PV module backsheet issues might result in loss of performance and safety

- Backsheet (BS) related abnormalities like chalking, delamination, or cracking can foster water ingress and corrosion, risking a loss of power output and safety.
- It is necessary to distinguish between possible harmless chalking or discoloration and severe mechanical BS degradation.

ZSW’s backsheet performance analysis is based on a stepwise procedure

- On-site visual inspection of modules’ BS (chalking, cracking, browning, corrosion, delamination).
- On-site non-destructive ATR-FITR spectroscopic inspection to identify higher risk BS polymers like polyamide.
- Measurement of mechanical properties like elongation to break to quantify degree of BS embrittlement (lab).
- Measurement of peel strength to quantify remaining BS adhesion (lab).

BS performance and risk evaluation

- Provides sound technical arguments for a successful warranty claim.
- Allows qualification of proposed BS repair solutions.

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