The Global Market for Thin Films in Energy Applications

Description: Global demand for traditional fossil fuels has risen at an unprecedented rate over the last several decades. The economics of supply and demand have driven prices of oil, gas and coal to record levels, although the oil market is currently undergoing a period of oversupply. In addition, fossil fuels are considered a source of pollution that enables climate change. Nations have responded by instituting reductions in activities that require the use of fossil fuels and by searching for alternative energy methods.

The thin films market has thus evolved over the past few years alongside developments in the electronics and semiconductor industries. Photovoltaics (PV) is the major technology that has historically made the most use of thin films, and today dominates the market, accounting for more than 85% of the market share. The thin film batteries market, though smaller in size, is expected to witness robust growth during the forecast period.

Our goal is to examine traditional and alternative energy technologies to determine the use, if any, of thin films in their fabrication and operation. Thin films are often applied to reduce the cost of product fabrication, improve performance and provide more flexibility in product design. In addition, they are environmentally benign. The geographical regions covered under the scope of the report include North America, Europe, Asia-Pacific and the rest of the world (RoW). The study covers major countries such as the U.S., Mexico, Canada, France, Italy, U.K., China, India, Australia, Singapore, South America, the Middle East, Africa, Japan and Germany, among others. The present market size and market forecast through 2020 are provided in the report.

This report provides:
- An overview of the global markets for thin films in energy applications and related technologies.
- Coverage of these films in applications including fuel cells, photovoltaics, solar thermal technologies, geothermal energy, wind energy, nuclear energy, and others.
- A comparative analysis of the advantages and disadvantages to using thin films.
- Evaluation of the market's dynamics, specifically growth drivers, inhibitors, and opportunities.
- Profiles of major players in the industry.

Highlights
- The global market for thin films in energy applications is forecast to increase from nearly $14.6 billion in 2014 to nearly $19.7 billion in 2015. This market is estimated to reach nearly $84.2 billion in 2020 increasing at a compound annual growth rate (CAGR) of 33.7% during the next five years, from 2015-2020.
- Thin films in photovoltaics as a segment is projected to grow from nearly $16.7 billion in 2015 to $71.1 billion in 2020 at a CAGR of 33.6% from 2015-2020.
- Thin film used in batteries as a segment is projected to grow from $2.2 billion in 2015 to nearly $9.8 billion in 2020 at a CAGR of 34.2% from 2015-2020.

Intended Audience
- Manufacturers
- End-user companies
- Foundries
- Researchers
- Raw material providers
- Players involved in testing phase
- Investors (private equity, venture capital, etc.)

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