DSC Solar Technologies: Global Markets

Description:

This report provides:

- An overview of DSC solar technologies and their related global markets.
- Advances in solar cell design, their incorporation on flexible substrates, the development of solid state modules, their enhanced stability in outdoor environments, and their scalable fabrication tools and techniques.
- Coverage of fabrication processes and design configurations of dye-solar modules including series connections, parallel connections, ball grid DSC, and combined series and parallel connected DSMs.
- A look at DSC modules, including transparency, light weight, flexibility, conformability, workability under low-light conditions, and easy integration in buildings as solar windows.
- Profiles of major players in the industry.

Scope Of Report

The scope of this study encompasses the major DSC markets, according to region, through to 2014, with forecasts from 2015 to 2020.

This BCC Research analysis also compares DSCs against other commercialized solar technologies, such as monocrystalline silicon, polycrystalline silicon and thin-films (e.g., amorphous silicon, cadmium telluride, copper indium diselenide). Further, the report analyzes each technology - but will focus on DSCs and examine its current and potential efficiency - assess the current market status of each, examine their future market impact and give PV production and sales volumes for 2014, as well as projections during the period from 2015 to 2020.

Various technical issues are discussed and a thorough economic analysis of each technology and its impact on future growth is presented. We also examined the main areas where DSC applications show strong potential in the short and medium term, and conducted a comparison with other major PV technologies in the market: BIPV, PV production plants and integration into low-power consumer electronics.

In this report, we analyze the PV industry on a global basis, including manufacturing capacity and consumption by various regional markets. We also examine the research efforts of research centers and companies over PV technologies, in particular DSCs.

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