

Global Green Computing Power Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Green Computing Power Service market size is expected to reach \$ 42883 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

Green computing power services refer to a category of computing services delivered within processes such as data center operations, cloud computing, AI training and inference, and high-performance computing that aim to reduce energy consumption and carbon emissions per unit of computing power. This is achieved through the adoption of various technical measures, including the use of low-carbon energy sources, energy-efficient servers, liquid cooling systems, intelligent scheduling, computing resource pooling, carbon emission monitoring, and energy efficiency optimization. The core objective is not merely to provide computing resources, but rather to enhance energy utilization efficiency thereby reducing electricity consumption and environmental impact while simultaneously ensuring computing performance, stability, and security. These services are widely applied across scenarios such as the training of large-scale AI models, cloud services, industrial simulation, financial computing, scientific research computing, and digital transformation for government and enterprise sectors.

The upstream segment of the green computing power service value chain primarily encompasses resources and equipment such as green electricity, data center infrastructure, servers, GPUs/AI accelerator cards, storage devices, networking equipment, liquid and air cooling systems, power management systems, energy consumption monitoring devices, and carbon emission management software. The midstream segment is primarily composed of cloud service providers, data center operators, computing platform providers, AI computing scheduling specialists, and high-

performance computing service providers; these entities deliver services including green computing resource pooling, computing scheduling, energy-efficient operations and maintenance, carbon emission monitoring, PUE optimization, and computing power leasing. The downstream application layer spans a broad spectrum of fields, including AI training and inference, cloud computing, financial risk management, industrial simulation, scientific research computing, smart cities, digital transformation for government and enterprises, and internet services. The gross margin for green computing power services stands at approximately 37%.

The core value of green computing power services lies in the provision of 'low-carbon computing power.' As demand for large-scale AI models, cloud computing, industrial simulation, and data analytics grows rapidly, the electricity costs and carbon emission pressures associated with computing consumption are rising in tandem. Through strategies such as utilizing renewable energy, liquid cooling systems, high-efficiency servers, intelligent workload scheduling, and PUE optimization, green computing services reduce energy consumption per unit of computing power. This enables clients to access high-performance computing capabilities while simultaneously meeting requirements for energy conservation, carbon reduction, ESG disclosures, and the construction of green data centers.

The competitive focus of green computing power services is shifting from 'computing scale' to 'energy efficiency, cost-effectiveness, and scheduling capabilities.' In the past, computing services placed greater emphasis on the sheer number of CPUs and GPUs, as well as peak computing performance. However, against the backdrop of energy constraints, tight chip supplies, and heightened client sensitivity to costs, providers capable of delivering computing power with lower energy consumption, higher utilization rates, and more stable delivery capabilities will possess a distinct competitive advantage. Consequently, green computing service providers must not only construct data centers with low PUEs but also possess capabilities in heterogeneous computing scheduling, resource pooling, tiered storage for hot and cold data, carbon emission monitoring, and on-demand billing.

In the future, green computing power services will evolve toward an integrated model encompassing 'computing power + energy + carbon management.' The industry will no longer remain confined to the level of green data centers or energy-efficient servers; instead, it will integrate further with green electricity trading, energy storage, waste heat recovery, carbon footprint accounting, carbon asset management, and AI-driven computing scheduling platforms to form a comprehensive, low-carbon digital infrastructure. For clients across sectors?including AI, finance, scientific research,

manufacturing, government, and enterprises?green computing services will gradually transition from being a mere procurement of infrastructure to a comprehensive service that delivers combined value in terms of computing power, cost optimization, and carbon management.

This report studies the global Green Computing Power Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Green Computing Power Service, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Green Computing Power Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Green Computing Power Service total market, 2021-2032, (USD Million)

Global Green Computing Power Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Green Computing Power Service total market, key domestic companies, and share, (USD Million)

Global Green Computing Power Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Green Computing Power Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Green Computing Power Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Green Computing Power Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amazon Web Services, Microsoft, Google Cloud, Oracle Cloud, Equinix, OVHcloud, Orange Business, Atos, Green Mountain, EcoDataCenter, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Green Computing Power Service market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Green Computing Power Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Green Computing Power Service Market, Segmentation by Type:

Lightweight Green Computing Power

Medium-Intensity Green Computing Power

Hyperscale Green Computing Power

Global Green Computing Power Service Market, Segmentation by Degree of Energy Greening:

Standard Computing Services (Green Power Share
Low-Carbon Computing Services (Green Power Share: 30%-70%)

Green Computing Services (Green Power Share > 70%)

Global Green Computing Power Service Market, Segmentation by Compute Resource Types:

General-Purpose Green Computing Power

AI Green Computing Power

High-Performance Green Computing Power

Global Green Computing Power Service Market, Segmentation by Application:

FinTech

Industrial Manufacturing

Research & Education

Healthcare

Others

Companies Profiled:

Amazon Web Services

Microsoft

Google Cloud

Oracle Cloud

Equinix

OVHcloud

Orange Business

Atos

Green Mountain

EcoDataCenter

Alibaba Cloud

Tencent

Huawei

Baidu

China Telecom Cloud Technology

GDS

NTT DATA Group

Fujitsu

NEC

Key Questions Answered

1. How big is the global Green Computing Power Service market?
2. What is the demand of the global Green Computing Power Service market?
3. What is the year over year growth of the global Green Computing Power Service market?
4. What is the total value of the global Green Computing Power Service market?
5. Who are the Major Players in the global Green Computing Power Service market?
6. What are the growth factors driving the market demand?

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