



sustineo  
FULL SERVICE SOLAR WASHING

## TOTAL MAINTENANCE AND CARE FOR YOUR SOLAR INSTALLATION.

At **Sustineo**, we not only design and build solar, we provide high-touch, expert cleaning to help you maintain quality and power. Sustineo employs expertise, experience and the latest technology to clean your installation quickly and efficiently. Clean solar panels are happy solar panels. Read on to discover how we can help you care for your solar installation.





## PERFORMANCE | SIMPLIFIED

### SERVICES OVERVIEW

In recent years, robotics have played an increasing role in cleaning performance. Current technology allows Sustineo to operate its fleet of cleaning robots in all regions of the U.S. market. Our robots enable both wet and dry cleaning options on ground mounts, carports, and rooftop systems. Regular cleaning of your PV installations will avoid soiling losses and ensure that system performance is at a maximum during peak irradiance months.

Robotic cleaning systems are sorted into four main categories: truck mounted, semi-automated, portable, and fully automated. Sustineo will examine your utility bill to determine the best month to clean on an annual basis so that your project maximizes its time of use production. Typical cleaning cycles are once or twice per year, depending on your site specific soiling issues.



#### INCREASE SYSTEM PERFORMANCE BY 15%

Research and data on solar panels show that the efficiency of panels not cleaned regularly can rapidly drop. Cleaning has been shown to drastically increase solar output by up to 15%.



## PERFORMANCE | SIMPLIFIED

### OUR DIFFERENTIATORS AND EXPERTISE



#### SPEED

Robotic cleaning technologies have increased cleaning efficiencies dramatically by substantially **reducing the amount of man power** that is typically used for manual brushing.



#### SAFETY

Cleaning robots requires only 1-2 people to transport and operate, which reduces the amount of labor and equipment needed to complete a wash by brushing.  
**Manual cleaning represents a risk for operators who often work at a height from the ground, with a risk of falling.**  
**Our robots can be operated remotely.**



#### PURIFIED WATER FOR SPOT FREE FINISH

**Reverse osmosis and deionized water** is used for cleaning module surfaces. Total Dissolved Solids can be brought down below 10-ppm.



#### BRUSH SUPERIORITY

- 4-ft helicoidal brushes with multiple bristle types.
- Dry and Wet Cleaning options
- Various types of brushes that can clean pollen, soiling, lichen and bird droppings.



#### ROBOTS GET THE JOB DONE

Sustineo uses two types of robots that operate on **rooftops, ground mounts, and carports**. The robots can be disassembled to accommodate carrying them up on to roofs, as well as moving them from array to array. Operators will examine your installation to determine the best robot for your project.





BEFORE + AFTER CLEANING



## CONTACT US

MEET WITH OUR EXPERTS

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