Analysis of the performance of mc-Si and CdTe modules under soiling conditions

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In this work, we study the soiling impact on the PV performance of two technologies installed in the south of Spain and discuss the role of solar spectrum on their response. The studied technologies were multicrystalline silicon (mc-Si) and cadmium telluride (CdTe) PV modules. The solar spectra representative for clean sky, clean glass cover and soiled glass as well as the spectral response of the PV modules were considered for the calculation of the photogenerated current density and current voltage characteristics. In such a way, the impact of soiling for each technology was studied and the experimental results explained.