

Kongres Container

Sophia solar Panel Industry



Overview

How can Sophia improve the health of solar panels?

One of SOPHIA's great contributions is the creation of a prototype that allows analyzing the state of health (SoH) of solar panels. Thanks to this system, it's possible to evaluate efficiency, detect dark areas or structural damage, and decide whether the panel should be repaired or recycled.

What is a commercial solar project?

Note on market segmentation: Commercial solar encompasses distributed solar projects with commercial, industrial, agricultural, school, government, or nonprofit offtakers, including remotely net-metered projects. This excludes community solar (covered in the following section).

Can solar panels be repaired?

According to Aimplas, solar panels with remaining efficiency greater than 80 percent will be repaired using robot-assisted equipment and high-performance dielectric varnish. The nonreparable ones will be recycled using technologies to maximize the separation of their main components, which include glass, silicon, metals and plastics.

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