



AAKASH URJA SOLAR SERVICES (A UNIT OF AAKASH URJA PVT. LTD.)

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A Complete Smart Solar Solutions



Aakash Urja Solar Services Presents

A Complete Guide to Solar Panel Cleaning and Maintenance

Welcome to **Aakash Urja Solar Services**.

Today, we will explain how to properly clean and maintain your solar panels so that your solar system continues to deliver excellent performance for many years.

We have been monitoring a 5 kW solar system for the past one year, and because of correct cleaning practices, its output is still as good as new.

Based on this experience, we are sharing some important points with you.

Safety Before Cleaning — Aakash Urja Solar Services Recommendations

Always remember:

- Clean the panels only when there is no direct sunlight — early morning or evening.
- Cleaning in strong sunlight may cause panels to heat up and create “hotspots.”

Follow these simple safety precautions:

- Switch off the solar MCB
- Ensure proper grounding (earthing) of your home
- Wear rubber footwear
- Do not touch the panel frame with wet hands
- Inspect the panels and wires before cleaning

Why Inspection Is Important Before Cleaning?

Aakash Urja Solar Services advises checking the following:

- No stone, wood, or heavy object should be placed on the panel
- No cracks on the glass surface
- No wire should be broken or damaged
- Excessive bird droppings should be noted

If there is a crack in the panel, **do not wash it**, and never stand on the panel.

How to Clean Solar Panels — Aakash Urja's 5-Step Method

This method is simple, safe, and panel-friendly.

✓ Step 1 — Remove Large Dust Particles with Water

- If using a pressure machine, use only the *spread mode*
- Avoid using a *point mode* jet stream, as it can damage the waterproof layer
- Maintain proper distance while spraying water
- Alternatively, use a normal water pipe or bucket

✓ Step 2 — Apply a Layer of pH-Balanced (Non-Acidic) Shampoo

Only water cannot remove fine dust.

Aakash Urja Solar Services recommends using **pH-balanced shampoo**.

- Do not use wax-based car shampoo
- Leave the shampoo on the panel for about 5 minutes

Important:

Shampoo dries quickly in summer, so always clean in the evening.

✓ Step 3 — Light Cleaning with Microfiber Cloth

- Microfiber cloth does not scratch the glass
- Do not apply too much pressure
- Clean the corners properly

✓ Step 4 — Rinse with Clean Water

This step removes stuck dirt, bird droppings, and dust easily.

✓ Step 5 — Dry the Panels Completely (Very Important)

If water dries on its own, spots may appear which reduce solar generation.

- Use a microfiber mop to dry the panel thoroughly
- Pay extra attention to the edges and near the frame

Aakash Urja's Tip:

Install drain clips wherever water accumulates repeatedly.

Cleaning Frequency According to Season

Aakash Urja Solar Services suggests setting the cleaning schedule based on weather and location:

- **Rainy Season:** Once a month
- **Winter:** Every 15 days
- **Summer:** Every week or every 15 days

Panels installed at higher locations gather less dust.

If you live in an area with heavy dust or construction, clean the panels every 15 days.

With regular cleaning, solar generation can increase by **20–30%**.

Conclusion — A Message from Aakash Urja

Cleaning and maintaining your solar panels is not a difficult task.

Just follow the correct method, choose the right time, and give them a little attention every 15–30 days.

If you have any better suggestions, do share them with us!

Thank you!

Aakash Urja Solar Services — Lighting up every home, every business.