

Operations & Maintenance

Louth Callan
Renewables
EMPOWERING A
BRIGHTER FUTURE™

SOLAR MAINTENANCE MATTERS

Louth Callan Renewables understands the importance of maintaining solar plants at peak availability and maximum output over the long term. We provide full spectrum operations and asset management services for all solar projects.

Our professionals will monitor your solar solution, identify faults remotely and keep you informed of performance. We believe predictive and preventative maintenance is better than reactive maintenance. We insist on experienced data analysts, using the best tools to monitor and insure your solar solution's profitability 24/7 – 365 days per year. By doing this we optimize our clients projected revenues to increase their ROI on each project.

BETTER MAINTENANCE MEANS BETTER ENERGY

You make an investment and expect returns. A solar system's performance that is monitored and properly maintained throughout its lifespan will meet or exceed target energy generation and return on investment. Our operations and maintenance team ensures that you receive the optimal environmental, energy and financial benefits from your system!

Managing and operating a solar asset for the best return on investment requires specialized knowledge. A well-maintained solar system can perform 10-30% better than one that is not. Louth Callan Renewables is the first choice for solar system owners for monitoring and maintaining projects. Our highly skilled team of electricians, engineers and service staff set us apart from our competitors.

SYSTEM MONITORING

- Performance monitoring and alarm management
- Outage coordination and primary point of contact with utilities, grid and transmission operators
- Monthly production and operations reports
- Performance analysis and optimization reports

PREDICTIVE & PREVENTATIVE

- Drone scanning
- Inverter
- Maintenance
- Module Cleaning
- AC and DC System Inspections
- Structural and mechanical system inspections.

CORRECTIVE

- Emergency Response
- Troubleshooting and diagnostics
- Spare parts inventory management
- Warranty administration with manufacturers
- Labor for out of warranty repairs

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LOUTH CALLAN RENEWABLES O&M PACKAGES

SERVICES	SILVER (\$.012 per watt)	GOLD (\$.018 per watt)	PLATINUM (\$.022 per watt)
Year-Round System Monitoring Our company will monitor your system and notify you of any relevant issues. (Usually within 6-8 hours).	✓	✓	✓
Yearly Preventative Maintenance Full equipment manufacturer maintenance requirements, which can include partial or full string level IV curve tracing.	✓	✓	✓
Maintenance Reporting Standard detailed maintenance report for both PM and CM visits.	✓	✓	✓
Warranty Implementation RMA or more inclusive warranty processing.	Fixed T&M (after Owner Authorization)	✓	✓
Reactive Maintenance Visits We will analyze your system and troubleshoot any issues.	Fixed T&M (after Owner Authorization)	✓	✓
Guaranteed and Quick Response Times for on-site arrival for production failures: <ul style="list-style-type: none"> • 24 hours for major level • 24-72 for medium level • 24-120 for low level 	✗	✓	✓
Vegetation Management We provide mowing around ground mounted arrays and weed abatement to ensure nature doesn't get in the way of your system.	Fixed T&M (after Owner Authorization)	Fixed T&M (after Owner Authorization)	Fixed T&M (after Owner Authorization)
Full System Reports <ul style="list-style-type: none"> • Site activity • System performance • Weather performance • Historic performance 	✗	✓	✓
Availability Guarantee In certain circumstances	✗	✗	✓
Array Washing We provide module cleaning complete with before and after photos to show.	Fixed T&M (after Owner Authorization)	Fixed T&M (after Owner Authorization)	✓
Additional Services Account management, additional reports, and in-depth problem analysis.	Fixed T&M (after Owner Authorization)	Fixed T&M (after Owner Authorization)	Fixed T&M (after Owner Authorization)