



Sunkalp Energy



Auto Cleaning of Solar Panels

CASE STUDY

Summary

Sunkalp Energy designed and developed at a low cost, low flow, and low maintenance auto cleaning mechanism that would regularly clean the solar panels without consuming high volumes of water.

Objective of Intervention

The objective of this project was to implement a cost-effective mechanism to regularly clean inaccessible solar panels in a dusty part of the city in order to increase the generation and reduce payback.

Type of Intervention and Location

Installation of Automatic Cleaning mechanism for solar panels- domestic engineering at Green Park, New Delhi

Description of Intervention

Cost of the mechanism is at less than INR 2 per watt. Cleaning is possible at almost any location with limited manual intervention. We have shown the generation to increase by 10% with regular cleaning.

Intangible or Tangible Benefit

Payback for the cleaning mechanism is achieved in less than one year. Overall, the perceived ease of use and maintenance of solar power increase and clients perceive is an easy to adopt technology.

About Sunkalp Energy

With headquarters in New Delhi, Sunkalp Energy has been at the fore-front of developing and deploying technology tools to organize and aggregate the roof-top solar industry. Our partnerships with the leading



solar equipment manufacturers and installers ensure that the systems you purchase meet the promise of quality and energy production.

Sunkalp Energy is headed by technologists from the Massachusetts Institute of Technology and Delhi College of Engineering who have rich international experience in distributed energy generation, technology and analysis of the solar industry. Sunkalp Energy has consistently given back to community through its rural electrification projects and Solar for Schools competition that raises awareness amongst children.