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Global Biorefinery Market 2019 by Manufacturers, Regions, Type and Application, Forecast to 2024

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Abstracts

Biorefinery is the sustainable processing of biomass into a spectrum of marketable products and energy. In this process, agriculture waste, Plant-based starch and lignocellulosic materials are used to produce all kinds of chemicals, fuel and bio-based materials. Biorefinery can be a facility, a process, a plant, or even a cluster of facilities. A main driver for the establishment of biorefineries is the sustainability aspect. All biorefineries should be assessed for the entire value chain on their environmental, economic, and social sustainability covering the whole life cycle (construction—operation—dismantling). This assessment should also take into account the possible consequences due to the competition for food and biomass resources, the impact on water use and quality, changes in land-use, soil carbon stock balance and fertility, net balance of GHGs, impact on biodiversity, potential toxicological risks, and energy efficiency.

SCOPE OF THE REPORT:

Successful market implementation of integrated biorefineries requires reliable processing units combined with environmentally acceptable and economically profitable production chains. Development and implementation of the biorefinery concept should include crop cultivation and the selection of crops that maximize full chain performance. Further biorefinery improvement is expected to generate more feedstocks, technologies, and coproducts, inevitably offering all kinds of economic opportunities. Research and development will speed up agricultural and rural development, increase industrial development, and open existing and newly created markets. It can be foreseen, however, that biorefinery technologies will develop gradually over time, because the more fractions are obtained the more markets should be served. All these markets dictate that raw materials and intermediates are available at a rather constant supply

and therefore prices. The built up of this raw material supply will take time. Biorefineries can provide a significant contribution to sustainable development, generating added value to sustainable biomass use and producing a range of biobased products (food, feed, materials, chemicals, fuels, power, and/or heat) at the same time. This requires optimal biomass conversion efficiency, thus minimizing feedstock requirements while at the same time strengthening economic viability of (e.g., agriculture, forestry, chemical and energy) market sectors. As biomass availability is limited, it should be used efficiently, effectively producing materials and energy in multi-purpose biorefineries. The perceived conflict between energy and food production can be allayed by developing technologies based on lignocellulosic materials but it was discussed before that this currently results in a much higher BCI. Biorefining requires further innovation but offers opportunities to all economic sectors. Building a biobased economy can help to overcome present difficulties while laying the foundation of an environmentally benign industry.
One of the key prerequisites of a successful biorefinery is to invite key stakeholders from separate backgrounds (agriculture/forestry, transportation fuels, chemicals, energy, etc.) to discuss common processing topics, foster necessary R&D trajectories and stimulate deployment of developed technologies in multi-disciplinary partnerships. Optimal economic and environmental performance can be further guaranteed by linking the most promising biobased products, that is, food, feed, (fiber-based) added-value materials and (functionalized and platform) chemicals with bioenergy production.

The worldwide market for Biorefinery is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US$ in 2024, from xx million US$ in 2019, according to a new GIR (Global Info Research) study.

This report focuses on the Biorefinery in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Market Segment by Manufacturers, this report covers

Abengoa Bioenergy Corp

Pacific Ethanol

Neste Oil OYJ

Renewable Energy Group Inc

UOP LLC

Valero Energy Corp

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Biochemical

Thermochemical

Market Segment by Applications, can be divided into

Bulk chemicals

Biomaterial

Biofuel

Pharmaceuticals and food additives

The content of the study subjects, includes a total of 15 chapters:

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Chapter 1, to describe Biorefinery product scope, market overview, market opportunities, market driving force and market risks.

Chapter 2, to profile the top manufacturers of Biorefinery, with price, sales, revenue and global market share of Biorefinery in 2017 and 2018.

Chapter 3, the Biorefinery competitive situation, sales, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biorefinery breakdown data are shown at the regional level, to show the sales, revenue and growth by regions, from 2014 to 2019.

Chapter 5, 6, 7, 8 and 9, to break the sales data at the country level, with sales, revenue and market share for key countries in the world, from 2014 to 2019.

Chapter 10 and 11, to segment the sales by type and application, with sales market share and growth rate by type, application, from 2014 to 2019.

Chapter 12, Biorefinery market forecast, by regions, type and application, with sales and revenue, from 2019 to 2024.

Chapter 13, 14 and 15, to describe Biorefinery sales channel, distributors, customers, research findings and conclusion, appendix and data source.

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