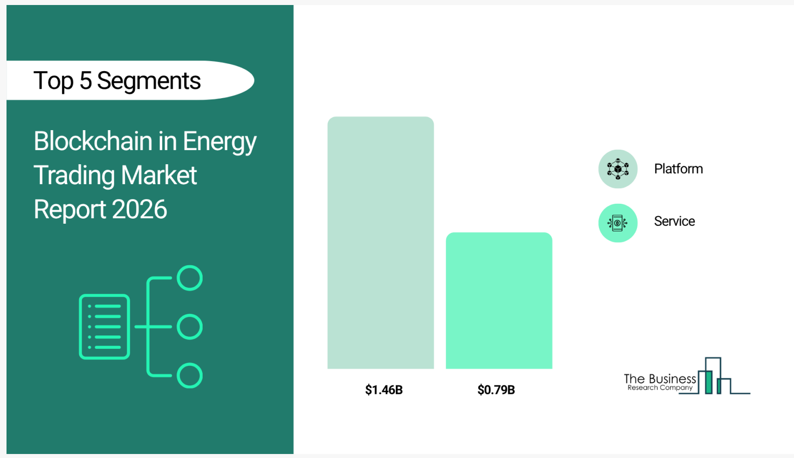
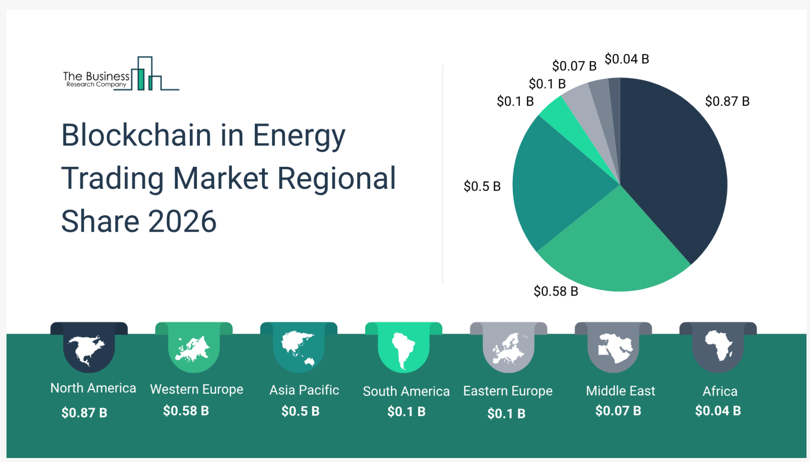
Comprehensive Report on the Blockchain In Energy Trading Market: Opportunities and Challenges

The Business Research Company's Blockchain In Energy Trading Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035



Blockchain in Energy Trading Market Report 2026_Segments

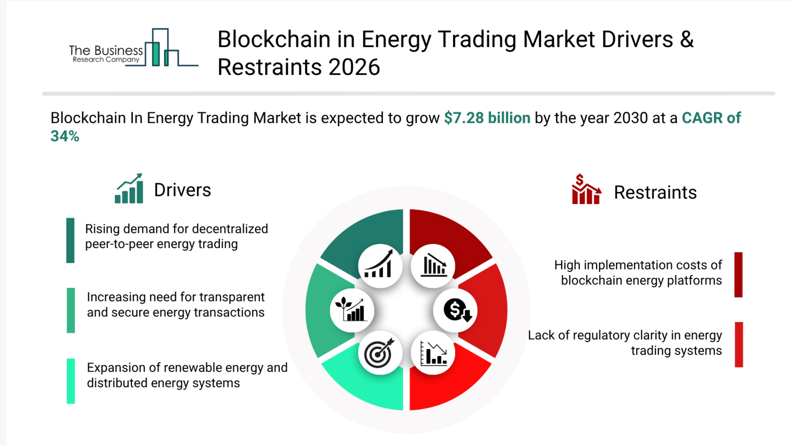


Blockchain in Energy Trading Market Regional Share 2026

LONDON, GREATER LONDON, UNITED KINGDOM, May 12, 2026 /EINPresswire.com/ -- "Blockchain In Energy Trading market to surpass $7 billion by 2030. In comparison, the Retail Electricity market, which is considered as its parent market, is expected to be approximately $92 billion by 2030, with Blockchain In Energy Trading to represent around 8% of the parent market. Within the broader Utilities industry, which is expected to be $9,379 billion by 2030, the Blockchain In Energy Trading market is estimated to account for nearly 0.1% of the total market value.

Which Will Be The Biggest Region In The Blockchain In Energy Trading Market In 2030?
North America will be the largest region in the blockchain in energy trading market in 2030, valued at $2.8 billion. The market is expected to grow from $0.7 billion in 2025 at a compound annual growth rate (CAGR) of 34%. The exponential growth can be attributed to the rapid digitalization of energy infrastructure, increasing adoption of decentralized energy systems, rising investments in smart grid technologies, growing emphasis on transparent and secure energy transactions, expansion of distributed energy resources such as rooftop solar and microgrids, and strong collaboration between technology providers and

energy companies to develop blockchain-based trading platforms.



Blockchain in Energy Trading Market Drivers & Restraints 2026

Which Will Be The Largest Country In The Global Blockchain In Energy Trading Market In 2030?
The USA will be the largest country in the blockchain in energy trading market in 2030, valued at $2.2 billion. The market is expected to grow from $0.5 billion in 2025 at a compound annual growth rate (CAGR) of 33%. The exponential growth can be attributed to early adoption of blockchain technologies across utilities, increasing deployment of peer-to-peer energy trading pilots, strong presence of technology innovators and energy startups, rising focus on grid modernization and energy efficiency, growing demand for real-time energy settlement systems, and favourable regulatory sandbox environments supporting digital energy innovation.

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What Will Be The Largest Segment In The Blockchain In Energy Trading Market In 2030?
The blockchain in energy trading market is segmented by component into platform and services. The platform market will be the largest segment of the blockchain in energy trading market segmented by component, accounting for 63% or $5 billion of the total in 2030. The platform market will be supported by the increasing demand for secure and scalable transaction frameworks, rising integration of blockchain platforms with energy management systems, growing need for automated smart contract execution in energy trading, expanding deployment of decentralized applications for energy exchange, and continuous technological advancements to enhance transaction speed, interoperability, and data integrity across energy networks.

The blockchain in energy trading market is segmented by deployment mode into on-premises and cloud.

The blockchain in energy trading market is segmented by application into peer-to-peer energy trading, grid management, renewable energy certificate trading, carbon credit trading, electric vehicle charging and billing, and wholesale electricity trading.

The blockchain in energy trading market is segmented by end user into residential, commercial, industrial, and utilities.

What Is The Expected CAGR For The Blockchain In Energy Trading Market Leading Up To 2030?
The expected CAGR for the blockchain in energy trading market leading up to 2030 is 34%.

What Will Be The Growth Driving Factors In The Global Blockchain In Energy Trading Market In The Forecast Period?
The rapid growth of the global blockchain in energy trading market leading up to 2030 will be driven by the following key factors that are expected to address rising demand for decentralized peer-to-peer energy trading enabling prosumers to directly trade excess electricity from rooftop solar systems using smart contracts, respond to increasing need for transparent and secure energy transactions through immutable ledgers and cryptographic security ensuring transaction integrity and auditability, and support expansion of renewable energy and distributed energy systems enabling efficient tracking and settlement of energy from diverse distributed sources across the global energy sector.

Rising Demand For Decentralized Peer-To-Peer Energy Trading - The rising demand for decentralized peer-to-peer energy trading is expected to become a key growth driver for the blockchain in energy trading market by 2030. Consumers and prosumers are increasingly seeking the ability to directly trade excess electricity generated from distributed sources such as rooftop solar systems without relying on centralized intermediaries. Blockchain technology enables automated and trustless transactions through smart contracts, allowing participants to efficiently buy and sell energy in real time. This shift is encouraging the development of localized energy marketplaces and community-based trading platforms that enhance energy accessibility and flexibility. As decentralized trading models continue to gain traction globally, the rising demand for peer-to-peer energy trading is anticipated to contribute approximately 2.8% annual growth to the market.

Increasing Need For Transparent And Secure Energy Transactions - The increasing need for transparent and secure energy transactions is expected to emerge as a major factor driving the expansion of the blockchain in energy trading market by 2030. Traditional energy trading systems often face challenges related to data discrepancies, delayed settlements, and limited visibility across transaction chains. Blockchain introduces immutable ledgers and cryptographic security mechanisms that ensure transaction integrity, traceability, and auditability across multiple stakeholders. This is particularly critical for complex energy markets involving multiple intermediaries and cross-border exchanges. As energy companies prioritize trust, compliance, and operational efficiency, the adoption of blockchain-based transaction systems is expected to accelerate. Consequently, the increasing need for transparency and security in energy transactions is projected to contribute around 2.5% annual growth to the market.

Expansion Of Renewable Energy And Distributed Energy Systems - The expansion of renewable energy and distributed energy systems is expected to act as a key growth catalyst for the blockchain in energy trading market by 2030. The growing integration of renewable sources such as solar, wind, and small-scale generation units is increasing the complexity of energy flows within power networks. Blockchain solutions enable efficient tracking, validation, and settlement of energy generated from diverse distributed sources, supporting better grid coordination and resource optimization. Additionally, the proliferation of microgrids and localized energy networks is creating new opportunities for decentralized transaction management. As the global energy landscape continues to transition toward cleaner and more distributed systems, the expansion of renewable energy and distributed energy systems is projected to contribute approximately 2.3% annual growth to the market.

Access The Detailed Blockchain In Energy Trading Market Report Here
https://www.thebusinessresearchcompany.com/report/blockchain-in-energy-trading-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=May_PR

What Are The Key Growth Opportunities In The Blockchain In Energy Trading Market In 2030?
The most significant growth opportunities are anticipated in the platform market and the services market. Collectively, these segments are projected to contribute over $5 billion in market value by 2030, driven by rising adoption of blockchain-enabled energy trading infrastructures, increasing demand for scalable digital platforms to manage complex energy transactions, growing need for system integration and consulting services across utilities, and continuous innovation in smart contract development and energy data analytics solutions. This momentum reflects the energy sector's transition toward digitalization, decentralization, and automation, accelerating growth across blockchain-based energy trading ecosystems.

The platform market is projected to grow by $3 billion, and the services market by $2 billion over the next five years from 2025 to 2030.

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