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Saudi Arabia Power Transmission Lines & Towers Market Segmented By Product (Transmission Lines, Transmission Towers), By Current (HVAC, HVDC), By Voltage (69 kV to 130 kV, 131 kV to 220 kV, 221 kV to 660 kV, >660 kV), By Application (High Tension, Extra High Tension, Ultra High Tension), By Region, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

The Saudi Arabia Power Transmission Lines & Towers Market was valued at USD 1.86 Billion in 2024 and is expected to reach USD 2.93 Billion by 2030 with a CAGR of 7.72% during the forecast period.

The Saudi Arabia Power Transmission Lines & Towers Market is experiencing significant growth, driven by rising electricity demand, infrastructure modernization, and government initiatives to expand the national grid. As the Kingdom progresses toward Vision 2030, investments in power transmission infrastructure are increasing to support industrial expansion, urbanization, and renewable energy integration. The growing population, coupled with large-scale commercial and residential developments, has necessitated a robust and reliable power transmission network to ensure energy security across the country. Additionally, the increasing adoption of high-voltage direct current (HVDC) transmission and smart grid technologies is reshaping the market landscape.

Key Market Drivers

Rising Electricity Demand Due to Industrial and Urban Expansion

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Saudi Arabia is experiencing rapid industrial and urban growth, significantly increasing electricity demand. The expansion of industrial zones, including the development of NEOM, the Red Sea Project, and Vision 2030-driven economic initiatives, has intensified the need for a reliable and expanded power transmission network. As urbanization accelerates, cities like Riyadh, Jeddah, and Dammam require enhanced grid infrastructure to support commercial and residential developments. Additionally, the government's push for economic diversification has led to increased electricity consumption in sectors like manufacturing, mining, and tourism. This demand surge necessitates the expansion and modernization of power transmission lines and towers to ensure grid stability and efficiency.

Saudi Arabia's hot climate further compounds energy demand, with air conditioning accounting for nearly 70% of household electricity consumption. The need for uninterrupted power supply during peak summer months places immense pressure on the transmission network, prompting the expansion of high-voltage transmission lines and robust grid infrastructure. Furthermore, population growth continues to drive residential energy consumption, necessitating the development of more power transmission lines to cater to new housing developments. The country aims to generate 50% of its electricity from renewable sources by 2030, with solar and wind energy projects contributing significantly to the energy mix.

Key Market Challenges

High Infrastructure Costs and Capital Expenditure

One of the major challenges in the Saudi Arabia Power Transmission Lines & Towers Market is the high cost of infrastructure development. Transmission lines and towers require substantial investment in materials, labor, and advanced technology to ensure efficiency, reliability, and longevity. The cost of constructing high-voltage transmission networks, integrating renewable energy sources, and upgrading aging infrastructure places a significant financial burden on both public and private entities.

Saudi Arabia is expanding its electricity grid to support growing energy demands, but the cost of land acquisition, installation, and maintenance of transmission lines continues to rise. Additionally, advanced grid technologies, such as smart transmission systems and digital monitoring, demand further capital investment.

Financing large-scale transmission projects remains a challenge as public-private partnerships (PPPs) are still evolving. Government funding plays a critical role, but

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economic fluctuations and budget constraints may limit infrastructure spending. The private sector faces risks due to high upfront costs, regulatory uncertainties, and lengthy project timelines, which impact investment attractiveness.

To address these challenges, Saudi Arabia is seeking foreign investments and private sector participation under its Vision 2030 initiative, but ensuring cost-effective project execution while maintaining quality and efficiency remains a significant hurdle.

Key Market Trends

Increasing Investments in Renewable Energy Transmission

Saudi Arabia is rapidly shifting towards renewable energy to diversify its power mix and reduce dependence on fossil fuels. The country has set a target to generate 50% of its electricity from renewables by 2030, with significant investments in solar and wind energy projects. As a result, new transmission lines and towers are being developed to integrate these renewable power sources into the national grid.

The Sakaka Solar Plant (300 MW) and the Dumat Al-Jandal Wind Farm (400 MW) are examples of renewable energy projects that require dedicated transmission networks. Additionally, the Sudair Solar Project (1,500 MW), one of the largest solar power projects in the region, demands extensive transmission infrastructure to connect to the grid.

A key challenge in renewable energy transmission is the intermittency of solar and wind power, which requires grid modernization and energy storage solutions. Saudi Arabia is investing in smart grid technology and energy storage systems to ensure stable electricity distribution.

Another critical aspect is the need for new substations and grid reinforcements in remote areas where renewable energy projects are being developed. The government is working with international firms to enhance transmission capabilities, including Siemens Energy, ABB, and General Electric (GE).

Key Market Players

Saudi Electricity Company

Zamil Group Holding Company

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Al Sharif Group Holding

Schneider Electric Saudi Arabia

Siemens Saudi Arabia

General Electric

Al-Babtain Power & Telecom

National Company for Galvanizing and Steel Poles (Galvanco)

Report Scope:

In this report, the Saudi Arabia Power Transmission Lines & Towers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Saudi Arabia Power Transmission Lines & Towers Market, By Product:

- Transmission Lines
- Transmission Towers

Saudi Arabia Power Transmission Lines & Towers Market, By Current:

- HVAC
- HVDC

Saudi Arabia Power Transmission Lines & Towers Market, By Voltage:

- 69 kV to 130 kV
- 131 kV to 220 kV

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221 kV to 660 kV

>660 kV

Saudi Arabia Power Transmission Lines & Towers Market, By Application:

High Tension

Extra High Tension

Ultra High Tension

Saudi Arabia Power Transmission Lines & Towers Market, By Region:

Riyadh

Makkah

Madinah

Asir

Jeddah

Tabuk

Eastern Province

Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Power Transmission Lines & Towers Market.

Available Customizations:

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Saudi Arabia Power Transmission Lines & Towers Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five)

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