Global Nuclear Energy Market Insights, Opportunity Analysis, Market Shares and Forecast, 2017 - 2023

Description: "Global Nuclear Energy Market Research Report 2016" is an in depth study on current state of the nuclear energy market. The research report includes a basic outline of the industry comprising definitions, classifications, applications and industry structure. The synopsis is professionally researched and articulated for the international markets gives an insight of the market via competitive landscape analysis, development trends and significant regionals analysis. Upcoming and current development plans and policies are examined, including manufacturing operations and cost framework.

Nuclear energy is the energy produced by nuclear reaction (heat) to run steam turbines to generate electricity. There are two types of nuclear reaction used in electricity generation process fusion and fission. In nuclear fission, the nucleus of an atom splits into smaller lighter nuclei the energy released during this process is used for electricity generation. In nuclear fusion, two or more atom nuclei come together to form one atomic nuclei and the energy released is used to generate electricity. Nuclear energy is opted by most nations for its clean and efficient ways of generating electricity.

The global nuclear energy market is estimated to grow at a CAGR of over 4% between the period 2016 to 2022. Nuclear energy reported for 11% of the global electricity generation in 2014. According to US Energy Information Administration in their annual report of International Energy Outlook (IEO) 2016, world's net electricity generation is projected to increase up to 69% by 2040 that is from $21.6 trillion kilowatt hours (kWh) in 2012 to $25.8 trillion kWh in 2020 and $36.5 trillion kWh in 2040. Electricity generation from nuclear power worldwide has marked up from $2.3 trillion kWh in 2012 to $4.5 trillion kWh in 2040 according to IEO 2016 report. Energy security and constraints on greenhouse gases are among the factors driving the establishment of new nuclear plants. Japan started its two nuclear power plants at Sendai in 2015 under new safety standards. South Korea is projected to increase its nuclear energy capacity up to 15GW by 2040. China is projected to add 139GW to its current nuclear energy production capacity by 2040. Increasing demand for energy from industrial sector and households is anticipated to fuel global nuclear energy market growth.

Growing demand for power and energy, depleting fossil fuel reserves, and clean energy demand are some of the factors driving the nuclear energy market. Emerging economies in Asia Pacific and power plant expansion plans of countries like Russia and China, is an opportunity for companies in nuclear energy market. According US energy information administration, worlds net electricity generation is increasing by 1.9% per year from 2014 to 2040. Generation of harmful radioactive waste, high storage cost, safety concerns with respect to nuclear plant, growing demand for other non-conventional energy use, and current usage for fossil fuel energy are some of the main challenges in nuclear energy market.

The research report is classified in terms of type of nuclear reactor, technology, and energy type. The reactor type is further sub segmented as pressurised water reactor, boiling water reactor, pressurised heavy water reactor, gas cooled reactor, light water graphite reactor, and fast neutron reactor. Pressurized water is common type of reactor used in power generation; it uses both coolant and moderator. The design contain a primary cooling circuit which flow through the core of the reactor at a very high pressure, the secondary circuit generating steam drives the turbine. Energy type is further classified as fission and fusion. Nuclear fission is a clean and efficient way of producing energy. In nuclear fission a single uranium atom produces more than $10 million carbon atoms. Nuclear fission creates less pollution which is important from the context of climate change. Technology is further sub segmented into generation i, generation ii, generation iii and generation iv. Generation IV nuclear reactor is being characterised for enhanced safety, minimal waste, and proliferation resistant.

Some of the leading companies in the global nuclear energy market are, Bruce Power, China General Nuclear Power Corporation, Nukem GmbH, CEZ Group, and E.ON SE. The report provides complete information like company profile, sales, revenue, market share and contact information. Strategically companies in nuclear energy market get into long term contracts with regional and local government bodies, and look forward for joint ventures to sustain the market share. According to IAEA survey, developing commercial culture, optimizing overall use of asset, and focusing on cost effective safety and regulation are some of the other strategies existing plant companies are adopting.
The research report analysed nuclear energy market geographically. Region wise the report is segmented as North America, Europe, Asia Pacific, Middle East, and Rest of the World. North America is the leading market for nuclear energy, followed by Europe. Large scale of installations of nuclear plants, expansion plans of the existing energy plants are the reasons contributing to the market in the region. However, European market is experiencing slow growth during the forecasted period owing to stringent regulations with respect to the safety of the nuclear plants. Asia Pacific is the fastest growing markets for nuclear energy. Construction of new plants and expansion of the established ones are the main drivers of the market. Emerging economies like India and China is more into investing in nuclear energy to meet energy needs of its economy and reduce fossil fuel imports.

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