PLASMABERRY SOLAR

ADAPTIVE MODULE CLEANING

The right cleaning method. The right equipment. A service plan built around your solar plant.

SOLAR SOILING IS NOT UNIFORM. YOUR CLEANING PROGRAMME SHOULD NOT BE EITHER.
Plasmaberry adapts the cleaning method, equipment and service plan to the installation, soiling conditions and available site infrastructure.

A cleaning approach that adapts to the plant

Different solar installations face different soiling conditions, access constraints, operating schedules and cleaning requirements. Adaptive Module Cleaning brings these considerations into one managed service: assess the plant, select a suitable cleaning method and equipment, schedule the work, and document the service.

One service. Three cleaning methods.

Service mode	What it means	When it may be suitable
Dry Care	Dry brush/MOP cleaning without water.	Loose dust and dry particulate, where module surface, brush and OEM guidance make dry cleaning suitable.
Wet Care	Brush/MOP cleaning using suitable site water and pump infrastructure.	Sticky deposits, bird droppings, mud film or conditions where dry cleaning is ineffective or unsuitable.
Adaptive / Hybrid Care	Dry-first schedule with wet intervention when inspection identifies a need.	Recurring sites with seasonal or changing soiling and water conditions.

Water-resilient does not mean universally waterless. The method is selected to suit the actual condition of the modules.

Equipment matched to the installation

Installation type	Service equipment and delivery
Rooftops and distributed solar	Compact dry/wet MOP; target one trained operator where site access and safety permit. Wet mode may use compatible existing site pump infrastructure.
Ground-mounted solar parks	Portable, non-automatic lift-and-shift brush system in single- or double-brush configuration. A two-person crew is required to lift and reposition the arrangement.
Large or specialist sites	Equipment and method are selected after reviewing row geometry, module layout, access, terrain, soiling and operating requirements.

Robotic cleaning capability

For suitable large ground-mounted installations, Plasmaberry also offers managed robotic cleaning. The website describes dry and water-based wet operating capability, soft nylon or microfibre brushes, cleaning speeds of 10–15 metres per minute and cleaning efficiency of up to 99%. Actual performance depends on site conditions, equipment configuration and the agreed service scope.

Who can benefit?

Customer segment	How Adaptive Module Cleaning can help
Homeowners and residential rooftop owners	Scheduled cleaning without having to manage specialist equipment or cleaning personnel.
Housing societies	Planned cleaning across rooftop installations, with documented visits and consolidated coordination.
Commercial and industrial rooftop owners	A programme that considers water availability, operating windows, soiling and site infrastructure.
EPC contractors	Specialist cleaning partner for post-commissioning and recurring customer service, including subcontract or white-label arrangements where agreed.
Solar O&M; providers	Additional dry/hybrid capability and cleaning equipment without building and maintaining a specialist fleet.
Solar park owners and operators	Ground-mount options using robotic or portable lift-and-shift equipment, selected after site assessment.
Industrial captive and multi-site asset owners	Consistent cleaning methods, service evidence and coordinated schedules across locations.

How Plasmaberry delivers the service

01 Assess	02 Configure	03 Deliver	04 Document
Review capacity, layout, access, soiling, water availability and site requirements.	Select equipment and dry, wet or adaptive operating method.	Deploy trained personnel and carry out the agreed cleaning programme.	Record service activity, photos, observations and MCE reporting where included in scope.

Visibility through Helios™

Helios™ supports service schedules, before-and-after evidence, service history and Module Cleaning Efficiency (MCE) reporting where included in the contracted scope. Customers receive a clearer record of what was completed, when it was completed and observations recorded during the visit.

FREQUENTLY ASKED QUESTIONS

Is Adaptive Module Cleaning completely waterless?

Not necessarily. Dry cleaning is used where the soiling and module surface make it suitable. Wet cleaning remains available for sticky deposits, bird droppings, mud films and other conditions that cannot be safely or effectively handled dry.

How do you decide whether to use dry, wet or hybrid cleaning?

Plasmaberry reviews the soiling condition, module guidance, layout, access and available water infrastructure. The cleaning method is then agreed for the site and service scope.

Can you use the existing pump at our site?

For compatible wet-cleaning jobs, an existing site pump and water arrangement may be used after checking suitability, condition, connections and safe operation.

Do you serve both rooftops and large solar parks?

Yes. Compact MOP equipment is intended for rooftops and distributed sites. Ground-mounted parks may be served using robotic cleaning or a portable lift-and-shift brush system, depending on site suitability.

Does the lift-and-shift brush system operate automatically?

No. It is a non-automatic system. Two people are required to lift and reposition the arrangement as part of the cleaning operation.

Can dry brushing damage module glass or affect the warranty?

Cleaning must follow the relevant module manufacturer's instructions. Brush suitability, trapped grit and pressure need to be checked. Plasmaberry assesses the method and recommends confirmation of OEM guidance where required; universal warranty approval or scratch-proof performance is not implied.

What happens if the modules have cement, paint or heavy deposits?

These conditions require assessment and may need wet or specialist treatment. They should not be treated as routine dry-brushing work.

Will we receive proof of service?

Service evidence can include visit records, before-and-after photographs, observations and MCE reporting through Helios™, according to the agreed service scope.

REQUEST AN ADAPTIVE CLEANING ASSESSMENT

Share your plant location, capacity, module layout, current cleaning frequency, soiling conditions and available water infrastructure. Plasmaberry will review the site and recommend a suitable cleaning scope.

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Service scope, equipment configuration, operating mode and performance are confirmed after site assessment. Published performance figures are indicative and subject to site conditions.