

Global Small Nuclear Reactors (SMR) for Data Center Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Small Nuclear Reactors (SMR) for Data Center market size is expected to reach \$ 3008 million by 2032, rising at a market growth of 15.3% CAGR during the forecast period (2026-2032).

Small Nuclear Reactors for Data Centers, commonly referred to as Small Modular Reactors (SMRs), are compact nuclear fission power systems designed to provide reliable, continuous electricity for large-scale data centers. Compared with traditional nuclear power plants, SMRs have smaller power capacities—typically 50–300 MW per unit—and feature modular, factory-built components that can be transported and assembled at or near the deployment site. In 2025, global Small Nuclear Reactors (SMR) for Data Center production reached approximately 163 k unit, with an average global market price of around 6000 USD/kW. The production capacity for Small Nuclear Reactors (SMR) for Data Center in 2025 was approximately 200 k units. The typical gross profit margin for Small Nuclear Reactors (SMR) for Data Center between 20% and 40%.

This report studies the global Small Nuclear Reactors (SMR) for Data Center production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Small Nuclear Reactors (SMR) for Data Center 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 Small Nuclear Reactors (SMR) for Data Center that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Small Nuclear Reactors (SMR) for Data Center total production and demand, 2021-2032, (MW)

Global Small Nuclear Reactors (SMR) for Data Center total production value, 2021-2032, (USD Million)

Global Small Nuclear Reactors (SMR) for Data Center production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Small Nuclear Reactors (SMR) for Data Center consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Small Nuclear Reactors (SMR) for Data Center domestic production, consumption, key domestic manufacturers and share

Global Small Nuclear Reactors (SMR) for Data Center production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Small Nuclear Reactors (SMR) for Data Center production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Small Nuclear Reactors (SMR) for Data Center production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Small Nuclear Reactors (SMR) for Data Center market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GE Vernova, NuScale Power, Holtec International, Kairos Power, Rosatom, Westinghouse Nuclear, General Atomics, X-Energy, Rolls-Royce, Oklo, 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 Small Nuclear Reactors (SMR) for Data Center market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) by manufacturer, 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 Small Nuclear Reactors (SMR) for Data Center Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Small Nuclear Reactors (SMR) for Data Center Market, Segmentation by Type:

Light Water SMRs

HTGR SMRs

Sodium-cooled SMRs

Molten Salt SMRs

Global Small Nuclear Reactors (SMR) for Data Center Market, Segmentation by Using:

AI Training SMRs

Cloud SMRs

HPC SMRs

Global Small Nuclear Reactors (SMR) for Data Center Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Others

Companies Profiled:

GE Vernova

NuScale Power

Holtec International

Kairos Power

Rosatom

Westinghouse Nuclear

General Atomics

X-Energy

Rolls-Royce

Oklo

Seaborg Technologies

TerraPower

Deep Atomic

Key Questions Answered:

1. How big is the global Small Nuclear Reactors (SMR) for Data Center market?
2. What is the demand of the global Small Nuclear Reactors (SMR) for Data Center market?
3. What is the year over year growth of the global Small Nuclear Reactors (SMR) for Data Center market?
4. What is the production and production value of the global Small Nuclear Reactors (SMR) for Data Center market?
5. Who are the key producers in the global Small Nuclear Reactors (SMR) for Data Center market?
6. What are the growth factors driving the market demand?

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