

# Europe Lignin Market Size and Forecast (2021 - 2031)

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## Abstracts

The Europe Lignin Market is projected to grow significantly, with an expected size of approximately US\$ 189,156.1 thousand by 2031, up from US\$ 125,862.0 thousand in 2023. This growth translates to a compound annual growth rate (CAGR) of 5.2% from 2023 to 2031.

### Executive Summary and Market Analysis

The European Union is actively working on regulations to oversee the production of new batteries, aiming to promote the use of cost-effective and environmentally friendly biodegradable polymers. The increasing adoption of electric vehicles (EVs) in Europe is driving a substantial rise in battery demand. As battery manufacturers seek sustainable materials to support the electrification of transportation, the demand for lignin—a natural polymer derived from wood—is expected to surge. The automotive industry is prioritizing sustainability, leading car and battery manufacturers to focus on reducing carbon emissions associated with electric vehicles. Consequently, manufacturers of bio-based carbon materials are investing in innovative product development. For example, Stora Enso Oyj launched a pilot facility on July 21, 2021, dedicated to producing bio-based carbon materials from lignin, following an investment of US\$ 11.32 million in 2019.

### Strategic Insights

#### Market Segmentation Analysis

The Europe Lignin Market can be categorized based on type, form, and application:

**By Type:** The market is divided into Lignosulfonates, Kraft Lignin, High Purity Lignin, Hydrolysis Lignin, and Others. In 2023, Lignosulfonates dominated the market share.

**By Form:** The market is segmented into Solid and Liquid forms, with Solid lignin holding the largest market share in 2023.

**By Application:** The applications of lignin include Concrete Additives, Plastics

and Polymers, Animal Feed, Water Treatment, Dyes and Pigments, Activated Carbon, Agriculture, Biofuels, and Others. The 'Others' category accounted for the largest share in 2023.

## Market Outlook

Various European governments have enacted regulations to limit the use of harmful chemicals in manufacturing processes across industries such as personal care, agriculture, and animal feed. These regulations aim to protect human health and the environment by reducing the adverse effects of fertilizers and other chemicals. The European Union has implemented strict guidelines to mitigate greenhouse gas emissions, prompting polymer manufacturers to invest in the development of naturally sourced raw materials. The growing awareness of greenhouse gas emissions has led to an increased demand for bio-based polymer products. In 2020, the European Commission adopted a Circular Economy Action Plan (CEAP) to promote sustainable practices and reduce reliance on non-renewable resources. Lignin serves as a crucial intermediate in the production of phenol, phenolic resins, and emulsifying agents. For instance, Lignin Industries AB received US\$ 1.38 million in funding from the Swedish Energy Agency in 2020 to advance lignin-based technologies. The global emphasis on biofuels, supported by regulatory measures to combat air pollution and greenhouse gas emissions, is further propelling the demand for lignin. Thus, government initiatives aimed at promoting sustainable and bio-based products are key drivers of growth in the lignin market.

## Country Insights

The Europe Lignin Market is segmented by country, including Germany, France, Italy, the United Kingdom, Russia, Norway, Sweden, Denmark, and the Rest of Europe. In 2023, the Rest of Europe held the largest market share. This segment includes countries such as Spain, Poland, the Netherlands, Greece, and Belgium, where the demand for lignin-based biopolymers is increasing due to strong governmental support and initiatives promoting lignin's use in various commercial applications. The Bio-Based Industries Joint Undertaking, part of the European Union's Horizon 2020 research and innovation program, is funding the LIGNICOAT project (running from June 2021 to October 2024) to develop sustainable coatings from lignin-based resins and additives, enhancing fire, corrosion, and biological resistance. Additionally, rapid industrialization and the growing demand for bio-based materials to meet sustainability goals are expected to create lucrative opportunities for the lignin market in the Rest of Europe during the forecast period.

## Company Profiles

Key players in the Lignin Market include Tokyo Chemical Industry Co Ltd, Nippon Paper

Industries Co Ltd, UPM-Kymmene Corp, Stora Enso Oyj, West Fraser Timber Co Ltd, Suzano SA, The Dallas Group of America Inc, Borregaard ASA, Burgo Group SpA, Domsjo Fabriker AB, Sappi Ltd, Ingevity Corp, Rayonier Advanced Materials Inc, RenFuel K2B AB, and CIMV. These companies are employing various strategies, including expansion, product innovation, and mergers and acquisitions, to enhance their product offerings and increase market share.

## Contents

### **1. INTRODUCTION**

- 1.1 Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Secondary Research
- 3.2 Primary Research
  - 3.2.1 Hypothesis formulation:
  - 3.2.2 Macroeconomic factor analysis:
  - 3.2.3 Developing base number:
  - 3.2.4 Data Triangulation:
  - 3.2.5 Country-level data:

### **4. LIGNIN MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
  - 4.2.1 Threat of New Entrants:
  - 4.2.2 Threat of Substitutes:
  - 4.2.3 Bargaining Power of Buyers:
  - 4.2.4 Bargaining Power of Suppliers:
  - 4.2.5 Competitive Rivalry:
- 4.3 Ecosystem Analysis
  - 4.3.1 Raw Material Suppliers
  - 4.3.2 Manufacturers
  - 4.3.3 Distributors or Suppliers
  - 4.3.4 End-Use Industry

### **5. EUROPE LIGNIN MARKET - KEY MARKET DYNAMICS**

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

## **6. LIGNIN MARKET - EUROPE MARKET ANALYSIS**

- 6.1 Europe Lignin Market Volume (Tons), 2021 - 2031
- 6.2 Europe Lignin Market Volume Forecast and Analysis (Tons)
- 6.3 Europe Lignin Market Revenue (US\$ Thousand), 2023 -2031
- 6.4 Europe Lignin Market Forecast and Analysis

## **7. EUROPE LIGNIN MARKET VOLUME AND REVENUE ANALYSIS - BY TYPE**

- 7.1 Lignosulfonates
  - 7.1.1 Overview
  - 7.1.2 Lignosulfonates: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
  - 7.1.3 Lignosulfonates: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- 7.2 Kraft Lignin
  - 7.2.1 Overview
  - 7.2.2 Kraft Lignin: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
  - 7.2.3 Kraft Lignin: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- 7.3 High Purity Lignin
  - 7.3.1 Overview
  - 7.3.2 High Purity Lignin: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
  - 7.3.3 High Purity Lignin: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- 7.4 Hydrolysis Lignin
  - 7.4.1 Overview
  - 7.4.2 Hydrolysis Lignin: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
  - 7.4.3 Hydrolysis Lignin: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- 7.5 Others

### 7.5.1 Overview

7.5.2 Others: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)

7.5.3 Others: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

## **8. EUROPE LIGNIN MARKET REVENUE ANALYSIS - BY FORM**

### 8.1 Solid

8.1.1 Overview

8.1.2 Solid: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

### 8.2 Liquid

8.2.1 Overview

8.2.2 Liquid: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

## **9. EUROPE LIGNIN MARKET REVENUE ANALYSIS - BY APPLICATION**

### 9.1 Concrete Additives

9.1.1 Overview

9.1.2 Concrete Additives: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

### 9.2 Plastics and Polymers

9.2.1 Overview

9.2.2 Plastics and Polymers: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

### 9.3 Animal Feed

9.3.1 Overview

9.3.2 Animal Feed: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

### 9.4 Water Treatment

9.4.1 Overview

9.4.2 Water Treatment: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

### 9.5 Dyes and Pigments

9.5.1 Overview

9.5.2 Dyes and Pigments: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

### 9.6 Activated Carbon

#### 9.6.1 Overview

9.6.2 Activated Carbon: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

#### 9.7 Agriculture

##### 9.7.1 Overview

9.7.2 Agriculture: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

#### 9.8 Biofuels

##### 9.8.1 Overview

9.8.2 Biofuels: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

#### 9.9 Others

##### 9.9.1 Overview

9.9.2 Others: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

## 10. EUROPE LIGNIN MARKET - COUNTRY ANALYSIS

### 10.1 Europe

10.1.1 Europe Lignin Market Revenue and Forecast and Analysis - by Country

10.1.1.1 Europe Lignin Market Volume and Forecast and Analysis - by Country

10.1.1.2 Europe Lignin Market Revenue and Forecast and Analysis - by Country

10.1.2.2 Germany: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)

10.1.2.2.1 Germany: Europe Lignin Market Share - by Type

10.1.2.2.2 Germany: Europe Lignin Market Share - by Form

10.1.2.2.3 Germany: Europe Lignin Market Share - by Application

10.2.3.3 France: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)

10.2.3.3.1 France: Europe Lignin Market Share - by Type

10.2.3.3.2 France: Europe Lignin Market Share - by Form

10.2.3.3.3 France: Europe Lignin Market Share - by Application

10.3.4.4 Italy: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)

10.3.4.4.1 Italy: Europe Lignin Market Share - by Type

10.3.4.4.2 Italy: Europe Lignin Market Share - by Form

10.3.4.4.3 Italy: Europe Lignin Market Share - by Application

10.4.5.5 United Kingdom: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)

- 10.4.5.5.1 United Kingdom: Europe Lignin Market Share - by Type
- 10.4.5.5.2 United Kingdom: Europe Lignin Market Share - by Form
- 10.4.5.5.3 United Kingdom: Europe Lignin Market Share - by Application
- 10.5.6.6 Russia: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)
  - 10.5.6.6.1 Russia: Europe Lignin Market Share - by Type
  - 10.5.6.6.2 Russia: Europe Lignin Market Share - by Form
  - 10.5.6.6.3 Russia: Europe Lignin Market Share - by Application
- 10.6.7.7 Norway: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)
  - 10.6.7.7.1 Norway: Europe Lignin Market Share - by Type
  - 10.6.7.7.2 Norway: Europe Lignin Market Share - by Form
  - 10.6.7.7.3 Norway: Europe Lignin Market Share - by Application
- 10.7.8.8 Sweden: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)
  - 10.7.8.8.1 Sweden: Europe Lignin Market Share - by Type
  - 10.7.8.8.2 Sweden: Europe Lignin Market Share - by Form
  - 10.7.8.8.3 Sweden: Europe Lignin Market Share - by Application
- 10.8.9.9 Denmark: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)
  - 10.8.9.9.1 Denmark: Europe Lignin Market Share - by Type
  - 10.8.9.9.2 Denmark: Europe Lignin Market Share - by Form
  - 10.8.9.9.3 Denmark: Europe Lignin Market Share - by Application
- 10.9.10.10 Rest of Europe: Europe Lignin Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Thousand, Tons)
  - 10.9.10.10.1 Rest of Europe: Europe Lignin Market Share - by Type
  - 10.9.10.10.2 Rest of Europe: Europe Lignin Market Share - by Form
  - 10.9.10.10.3 Rest of Europe: Europe Lignin Market Share - by Application

## **11 COMPETITIVE LANDSCAPE**

- 11.1 Heat Map Analysis by Key Players
- 11.2 Company Positioning & Concentration

## **12 INDUSTRY LANDSCAPE**

- 12.1 Overview
- 12.2 New Product Development
- 12.3 Merger and Acquisition

## 12.4 Other Strategic Developments

## **13 COMPANY PROFILES**

### 13.1 Tokyo Chemical Industry Co Ltd

- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments

### 13.2 Nippon Paper Industries Co Ltd

- 13.2.1 Key Facts
- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments

### 13.3 UPM-Kymmene Corp

- 13.3.1 Key Facts
- 13.3.2 Business Description
- 13.3.3 Products and Services
- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments

### 13.4 Stora Enso Oyj

- 13.4.1 Key Facts
- 13.4.2 Business Description
- 13.4.3 Products and Services
- 13.4.4 Financial Overview
- 13.4.5 SWOT Analysis
- 13.4.6 Key Developments

### 13.5 West Fraser Timber Co Ltd

- 13.5.1 Key Facts
- 13.5.2 Business Description
- 13.5.3 Products and Services
- 13.5.4 Financial Overview
- 13.5.5 SWOT Analysis
- 13.5.6 Key Developments

- 13.6 Suzano SA
  - 13.6.1 Key Facts
  - 13.6.2 Business Description
  - 13.6.3 Products and Services
  - 13.6.4 Financial Overview
  - 13.6.5 SWOT Analysis
  - 13.6.6 Key Developments
- 13.7 The Dallas Group of America Inc
  - 13.7.1 Key Facts
  - 13.7.2 Business Description
  - 13.7.3 Products and Services
  - 13.7.4 Financial Overview
  - 13.7.5 SWOT Analysis
  - 13.7.6 Key Developments
- 13.8 Borregaard ASA
  - 13.8.1 Key Facts
  - 13.8.2 Business Description
  - 13.8.3 Products and Services
  - 13.8.4 Financial Overview
  - 13.8.5 SWOT Analysis
  - 13.8.6 Key Developments
- 13.9 Burgo Group SpA
  - 13.9.1 Key Facts
  - 13.9.2 Business Description
  - 13.9.3 Products and Services
  - 13.9.4 Financial Overview
  - 13.9.5 SWOT Analysis
  - 13.9.6 Key Developments
- 13.10 Domsjo Fabriker AB
  - 13.10.1 Key Facts
  - 13.10.2 Business Description
  - 13.10.3 Products and Services
  - 13.10.4 Financial Overview
  - 13.10.5 SWOT Analysis
  - 13.10.6 Key Developments
- 13.11 Sappi Ltd
  - 13.11.1 Key Facts
  - 13.11.2 Business Description
  - 13.11.3 Products and Services

- 13.11.4 Financial Overview
- 13.11.5 SWOT Analysis
- 13.11.6 Key Developments
- 13.12 Ingevity Corp
  - 13.12.1 Key Facts
  - 13.12.2 Business Description
  - 13.12.3 Products and Services
  - 13.12.4 Financial Overview
  - 13.12.5 SWOT Analysis
  - 13.12.6 Key Developments
- 13.13 Rayonier Advanced Materials Inc
  - 13.13.1 Key Facts
  - 13.13.2 Business Description
  - 13.13.3 Products and Services
  - 13.13.4 Financial Overview
  - 13.13.5 SWOT Analysis
  - 13.13.6 Key Developments
- 13.14 RenFuel K2B AB
  - 13.14.1 Key Facts
  - 13.14.2 Business Description
  - 13.14.3 Products and Services
  - 13.14.4 Financial Overview
  - 13.14.5 SWOT Analysis
  - 13.14.6 Key Developments
- 13.15 CIMV
  - 13.15.1 Key Facts
  - 13.15.2 Business Description
  - 13.15.3 Products and Services
  - 13.15.4 Financial Overview
  - 13.15.5 SWOT Analysis
  - 13.15.6 Key Developments

## **14. APPENDIX**

- 14.1 About The Insight Partners

## List Of Tables

### LIST OF TABLES

Table 1. Europe Lignin Market Segmentation

Table 3. Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)

Table 4. Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

Table 5. Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 5. Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 6. Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 7. Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 8. Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Country

Table 9. Germany: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 10. Germany: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 11. Germany: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 12. Germany: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 13. France: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 14. France: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 15. France: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 16. France: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 17. Italy: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 18. Italy: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 19. Italy: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 20. Italy: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$

Thousand) - by Application

Table 21. United Kingdom: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 22. United Kingdom: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 23. United Kingdom: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 24. United Kingdom: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 25. Russia: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 26. Russia: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 27. Russia: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 28. Russia: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 29. Norway: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 30. Norway: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 31. Norway: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 32. Norway: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 33. Sweden: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 34. Sweden: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 35. Sweden: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 36. Sweden: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 37. Denmark: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 38. Denmark: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 39. Denmark: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 40. Denmark: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 41. Rest of Europe: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons) - by Type

Table 42. Rest of Europe: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Type

Table 43. Rest of Europe: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Form

Table 44. Rest of Europe: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand) - by Application

Table 45. Heat Map Analysis by Key Players

## List Of Figures

### LIST OF FIGURES

- Figure 1. Europe Lignin Market Segmentation - Country
- Figure 2. Porter's Analysis
- Figure 3. Ecosystem: Lignin Market
- Figure 4. Europe Lignin Market - Key Market Dynamics
- Figure 5. Impact Analysis of Drivers and Restraints
- Figure 6. Europe Lignin Market Volume (Tons), 2021 - 2031
- Figure 7. Europe Lignin Market Revenue (US\$ Thousand), 2023 - 2031
- Figure 8. Europe Lignin Market Share (%) - by Type, 2023 and 2031
- Figure 9. Lignosulfonates: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
- Figure 9. Lignosulfonates: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 10. Kraft Lignin: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
- Figure 10. Kraft Lignin: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 11. High Purity Lignin: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
- Figure 11. High Purity Lignin: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 12. Hydrolysis Lignin: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
- Figure 12. Hydrolysis Lignin: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 13. Others: Europe Lignin Market - Volume and Forecast, 2021 - 2031 (Tons)
- Figure 13. Others: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 14. Europe Lignin Market Share (%) - by Form, 2023 and 2031
- Figure 15. Solid: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 16. Liquid: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 17. Europe Lignin Market Share (%) - by Application, 2023 and 2031
- Figure 18. Concrete Additives: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)

- Figure 19. Plastics and Polymers: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 20. Animal Feed: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 21. Water Treatment: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 22. Dyes and Pigments: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 23. Activated Carbon: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 24. Agriculture: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 25. Biofuels: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 26. Others: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 27. Europe Lignin Market Breakdown by Key Countries, 2023 and 2031 (%)
- Figure 28. Germany: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 29. France: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 30. Italy: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 31. United Kingdom: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 32. Russia: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 33. Norway: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 34. Sweden: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 35. Denmark: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 36. Rest of Europe: Europe Lignin Market - Revenue and Forecast, 2021 - 2031 (US\$ Thousand)
- Figure 37. Company Positioning & Concentration

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