

In April, 1954, researchers at Bell Laboratories demonstrated the first practical silicon solar cell. Calvin S. Fuller at work diffusing boron into silicon to create the world's first solar cell. The story of solar cells goes back to an early ...

OverviewTheory and constructionHistoryEfficiencyPerformance and degradationMaintenanceWaste and recyclingProductionPhotovoltaic modules consist of a large number of solar cells and use light energy (photons) from the Sun to generate electricity through the photovoltaic effect. Most modules use wafer-based crystalline silicon cells or thin-film cells. The structural (load carrying) member of a module can be either the top layer or the back layer. Cells must be protected from mechanical damage and moistur...

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