

monarch/SGP™

monarch Smart Grid Platform

As the world enters a new era of energy consciousness, electric utilities are faced with high cost and scarcity of energy, ageing infrastructure for delivery, environmental considerations, and a more empowered consumer. Over the next couple of decades, utilities will tackle enormous challenges and capitalize on opportunities never before experienced.

In managing such a new environment, where the decision making processes are magnitudes of order more complex and require the consideration of many thousands or millions of variables, an intelligent approach to Electric Grid operation is a necessity. No longer can the systems, methodologies, and information infrastructure that were designed and implemented decades ago handle the unprecedented challenges of the new millennium. The latest approaches in holistic management of the Electric Grid from supply, transport, delivery, and consumption, have been coined "Smart Grid" or "Intelligent Grid" initiatives.

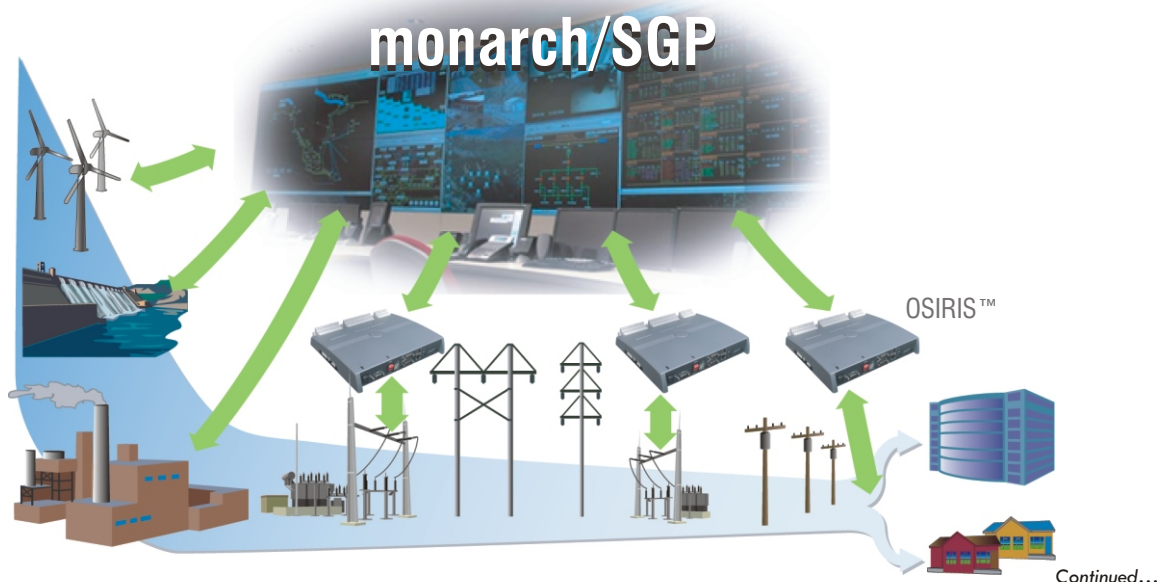
If executed properly, the Smart Grid Initiatives will quite possibly become the foremost engineering achievement of the 21st century.

Open Systems International, Inc. (OSI) recognizes the opportunity to assist utilities in their mission to implement a smarter power grid. Workforce productivity, improved

customer satisfaction, optimized outage management, efficient distributed generation, improved asset utilization through condition monitoring and predictive maintenance, as well as improved return on investment for stakeholders are just a few benefits to be realized.

To help utilities embark on this vision and the road to a fully functional intelligent energy delivery network, OSI has introduced a new version of its popular **monarch™** (multi-platform open network architecture) platform for Smart Grid operations.

monarch/SGP™ (monarch Smart Grid Platform) offers a solid, reliable and highly scalable platform designed for utilities investing in Smart Grid initiatives. This secure, high performance platform, depicted below, is designed to analyze millions of data points in real-time from all levels of the electric power supply chain, whether it's generation or end-user consumption. In addition to SCADA, EMS, GMS and DMS applications, **monarch/SGP** supports third party solutions, such as Advanced Metering Infrastructure (AMI) and Outage Management Systems (OMS). At the same time, system administrators can flexibly manipulate and develop their own tools with the use of the industry's most common Application Programming Interfaces (APIs) and Service Oriented Architecture (SOA).



OSI

www.osii.com

monarch/SGP Overview

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monarch/SGP converges on three independent areas of the Smart Grid core technologies:

- Hyper scalability is built into the platform to support up to tens of millions of data measurement points necessitated by a fully integrated grid.
- Expanded communications and interfaces are supported for a wide variety of new devices, such as Smart Meters and Phasor Measurement Units, as well as home automation and enterprise integration adaptors.
- Advanced analytics, business intelligence applications and Microsoft® .NET-enabled user interfaces support asset management, resource optimization and increased visibility into all levels of the grid.

monarch/SGP's decision making tools rely on the next generation of data presentation features, from fully-configurable dashboards, programmable widgets, real-time and historical trending to Excel-style filtering and report generation. Network operators, corporate executives and system administrators now have a wealth of information at their fingertips.



Dashboard/screenshot image

In addition to the **monarch/SGP**, OSI's **OSIRIS™** is an innovative and highly interoperable field measurement and control device that supports multiple communication protocols to transmit grid information to network operators. **OSIRIS's** unsurpassed functionality and built-in security features set a new standard for remote telemetry.

OSI prides itself on delivering flexible, reliable, open, user-friendly, innovative, and secure automation solutions for monitoring, control and optimization of utility operations. With a satisfied customer base and the ability to adapt to changing industry requirements, OSI is now poised to assist utilities around the globe in their mission to implement Smart Grid initiatives.

For more information, please visit www.osii.com.

OSI is a part of the GridWise® Alliance, a consortium of public and private stakeholders who are aligned around a shared vision. A vision of an electric system that integrates the infrastructure, processes, devices, information and market structure so that energy can be generated, distributed, and consumed more efficiently and cost effectively; thereby achieving a more resilient, secure and reliable energy system. The Alliance members recognize that emerging energy and information technologies have the potential to radically improve the efficient use of the nation's energy system. The Alliance and its members advocate change locally, regionally, and nationally to promote new policies and technology solutions that move us closer to this vision.



For more information, please visit www.gridwise.org.