



Our team provides engineering services to ensure systems operate at their peak performance through monitoring, reporting and commissioning. We also design, build, and install communication systems to meet the specific needs of our clients.

SERVICES

- DAS/SCADA active PV monitoring
- Remote diagnosis
- Technical asset management reporting
- Engineering support for field technicians and vendors
- Energy modeling and forecasting
- Performance testing
- Site Optimization
- Data/fault analysis
- Quality assurance reporting
- DAS design and retrofit

"When an issue is identified through our monitoring services, we work to remotely diagnose the issue as thoroughly as possible"

-Brandon Durham

VP Performance Engineering



Our engineers are experienced and trained in SEL relay protection, fault analysis and PVSyst modeling. They have received inverter and DAS OEM training to ensure they are equipped to troubleshoot a variety of issues. We provide services for newly installed systems including Utility Witness Testing, Performance Testing, and IVCT analysis. Our analysis identifies energy losses and optimizes systems to increase site output. Thanks to our analysis, energy losses are identified and systems are optimized leading to increased outputs.

98%

Fleet availability

180

Total MW_{ac} monitored

83%

Fleet Performance Ratio

CONTACT

For proposals or questions about services, contact rfp@carolinasolar.services
919-808-5285

Founded in 2014, Carolina Solar Services is a Durham-based operations and maintenance company. Over the years, we have established our presence throughout the Southeast and in Oregon to service 800+MW of solar assets. We remain true to our values of safety, client-focus, learnedness and environmental stewardship. We believe that Every kWh Matters!



MONITORING

- **Active Monitoring** : identify abnormalities and decrease downtime when issues occur
- **Remote issue diagnostics** : prevent truck rolls and gather information for technicians before they arrive on site to increase efficiency
- **Field technician remote support**: remotely diagnose and investigate
- **Communication with third parties**: lead conversations with inverter manufacturers and DAS providers

REPORTING

- **Key Performance Indicators** : efficiently compute and report KPIs that include Performance Ratio, DC Health, and Availability.
- **Energy modelling** : estimate the idealized production of a site and provide insight into the cost of an outage, the impact of maintenance, or improvements from repairs
- **Weather & Energy forecasting** : predict energy production for a given site configuration

COMMISSIONING

- **DAS commissioning** : proficient with the AlsoEnergy DAS family to commission newly built systems.
- **Device mapping** : map all devices for accurate summary and layover

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We search for energy losses through System Optimization and increase system output more efficiently with fewer resources.