Global Biomass Power Market Research Report: Information, by Feedstock (Woody biomass, Agriculture residues, Biogas & Energy Crops, and Others), by Application (Residential and Commercial & Industrial), and by Region (North America, Europe, Asia-Pacific, the Middle East & Africa, and South America)—Forecast till 2025

Market Scenario

Biomass power is a renewable source of energy which is derived from plants and animals. Biomass is helpful in the process of photosynthesis, wood and wood processing wastes, agricultural crops and waste materials, food, yard, and wood waste collection so as to use it as a fuel. Biomass provides much needed relief from power shortages, and due to this the biomass power projects could generate employment in rural areas.

The biomass power market size is projected to reach USD 55.84 billion by 2025 from an estimated USD 36.77 billion, with a CAGR of 6.22% from 2019 to 2025. One of the factors driving the growth of the global biomass power market include rising need to control the emission of greenhouse gases (GHG). According to PBL Netherlands Environmental Assessment Agency 2017 Report, greenhouse gas emissions have continued to grow somewhat faster than CO2 emissions, namely by 1.5% (2014), 1.2% (2015) and 1.0% (2016).

Additionally, the global biomass power market is projected to grow at a high rate during the forecast period due to the favorable Government Policies. According to the Ministry of New and Renewable Energy Report published by Government of India, Indian Renewable Energy Development Agency (IREDA) provides loan for setting up biomass power plants and other biogas cogeneration projects. This would drive the biomass power market as this would increase the investment opportunities for new projects.

Rising demand for an environment-friendly renewable source of energy would act as an opportunity for Biomass Power market. This is because the use of renewable energy would help to reduce global warming, and improve public health. However, improper management of biomass and Lack of awareness among emerging economies would hinder the market growth.

Key players in the Biomass Power market such as Babcock & Wilcox Enterprises Inc. (US), Dalkia (France), and EnviTec Biogas AG (Germany) are actively focusing on signing contracts and agreements with utilities and industries to supply Biomass Powers. Moreover, in 2017, EnviTec Biogas AG signed a cooperation agreement with PT Herfinta Farm & Plantation and Calfield SDN BHD for the construction of biogas plant in Indonesia. This agreement has helped to reduce the volume of artificial fertilizers used in the plantations and increases the opportunities for biomass power market to grow in the Indonesian palm oil industry.

The global biomass power market has been segmented based on feedstock, application, and region. On the basis of feedstock, the global market has been segregated into woody biomass, agriculture residues, biogas & energy crops, others. The woody biomass segment is anticipated to dominate the global market. This is of rapid industrialization, emerging economies, and the rising demand for energy. For instance, waste wood is often considered a potential source of power in the UK and Germany.

On the basis of application, the global biomass power market is divided into residential and commercial & industrial. The industrial segment is expected to lead the biomass power market. This is because of the cost-effective nature of biomass power generation.

The global biomass power market is expected to grow at ~6.22% CAGR during the forecast period.
Market Segmentation

The global biomass power market is expected to witness substantial growth during the forecast period due to the availability of feedstock. According to International Energy Agency (IEA) Bioenergy Annual Report 2017, pure CO2 or CO2-containing gas is used as a feedstock to produce fuels, chemicals, and materials. This would help to grow the biomass power market as the use of these wastes does not contribute to pesticide and fertilizer pollution, soil erosion, or water use.

On the basis of region, the global biomass power market is segmented into Asia-Pacific, North America, Europe, the Middle East & Africa, and South America. North America is estimated to lead the global market. This is due to the favorable government regulations for biomass power, new investments, and proper infrastructure in the region. Europe is predicted to show considerable growth during the forecast period due to the increasing government support for biomass power generation. Germany and the UK are expected to see substantial industrial development for biomass power generation due to factors such as funding programs, investment subsidies, incentives and tax benefits. Asia-Pacific is estimated to showcase significant growth owing to the abundant availability of natural resources in the region. Emerging economies such as India and Indonesia are promising sizeable growth due to proposed government legislations to increase investments in the biomass power sector.

Key Players

The key players operating in the global Biomass Power market are Babcock & Wilcox Enterprises Inc. (US), Dalkia (France), EnviTec Biogas AG (Germany), Weltec Biopower GMBH (Germany), Ameresco (US), Drax Group PLC (UK), Enviva LP (US), Ørsted A/S (Denmark), Sodra (Sweden), and MVV Energie AG (Germany), Helius Energy PLC (US), Alstom SA (France), and Vattenfall AB (Sweden).

Intended Audience

- Biomass power manufacturers
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