

Global Nuclear Reactor Construction Market Size study & Forecast, by Reactor Type (Pressurized Water Reactor and Pressurized Heavy Water Reactor, Boiling Water Reactor, High-temperature Gas Cooled Reactor, Liquid-metal Fast-Breeder Reactor), by Technology Type (Pressurized Water Reactors (PWR), Boiling Water Reactors (BWR), Others), and Regional Analysis, 2023-2030

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Abstracts

Global Nuclear Reactor Construction Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. A nuclear reactor is a device that initiates and controls a sustained nuclear chain reaction. It is designed to generate nuclear energy in the form of heat, which can be used for various purposes, such as generating electricity or producing isotopes for medical and industrial applications. Nuclear reactors work on the principle of nuclear fission, where the nucleus of an atom is split into two or more smaller nuclei, releasing a large amount of energy in the process. This energy is harnessed in a controlled manner within the reactor. The Nuclear Reactor Construction market is expanding because of factors such as rising demand for electricity, growing urbanization and globalization.

According to the World Nuclear Association, there are around 440 commercial nuclear power reactors operational as of 2021, with a combined capacity of about 390 GWe, in about 30 different countries. About 60 additional reactors are currently being built. Around 220 research reactors are operated by over 50 countries, and 140 ships and submarines are powered by another 180 nuclear reactors. Additionally, 2653 billion kWh

of the world's electricity was produced using nuclear energy in 2021. Nuclear energy is anticipated to increase electricity production by 3.9% per year, which will increase the need for pressurized water reactors throughout the course of the projection period. In addition, rising government support and investment in advanced technologies is creating lucrative opportunities for the market. However, the high cost of Nuclear Reactor Construction stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Nuclear Reactor Construction Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to rising number of nuclear power plants developed and rising government investment in construction of new power plants in the region. North America is expected to grow significantly during the forecast period, owing to factors such as presence of key market players, rising technological advancements, and active participation of government and nonprofit organizations in the market space.

Major market players included in this report are:

Areva S.A.
China National Nuclear Corporation
State Atomic Energy Corporation
Westinghouse Electric Company LLC.
Hitachi-GE Nuclear Energy, Ltd.
Mitsubishi Heavy Industries, Ltd.
Larsen & Toubro Limited
China Nuclear E&C Group
United Heavy Machinery Plants
Rosatom Corporation

Recent Developments in the Market:

In October 2022, at the International Atomic Energy Agency Nuclear Power Ministerial Conference in Washington, DC, the United States and Japan announced a partnership with Ghana to help the organisation achieve its objective of leading Africa in the deployment of small modular reactors. The agreement will make it easier to implement Small Modular Reactor (SMR) technology in Ghana because the country's nuclear power programme is currently technology neutral.

In March 2022, Representatives of the Department of Atomic Energy (DAE) were briefed that India is preparing to begin building reactors in 'fleet' mode, beginning with the laying of the first concrete for two 700 MWe Pressurised Heavy Water Reactor (PHWR) at Kaiga in Karnataka.

Global Nuclear Reactor Construction Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Reactor Type, Technology Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Reactor Type offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Reactor Type:

Pressurized Water Reactor and Pressurized Heavy Water Reactor

Boiling Water Reactor

High-temperature Gas Cooled Reactor

Liquid-metal Fast-Breeder Reactor

By Technology Type:

Pressurized Water Reactors (PWR)

Boiling Water Reactors (BWR)

Others

By Region:

North America

U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

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