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Global Computing–Power Coordination Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Computing–Power Coordination market size was valued at US$ 30932 million in 2025 and is forecast to a readjusted size of US$ 71600 million by 2032 with a CAGR of 12.7% during review period.

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

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medium-sized city, making energy cost and stability key variables in computing power competition. Therefore, computing-electricity synergy will promote the deep integration 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 is a detailed and comprehensive analysis for global Computing–Power Coordination market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Computing–Power Coordination market size and forecasts, in consumption value ($ Million), 2021-2032

Global Computing–Power Coordination market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Computing–Power Coordination market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Computing–Power Coordination market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Computing–Power Coordination

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key 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.

Market segmentation

Computing–Power Coordination market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Green Electricity Driven

Hybrid Energy

Grid Coordinated Dispatch

Others

Market segment by Industry Participants

Power Company-Led

Cloud Computing Company-Led

Energy Technology Integration

Data Center Operator

Others

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Market segment by Application

Energy & Power

Industrial Manufacturing

Telecommunications

Others

Market segment by players, this report covers

State Grid

China Southern Power Grid

Alibaba

Tencent

Bloom Energy

Schneider Electric

Siemens Energy

Mitsubishi Electric

KT Cloud + KT Energy

Doosan Enerbility

Delta Electronics

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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

Zhongding Group

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

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Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Computing–Power Coordination product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Computing–Power Coordination, with revenue, gross margin, and global market share of Computing–Power Coordination from 2021 to 2026.

Chapter 3, the Computing–Power Coordination competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Computing–Power Coordination market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Computing–Power Coordination.

Chapter 13, to describe Computing–Power Coordination research findings and conclusion.

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