

TriNANO Technologies

Redefine Solar Energy &
Turn Sunlight into Big Profit!

Recognized by
MNRE as Innovation



नवीन एवं
नवीकरणीय ऊर्जा मंत्रालय
MINISTRY OF
NEW AND
RENEWABLE ENERGY

<https://mnre.gov.in/en/innovations/>



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TriNANO Technologies

Increase Energy Output
Reduce Maintenance Cost
Reduce Panel Degradation



Solar panels, like any energy conversion device, experience losses that reduce their efficiency.



Reflection loss



Soiling loss



Thermal loss

TriNANO's Innovative Nanocoating

Increase Solar Power Like Never Before!

Antireflection

Higher Energy Output
Increase Revenue



Cooling Effect

Reflect Thermal Loss
Reduce Panel Degradation

Light Trapping

Traps Incoming Sunlight
Improve Panel Efficiency

Self-Cleaning

Reduce Soiling
Reduce Cleaning Cost



No matter the brand, make, type, age, or location, our Nanocoating improves the performance of any solar panel by boosting energy output by 4-6%, prolonging panel life by 2-3 years, & lowering cleaning requirements by 40%. This is applicable to both greenfield (New) and brownfield (Existing) projects.

We make climate & social impact by reducing water consumption for cleaning by 40%, cutting carbon emissions by 5.2%, increasing land availability by 4.7%, & increasing performance ratio and productivity of both new and old solar panels.

Pilots Across India



Customer Testimonial

6% Higher Energy Gain!



Higher Energy

- 5% Energy Gain
- ₹28 Lakh/Year Additional Revenue (@ ₹4/Unit)

01

Less Water Usage

- 40% Reduction
- ₹8.25 Lakh/Year Savings (@ ₹27.54/m³ Rate)

02

Reduced Labor Cost

- 25% Less Labor
- ₹5 Lakh/Year Savings

03

Increased Plant Life

- 2 Years Additional Life due to Less Degradation
- Additional Revenue

04

More Carbon Credit

- Less Carbon Emission
- ₹3.9 Lakh/Year Additional Revenue (@ ₹500/CC unit)

05

Land Saving

- 4.75% Less Space or 950 Less Panels (540 W)

06

Customer Benefits
(10 MW Plant)

Our Unique Value Proposition

- ✓ Antireflection & Light Trapping
- ✓ Self-Cleaning Ability
- ✓ Lower Temperature & Reduced Panel Degradation
- ✓ Immediate Increase in Power Generation
- ✓ No Prerequisite or Surface Treatment
- ✓ 10 Years of Coating Life
- ✓ Organic-free & Ecofriendly
- ✓ Applicable for New & Old Panels