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Global Computing–Power Coordination Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Computing–Power Coordination market size is expected to reach $ 71600 million by 2032, rising at a market growth of 12.7% CAGR during the forecast period (2026-2032).

Computing-Power coordination refers to a new infrastructure model that deeply integrates and unifies the scheduling of computing resources with the power system. Its core objective is to achieve a dynamic balance between power supply and demand and maximize energy efficiency while ensuring efficient computing power supply. Through AI scheduling algorithms, smart grids, carbon-sensing computing, and energy management systems, it treats 'computing load' as an adjustable demand-side power resource, enabling data centers to participate in peak shaving and valley filling, green electricity consumption optimization, and carbon emission management, thus forming a two-way collaborative system where 'power drives computing power, and computing power feeds back into power system optimization.'

Computing-Power coordination is at the intersection of global digitalization and energy transformation. Against the backdrop of rapid development of large-scale AI models, surging data center electricity demand, and strengthening constraints from 'dual carbon targets,' its strategic value continues to rise. In the future, Computing-Power Coordination will become an important component of the new power system, transforming data centers from 'pure electricity consumers' into 'schedulable load resources,' participating in grid frequency regulation, demand response, and renewable energy consumption. Meanwhile, as AI computing power density continues to increase, the electricity consumption of a single hyperscale data center is approaching that of a medium-sized city, making energy cost and stability key variables in computing power competition. Therefore, computing-electricity synergy will promote the deep integration

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of 'energy infrastructure + computing power infrastructure,' giving rise to new business models such as zero-carbon data centers, virtual power plants + cloud computing platforms, and green computing power trading markets, and is expected to become one of the most core underlying infrastructures in the AI ??era.

This report studies the global Computing–Power Coordination demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Computing–Power Coordination, 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 Computing–Power Coordination that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Computing–Power Coordination total market, 2021-2032, (USD Million)
Global Computing–Power Coordination total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Computing–Power Coordination total market, key domestic companies, and share, (USD Million)
Global Computing–Power Coordination revenue by player, revenue and market share 2021-2026, (USD Million)
Global Computing–Power Coordination total market by Type, CAGR, 2021-2032, (USD Million)
Global Computing–Power Coordination total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Computing–Power Coordination 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 State Grid, China Southern Power Grid, Alibaba, Tencent, Bloom Energy, Schneider Electric, Siemens Energy, Mitsubishi Electric, KT Cloud + KT Energy, Doosan Enerbility, 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 Computing–Power Coordination market

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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 Computing–Power Coordination Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Computing–Power Coordination Market, Segmentation by Type:

Green Electricity Driven

Hybrid Energy

Grid Coordinated Dispatch

Others

Global Computing–Power Coordination Market, Segmentation by Industry Participants:

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Power Company-Led

Cloud Computing Company-Led

Energy Technology Integration

Data Center Operator

Others

Global Computing–Power Coordination Market, Segmentation by Application:

Energy & Power

Industrial Manufacturing

Telecommunications

Others

Companies Profiled:

State Grid

China Southern Power Grid

Alibaba

Tencent

Bloom Energy

Schneider Electric

Siemens Energy

Mitsubishi Electric

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KT Cloud + KT Energy

Doosan Enerbility

Delta Electronics

SGCC Information & Communication Co., Ltd

NARI Technology Co., Ltd.

China Energy Engineering Corporation Limited

Hangzhou Zhongheng Electric Co., Ltd.

Kehua Data Co., Ltd.

GCL Energy Technology Co., Ltd.

Huawei

Kyushu Electric Power

Hitachi

Fujitsu

Aligned Data Centers

Oklo Inc.

ON.energy

E.ON

Envelio

LG

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Zhongding Group

Key Questions Answered

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

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