The Global Biomass Market Outlook 2017

Description: The report gathers data on biomass and waste power generation across the top ten countries leading the market for biomass. The report covers the key players, key feedstock available, and the prominent biomass power technology installed in each of the 10 countries - the US, Germany, Brazil, the UK, Sweden, Finland, Italy, China, India, and Australia.

This report examines the emerging factors driving the growth of the biomass power market, as the use of biomass for electricity generation slowly becomes widespread globally, led by government support. This study found approximately 1.4bn people globally lack access to electricity. From the point of view of electricity supply, the pressures of a rapidly increasing population, rising concern of global warming, and the need to achieve national energy security is driving an unprecedented interest in exploring renewable power resources including wind, solar, hydroelectric, geothermal, marine power as well as biomass for achieving a low carbon electricity mix by both the governments and electricity utilities.

The report highlights how parts of North America, Europe, and Asia Pacific are using biomass feedstock, in a bid to increase the total electricity supply. Similar to any renewable resource, the demand for biomass for electricity generation is driven by government legislation and regulations, encouraging the growth of biomass feedstock for electricity generation. Further, the report examines how biomass feedstock suppliers and utilities in the biomass market are learning to combat rising transportation costs associated with gathering feedstocks and transporting the feedstock to the electricity generation sites, through development of cost effective biomass power technologies.

Globally the term bioenergy is used to describe biomass, biogas, and biofuels. Bioenergy is used to generate electricity, produce heat, and power vehicles. This report focuses on the emerging trends in the biomass market for electricity generation only. The term biomass can refer to any material derived from recently living organisms, which includes plants, animals and their byproducts. Based on the findings, the report considers renewable energy to include all renewable energy sources other than traditional biomass. The term traditional biomass refers to the level of biomass consumption in the residential sector in developing countries and refers to the use of wood, charcoal, agricultural residues, and animal dung for cooking and heating.

Key features of this report:

- Identification of the ten most promising countries in the biomass power market and highlights how various geographic markets are expanding their share in the total electricity supply mix using biomass feedstock for electricity generation.
- Five-year assessment of the latest biomass and waste power generation and installed biomass capacity.
- Electricity market trends and legislation are being influenced by availability of biomass feedstock.
- List of major key players of biomass renewable energy.
- Information on government policy framework in renewables energy and biomass power for supporting the biomass market.
- Identification of biomass energy development and potential resource globally and in major countries in the future.
- Analysis across countries with abundant feedstock availability including India, Germany, and the UK – biomass feedstock production is led by fertilizer price pressures, in addition to competition for available land and water resources.

Key benefits from reading this report:

- Realize up to date competitive intelligence through a comprehensive assessment of the biomass and waste power generation and installed biomass capacity in biomass power markets.
- Achieve a comprehensive understanding of the drivers and resistors effecting the biomass power market.
- Analyze the cost of biomass power technology against that of other renewable power technologies.
- Understand government policy framework on biomass power for each country and learn which technology trends are likely to allow greater market impact.
- Identify the growth of biomass development and biomass resource potential in the future and examine how it is changing the economics the power generation technologies.
- Assess global future outlook in electricity generation, energy demand by fuel and scenario and the average investment in renewables based electricity generation by technology in the New Policies Scenario from World Energy Outlook series.

Key findings of this report:

- Given the consistently growing electricity demand, global installed electricity generation capacity has increased at a CAGR of 4.0% between 2011 and 2015.
- China managed to add 199GW of renewable power capacity, more than any other country globally in 2015, to reach 785GW of total renewable.
- The biomass and waste power generation in the US recorded a CAGR of 3.2% between 2011 and 2015.
- In 2014, the EU generated 11.9% of its electricity using co-generation.
- Globally the biomass power market could record investments of $639bn by 2035, driven by growing electricity demand.

Key questions answered by this report:

- What was the market size of the global biomass power market?
- What will be the forecast of installed biomass capacity?
- What are the drivers shaping and influencing additions to installed capacity in the global biomass power market?
- What are the major key players of biomass renewable energy?
- What is the impact of political developments on a country’s biomass power market?
- What is the regulatory policy framework governing in the leading biomass power markets of the US, Germany, Brazil, the UK, and Sweden?
- What is the future growth potential offered by promising biomass power markets such as Finland, Italy, China, India, and Australia?

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