

# Renewable Energy Software Solutions



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**iconics**  
Visualize Your Enterprise™

# 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 suite 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**
- BACnet**
- Modbus**
- SNMP**
- 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, HMI/SCADA, manufacturing intelligence, building automation and energy/sustainability solutions. With over 250,000 installations worldwide, ICONICS products are used in automotive, building automation, oil & gas, pharmaceutical, renewable energy, utilities, water/wastewater, and many other applications.

ICONICS, a long standing Microsoft® Gold Certified Partner, utilizes the latest Microsoft technologies and is proud to be the winner of multiple awards for technology leadership. This includes receiving the 2012 Microsoft Sustainability Partner of the Year Award.

ICONICS cultivates an international culture of innovation, creativity and excellence in product design, development, technical support, sales and service. This has resulted in market leadership in advanced visualization, analytics, productivity and sustainability solutions. The company is headquartered in Foxborough, Massachusetts, USA with offices throughout the United States, Europe and Asia.

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## Further information:

[www.iconics.com/renewables](http://www.iconics.com/renewables)



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