

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.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. EUROPE TURBOEXPANDER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
 - 4.2.1 Raw Material/Equipment Suppliers
 - 4.2.2 Component Manufacturers
 - 4.2.3 End-User
 - 4.2.4 List of Vendors in the Value Chain

5. EUROPE TURBOEXPANDER MARKET - KEY MARKET DYNAMICS

- 5.1 Turboexpander Market - Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Rise in Demand for Natural Gas
 - 5.2.2 Application in Energy Recovery and Power Generation Operations
 - 5.2.3 Easy Regulation, Low Maintenance Requirements, and High Efficiency
- 5.3 Market Restraints
 - 5.3.1 Availability of Alternatives
- 5.4 Market Opportunities
 - 5.4.1 Use of Turboexpander as Distributed Generator
 - 5.4.2 Development of Cryogenic Expanders

5.5 Future Trends

5.5.1 Technological Advancements

5.6 Impact of Drivers and Restraints:

6. TURBOEXPANDER MARKET - EUROPE MARKET ANALYSIS

6.1 Europe Turboexpander Market Overview

6.2 Turboexpander Market Revenue (US\$ Million), 2020-2030

6.3 Turboexpander Market Forecast Analysis

7. EUROPE TURBOEXPANDER MARKET ANALYSIS - BY LOADING DEVICE

7.1 Compressor

7.1.1 Overview

7.1.2 Compressor: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

7.2 Generator

7.2.1 Overview

7.2.2 Generator: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

7.3 Hydraulic/Oil Brake

7.3.1 Overview

7.3.2 Hydraulic/Oil Brake: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

8. EUROPE TURBOEXPANDER MARKET ANALYSIS - BY POWER CAPACITY

8.1 Less than 1 MW

8.1.1 Overview

8.1.2 Less than 1 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

8.1.2.1 Up to 500 KW

8.1.2.2 Up to 500 KW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

8.1.2.3 500 KW to 1 MW

8.1.2.4 500 KW to 1 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

8.2 1 MW to 20 MW

8.2.1 Overview

8.2.2 1 MW to 20 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

Million)

8.3 More than 20 MW

8.3.1 Overview

8.3.2 More than 20 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

9. EUROPE TURBOEXPANDER MARKET ANALYSIS - BY END USER

9.1 Oil and Gas

9.1.1 Overview

9.1.2 Oil and Gas: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

9.2 Power Generation

9.2.1 Overview

9.2.2 Power Generation: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

9.3 Industrial

9.3.1 Overview

9.3.2 Industrial: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

10. EUROPE TURBOEXPANDER MARKET - COUNTRY ANALYSIS

10.1 Europe

10.1.1 Europe: Turboexpander Market - Revenue and Forecast Analysis - by Country

10.1.1.1 Europe: Turboexpander Market - Revenue and Forecast Analysis - by Country

10.1.1.2 Germany: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

10.1.1.2.1 Germany: Turboexpander Market Breakdown, by Loading Device

10.1.1.2.2 Germany: Turboexpander Market Breakdown, by Power Capacity

10.1.1.2.3 Germany: Turboexpander Market Breakdown, by Less Than 1 Mw

10.1.1.2.4 Germany: Turboexpander Market Breakdown, by End user

10.1.1.3 Italy: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

10.1.1.3.1 Italy: Turboexpander Market Breakdown, by Loading Device

10.1.1.3.2 Italy: Turboexpander Market Breakdown, by Power Capacity

10.1.1.3.3 Italy: Turboexpander Market Breakdown, by Less Than 1 Mw

10.1.1.3.4 Italy: Turboexpander Market Breakdown, by End user

10.1.1.4 France: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

- 10.1.1.4.1 France: Turboexpander Market Breakdown, by Loading Device
- 10.1.1.4.2 France: Turboexpander Market Breakdown, by Power Capacity
- 10.1.1.4.3 France: Turboexpander Market Breakdown, by Less Than 1 Mw
- 10.1.1.4.4 France: Turboexpander Market Breakdown, by End user
- 10.1.1.5 UK: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
 - 10.1.1.5.1 UK: Turboexpander Market Breakdown, by Loading Device
 - 10.1.1.5.2 UK: Turboexpander Market Breakdown, by Power Capacity
 - 10.1.1.5.3 UK: Turboexpander Market Breakdown, by Less Than 1 Mw
 - 10.1.1.5.4 UK: Turboexpander Market Breakdown, by End user
- 10.1.1.6 Russia: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
 - 10.1.1.6.1 Russia: Turboexpander Market Breakdown, by Loading Device
 - 10.1.1.6.2 Russia: Turboexpander Market Breakdown, by Power Capacity
 - 10.1.1.6.3 Russia: Turboexpander Market Breakdown, by Less Than 1 Mw
 - 10.1.1.6.4 Russia: Turboexpander Market Breakdown, by End user
- 10.1.1.7 Rest of Europe: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
 - 10.1.1.7.1 Rest of Europe: Turboexpander Market Breakdown, by Loading Device
 - 10.1.1.7.2 Rest of Europe: Turboexpander Market Breakdown, by Power Capacity
 - 10.1.1.7.3 Rest of Europe: Turboexpander Market Breakdown, by Less Than 1 Mw
 - 10.1.1.7.4 Rest of Europe: Turboexpander Market Breakdown, by End user

11. INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Market Initiative
- 11.3 Merger and Acquisition

12. COMPANY PROFILES

- 12.1 Elliott Co
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Developments
- 12.2 Air Products & Chemicals Inc
 - 12.2.1 Key Facts

- 12.2.2 Business Description
- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments
- 12.3 Atlas Copco AB
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 Cryostar SAS
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Turboden SpA
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 L'Air Liquide SA
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Siemens Energy AG
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis

12.7.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Turboexpander Market Segmentation

Table 2. List of Vendors

Table 3. Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)

Table 4. Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million) - by Loading Device

Table 5. Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million) - by Power Capacity

Table 6. Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million) - by End user

Table 7. Europe: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Country

Table 8. Germany: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Loading Device

Table 9. Germany: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Power Capacity

Table 10. Germany: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Less Than 1 Mw

Table 11. Germany: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by End user

Table 12. Italy: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Loading Device

Table 13. Italy: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Power Capacity

Table 14. Italy: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Less Than 1 Mw

Table 15. Italy: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by End user

Table 16. France: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Loading Device

Table 17. France: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Power Capacity

Table 18. France: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Less Than 1 Mw

Table 19. France: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by End user

Table 20. UK: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Loading Device

Table 21. UK: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Power Capacity

Table 22. UK: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Less Than 1 Mw

Table 23. UK: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by End user

Table 24. Russia: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Loading Device

Table 25. Russia: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Power Capacity

Table 26. Russia: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Less Than 1 Mw

Table 27. Russia: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by End user

Table 28. Rest of Europe: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Loading Device

Table 29. Rest of Europe: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Power Capacity

Table 30. Rest of Europe: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by Less Than 1 Mw

Table 31. Rest of Europe: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million) - by End user

List Of Figures

LIST OF FIGURES

- Figure 1. Turboexpander Market Segmentation, by Country
- Figure 2. Ecosystem: Turboexpander Market
- Figure 3. Impact Analysis of Drivers and Restraints
- Figure 4. Turboexpander Market Revenue (US\$ Million), 2020-2030
- Figure 5. Turboexpander Market Share (%) - by Loading Device (2022 and 2030)
- Figure 6. Compressor: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 7. Generator: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 8. Hydraulic/Oil Brake: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 9. Turboexpander Market Share (%) - by Power Capacity (2022 and 2030)
- Figure 10. Less than 1 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 11. Up to 500 KW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 12. 500 KW to 1 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 13. 1 MW to 20 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 14. More than 20 MW: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 15. Turboexpander Market Share (%) - by End user (2022 and 2030)
- Figure 16. Oil and Gas: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 17. Power Generation: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 18. Industrial: Turboexpander Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 19. Europe: Turboexpander Market, by Key Countries - Revenue (2022) (US\$ Million)
- Figure 20. Europe: Turboexpander Market Breakdown, by Key Countries, 2022 and 2030 (%)
- Figure 21. Germany: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million)

Figure 22. Italy: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million)

Figure 23. France: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million)

Figure 24. UK: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million)

Figure 25. Russia: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million)

Figure 26. Rest of Europe: Turboexpander Market - Revenue and Forecast to 2030(US\$ Million)

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