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Title: San jose solar power generation degradation board

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Why is degradation of a PV module important?

Financially, degradation of a PV module or system is equally important, because a higher degradation rate translates directly into less power produced and, therefore, reduces future cash flows. Furthermore, inaccuracies in determined degradation rates lead directly to increased financial risk .

How many measurements are taken to measure solar degradation rates?

This trend is readily explainable by the more widespread availability of solar simulators. Figure 7 indicates the number of measurements that were taken to measure degradation rates. It is noteworthy that a high percentage of references take only one or two measurements to report degradation rates.

How much does a solar system degrade over time?

Individual module efficiencies varied widely, with some improving by more than 10% while others degraded by more than 10% over a 5.5-year test period. However, the overall system degraded by approximately 0.6%/year. Ross et al. found a similar degradation rate for a system located in the hot and dry climate of Tucson, AZ, USA, over 3 years .

What is the degradation rate of a SI system?

Apicella et al. reported a degradation rate of approximately 1%/year for a single junction a-Si system in Italy . A much higher rate was found for a microcrystalline Si system, possibly reflecting the maturity of the technology.

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Degradation rates must be known in order to predict power delivery. This article reviews degradation rates of flat-plate terrestrial modules and throughout the last 40 years.

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