

UTILITY-SCALE PV SOLAR

PV Power Plant Control • PLC • SCADA • Security



Affinity Energy

Affinity Energy's renewable energy team are experts when it comes to utility-scale PV power plants. Specializing in both substations and solar arrays, our team guarantees your PV plant meets the requirements of power plant owners, utilities, balancing authorities, and all other off takers.

With over 4+ GW of renewable energy projects successfully completed, our focus on controls and instrumentation for PV solar means we're able to develop systems that meet diverse power plant control requirements and meet demanding project schedules.

BENEFITS TO YOU

Affinity Energy's dedication to renewable energy maximizes plant performance and minimizes downtime, allowing the PV plant to focus on what it does best. We take pride in continuously refining and improving our approach to designing, programming, and commissioning our SCADA and control strategies.

Our customized systems help you:

- » Manage your portfolio of PV assets in real time and quickly respond to environmental and economic factors
- » Assess the performance of your power plant via powerful analytical tools
- » Leverage our expertise to meet commercial operating date requirements quickly and cost-effectively

WE SUPPORT SOLAR PROFESSIONALS IN ROLES INCLUDING

EPCs

We handle complex instrumentation & control

We can take turnkey or a la carte responsibility for specification, procurement, installation, and commissioning of instrumentation and control for your solar project to ensure it meets the contractual requirements of the IA and PPA, as well as specific owner/operator requirements.

Developers

We extend your capability to construct more sites

In locations where utility interconnect requirements are more stringent, we offer active power and voltage control capabilities that allow for interconnection where a project would otherwise not be feasible. Our control systems enable solar farms to work well on very soft grid connections.

Owners/Operators

We give you the data to operate at peak output

Our solutions keep what is most important in the forefront, allowing you to maximize your plant's annual revenue. Our extensive experience and subject matter expertise allow us to offer cost-effective and comprehensive instrumentation, controls, and SCADA customized to your O&M needs.

AT A GLANCE

4+ GW Renewable Energy Projects

Scalable and flexible

Comply with interconnection and power purchase requirements

PPC to include APC/AGC, AVR, Frequency, VAR, and PF Control

Substation RTU programming and end-to-end testing

Text/email of alarms & events

Performance dashboard and custom reports

3-year service warranty

Minority business certified

FOR MORE INFORMATION, CONTACT

Allan Evora | President

aevora@affinityenergy.com • 704.766.2060 x 110



www.affinityenergy.com

“After the factory acceptance test in which we reviewed engineering progress and findings, I left the meeting with full confidence in Affinity Energy’s ability to get our large solar projects done exactly the way we wanted and on time.”

- SENIOR ENGINEER, Large Solar Developer



FLEXIBLE & SCALABLE

At Affinity Energy, we understand the need for rapid and flexible deployment of enterprise controls and management systems. Our experts leverage object-oriented technologies to support an agile, dynamic design and build process that allows for standardization and cost benefits resulting from economies of scale. Efficient, long-term management can be challenging for a growing organization. We build intelligent systems to deliver the information you need, regardless of size.

We can provide a full turnkey or customized solution as needed, including, but not limited to:

- » System Installation
- » Design/Architecture
- » Commissioning
- » Programming
- » Testing
- » OEM Coordination
- » Engineering
- » Emergency Field Services
- » Instrumentation and Controls Specification
- » Low-voltage Cable Installation and Termination
- » Maintenance/Repairs
- » Upgrades
- » Data Acquisition
- » Wired/Wireless Network Design, Setup, and Programming

RECENT PROJECTS

- » Putnam, FL | 74.5 MW
- » Volusia, FL | 74.5 MW
- » Manitowoc, WI | 100 MW
- » Lincoln, TN | 150 MW
- » Washoe County, NV | 200 MW
- » Riverside, CA | 230 MW
- » Chapparal, NM | 100 MW
- » Pueblo, CO | 250 MW
- » Pueblo, CO | 250 MW
- » Clark, NV | 250 MW



ABOUT AFFINITY ENERGY

Affinity Energy is a vendor-neutral control systems integrator with over 4+ GW renewable projects, 2+ GW power and energy projects, and 1+ GW PV+BESS projects completed. The company helps customers throughout the U.S. operate efficiently, safely, and reliably. Founded in 2002, Affinity Energy is headquartered in Charlotte, North Carolina.

VENDORS

ABB

ARRAY
TECHNOLOGIES

FIMER

GAMECHANGE SOLAR
REPOWERING THE PLANET



POWER ELECTRONICS

SAMSUNG

Schneider
Electric

SEL

SMA

TMEiC
We drive industry

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