

Global Pyrolysis Oil Market Size study & Forecast, by Feedstock (Plastic, Rubber, Biomass, Others), By Process (Fast pyrolysis, Flash pyrolysis, Slow Pyrolysis), By End Use (Heat and power, Automotive fuel, others), and Regional Analysis, 2022-2029

<https://marketpublishers.com/r/G14A3C1FC700EN.html>

Date: April 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G14A3C1FC700EN

Abstracts

Global Pyrolysis Oil Market is valued at approximately USD 318.5 million in 2021 and is anticipated to grow with a healthy growth rate of more than 4.3% over the forecast period 2022-2029. Pyrolysis oil is a synthetic fuel created as an alternative to petroleum and is defined as a liquid material obtained through the pyrolysis process and subsequent cooling. The product, also known as biocrude or bio-oil, is a complex mixture of molecules made up of typically more than 200 distinct chemicals that are created when products that have been subjected to pyrolysis are depolymerized. This is a well-known source of renewable compounds and bio-chemicals used in many different industries. As pyrolysis oil may cut carbon emissions by 90%, its use in boilers is projected to expand throughout the course of the projection period. It can thus be utilized in place of natural gas as well as heavy and light fuel oils, increasing the demand for pyrolysis oil.

In addition, it is anticipated that the market for pyrolysis oil would have favorable growth opportunities due to the use of pyrolysis oil in gas turbines and diesel engines to generate heat and power. According to Statista, as of 2021, there had been installed natural gas turbines with a total power capacity of around 1.8 terawatts. This is an increase from the 654 gigawatts that were installed in 2000. The amount of gas used to create electricity worldwide increased to around 6,098 terawatt hours in 2021, exceeding the amount produced in 2000 for the first time ever. The harmful effects of the use of fossil fuels are becoming increasingly understood. A lot of research and development is being done in emerging nations to find substitutes for conventional fossil

fuels. Due to growing environmental concerns and the speedy depletion of fossil fuel resources, the energy sector has been expanding quickly recently, and stakeholders are looking for sustainable and energy-efficient solutions. Demand for the pyrolysis oil market is further increased by the rising need for environmentally friendly fuel. Furthermore, the expansion of the pyrolysis oil market will be further fueled by the rising propensity to use renewable energy sources as well as research and development initiatives to create alternative fuels, which offer lucrative prospects to market players in forthcoming years. However, the complexity in the Pyrolysis Oil's Application, Transportation, and Storing is restricting the market growth over the forecast period of 2022-2029.

The key regions considered for the Global Pyrolysis Oil Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America dominated the market in terms of revenue, owing to the growth of the commercial boiler and industrial diesel engine industries, usage of pyrolysis oil as a fossil fuel substitute, adoption of novel products, and government initiatives. Whereas, Asia Pacific is also expected to grow at the highest growth rate over the forecasting period. Factors such as continuing industrial and urban development are burgeoning the market growth in the forecasting years.

Major market players included in this report are:

Bioenergy AE Cote-Nord
New Hope Energy
Green Fuel Nordic OY
Agilyx ASA
OMV Aktiengesellschaft
Plastic Advanced Recycling Corp.
Quantafuel ASA
Alterra Energy LLC
Ensyn Corporation
Niutech Environment Technology Corporation

Recent Developments in the Market:

In May 2022, Bioenergy AE Cote-Nord and ArcelorMittal Mining Canada signed a contract for a three-year period under which the ArcelorMittal pellet factory will receive 16 million litres of pyrolytic oil annually. A steel and mining firm called ArcelorMittal Mining Canada is one of the top five global producers of iron ore-based goods. In May 2022, New Hope Energy and Total Energies SE signed an agreement to construct an advanced recycling plant in Texas to convert end-of-life plastic waste into a

recycled feedstock that Total Energies will acquire in part and convert into virgin-quality polymers for food-grade packaging.

Global Pyrolysis Oil Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Feedstock, Process, End Use, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Feedstock:

Plastic

Rubber

Biomass

Others

By Process:

Fast pyrolysis

Flash pyrolysis

Slow Pyrolysis

By End Use:

Heat and power

Automotive fuel

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

ROLA

Rest of the World

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2029 (USD Million)
 - 1.2.1. Pyrolysis Oil Market, by Region, 2019-2029 (USD Million)
 - 1.2.2. Pyrolysis Oil Market, by Feedstock, 2019-2029 (USD Million)
 - 1.2.3. Pyrolysis Oil Market, by Process, 2019-2029 (USD Million)
 - 1.2.4. Pyrolysis Oil Market, by End Use, 2019-2029 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL PYROLYSIS OIL MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL PYROLYSIS OIL MARKET DYNAMICS

- 3.1. Pyrolysis Oil Market Impact Analysis (2019-2029)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing Demand for Eco-Friendly Fuel and Raw Material Alternatives.
 - 3.1.1.2. Rising Demand from the Heat and Power Generation Industries
 - 3.1.2. Market Challenges
 - 3.1.2.1. Complexity in the Pyrolysis Oil's Application, Transportation, and Storing.
 - 3.1.3. Market Opportunities
 - 3.1.3.1. A trend towards Renewable Energy Sources and Energy Security.
 - 3.1.3.2. Emergent Biorefinery Applications.

CHAPTER 4. GLOBAL PYROLYSIS OIL MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Futuristic Approach to Porter's 5 Force Model (2019-2029)
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. Industry Experts Prospective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

- 5.1. Assessment of the overall impact of COVID-19 on the industry
- 5.2. Pre COVID-19 and post COVID-19 Market scenario

CHAPTER 6. GLOBAL PYROLYSIS OIL MARKET, BY FEEDSTOCK

- 6.1. Market Snapshot
- 6.2. Global Pyrolysis Oil Market by Feedstock, Performance - Potential Analysis
- 6.3. Global Pyrolysis Oil Market Estimates & Forecasts by Feedstock 2019-2029 (USD Million)
- 6.4. Pyrolysis Oil Market, Sub Segment Analysis
 - 6.4.1. Plastic
 - 6.4.2. Rubber
 - 6.4.3. Biomass
 - 6.4.4. Others

CHAPTER 7. GLOBAL PYROLYSIS OIL MARKET, BY PROCESS

- 7.1. Market Snapshot
- 7.2. Global Pyrolysis Oil Market by Process, Performance - Potential Analysis
- 7.3. Global Pyrolysis Oil Market Estimates & Forecasts by Process 2019-2029 (USD Million)
- 7.4. Pyrolysis Oil Market, Sub Segment Analysis

- 7.4.1. Fast Pyrolysis
- 7.4.2. Flash Pyrolysis
- 7.4.3. Slow Pyrolysis

CHAPTER 8. GLOBAL PYROLYSIS OIL MARKET, BY END USE

- 8.1. Market Snapshot
- 8.2. Global Pyrolysis Oil Market by End Use, Performance - Potential Analysis
- 8.3. Global Pyrolysis Oil Market Estimates & Forecasts by End Use 2019-2029 (USD Million)
- 8.4. Pyrolysis Oil Market, Sub Segment Analysis
 - 8.4.1. Heat and Power
 - 8.4.2. Automotive fuels
 - 8.4.3. Others

CHAPTER 9. GLOBAL PYROLYSIS OIL MARKET, REGIONAL ANALYSIS

- 9.1. Pyrolysis Oil Market, Regional Market Snapshot
- 9.2. North America Pyrolysis Oil Market
 - 9.2.1. U.S. Pyrolysis Oil Market
 - 9.2.1.1. Feedstock breakdown estimates & forecasts, 2019-2029
 - 9.2.1.2. Process breakdown estimates & forecasts, 2019-2029
 - 9.2.1.3. End Use breakdown estimates & forecasts, 2019-2029
 - 9.2.2. Canada Pyrolysis Oil Market
- 9.3. Europe Pyrolysis Oil Market Snapshot
 - 9.3.1. U.K. Pyrolysis Oil Market
 - 9.3.2. Germany Pyrolysis Oil Market
 - 9.3.3. France Pyrolysis Oil Market
 - 9.3.4. Spain Pyrolysis Oil Market
 - 9.3.5. Italy Pyrolysis Oil Market
 - 9.3.6. Rest of Europe Pyrolysis Oil Market
- 9.4. Asia-Pacific Pyrolysis Oil Market Snapshot
 - 9.4.1. China Pyrolysis Oil Market
 - 9.4.2. India Pyrolysis Oil Market
 - 9.4.3. Japan Pyrolysis Oil Market
 - 9.4.4. Australia Pyrolysis Oil Market
 - 9.4.5. South Korea Pyrolysis Oil Market
 - 9.4.6. Rest of Asia Pacific Pyrolysis Oil Market
- 9.5. Latin America Pyrolysis Oil Market Snapshot

- 9.5.1. Brazil Pyrolysis Oil Market
- 9.5.2. Mexico Pyrolysis Oil Market
- 9.5.3. Rest of Latin America Pyrolysis Oil Market
- 9.6. Rest of The World Pyrolysis Oil Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Top Market Strategies
- 10.2. Company Profiles
 - 10.2.1. Bioenergy AE Cote-Nord
 - 10.2.1.1. Key Information
 - 10.2.1.2. Overview
 - 10.2.1.3. Financial (Subject to Data Availability)
 - 10.2.1.4. Product Summary
 - 10.2.1.5. Recent Developments
 - 10.2.2. New Hope Energy
 - 10.2.3. Green Fuel Nordic OY
 - 10.2.4. Agilyx ASA
 - 10.2.5. OMV Aktiengesellschaft
 - 10.2.6. Plastic Advanced Recycling Corp.
 - 10.2.7. Quantafuel ASA
 - 10.2.8. Alterra Energy LLC
 - 10.2.9. Ensyn Corporation
 - 10.2.10. Niutech Environment Technology Corporation

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes
- 11.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Pyrolysis Oil Market, report scope

TABLE 2. Global Pyrolysis Oil Market estimates & forecasts by Region 2019-2029 (USD Million)

TABLE 3. Global Pyrolysis Oil Market estimates & forecasts by Feedstock 2019-2029 (USD Million)

TABLE 4. Global Pyrolysis Oil Market estimates & forecasts by Process 2019-2029 (USD Million)

TABLE 5. Global Pyrolysis Oil Market estimates & forecasts by End Use 2019-2029 (USD Million)

TABLE 6. Global Pyrolysis Oil Market by segment, estimates & forecasts, 2019-2029 (USD Million)

TABLE 7. Global Pyrolysis Oil Market by region, estimates & forecasts, 2019-2029 (USD Million)

TABLE 8. Global Pyrolysis Oil Market by segment, estimates & forecasts, 2019-2029 (USD Million)

TABLE 9. Global Pyrolysis Oil Market by region, estimates & forecasts, 2019-2029 (USD Million)

TABLE 10. Global Pyrolysis Oil Market by segment, estimates & forecasts, 2019-2029 (USD Million)

TABLE 11. Global Pyrolysis Oil Market by region, estimates & forecasts, 2019-2029 (USD Million)

TABLE 12. Global Pyrolysis Oil Market by segment, estimates & forecasts, 2019-2029 (USD Million)

TABLE 13. Global Pyrolysis Oil Market by region, estimates & forecasts, 2019-2029 (USD Million)

TABLE 14. Global Pyrolysis Oil Market by segment, estimates & forecasts, 2019-2029 (USD Million)

TABLE 15. Global Pyrolysis Oil Market by region, estimates & forecasts, 2019-2029 (USD Million)

TABLE 16. U.S. Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 17. U.S. Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 18. U.S. Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 19. Canada Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD

Million)

TABLE 20. Canada Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 21. Canada Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 22. UK Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 23. UK Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 24. UK Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 25. Germany Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 26. Germany Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 27. Germany Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 28. France Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 29. France Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 30. France Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 31. Italy Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 32. Italy Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 33. Italy Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 34. Spain Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 35. Spain Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 36. Spain Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 37. RoE Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 38. RoE Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 39. RoE Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 40. China Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 41. China Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 42. China Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 43. India Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 44. India Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 45. India Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 46. Japan Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 47. Japan Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 48. Japan Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 49. South Korea Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 50. South Korea Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 51. South Korea Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 52. Australia Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 53. Australia Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 54. Australia Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 55. RoAPAC Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 56. RoAPAC Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 57. RoAPAC Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 58. Brazil Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 59. Brazil Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 60. Brazil Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 61. Mexico Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 62. Mexico Pyrolysis Oil Market estimates & forecasts by segment 2019-2029 (USD Million)

TABLE 63. Mexico Pyrolysis Oil Market estimates & forecasts by segment 2019-2029

(USD Million)

TABLE 64. RoLA Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 65. RoLA Pyrolysis Oil Market estimates & forecasts by segment 2019-2029
(USD Million)

TABLE 66. RoLA Pyrolysis Oil Market estimates & forecasts by segment 2019-2029
(USD Million)

TABLE 67. Row Pyrolysis Oil Market estimates & forecasts, 2019-2029 (USD Million)

TABLE 68. Row Pyrolysis Oil Market estimates & forecasts by segment 2019-2029
(USD Million)

TABLE 69. Row Pyrolysis Oil Market estimates & forecasts by segment 2019-2029
(USD Million)

TABLE 70. List of secondary sources, used in the study of global Pyrolysis Oil Market

TABLE 71. List of primary sources, used in the study of global Pyrolysis Oil Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final
deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Pyrolysis Oil Market, research methodology
 - FIG 2. Global Pyrolysis Oil Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Pyrolysis Oil Market, key trends 2021
 - FIG 5. Global Pyrolysis Oil Market, growth prospects 2022-2029
 - FIG 6. Global Pyrolysis Oil Market, porters 5 force model
 - FIG 7. Global Pyrolysis Oil Market, pest analysis
 - FIG 8. Global Pyrolysis Oil Market, value chain analysis
 - FIG 9. Global Pyrolysis Oil Market by segment, 2019 & 2029 (USD Million)
 - FIG 10. Global Pyrolysis Oil Market by segment, 2019 & 2029 (USD Million)
 - FIG 11. Global Pyrolysis Oil Market by segment, 2019 & 2029 (USD Million)
 - FIG 12. Global Pyrolysis Oil Market by segment, 2019 & 2029 (USD Million)
 - FIG 13. Global Pyrolysis Oil Market by segment, 2019 & 2029 (USD Million)
 - FIG 14. Global Pyrolysis Oil Market, regional snapshot 2019 & 2029
 - FIG 15. North America Pyrolysis Oil Market 2019 & 2029 (USD Million)
 - FIG 16. Europe Pyrolysis Oil Market 2019 & 2029 (USD Million)
 - FIG 17. Asia Pacific Pyrolysis Oil Market 2019 & 2029 (USD Million)
 - FIG 18. Latin America Pyrolysis Oil Market 2019 & 2029 (USD Million)
 - FIG 19. Global Pyrolysis Oil Market, company Market share analysis (2021)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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