

# MANUFACTURING PLANT INSTRUMENTATION & CONTROLS

Managing Energy, Quality, Consumption, and Cost



Affinity Energy's dedicated professionals are subject matter experts when it comes to manufacturing facility mission critical infrastructures, and have a diversified portfolio of more than 2+ GW of power and energy projects successfully completed,

Our high degree of expertise and focus on instrumentation, controls, and electrical distribution for manufacturing facilities means we're able to develop systems that provide operators with strategies for peak demand reduction, power quality analysis, standby power, cogeneration, motor management, and cost allocation to manage your unique energy requirements and costs.

## BENEFITS TO YOU

Affinity Energy designs SCADA systems that help **control** electrical loads and **identify** power quality problems that can lead to abnormally high bills or additional manufacturing costs.

Our systems gather the data that makes it possible to **identify** abnormalities and **minimize** the risk of unplanned downtime by proactively addressing issues.

We **optimize** facility operation by trending and analyzing key performance indicators integrated from multiple components and multiple manufacturers.

We **manage** operational energy costs by allocating costs to various equipment and processes and receive process/equipment-specific strategies. The result is increased electricity quality with less consumption and cost.

We start, stop, and adjust set points on essential facility equipment, taking into account process flexibility and production schedules in relation to utility tariffs.

Because we're an open systems integrator, we're prepared to design a **customized** solution that meets your environment's unique production, efficiency, safety, and ROI goals.

## AT A GLANCE

2+ GW of Power and Energy projects

Turnkey solutions

Key performance indicators (KPIs) and benchmarking

Emergency power system testing automation

Text/email of alarms & events

3-year service warranty

Redundancy options

Minority business certified

Small business certified



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ecause of Affinity Energy's solution, we save approximately \$6,000 per month; \$12,000 during the summer months. Without the monitoring and measuring systems Affinity Energy put in place, we would not have the means to even begin making energy saving decisions."

-Maintenance Manager  
Charlotte Pipe and Foundry

FOR MORE INFORMATION, CONTACT

Allan Evora | President

aevora@affinityenergy.com • 704.766.2060 x 110



www.affinityenergy.com



## 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:**

- » Design/Architecture
- » Instrumentation and Controls Specification
- » OEM Coordination
- » SCADA, PLC, and RTU Programming
- » Support and Emergency Field Services
- » Wired/Wireless Network Design, Setup, and Programming
- » Data Acquisition
- » Commissioning
- » Maintenance/Repairs
- » Upgrades



## ABOUT AFFINITY ENERGY

*Affinity Energy is a vendor-neutral control systems integrator with over 4+ GW of renewable projects, 2+ GW of power and energy projects, and 1+ GW of 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.*

## INDUSTRIES SERVED

### Automotive & Machinery

- Caterpillar, IL
- Continental Teves, Inc., NC
- Hella Lighting, SC
- Nissan Corporation, TN
- Toyo Tires, GA
- Visteon Corporation, MI

### Building Materials

- Certainteed Corporation, GA
- Cree Inc., NC
- General Electric, NC
- National Gypsum Corp., NC

### Metals

- California Steel Industries, CA
- Charlotte Pipe and Foundry, NC
- Gerdau Ameristeel, TN

### Paper

- Champion Paper, TN
- Clearwater Paper, NC
- Resolute Forrest Products, SC
- Rock-Tenn, SC

### Pharmaceuticals

- Amylin Pharmaceuticals, OH
- Bristol-Myers Squibb, PR
- Merck & Co., VA

### Plastics

- Berry Global, NC
- GE Plastics, MA
- Honeywell, VA
- Nanya Plastics, SC

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