



# GCL Photovoltaic Panel Cleaning Machine

What is GCL new energy's intelligent cleaning system?

GCL New Energy's photovoltaic intelligent cleaning system consists of an intelligent ferry and track system, intelligent operation and maintenance using an unmanned robotic aerial vehicle, a wireless base station, and a control console.

What does GCL do?

GCL targets at making PV-generated electricity affordable and inclusive for the public by its constant technology innovations in polysilicon, silicon wafers, cells, modules, system integration and photovoltaic power plants, continuous improvement of its management, regional layout and green energy certification systems.

How much does a photovoltaic cleaning module cost?

Librandi et al. developed a photovoltaic cleaning module with a wiper blade and an electrostatic cloth only. The proposed system was attached to a motor. A BASIC Stamp 2 (BS2) was employed as the microcontroller to control the mechanism. The structure consists of a simple mechanism, and the total cost of the proposed system was about \$200.

How to clean a PV panel?

Consequently, specific cleaning techniques are required to mitigate the accumulated dust and restore the plant's efficiency. The most popular PV panel cleaning techniques include natural, manual, automatic, and electrostatic cleaning. Each cleaning technique is associated with both positive and negative impacts.

How does a solar panel cleaning system work?

This technology provides a sustainable cleaning system with minimal complexity in its structure and maintenance costs. Its central technique depends on delivering power to the system using a DC motor to move the parallel brush over the solar panel surface.

What are the different types of automatic cleaning systems of solar panels?

The existing automatic cleaning systems of solar panels are various and can be categorized into two main types: i) active, and ii) passive cleaning systems. Active systems require power for self-cleaning methods, such as electrostatic and mechanical methods.



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