Types of photovoltaic cells

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Photovoltaic cells convert sunlight into electricity, with various types offering unique characteristics and applications123.

Photovoltaic cells are crucial for solar energy harnessing, with applications ranging from residential to utility-scale power plants. The choice of cell type depends on efficiency, cost, and specific application needs123.

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A solar cell (also called photovoltaic cell or photoelectric cell) is a solid state electrical device that converts the energy of light directly into electricity by the photovoltaic effect, which is a physical and chemical phenomenon. It is a form of photoelectric cell, defined as a device whose electrical characteristics, such as current, voltage or resistance, vary when exposed to light.

Printed solar cells are a promising technology, but their efficiency varies. While some printed solar cells have achieved decent efficiency levels, they are generally not as efficient as traditional silicon-based solar cells. As for the area requirement, printed solar cells can be designed to be flexible and can potentially cover large surfaces, but the specific minimum area required would depend on the design and efficiency of the cells.

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