



# SOLAR FIELD CLEANING SERVICE



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## ABOUT US

Since 1993, Ferumpe has offered quality services to companies in the renewable energy sector.

Our extensive experience in this sector and our large production capacity (installations boasting over 6000m<sup>2</sup> in Fuentes de Andalucía), have permitted us the opportunity to improve and perfect each of our products and services we offer, while maintaining outstanding quality.

In our continual effort to innovate our manufacturing processes and the materials used, we have automated the majority of our projects, thus reducing the time spent on production. This has allowed us to give top priority to environmental care and quality control.

Furthermore, We have perfected our solar-field cleaning service by working hand-in-hand with prestigious companies from the environmental sector and creating synergies, which have allowed us to differentiate our business while providing an excellent service.

At Ferumpe we strive to provide the best services by focusing on the needs of our sector, while working closely with each and every one of our clients and adapting our services to their individual needs.



## MISSION STATEMENT

Our mission is to continually improve our brand and provide innovative services while paying close attention to detail. We work tirelessly to improve the materials we use in our services, develop our own patents and communicate with our clients in a fast and efficient manner.

Additionally, Fermupe has developed its own solar mirror cleaning equipment, including both CCP tower panels and photovoltaic panels.

To stay true to our mission, we have entered into various research and development agreements with leading companies to bring to life new technologies in order to improve the products and services we offer to our clients



## OUR VALCO CLEANING EQUIPMENT

Fermupe has designed and developed two machines to clean solar mirrors and panels.

- **Valco** is designed to clean Paraboico cylinders in thermal solar power plants. This all-in-one machine is able to perform a wide array of cleanings (Contact and Non-Contact), which meets all the needs a solar plant has, while saving energy, time and money.

- **Vealis** is designed to clean a solar thermal plant's heliostatos and photovoltaicos without contact.





Our company uses specific equipment for solar panel and mirror cleaning:

- ✓ Solar mirror cleaning vehicles (CCP and Heliosteatos).
- ✓ Demi Water Treatment Plant
- ✓ Tanker Truck to supply water

Fermupe's personnel are extremely qualified and have vast experience in this line of work. They work closely with our clients, advising them every step of the way in order to produce the best results



Vehicles that adapt to irregular terrains



The shortest vehicle in the market in order to better maneuver in the solar fields



Vehicle with a centered cabin for better visibility and security



Ergonomic gear-stick for easy-use



- Equipment development based on previous projects and experience
- The largest, worldwide company based on services and machinery.

## CLIENTS

**steag**

**acciona**  
Energy

**SENER**

**africana**  
energía

**Torresol Energy**  
reinventing solar power

**cobra**  
ENERGÍA

**renovables**  
SAMCA





# EXPERIENCE

Since venturing into the renewable energy sector in 2010, Fermupe has primarily functioned as a service company providing clients with viable solutions, either through continual service or specific services based on the needs of each client. The versatility of our vehicles, along with our outstanding work, has allowed us to work in several types of solar panel fields. Our ability to adapt our services to each client has afforded us the opportunity to work with clients whose cleaning teams need extra support and reinforcement.

## **Acciona Palma del Rio I y II Plants**

- > Pre-operational cleaning
- > Maintenance cleaning in 2011

## **Acciona Majadas Plant**

- > Maintenance cleaning from 2011-2013

## **Acciona Orellana Plant**

- > Pre-operational cleaning
- > Maintenance cleaning from 2012-2014

## **Torresol Valle I and II Plants**

- > Pre-operational cleaning 2011
- > Maintenance cleaning in 2012
- > Maintenance cleaning in 2015

## **Samca Renovables La Dehesa Plant**

- > Maintenance cleaning 2012-2020

## **Samca Renewable La Florida Plant**

- > Maintenance cleaning 2012-2020

## **Africana Solar Plant**

- > Preoperational cleaning 2012
- > Maintenance cleaning 2012-2016

## **Ibereólica Morón Plant**

- > Pre-operational cleaning 2012
- > Maintenance cleaning 2014-2019

## **Arenales Plant**

- > Maintenance cleaning 2015-2016

## **Manchasol I and II Plants**

- > Maintenance cleaning 2016 – 2020

## **Lebrija Plant**

- > Maintenance cleaning 2014 and specific cleanings in 2015

## **Andasol III Plant**

- > Maintenance cleaning 2013 and specific cleanings in 2015.

## **Soluz Guzman Plant**

- > Pre-operational cleaning 2012

## **Extresol I , II and III Plants**

- > Maintenance cleaning from 2016 – 2020





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