



O&M Activities presentation:

RESIT has designed and has got permission to build for large multi megawatt plants for about 100 MWp, on account of great italian and european industrial partners (see our website www.resit.it).

RESIT is currently involved in photovoltaic plants operation and maintenance, within O&M contracts for about 20 MW (17 in Calabria district, Italy).

RESIT carries out plants' operation and maintenance employing its technicians and its instruments and a long time experience in design, production and maintenance of energy production plants and environmental projects.

A plant has to assure, during the years, the best achievable performances. RESIT guarantees 24/7 availability and emergency service in order to troubleshooting and recovery.

RESIT can provide installing plant's remote control systems.

RESIT, thank to its great experience, can operate on energy plants respecting environment and safety following european rules.

RESIT technicians have followed safety training courses on electrical work.

RESIT can supply ordinary and extraordinary maintenance, and will carry out every check provided by maintenance manuals and by most important items suppliers (PV modules, inverters, electrical panels, switches and substations).

Programmed maintenance's activities and timing have to be agreed with customer.

RESIT can give support for administrative and bureaucratic issues.

Programmed maintenance

Operations' program and timing (daily, quarterly, semi-annual, annual) will be agreed in a "Programmed Maintenance Plan" (PMP).

Operations will developed respecting "PV Plants operation and maintenance Manual – intervention procedures" written by RESIT and included in RESIT ISO 9001 Quality Operation System.

PV Plant:

- PV modules and wiring inspection;
- Strings' functionality check;
- PV modules washing supervision;
- Infrared Thermography.

DC electrical panels:

- Visual and functionality check;

AC low voltage electrical panels:

- Visual and functionality check;

Inverters:

- Visual and case check (respecting builder's warranty conditions);
- Air filters inspection and cleaning;
- Inverter separation for electrical power failure check;
- Output voltage and current check;
- Efficiency check;
- Production data check;
- Ground grid connection check;
- Terminals tightening check.

Support structures:

- Visual check and cold galvanizing restoration;
- Support structures' mechanical efficiency check.

Clamps and wires:

- Protection against lightning check.

Environmental recovery:

- Plant area pest control and check;
- Grass mowing supervision;
- Waste management.

Substation (working):

- Substation's integrity and efficiency check;
- Cleaning and eventual pest control;
- Safety devices check (signboards, fire extinguishers, personal protective equipments, lights, ecc.)
- Electrical panels check.

Medium voltage board:

- Integrity and efficiency check and compliance with standards;
- Pressure's check in SF6 panels casings, if possible;
- On and off sequence signboards check.

Transformers

- Compliance with standards visual check;
- Thermometric units check;
- Thermography.

Substation (switched off):

- Electrical plant switch off according to safety at work laws;
- Medium voltage panel check;
- Transformer check.



RESIT, thanks to its great experience, can operate on energy plants respecting environment and safety at work European laws.

RESIT technicians have followed training courses about safety on electrical work.