Graphene Based Solar Panel

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The Graphene-based solar panel indicated, after 4 tests in dissimilar solar radiation conditions, that the GBSP is capable of increasing the power output of a solar panel by a factor of approximately 2. Firstly, the CVD(1) monolayer Graphene underwent a process of substrate removal followed by the transfer of the Graphene sheet on the negative surface (top) of the cells. Secondly, the cells were connected in a series of positive and negative terminals to generate an electric current and later encapsulated using laminated glass. This project involved the use of two identical self-built solar panels, the GBSP and the control solar panel. The two solar panels served as a method of comparison between the effectiveness of Graphene on the cells in various conditions. The GBSP has proven to be a magnificent superconductive solar panel with the potential of doubling the total voltage of the entire PV panel. Graphene will eventually pave the way for future reformation of solar panels and a new approach to boost the efficiency.

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