



TUM
Blockchain
Club

BoltChain

YOUR GATEWAY TO A DECENTRALIZED ENERGY
MARKETPLACE.

EVERYONE CAN PRODUCE, TRADE, AND GET
REWARDED FOR RENEWABLE ENERGY, ALL
WHILE ENSURING TRANSPARENCY AND
EFFICIENCY.

SHAPE THE FUTURE OF SUSTAINABLE
ENERGY, STARTING TODAY.



Problem Statement

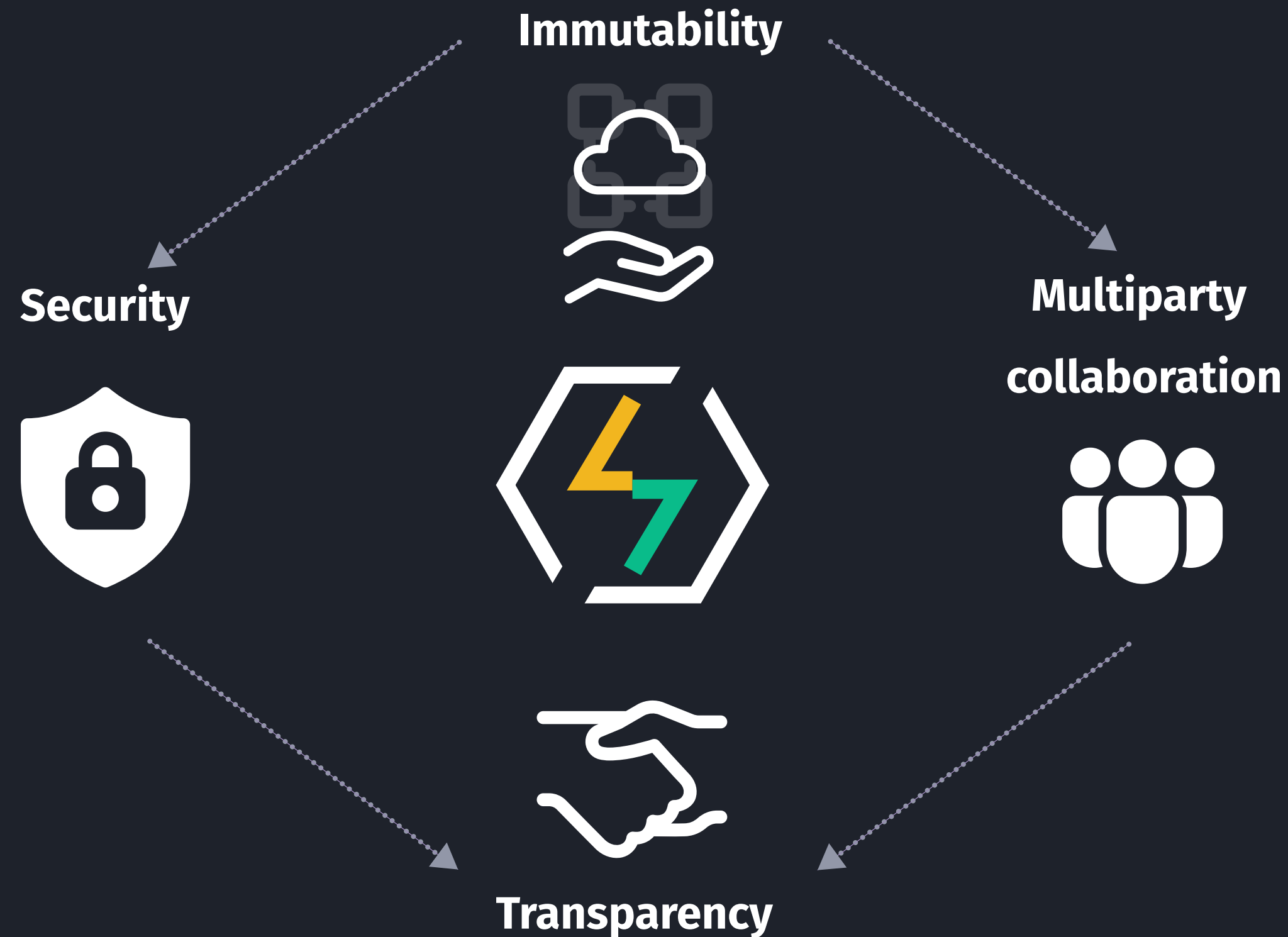
Centralization

Current energy systems are highly centralized, leading to inefficiencies and high entry barriers in the marketplace.

Fixed Pricing by Contract

Consumers are often locked into fixed pricing contracts, limiting their ability to benefit from market fluctuations or renewable energy incentives.

BoltChain tackles all these issues and drives the future of energy trading



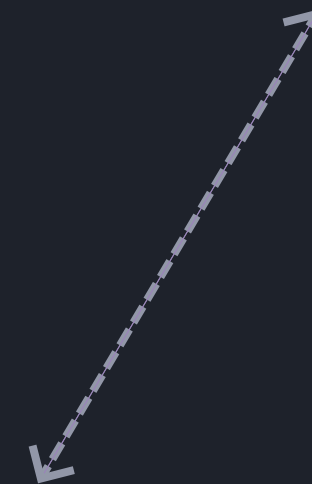
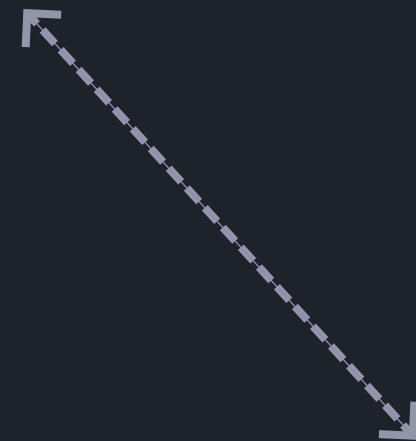
Implementation

Consumption and
Provision Tracking
with BoltBox

Tokenization of
Private Energy



Dynamic Market
Pricing



Feasibility

Scalable Fee Structure

Cost-Effectiveness

Blockchain Efficiency

BoltBox Communication

Benefits

Transparency and Trust

Transactions are recorded on a public ledger, ensuring full visibility and immutability, which builds trust among participants by making all energy trades transparent and auditable.

Sustainability impact

Encourages the use of renewable energy sources by providing a platform for trading green energy, supporting initiatives to reduce carbon footprints and promote environmental sustainability.

Peer-to-peer trading

Empowers individuals and small producers to actively participate in the energy market, fostering a more inclusive and dynamic energy economy where consumers have greater control over their energy choices.

Efficiency and Cost-Effectiveness

Smart contracts automate processes like billing and settlement, reducing administrative overhead and transaction costs, while allowing quick and seamless peer-to-peer energy trades.



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