



Energías Renovables Operación y Mantenimiento

Range of  
Special Services



## EROM

ACCIONA Service, in its EROM's business line ( Energías Renovables Operación y Mantenimiento ) is specialized in the operation and maintenance of renewable energy assets. Its areas of activities are: Wind and PV Solar Energy, as well as high-voltage installations.

EROM integrates the respect and protection of the environment, as an essential variable of its activity, as well as the safety in the performance of its services.

## High and medium voltage services

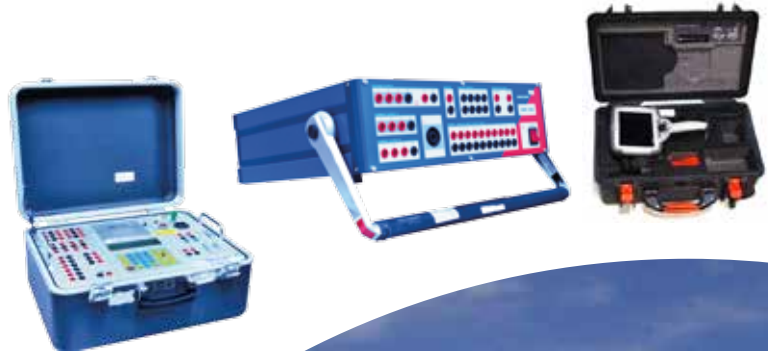
EROM offers maintenance of HV assets, services of engineering and commissioning of substations. Its team has more than 12 years of experience, it works with a current portfolio of 85 substations and has more than 3,000 electrical transformation centres with more than 1,500 km of overhead-electric lines.

### Services Offered:

- Preventive, corrective and predictive maintenance services
- Commissioning
- Thermography inspections
- Electrical tests of switchgears and transformers
- Electrical protection test
- End of warranty inspection
- Operation
- Service quality audits

### The Staff:

Integrated by Engineers and Electro-technical Technicians or equivalent, and with more than five years' experience in high and medium-voltage assets maintenance. All members of the team will have the required qualification in order to comply with the current legislation.



## Material Resources:

- Diagnosis equipment for: electrical machines, generators, transformers, HV switchgear and dielectric strength in equipment and oils
- Test equipment for the HV switchgear, DC batteries and electrical protections
- Primary current injection test equipment
- Testing equipment for power transformers
- Thermographic camera
- Voltage detectors equipment, portable grounds, lifting tools, ladders, scaffolds, etc
- Insulating poles for a range of voltages with tools for different purposes

## Mechanical predictive services

The Department of Predictive maintenance provides its service to more than 1,000 wind turbine generators and 3 Concentration Solar-Power (CSP) installations.

For each area of activity it is offered:

- Wind Energy:
  - Vibration measurements of the main shaft and bearing, gearbox and generator
  - Video endoscopy in gearbox and bearing
- CSP:
  - Vibration measurements for the motor pump and motor
- Industrial sector and heavy industry:
  - Vibration measurement for the motor pump and geared motor
  - Video endoscopy in geared motor and bearings

## The Staff:

All EROM's vibration analysts are certificated by Category II 18436-2.



## Human resources

EROM provides a highly qualified team, with wide experience and necessary training in order to ensure the maximum quality of offered services. The maintenance team involves high-level technicians for different specialties (industrial equipment, electromechanical and electronic maintenance, etc.) and engineers.

## Inspection/ Auditory

EROM performs quality audits to wind, photovoltaic assets, transformation centers and substations. The methodology applied can be used for the evaluation of both: the state of the asset and the maintenance quality performed by technicians. Planning, documentation and Key Performance Indicators (KPI) adapted to meet the clients' requests.

## Clients

ACCIONA  
ENEL  
AENA  
DEFENSE MINISTRY OF SPAIN  
GAS NATURAL  
FERSA  
EDP  
ENERFIN  
GECALSA  
NORDEX - WINDPOWER  
ESOL4U

## Certified Company

ISO 9001, OHSAS 18001,  
ISO 14001 CERTIFICATIONS.  
Certified as GWO's training provider.





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