

Operations and Maintenance

ESSG



Our experienced O&M team will design a commissioning, monitoring, and maintenance plan to ensure that your array sustains maximum uptime over the life of the system.

Email us: solarservice@essgllc.com

O&M

Our NJ based Solar Operations and Maintenance (O&M) team has more than 25 years of combined electrical installation, testing, and troubleshooting experience. Our technicians have completed OEM (Original Equipment Manufacturer) training programs provided by many prominent manufacturers, and have extensive field experience servicing the industry's leading inverter, DAS, panel, and BoS component types. ESSG offers 24 hour on-site response times to sites in the following states: NJ, PA, DE, MD, DC, MA, CT, NY.

Operations and Maintenance of a PV Solar Electrical Facility (SEF) is one of the most important, yet least understood aspects of the safe and successful operation of the SEF over the life of the system. O&M is, at its core, a system of risk analysis and management, and needs to be approached with the same principles as any other risk management process.

A successful O&M strategy must therefore address the challenge of minimizing occurrences of Moderate to Critical faults without becoming a financial burden to the company. In order to do this, an O&M program must be designed using criteria that ensure that the **appropriate** amount of energy is spent on inspection and maintenance of all aspects of an entire system.

These criteria should be designed to identify Low to Moderate risk occurrences such as failing zip ties or broken modules, while preventing High to Critical risk occurrences, such as an undetected direct (+) to (-) ground fault or an arcing termination. This must be done in a relatively low cost manner to ensure that the cost of the maintenance visit(s) does not exceed the value of the minimized risk exposure.

All companies operate with different thresholds for risk, so the ESSG O&M team will work closely with the decision makers in your organization to determine an

individual O&M program tailored to your specific cost / benefit standards.

Unfortunately, the true value of an effective O&M program may never be able to be quantified, as it is difficult to place a monetary value on issues that never materialize due to effective preventative maintenance programs.

ESSG understands the economic and practical challenges of developing and implementing a safe and effective O&M program that will preserve and enhance the overall value of your investment.

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ESSG, LLC is a team of leading industry experts in the Solar Photovoltaics and Renewable Energy fields. Our team has decades of experience directly relating to system design including Engineering, Procurement, Turnkey Installation as well as ongoing Operations & Maintenance and Asset Management.