

Global Carbon Neutral Data Center Market 2023-2029

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Abstracts

A carbon-neutral data center refers to a facility that has achieved net-zero carbon emissions by offsetting its greenhouse gas (GHG) emissions through various means such as sourcing renewable energy and carbon credits, investing in energy-efficient equipment, and implementing sustainable practices. Data centers are a significant consumer of energy, accounting for an estimated 1% of global electricity consumption and corresponding GHG emissions. To mitigate their environmental impact, data center operators have been adopting sustainability measures to reduce energy consumption and emissions while still meeting the growing demand for data storage and processing. One way to achieve carbon neutrality is by reducing energy consumption through the use of energy-efficient technologies, such as high-efficiency cooling systems, virtualization, and consolidation of servers. Data centers can also source renewable energy from on-site solar or wind energy systems, off-site renewable energy contracts, or purchasing renewable energy credits. According to the latest data, the market size of the global carbon neutral data center sector is expected to rise by USD 15.9 billion with a CAGR of 21.19% by the end of 2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global carbon neutral data center market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the type, solutions, end user, and region. The global market for carbon neutral data center can be segmented by type: hyperscale data centers, enterprise data centers, colocation data centers, others. In 2022, the hyperscale data centers segment made up the largest share of revenue generated by the carbon neutral

data center market. Carbon neutral data center market is further segmented by solutions: hardware, software and platform, support services. The hardware segment was the largest contributor to the global carbon neutral data center market in 2022. Based on end user, the carbon neutral data center market is segmented into: telecom, financial, public, medical, manufacturing, retail, others. The telecom segment is estimated to account for the largest share of the global carbon neutral data center market. On the basis of region, the carbon neutral data center market also can be divided into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. Europe held the largest share of the global carbon neutral data center market in 2022 and is anticipated to hold its share during the forecast period.

Market Segmentation

By type: hyperscale data centers, enterprise data centers, colocation data centers, others

By solutions: hardware, software and platform, support services

By end user: telecom, financial, public, medical, manufacturing, retail, others

By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report explores the recent developments and profiles of key vendors in the Global Carbon Neutral Data Center Market, including Alphabet Inc., Amazon.com Inc., Apple Inc., Ecodc AB, Intel Corporation, Iron Mountain Incorporated, Meta Platforms Inc., Microsoft Corporation, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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Scope of the Report

To analyze and forecast the market size of the global carbon neutral data center market.

To classify and forecast the global carbon neutral data center market based on type, solutions, end user, region.

To identify drivers and challenges for the global carbon neutral data center market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global carbon neutral data center market.

To identify and analyze the profile of leading players operating in the global carbon neutral data center market.

Why Choose This Report

Gain a reliable outlook of the global carbon neutral data center market forecasts from

2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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Apple Inc.
Ecodc AB
Intel Corporation
Iron Mountain Incorporated
Meta Platforms Inc.
Microsoft Corporation

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