

# What to do if condensation condenses on the surface of photovoltaic panels

How do you clean a PV panel?

During the nighttime, a strong dew formation occurred, and this dew dissipated during the daytime leaving soiling patterns cemented on the glass surface. Cleaning PV panels manually through a hose or depending on a heavy downpour is time-consuming and will not necessarily work in large applications.

What should be done in the field of PV cooling?

The following are some recommended future works in the field of PV cooling: More evaluations and optimizations of effective cooling on large-scale grid-connected systems are required. Silicon is the best semiconductor material used in the manufacture of photovoltaic cells.

How to cool PV solar cells?

As we mentioned before, using the passive method in cooling the PV solar cells gives slight improvement results, so we resorted to using phase change materials (PCMs) to cool the PV cells. In the next section, we will review the most important researches that dealt with this topic.

Can PDMS/SiO<sub>2</sub> nanocoating reduce accumulated dust on PV panels?

Therefore, a prepared PDMS/SiO<sub>2</sub> nanocoating was used to reduce the accumulated dust on the PV panels' surface. However, the effectiveness of these coatings is greatly influenced by geographical and climatic factors. Three identical PV modules were installed to run comparable experimental tests simultaneously.

Why is coating a PV panel better than unclean?

While on the other hand, coating of a PV panel decreases the required cleaning frequency of PV panels and increases the efficiency of the system. PV module that was continuously cleaned for over a month experienced a 9.22% power gain compared to the unclean PV module.

Can nano-coated PV panels reduce power consumption?

Moreover, it was reported that PV panels that are left unclean over 6 months can experience a power reduction by up to 50%. The nano-coated PV module with a motorized curtain could be a great alternative for regions with a limited water supply.

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