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Europe Gas Pipeline Infrastructure Market Forecast to 2030 - Regional Analysis - by Operation (Transmission and Distribution), Equipment (Pipeline, Compressor Station, Metering Skids, and Others), and Application (Onshore and Offshore)

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Abstracts

The Europe gas pipeline infrastructure market is expected to grow from US$ 9,715.58 billion in 2022 to US$ 11,480.39 billion by 2030. It is estimated to record a CAGR of 2.1% from 2022 to 2030.

Integration with Renewable Energy Drives Europe Gas Pipeline Infrastructure Market

Integration with renewable energy involves leveraging natural gas pipelines to support the intermittent nature of renewable sources such as solar and wind power. This integration offers opportunities for pipeline operators to collaborate with renewable energy developers and invest in infrastructure that complements renewable energy generation. For example, gas-fired power plants can provide backup and grid stability during periods of low renewable energy output, reducing reliance on fossil fuels and carbon emissions. Additionally, advancements in technologies like power-to-gas allow excess renewable energy to be converted into hydrogen or synthetic natural gas, which can be stored in pipelines for later use. By integrating natural gas pipelines with renewable energy sources, companies can contribute to decarbonization efforts, enhance energy security, and support the transition to a more sustainable energy system.

Europe Gas Pipeline Infrastructure Market Overview

Russia, Germany, France, and Spain are some of the major countries aiding to the

overall growth of the gas pipeline infrastructure market in Europe. The government policies and mandates in line with the net zero carbon emission and clean energy targets are creating the demand for sustainable infrastructure, including gas pipeline networks. In the European Union, the carbon dioxide ratio in the power sector intensified substantially in 2022. A few countries resumed operations at coal-driven power plants, while outages at nuclear plants and low hydropower production fueled the dependability of natural gas. In line with the Paris Agreement, which involved 196 participants at the UN Climate Change Conference (COP21) in Paris, France, in 2015-the government is establishing net zero emission and green energy policies. The growing share of low-carbon emission energy resources in the power mix and the industrial sector are major driving factors for the gas pipeline infrastructure market in the region. The development of new pipeline infrastructure and the advancement of the capacity of existing gas pipelines are also likely to fuel the growth of the gas pipeline infrastructure market in Europe over the forecast period. Germany experienced slow growth in gas production until the end of 2022 due to the scarcity of gas resources across the country's mining areas. The country relies majorly on imports from different countries, such as the US, Italy, the UK, and Norway. It imports approximately 70% of its energy requirements as its domestic production caters to only ~6% of its gas consumption. In 2023, the governments of Germany and Italy collaborated to form a projected gas pipeline. The proposed pipeline is a 3,300 km project and is anticipated to incorporate four European transmission system operators, including Trans Austria Gasleitung, Snam, Bayernets, and Gas Connect Austria in Germany. Thus, the development of the new pipeline and maintenance of the existing gas network is anticipated to boost the development of gas pipeline infrastructure in Germany over the forecast period.

Europe Gas Pipeline Infrastructure Market Revenue and Forecast to 2030 (US$ Billion)

Europe Gas Pipeline Infrastructure Market Segmentation

The Europe gas pipeline infrastructure market is segmented into operation, equipment, application, and country.

Based on operation, the Europe gas pipeline infrastructure market is bifurcated into transmission and distribution. The distribution segment held a larger share of Europe gas pipeline infrastructure market in 2022.

In terms of equipment, the Europe gas pipeline infrastructure market is categorized into pipeline, compressor station, metering skids, and valves. The pipeline segment held the largest share of Europe gas pipeline infrastructure market in 2022.

Based on application, the Europe gas pipeline infrastructure market is bifurcated into onshore and offshore. The onshore segment held a larger share of Europe gas pipeline infrastructure market in 2022.

Based on country, the Europe gas pipeline infrastructure market is segmented into Germany, France, Italy, Spain, Russia, the UK, and the Rest of Europe. The Rest of Europe dominated the Europe gas pipeline infrastructure market in 2022.

Enbridge Inc, Berkshire Hathaway Inc, Kinder Morgan Inc, Beltps, Enagas SA, and Saipem SpA are some of the leading companies operating in the Europe gas pipeline infrastructure market.

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