

PV MODULE PERFORMANCE AFTER 30 YEARS WITHOUT WASHING

ABSTRACT

The performance of a Solarex 40 watt mono crystalline PV module is examined after 30 years in use without washing. After washing the module efficiency improved from 8.04% to 10.06%. Efficiency calculations were carried out at the National Renewable Energy Laboratory. Comparisons of the module short circuit current shows a 22% decrease from the original readings made in 1983 to the measurements before the module was washed and 4% decrease if the comparison was made after the modules were washed. Details of the analysis will be given in the article.