofit organization dedicated to accelerating the energy transition through open-source software. It has collaborated with major global companies to develop digital solutions that scale markets for various use cases, all aimed at facilitating the green energy transition.

Energy Web needed a Web3 partner that could provide enterprise-grade, production-ready, flexible blockchain infrastructure to more efficiently and effectively service its clients and achieve its goal of decarbonising the grid.

The Aventus and Energy Web teams collaborated to create Energy Web X: a new decentralized technology that allows Energy Web and its ecosystem of partners, including Shell, EDF and PayPal among others, to benefit from the enhanced scalability, speed, interoperability and security of Web3.

Aventus also deployed instances of their proprietary technology for Energy Web to allow them to independently govern its own transparent and accessible blockchain infrastructure

### The Aventus Benefit

The solution offers Energy Web enhanced scalability, speed, interoperability and security via a production-ready, customized solution for its unique needs and goals.

The partnership enabled Energy Web to launch its own independently governed blockchain infrastructure that has connected to three in-production enterprise solutions to date, including one in partnership with PayPal, and many more to come within the first year.

***“Aventus is truly unique in their dedication, willingness to collaborate and their deep understanding of our unique and complex needs. Launching the Energy Web X Marketplace Application is a major milestone in our goal of decarbonizing the grid, and Aventus has been instrumental in helping us achieve that.”***

**Mani Hagh Sefat**  
CTO, Energy Web

## Results

- Decentralized energy networks: allowing for peer-to-peer energy trading and improved grid management, which helps reduce reliance on centralized energy providers and enhances energy resilience.
- Tokenization & smart contracts: to automate and enforce transactions, ensuring transparency and reducing the need for intermediaries.
- Energy data management: to securely recording and managing energy data - crucial for verifying claims about green energy and meeting regulatory requirements.
- Certifications & tracking: digital certificates are recorded on the blockchain, ensuring their authenticity and providing a clear, immutable record of renewable energy production & consumption.
- Grid flexibility & demand response: enabling more efficient grid management, including better coordination of distributed energy.

***“In order to effect global change, we needed to take our technology to the next level. Aventus’ in-depth understanding of our needs, flexibility in creating a solution and high-quality technology stack made the partnership an obvious one. We’re thrilled to be working with such an innovative team.”***

**Jesse Morris**  
CEO, Energy Web



**Tokenization solves complex business issues while unlocking significant ROI & optimizing efficiency**

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