



# Photovoltaic panels are not afraid of getting dirty

Are clean solar panels better than dirty solar panels?

Though 6.3% might not seem like a lot, it's a loss that can add up over time. This makes a noticeable difference between clean vs dirty solar panels in the overall efficiency of your solar power system. Therefore, the experiment really proves the importance of regularly cleaning your solar panels.

What happens if solar panels get dirty?

Solar panels can lose up to 30% of their efficiency when they are dirty. If a solar panel is covered in dirt, dust, or bird droppings, it won't be able to produce as much power as it normally would. When solar panels get dirty, they don't generate as much electricity.

Are solar panels causing a surge in photovoltaic panel waste?

The coming surge in photovoltaic panel waste is tiny compared to other categories, and most health concerns about solar equipment are unfounded. The Amazon Fort Powhatan Solar Farm in Disputanta, Virginia on August 19, 2022. Credit: Drew Angerer/Getty Images

Are solar panels a problem?

The vast quantity of waste from all of those sources is a concern and we need to find ways to reduce waste, but solar panels are not a major issue in that larger conversation. Solar panels do not contain harmful levels of the toxic materials that often get discussed at public hearings about development.

Does dust deteriorate the productivity of solar PV panels?

The productivity of solar PV panels deteriorates by the deposition of dust on front surfaces (Al-chaderchi et al., 2017).

How much performance loss does a dirty solar panel have?

This data indicates a performance loss of approximately 6.3% for the dirty panel - a more reliable figure than the initial 14%. Cleaning your solar panels keeps them working optimally. Though 6.3% might not seem like a lot, it's a loss that can add up over time.

As solar panel owners, we often come across claims suggesting that dirty solar panels can be 20% less efficient than their clean counterparts. But how much truth is there to this statement? I decided to test clean vs dirty solar ...



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