

Software for Renewable Energy



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Achieve Scalable Sustainable Solutions

In today's world of increased energy use, sustainable alternative energy has become ever more critical. Advanced software technologies help integrate disparate power systems into efficient unified operations. Quickly turn vast amounts of real-time and historical data into valuable information to drive continuous improvement.



Asset Monitoring

Operators rely on real-time HMI / SCADA and condition monitoring to keep equipment at optimal efficiency. Turbine information including wind speed, wind direction, power, blade position, temperature and vibration are instantly data logged, visualized and analyzed.

- Real-time Condition Monitoring
- Visualization, Alarming & Data Historian
- Mobile Notifications & Alerts
- OPC, Modbus, DNP, IEC61400, Web Services

Plant Operations

Integration of equipment, plant and business data into a single unified plant operations' view provides command and control of the energy system. Operators can respond instantly and securely to energy, environmental and business demands. Easily create advanced ad hoc reports that can also be scheduled to view and coordinate operations and maintenance efforts.

- GEO SCADA for 3D Plant-wide Supervision
- Scalable Architecture with Multi-vendor Support
- Dynamic Language Switching
- Smart Grid Integration; IEC61850



Enterprise Management

ICONICS provides role-based analytics and intelligence for anyone in your enterprise. Easily customizable Web portals enable comprehensive personalized visibility of your operations, maintenance and financial information to help make decisions. Visualize your enterprise from anywhere, anytime and on any device.

- Role-based Portal for Analysis & Forecasting
- Enterprise Performance Reporting
- Integrate Financial & Operational Data
- Interfaces with MS SQL, SAP, Oracle, IBM





Rich Visualization and Reporting

Create rich 2D and 3D GEO SCADA visualization and reports with integrated real-time and historical geographical terrain maps, enabling a quick overview of multiple operations and plants located anywhere in the world. Deploy secure and personalized Web portal solutions using ICONICS PortalWorX™ to any browser. Custom ad hoc or scheduled reports can be generated with important operational KPIs to meet business or regulatory requirements.

Predictive Analytics Solutions

Wind AnalytiX™ is based on ICONICS' Hyper Historian™ with its high speed performance and large data volume capability. State-of-the-art Fault Detection and Diagnostics (FDD) technology identifies equipment and energy inefficiencies and provides possible causes that help in predicting plant operations.

Open Standards Connectivity

ICONICS high performance GENESIS64 HMI/SCADA provides a sustainable, competitive advantage. It acquires data from a multitude of open protocols and interfaces, then normalizes all data, independent of source, into a high speed data store. The data can then be calculated, analyzed, trended, recorded and visualized by a wide array of user interface applications.

- OPC Classic & OPC-UA
- Modbus
- BACnet
- IEC61850



Industry Applications

- Wind Farms
- Turbine Warranty Management
- Solar Power Plants
- Hydro Electric
- Tidal Systems
- Bio Gas
- Fuel Cell Operation
- Landfill Gasification

Benefits

- Quickly understand your operations and take action
- Rich personalized Portal and Web browser visualization
- Real-time Historical information helps drive improvements
- Extensive ad hoc and Scheduled Reporting delivered information where and when needed
- Intuitive Analytics help achieve your business strategy

“Create a Sustainable Competitive Advantage”



Founded in 1986, ICONICS is an independent software developer of award winning real-time visualization, data historians, automation intelligence and suite of analytics software solutions. ICONICS products are installed in 70% of the Fortune 500 companies around the world, helping customers be more profitable, agile, efficient and sustainable.

ICONICS is a long time Microsoft Gold Certified Partner and Winner of the very prestigious Microsoft Partner of the Year Award, providing advanced software for many end users and technology suppliers. ICONICS has over 250,000 applications installed in multiple industries.

ICONICS cultivates an international culture of innovation, creativity and excellence in product design, development, technical support, sales and service. World headquarters are located in Foxborough, Massachusetts, USA.

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Further information:

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