ERES GROUP

CASE STUDY | SOLAR MAINTENANCE



RESIDENTIAL SOLAR SERVICE | SYDNEY, AUSTRALIA

Solar Panel Clean and Health Check

Three Sydney Properties

Professional Solar Maintenance Across Greater Sydney, NSW

LOCATION	SERVICE	PROPERTIES
Greater Sydney, NSW	**Clean and Health Check**	**3 Residential Homes**

OUR SERVICE

What a Solar Clean and Health Check Includes

At ERES Group, a solar service goes well beyond basic cleaning. We provide professional panel cleaning, a thorough visual system inspection and performance focused checks — ensuring your system operates safely and efficiently. Dust, debris, bird soiling and environmental grime accumulate over time and can reduce output by 15 to 25 percent.

Panel Cleaning

- Purified water fed pole cleaning of all panel surfaces
- Frame and rail cleaning to remove built up grime and debris
- Bird proofing and mesh integrity inspection
- Leaf and debris removal from panel edges and roof area
- Post clean visual inspection of all panel surfaces

Health Check

- Visual inspection for micro cracks, discolouration or delamination
- Inverter check — fault codes, display readings and ventilation
- AC isolator, generation meter and monitoring equipment check
- Mounting bracket and roof penetration inspection for corrosion
- String voltage and polarity check where accessible
- Written service report with photos and recommended actions

What You Receive After Every Service

Written Service Report

Before and after observations, photos of findings and a clear summary of system condition — issued the same day.

Performance Summary

Comparison of pre and post service inverter readings confirming any measurable output improvement.

Recommended Actions
Items requiring attention are noted with a priority rating so you can decide how to proceed.

Certificate of Service
A signed certificate confirming the clean and health check has been completed to ERES Group standards.

PROPERTY 1

Northern Beaches, Sydney NSW

1

Dee Why, Northern Beaches

Residential Home | North Facing Roof

SYSTEM SIZE

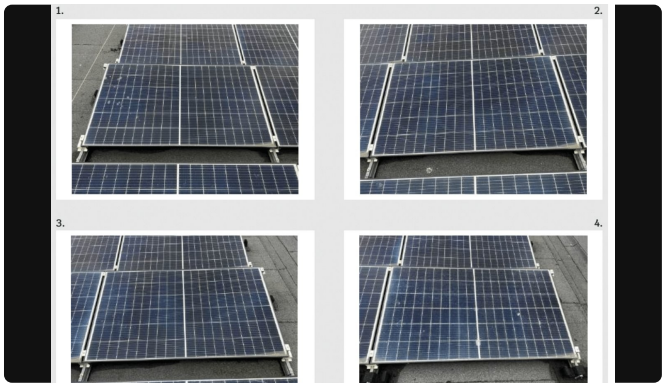
6.6 kW | 16 Panels

SYSTEM AGE

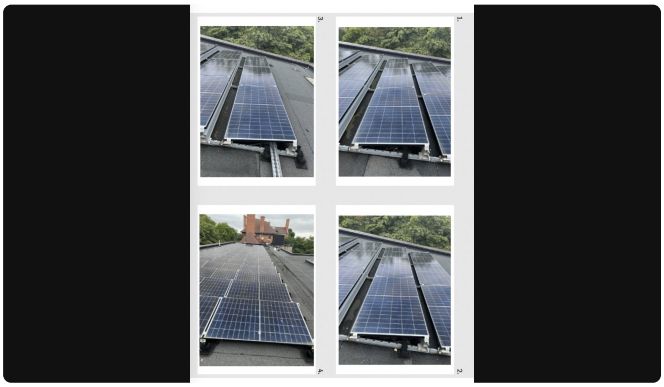
4 Years Since Installation

This property on the Northern Beaches had not received a professional service since original installation four years prior. The coastal environment resulted in significant salt deposit, grime and bird soiling across all 16 panels, with the homeowner noticing a gradual reduction in app reported generation over the preceding 12 months. On inspection, heavy soiling was confirmed across the full array with concentrated bird fouling on the lower string. Following a full purified water clean and frame service, panels were restored to near original condition. The inverter and mounting system were inspected and found to be in good order with no faults or defects identified.

Before and After — Panel Clean



BEFORE



AFTER

Health Check Findings

Panel Surface Condition	Heavy salt, grime and bird soiling — all 16 panels	ACTION
Panel Integrity	No cracks, delamination or discolouration noted	PASS
Bird Proofing Mesh	Mesh intact and secure, no detachment found	PASS
Inverter Status	Operating normally, no fault codes present	PASS
Inverter Ventilation	Adequate clearance, no dust blockage found	PASS
Mounting and Brackets	All fixings secure, no corrosion or movement	PASS
AC Isolator and Metering	Operational, correctly labelled and accessible	PASS
Roof Penetrations	Sealed correctly, no ingress points identified	PASS
Estimated Output Impact	Soiling reducing output by up to 20%	ADVISORY

PANELS CLEANED	FAULTS IDENTIFIED	ESTIMATED OUTPUT GAIN	REPORT ISSUED
16 of 16	None	Up to 20%	Same Day

PROPERTY 2

Western Suburbs, Sydney NSW

2

Penrith, Western Suburbs

Residential Home | Concrete Tile Roof

SYSTEM SIZE

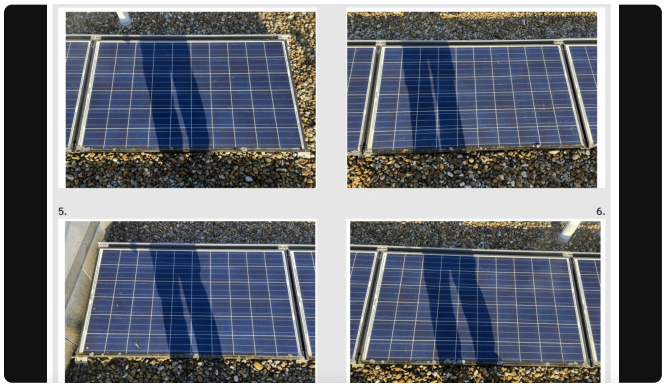
10 kW | 25 Panels

SYSTEM AGE

6 Years Since Installation

This 10 kW system in Penrith had been in operation for six years without a professional service. The Western Sydney environment brings significant dust and pollen load particularly during summer and following hot westerly wind events — the owner had noticed rising energy bills despite no change in household usage. On arrival, heavy dust and grime accumulation was confirmed across all 25 panels and a bird proofing mesh inspection revealed partial detachment on the western edge. All panels were fully cleaned, the mesh re secured and a detailed service report issued the same day.

Before and After — Panel Clean



BEFORE



AFTER

Health Check Findings

Panel Surface Condition	Heavy dust and pollen — all 25 panels	ACTION
Bird Soiling	Moderate soiling, upper array western elevation	ADVISORY
Bird Proofing Mesh	Partial detachment on western edge, re secured	ACTION
Panel Integrity	Minor surface scuffing on one panel, no cell damage	ADVISORY
Inverter Status	Operating normally, no active fault codes	PASS
Inverter Ventilation	Dust on ventilation grille, cleaned on site	ADVISORY
Mounting and Brackets	Minor corrosion on two brackets, noted for monitoring	ADVISORY
AC Isolator and Metering	Operational and correctly labelled	PASS
Estimated Output Impact	Combined soiling reducing output by up to 25%	ACTION

PANELS CLEANED	ADVISORIES RAISED	MESH RE SECURED	ESTIMATED OUTPUT GAIN
25 of 25	**3 Items**	**Western Edge**	**Up to 25%**

PROPERTY 3

Wahroonga, Upper North Shore NSW

3

Wahroonga, Upper North Shore

Residential Home | Slate Tile Roof

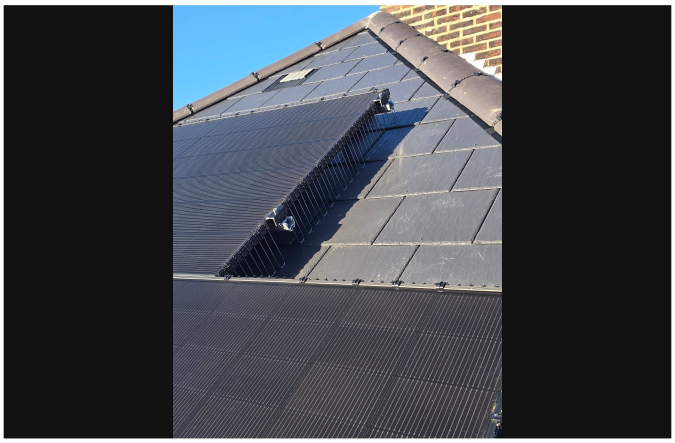
SYSTEM SIZE

13.2 kW | 33 Panels

SYSTEM AGE

3 Years Since Installation

This 13.2 kW system in Wahroonga had been installed three years prior. The homeowner booked ERES Group proactively as part of a structured annual maintenance plan — the system was performing within expected parameters but they wanted a thorough inspection to confirm health and catch any early stage issues. The property sits under mature trees contributing to higher than average leaf debris and organic matter in the frame channels. All 33 panels were cleaned, frames cleared of debris and the full health check completed with two minor advisory findings documented for the client.





Health Check Findings

Panel Surface Condition	Light to moderate dust and organic matter at frame edges	ADVISORY
Frame and Rail Channels	Significant leaf and debris accumulation, cleared on site	ADVISORY
Bird Proofing Mesh	Intact and secure across full array perimeter	PASS
Panel Integrity	No cracks, delamination or discolouration on any panel	PASS
Inverter Status	Operating normally, no fault codes or warnings present	PASS
Inverter Ventilation	Clean and unobstructed, adequate clearance confirmed	PASS
Mounting and Brackets	All fixings secure, no corrosion or movement identified	PASS
AC Isolator and Metering	Operational, correctly labelled and fully accessible	PASS
Roof Penetrations	All penetrations sealed, no ingress identified	PASS
Estimated Output Impact	Light soiling reducing output by 8 to 12% pre clean	ADVISORY

PANELS CLEANED	FAULTS FOUND	DEBRIS CLEARED	ESTIMATED OUTPUT GAIN
33 of 33	**None**	**Frame Channels**	**8 to 12%**

SERVICE SUMMARY

What We Found Across Three Sydney Properties

Across all three properties ERES Group completed a full clean and health check, restored panel performance and identified maintenance items that would have gone undetected without a structured inspection. Every system received a written service report and certificate of completion on the same day.

All 74 Panels Cleaned

A total of 74 solar panels across three properties were fully cleaned using purified water fed pole equipment, removing all soiling and debris.

Performance Restored

Estimated output losses of between 8 and 25 percent were identified and recovered through professional cleaning across all three systems.

Faults Identified Early

Bird proofing detachment and bracket corrosion were identified and actioned at the Western Suburbs property before causing further damage.

Full Documentation Provided

Each homeowner received a written service report, photographic record of findings and a signed certificate of service on the day of the visit.

No Major Faults Found

Across all three systems no inverter faults, panel failures or serious structural defects were identified, confirming the value of proactive maintenance.

Annual Service Plans Available

All three homeowners enrolled in an ERES Group annual maintenance plan, scheduling their next clean and health check for 12 months time.

TOTAL PANELS CLEANED	PROPERTIES SERVICED	FAULTS ACTIONED	ALL ENROLLED
74 Panels	**3 Homes**	**On the Day**	**Annual Plan**

ERES GROUP

When Did Your Solar System Last Have a Professional Service?

ERES Group provides professional solar panel cleaning and health checks for residential and commercial properties across Sydney and the surrounding regions.

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