

Blockchain in Energy Market Report by Component (Platform, Services), Type (Private, Public), Application (Peer-To-Peer Transaction, Grid Transactions, Energy Financing, Electric Vehicle, Sustainability Attribution, and Others), End User (Power, Oil and Gas), and Region 2024-2032

<https://marketpublishers.com/r/B8FE20C60DE0EN.html>

Date: January 2024

Pages: 140

Price: US\$ 3,899.00 (Single User License)

ID: B8FE20C60DE0EN

Abstracts

The global blockchain in energy market size reached US\$ 1,313.9 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 20,157.8 Million by 2032, exhibiting a growth rate (CAGR) of 34.38% during 2024-2032.

Blockchain in energy refers to a technology that enables energy distribution and facilitates transactions between generators and consumers. It includes distributed, replicated, and shared ledgers that securely store digital transactions and assets without using a central authority. Blockchain in energy is widely used for billing, automation, sharing resources, trading, smart contracts, and digital identity. It is also used to manage grids, government risk and compliance, supply chain, and energy certificates. Blockchain in energy improves visibility, increases operating efficiencies, and streamlines regulatory reporting. It also offers environmental sustainability, reduces costs, improves trust, increases transparency, and provides enhanced control and security.

Blockchain in Energy Market Trends:

The rising adoption of smart grids for energy distribution is one of the primary factors driving the market growth. Blockchain is widely used in smart grids to improve functionality, prevent failure, protect privacy, and manage transactions through smart contracts due to its decentralization, transparency, fault tolerance, and strong security.

In addition, increasing demand for blockchain technology due to the rising installation of smart meters to manage data, offer traceability, enable automated billing, and prevent unauthorized access is acting as another growth-inducing factor. Furthermore, the rising adoption of renewable energy sources is facilitating the employment of blockchain to manage distribution and provide real-time validation of the energy source through certificates, which, in turn, is impelling the market growth. Apart from this, the widespread utilization of blockchain to enable peer-to-peer energy trading, allowing users to buy and sell power directly amongst each other through a secure ledger, is positively influencing the market growth. Moreover, the increasing adoption of blockchain in the oil and gas industry to provide privacy, reduce settlement delays, and protect trade secrets is propelling the market growth. Other factors, including the rising adoption of distributed energy systems, implementation of various government initiatives promoting electricity saving, and increasing adoption of blockchain for electric vehicle (EV) charging and energy sharing, are anticipated to drive market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global blockchain in energy market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, type, application and end user.

Breakup by Component:

- Platform
- Services

Breakup by Type:

- Private
- Public

Breakup by Application:

- Peer-To-Peer Transaction
- Grid Transactions
- Energy Financing
- Electric Vehicle
- Sustainability Attribution
- Others

Breakup by End User:

Power

Oil and Gas

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ConsenSys, Energy Web, Greeneum, International Business Machines Corporation, Ondiflo and Power Ledger Pty Ltd.

Key Questions Answered in This Report:

How has the global blockchain in energy market performed so far and how will it

perform in the coming years?

What has been the impact of COVID-19 on the global blockchain in energy market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global blockchain in energy market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL BLOCKCHAIN IN ENERGY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMPONENT

- 6.1 Platform
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Services
 - 6.2.1 Market Trends

6.2.2 Market Forecast

7 MARKET BREAKUP BY TYPE

7.1 Private

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Public

7.2.1 Market Trends

7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Peer-To-Peer Transaction

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Grid Transactions

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Energy Financing

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Electric Vehicle

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 Sustainability Attribution

8.5.1 Market Trends

8.5.2 Market Forecast

8.6 Others

8.6.1 Market Trends

8.6.2 Market Forecast

9 MARKET BREAKUP BY END USER

9.1 Power

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Oil and Gas

9.2.1 Market Trends

9.2.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 South Korea

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Australia

10.2.5.1 Market Trends

10.2.5.2 Market Forecast

10.2.6 Indonesia

10.2.6.1 Market Trends

10.2.6.2 Market Forecast

10.2.7 Others

10.2.7.1 Market Trends

10.2.7.2 Market Forecast

10.3 Europe

10.3.1 Germany

10.3.1.1 Market Trends

10.3.1.2 Market Forecast

10.3.2 France

10.3.2.1 Market Trends

- 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
- 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 ConsenSys
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.2 Energy Web
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.3 Greeneum
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.4 International Business Machines Corporation
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
 - 15.3.5 Ondiflo
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.6 Power Ledger Pty Ltd
 - 15.3.6.1 Company Overview

15.3.6.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Blockchain in Energy Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Blockchain in Energy Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 3: Global: Blockchain in Energy Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 4: Global: Blockchain in Energy Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Blockchain in Energy Market Forecast: Breakup by End User (in Million US\$), 2024-2032

Table 6: Global: Blockchain in Energy Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Blockchain in Energy Market: Competitive Structure

Table 8: Global: Blockchain in Energy Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Blockchain in Energy Market: Major Drivers and Challenges
- Figure 2: Global: Blockchain in Energy Market: Sales Value (in Million US\$), 2018-2023
- Figure 3: Global: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 4: Global: Blockchain in Energy Market: Breakup by Component (in %), 2023
- Figure 5: Global: Blockchain in Energy Market: Breakup by Type (in %), 2023
- Figure 6: Global: Blockchain in Energy Market: Breakup by Application (in %), 2023
- Figure 7: Global: Blockchain in Energy Market: Breakup by End User (in %), 2023
- Figure 8: Global: Blockchain in Energy Market: Breakup by Region (in %), 2023
- Figure 9: Global: Blockchain in Energy (Platform) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 10: Global: Blockchain in Energy (Platform) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 11: Global: Blockchain in Energy (Services) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 12: Global: Blockchain in Energy (Services) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 13: Global: Blockchain in Energy (Private) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: Blockchain in Energy (Private) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: Global: Blockchain in Energy (Public) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: Global: Blockchain in Energy (Public) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: Global: Blockchain in Energy (Peer-To-Peer Transaction) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: Global: Blockchain in Energy (Peer-To-Peer Transaction) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 19: Global: Blockchain in Energy (Grid Transactions) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 20: Global: Blockchain in Energy (Grid Transactions) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 21: Global: Blockchain in Energy (Energy Financing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Blockchain in Energy (Energy Financing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Blockchain in Energy (Electric Vehicle) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Blockchain in Energy (Electric Vehicle) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Blockchain in Energy (Sustainability Attribution) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Blockchain in Energy (Sustainability Attribution) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Blockchain in Energy (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Blockchain in Energy (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Blockchain in Energy (Power) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Blockchain in Energy (Power) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Blockchain in Energy (Oil and Gas) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Blockchain in Energy (Oil and Gas) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: North America: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: North America: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: United States: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: United States: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Canada: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Canada: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Asia-Pacific: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Asia-Pacific: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: China: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 &

2023

Figure 42: China: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Japan: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Japan: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: India: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: India: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: South Korea: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: South Korea: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Australia: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Australia: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Indonesia: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Indonesia: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Others: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Others: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Europe: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Europe: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Germany: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Germany: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: France: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: France: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: United Kingdom: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: United Kingdom: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Italy: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Italy: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Spain: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Spain: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Russia: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Russia: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Others: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Others: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Latin America: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Latin America: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Brazil: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Brazil: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Mexico: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Mexico: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Others: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Others: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Middle East and Africa: Blockchain in Energy Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Middle East and Africa: Blockchain in Energy Market: Breakup by Country (in

%), 2023

Figure 81: Middle East and Africa: Blockchain in Energy Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 82: Global: Blockchain in Energy Industry: SWOT Analysis

Figure 83: Global: Blockchain in Energy Industry: Value Chain Analysis

Figure 84: Global: Blockchain in Energy Industry: Porter's Five Forces Analysis

I would like to order

Product name: Blockchain in Energy Market Report by Component (Platform, Services), Type (Private, Public), Application (Peer-To-Peer Transaction, Grid Transactions, Energy Financing, Electric Vehicle, Sustainability Attribution, and Others), End User (Power, Oil and Gas), and Region 2024-2032

Product link: <https://marketpublishers.com/r/B8FE20C60DE0EN.html>

Price: US\$ 3,899.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B8FE20C60DE0EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970