



POWER ANALYTICS
Foresight as accurate as hindsight.

Paladin® SmartGrid™

Master Controller for Microgrid Management

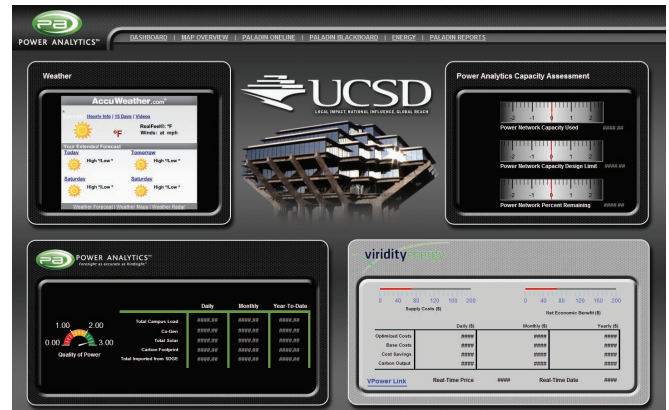
Paladin® SmartGrid™ enables the on-line management and control of “hybrid” power infrastructure incorporating both traditional utility power and on-premise power generation, e.g., co-generation, solar power, wind turbines, battery storage, etc.

Because the unpredictability of alternative energy sources influenced by weather conditions, it is increasingly difficult to ensure the reliability of power systems employing them. So if a facility is attempting to use public utility power as sparingly as possible – i.e. to achieve energy savings and environmental goals – a real-time balancing act is essential to ensure that power systems reliability is never jeopardized.

Paladin SmartGrid is designed for the dynamic nature of alternative energy sources, to meet both energy management goals, and the high levels of availability and reliability. It “remembers” the business and operational goals of a facility (e.g., only use utility power during off-peak hours, except when system reliability falls below 99.99%) and is continually diagnosing system performance in real-time... while making intelligent predictions about how to seamlessly transition from one energy source to another.

By optimizing the power performance of all aspects of a microgrid, Paladin SmartGrid delivers immediate energy conservation and substantial cost savings.

It manages energy consumption on sites employing multiple energy sources, whether they are focused on a single objective – such as minimizing annual energy cost, carbon footprint, peak load, or public utility consumption – or a combination of objectives that vary by time, costs, energy source reliability, etc.



As organizations increasingly seek to supplement their utility power with on-premise power generation, Paladin SmartGrid:

- Serves as a master controller for intelligent microgrid designs, monitoring and electricity trading (i.e., selling power back into the public grid)
- Monitors the microgrid’s power quality, utilization and capacity in real-time, in order to offer excess capacity to the Smart Grid
- Monitors all transactions between public electric service and microgrid infrastructure
- Maintains rate and pricing information for management of private-public exchange

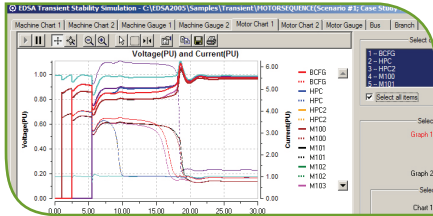


POWER ANALYTICS

Foresight as accurate as hindsight.

Products and Services

Only Power Analytics offers the complete range of products and services required to ensure the success of your complete electrical system design, implementation, and on-going predictive maintenance. Our products are the most proven and trusted in the world... having been selected by thousands of the most demanding customers in every industry to protect more than \$100 billion in assets.



Paladin® DesignBase™ Modeling Platform

Paladin® DesignBase™ is the world's best-selling and most powerful electrical system design and simulation software platform. It gives electrical engineering professionals the means to create a highly-detailed knowledge base of their entire proven network including all target performance specifications. It includes 40 plus modules for fault analysis, arc flash simulation, protection coordination, power flow analysis, and other functions.



Paladin® Live™

Paladin® Live™ intelligently predicts potential vulnerabilities in complex electrical distribution systems. Once on-line, it maintains an uninterrupted, 360° view of power infrastructures, to continually assess the real-time “health” of equipment and systems, by examining the cross-infrastructure dependencies between the electrical distribution system and related business processes.



Paladin® SmartGrid™

Paladin® SmartGrid™ is the first commercially-available software platform designed specifically for the on-line management and control of next-generation “hybrid” power infrastructure incorporating both traditional utility power and on-premise power generation, e.g. solar power, wind turbines, battery storage, etc.



Power Analytics consulting services

Power Analytics' engineering staff – coupled with our external solutions partners – is the world's most experienced team for solving the most daunting Power Analytics challenges. We offer our clients expertise in the toughest electrical engineering challenges... as well as more routine projects such as system modeling and analysis, file conversion, and power systems analysis.



Power Analytics education services

Power Analytics offers a complete range of classroom, on-site, and Web-based training to help customers maximize their knowledge of our products... resulting in their being more productive on the job. Our training programs offer the perfect mix of traditional classroom instruction and practical, hands-on electrical engineering expertise to ensure a productive and beneficial experience for participants.