

# **Europe Turboexpander Market Forecast to 2030 - Regional Analysis - by Loading Device (Compressor, Generator, and Hydraulic/Oil Brake), Power Capacity [Less than 1 MW (Up to 500 KW and 500 KW to 1 MW), 1 MW to 20 MW, and More than 20 MW], and End User (Oil and Gas, Power Generation, and Industrial)**

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## **Abstracts**

The Europe turboexpander market was valued at US\$ 227.77 million in 2022 and is expected to reach US\$ 325.78 million by 2030; it is estimated to record a CAGR of 4.6% from 2022 to 2030.

Easy Regulation, Low Maintenance Requirements, and High Efficiency Drive Europe Turboexpander Market

Turboexpanders are critical in applications such as industrial gas processing, power recovery, and power generation. They are commonly used in the natural gas industry for liquification and dewpoint management. They are also used in the petrochemical industry primarily for ethylene plant refrigeration and air separation. A sustained performance of this equipment is crucial for the profitability of a business. A turboexpander can aid in attaining the same pressure drop more effortlessly than a valve. Easy regulation and moderate maintenance requirements are a few of the major features of turboexpanders. Nonetheless, turboexpanders need to be monitored frequently after commissioning and in the initial stage of installation. A turboexpander system is generally divided into three major parts: an expander, a compressor, and a bearing. Expander casing is generally made of stainless steel, and compressor casing and bearings are fabricated of carbon steel. Regular monitoring and periodic servicing are enough to maintain a turboexpander for many years. Repair time sometimes varies

depending on the severity of the damage.

The design of turboexpanders may vary depending on the plant type. However, original equipment manufacturers (OEMs) have standardized a few of the common components, and some critical parts are exclusive to specific machines. Thus, low maintenance, convenient design, and high efficiency in applications are the major factors driving the turboexpanders market.

### Europe Turboexpander Market Overview

Russia is the world's third-largest oil producer, following the US and Saudi Arabia. In January 2022, its total oil production reached 11.3 million barrels per day (mb/d), with crude oil accounting for 10 mb/d, condensates at 960 kb/d, and natural gas liquids (NGLs) at 340 kb/d. Notably, Russia stands as the leading exporter of oil to international markets, ranking second only to Saudi Arabia in terms of crude oil exports. In December 2021, oil exports in Russia reached 7.8 mb/d, with crude and condensate contributing 5 mb/d, representing 64% of the total exports. The remaining exports included oil products, totaling 2.85 mb/d. Among these products, gasoil accounted for 1.1 mb/d, fuel oil for 650 kb/d, naphtha for 500 kb/d, and vacuum gas oil (VGO) for 280 kb/d. Gasoline, liquefied petroleum gas (LPG), jet fuel, and petroleum coke comprised the remaining 350 kb/d. The prominence of Russia in global oil production and exports, coupled with its diverse range of oil products, indicates a robust and dynamic energy sector, which, in turn, benefits the turboexpander market in the country.

### Europe Turboexpander Market Revenue and Forecast to 2030 (US\$ Million)

#### Europe Turboexpander Market Segmentation

The Europe turboexpander market is segmented based on loading device, power capacity, end user, and country. Based on loading device, the Europe turboexpander market is segmented into compressor, generator, and hydraulic/oil brake. The compressor segment held the largest market share in 2022.

In terms of power capacity, the Europe turboexpander market is categorized into less than 1 MW, 1 MW to 20 MW, and more than 20 MW. The 1 MW to 20 MW segment held the largest market share in 2022. The 1 MW to 20 MW segment is further bifurcated into Up to 500 KW and 500 KW to 1 MW.

By end user, the Europe turboexpander market is segmented into oil & gas, power

generation, and industrial. The oil & gas segment held the largest market share in 2022.

Based on country, the Europe turboexpander market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. Russia dominated the Europe turboexpander market share in 2022.

Elliott Co, Air Products & Chemicals Inc, Atlas Copco AB, Cryostar SAS, Turboden SpA, L'Air Liquide SA, and Siemens Energy AG are some of the leading players operating in the Europe turboexpander market.

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