

Eco-friendly Nanocoating for Solar Panels for Enhanced Output

TriNANO Technologies Pvt. Ltd

An Indian start-up **TriNANO Technologies Pvt. Ltd.** has developed a nanocoating technology for solar panels to enhance the power output and reduce the maintenance cost of the panels, attributable to its 3-in-1 properties of light trapping, anti-reflection, and self-cleaning.

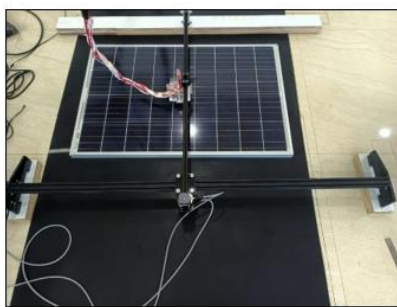
“*Testing at the National Centre for Photovoltaic Research and Education (NCPRE), IIT Bombay and National Institute of Solar Energy (NISE) demonstrated a 7%-8% gain in the power output from commercial solar panels when coated with the TriNANO nano-coating.*”

By boosting solar panel's energy output, this indigenous nano-coating technology can be a game-changer in accelerating solar PV technology's contribution to India's climate change and Net Zero targets.

- The nanocoating is an **inorganic material, eco-friendly, durable**, and can be applied to the panels using a waste-free technique, making it a sustainable product for clean solar energy.
- TriNANO nano coating helps **reduce solar panel reflection** losses and traps light within the panel PV module collection services.
- Maximizes panel's **light-harvesting** properties.
- Unique **self-cleaning** feature reduces the cleaning cost for solar panels.
- The coating also keeps the **solar panels cooler** compared to the other non-coated panels, improving the overall power output of the panels.
- Suitable for mono, poly, and thin-film PV panels in both ground-mounted and rooftop projects.



Nano-coating Process



Coated v Non-coated Panels

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