

# Inventions & Innovation Emerging Technology

## High-Intensity Silicon Vertical Multi-Junction Solar Cells

This new solar cell combines high voltage with low series resistance operation to create highly efficient, concentrated solar power conversion at low cost. Output power densities exceeding 1000 times that of conventional solar cells have been demonstrated. The immediate application is for bulk electric power generation for large-scale (>100-kW) central power stations in sunny, semi-arid regions of the world. The simple design of the new cell results in lower manufacturing costs and robust reliability compared with existing concentrator cells.



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