

Global Green Computing Power Service Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Green Computing Power Service market size is predicted to grow from US\$ 18609 million in 2025 to US\$ 42407 million in 2032; it is expected to grow at a CAGR of 12.6% from 2026 to 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.

LPI (LP Information)' newest research report, the 'Green Computing Power Service Industry Forecast' looks at past sales and reviews total world Green Computing Power Service sales in 2025, providing a comprehensive analysis by region and market sector of projected Green Computing Power Service sales for 2026 through 2032. With Green Computing Power Service sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Green Computing Power Service industry.

This Insight Report provides a comprehensive analysis of the global Green Computing Power Service landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Green Computing Power Service portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Green Computing Power Service market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Green Computing Power Service and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Green Computing Power Service.

This report presents a comprehensive overview, market shares, and growth opportunities of Green Computing Power Service market by product type, application, key players and key regions and countries.

Segmentation by Type:

Lightweight Green Computing Power

Medium-Intensity Green Computing Power

Hyperscale Green Computing Power

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%)

Segmentation by Compute Resource Types:

General-Purpose Green Computing Power

AI Green Computing Power

High-Performance Green Computing Power

Segmentation by Application:

FinTech

Industrial Manufacturing

Research & Education

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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