

Analyzing Solar Power Technologies

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Abstracts

The solar PV market has been booming over the last years and is forecasted to confirm this trend in the coming years.

The harnessing of solar energy is not new in fact, development of solar energy dates back more than 100 years, to the middle of the industrial revolution. Solar energy is pollution-free, an important benefit when the cost of removing pollutants from the environment is considered. For example, a typical SWH system will, over its lifetime, displace 10.5 tons of CO₂ if replacing a natural gas system, or 71.5 tons if replacing an electric system.

Aruvian's R'search analyzes all the emerging technologies in its research report – Analyzing Solar Power Technologies. This vast report starts with the basics of photovoltaics and solar energy, the various uses of solar power, and then moves on to analyze the Photovoltaic Market around the world.

The report looks at the following solar power technologies:

Nanotechnology and Photovoltaics

Thin Film Solar Cells

Hybrid Solar Cells

Organic Photovoltaics

Quantum Dot Solar Cells

Plastic Solar Cells

Tandem Solar Cells

Plasmonic Solar Cells

Photoelectrochemical Solar Cells

String Ribbon Solar Cells

Polymer Solar Cells

Miniature Solar Cells

Aruvian's Rsearch's report on Solar Power Technologies initiates with a strong theoretical understanding of each of the solar cell technology system and their subsequent propagation into photovoltaic systems including their applications.

Aruvian's Rsearch's report also devotes an entire in-depth section to each of the technical aspects of each of the technologies listed above, including their history as well as mechanism, general operation principles and architecture designs that have opened up new markets for solar power systems. These are further explained in the efficient design choices of various configurations and new ideas contributed in this field.

The report covers 126 major players in the industry, and also undertakes a PEST Framework Analysis of the Global Solar PV Industry. Technologies associated with solar power, implementation and applications of PV Systems, an analysis of the PV Industry Value Chain, and a lot more statistical and theoretical data is included in this report.

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