CORPORATE OVERVIEW

Ecoppia

Empowering Solar

Ecoppia creates value in utility-grade solar parks by measurably increasing energy production and lowering overhead and maintenance costs.

Our autonomous, water-free, field-proven solar array cleaning solution cost-effectively maintains photovoltaic panels at peak performance, even in the toughest desert conditions.

The Need: Raising Production, Achieving Grid Parity

Photovoltaic solar power is already an important source of renewable energy, with total generation capacity rapidly rising from 1.5 GW in 2000 to roughly 60 GW in 2013 - largely produced by utility-grade solar parks.

In order to maintain momentum towards broader adoption and ultimately achieve grid parity, solar energy production efficiency must continue to improve. With many solar parks located in arid regions, dirt and dust accumulation (soiling) on solar panel surfaces has been shown to lower production by up to 35%.

Existing industrial-scale solar panel cleaning solutions are costly and water-intensive. This results in lower operational efficiency and unnecessary production overhead. Thus, panel cleaning is currently a major obstacle to solar energy uptake.

CHALLENGE

- Solar panel soiling lowers energy production by up to 35%
- Existing panel cleaning solutions are costly and water-intensive

SOLUTION

- Autonomous, water-free solar array cleaning robots
- Solar panels maintained at optimal production 24/7/365
- Field-proven, commercially deployed

BENEFITS

- Measurable rise in solar park energy output
- Lower cleaning overhead
- Rapid and demonstrable ROI

Ecoppia E4

INNOVATIVE SOLUTION

- Nightly cleaning removes 99% of dust
- Unique water-free solution
- Fully-automated fleet of robots
- Energy-independent, no external energy source required
- Comprehensive monitoring and management tools

The Ecoppia Solution: Cost-Effective and Eco-Friendly

To maximize solar park energy output without the expense and negative ecological impact of manual and water-based cleaning, Ecoppia created E4.

Pragmatic, cost-effective and efficient, each energy-independent E4 cleaning robot uses a self-maintained water-free microfiber and airflow cleaning system to remove 99% of dust accumulation, keeping panels at optimal production 24/7/365. Already commercially deployed on a large scale in harsh desert solar parks, the E4 system is easily implemented, fully automated and completely remotely administered. By dramatically lowering cleaning overhead, while enabling a marked rise in energy output, E4 offers rapid and demonstrable ROI.

Seasoned Management, Solid Backing

Founded in 2013, Ecoppia is headquartered in Israel - a recognized solar energy powerhouse – and engages solar parks and photovoltaic solar panel manufacturers worldwide. Privately-held, Ecoppia is backed by prominent and experienced major international investment funds.

The Ecoppia management team brings broad and multidisciplinary experience with proven track records in alternative energy product development, industrial engineering, utility-scale operations and finance. Complementing the management are experienced and professional technical teams who together constitute a creative, caring and motivated industry-leading force.