

# Why does the photovoltaic panel back sheet crack

What happens if a solar panel backsheet fails?

The main cause for solar panel degradation due to back-sheet failure is the delamination of the backsheet or the formation of cracks in the material. When the backsheet fails, the inner components of solar panels are exposed to external agents, and the lifespan of PV modules is reduced.

Why do solar panel backsheets crack?

Cracks often form on solar panel backsheets in straight lines, along the gaps between solar cells. To get to the root of polyamide's degradation problem, Gu and her team acquired backsheet samples from solar panels deployed in regions around the globe, including sites in the U.S., China, Thailand and Italy.

What happens if a solar panel back sheet cracks & delamination?

An example of solar panel back sheet cracking and delamination. In addition to the well-known PID and LID effects, panels can also suffer from more serious issues due to the breakdown of the encapsulant and protective layers that are supposed to protect the cells from the elements. The most common of these is back-sheet failure.

Does backsheet cracking affect PV capacity?

In Germany alone, experts have estimated that as much as 10 GW of deployed PV capacity could be affected by backsheet cracking. And other regions face a similar challenge, with the problem not confined to any particular deployment conditions or even a single backsheet material.

Can a new PV solution fix backsheet cracking?

In this pv magazine Webinar, we examine the size of the problem and take a look at a new solution from Dow that promises a speedy repair for damaged backsheets. In Germany alone, experts have estimated that as much as 10 GW of deployed PV capacity could be affected by backsheet cracking.

What are the problems with PV backsheet?

PV backsheet can suffer from several stressors in specific ambient; (c) Two main types of defects on backsheet observed in the field, including blistering (left) and cracking (right). The circles in the images indicate cracks and bubbles respectively.

However, often due to substandard material selection and poor quality control, UV radiation can cause either the encapsulant or rear protective back-sheet to break down, crack or degrade over time. This degradation can then lead to more ...



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