

Smart Grid Networking Market by Hardware (Cables, Controllers, Routers, Smart Meter Com Module, Switches), by Software (Network Management: Performance, IP, Device, Security, Configuration), by Services, & by Regions - Global Forecast & Analysis (2014 - 2019)

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Abstracts

Smart grid networking deployments by utility operators helps them to enable two-way communications between different components of electricity transmission and distribution grids. Smart grids networking solutions collects critical data, analyze the data, manage it and monitor the flow of data to keep check on the performance of computer networks. This in turn, helps the utility operator in decision making for an instance a well-managed grid utilization data helps in forecasting the expected electricity demand during peak hour from different end-users such as, residential, commercial and industrial. One of the major restraints faced by the players in this space is different regulatory frameworks imposed by different governments.

MarketsandMarkets broadly segments the global smart grid networking market by region: North America (NA), Asia-Pacific (APAC), Europe, Middle East and Africa (MEA), and Latin America (LA); by hardware: cables, controllers, routers, smart meter communication modules, switches and others; by software: network performance monitoring management, IP address management, network traffic management, network device management, network configuration management, network security management and others; by services: consulting, network planning, design and integration, network risk and security assessment, network maintenance and support services and others.



MarketsandMarkets forecasts the global smart grid networking market to grow from \$7.12 billion in 2014 to \$11.61 billion by 2019, at a Compound Annual Growth Rate (CAGR) of 10.3%. In terms of regions, NA is expected to be the biggest market in terms of market size, whereas MEA and LA are expected to experience increased market traction during the forecasted period.



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About

The utility transmission and distribution networks have evolved since their inception to become more interactive and intelligent such as, advance metering solutions to provide utility usage pattern as well as utility measurement and quality control. The consumer demand for utilities is ever growing and the demand growth rate is not proportional to the supply rate coupled with sales@marketsandmarekts. the aging infrastructure that is not able to meet the current demand of the consumers especially during peak hours and has lots of non-technical losses.

Smart grid networks provide two way communications between different components of a utility grid enabling better network management by interactions among the network components to provide data from the different phases such as generation, transmission and distribution. Installing communication networks on utility grids provides integrated communications leading to substation automation, demand response, distribution automation, supervisory control and data acquisition, energy management, real-time control, information and data exchange, asset utilization and increased reliability and security. The smart grid network operates by communicating with different grid components. These components interact with each other via routers, relays and bridges that are further connected to each other forming a mesh network.

The world is now looking forward to increase the share of renewable energy in the total electricity consumption and the traditional grids are unable to handle the electricity generated from the renewable sources. This has led to installation of smart grids and thus, increasing deployments of smart grid networks.

Smart grids are increasingly being adopted by utility operators around the world. Countries located in different regions have already deployed smart grid networks, such as Denmark, Singapore, Puerto Rico, and U.S. The major players in the smart grid networking space are ABB, Cisco, Mitsubishi Electric, Fujitsu, GE, Huawei, Schneider Electric, and Siemens AG.

This report segments the smart grid networking market into four different categories, namely hardware, software, services, and regions. The smart grid networking market by hardware is segmented into cables, controllers, routers, smart meter communication modules, switches and other hardware. The smart grid networking market by software is categorized into network performance monitoring management, IP address management, network traffic management, network device management, network



configuration management, network security management and other software. The smart grid networking market by services is divided into consulting, network planning, design and integration, network risk and security assessment, network maintenance and support services and other services. By region, the smart grid networking market can be segmented into North America (NA), Europe, Asia-Pacific (APAC), Middle East and Africa (MEA), and Latin America (LA).

In this market, we are considering Smart grid networking market; smart grid networking can be defined as application of networking abilities on electricity distribution system for improving operations, maintenance and planning by enabling two way communications between different components of the utility grid.

The smart grid networking market has been segmented by hardware, software and services.

To reach a global perspective, the market has also been divided across different geographic regions.

This market covers smart grid networking hardware, networking software, smart meter communication modules and the network associated services. It excludes any electricity generation equipment, transmission and distribution equipment, water and gas distribution equipment as well as services related to them.



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