



# Success Story

ICONICS · 100 Foxborough Blvd. · Foxborough, MA 02035 · 508.543.8600 · www.iconics.com

## Industry: Oil and Gas Production

### Customer: Large International Integrated Energy Co. West Coast, USA



**Large International Integrated Energy Company**

A Large International Integrated Energy Company (LIIEC) with over \$100 billion in annual revenue is a global energy enterprise developing vital energy resources in over 180 countries around the world and is a world leader in oil exploration and production. The USA ICONICS managed oil field has in excess of 3000 drilling wells that are using WebHMI software to monitor oil well performance, production analysis and maintenance operations.

### ICONICS Software Deployed

The Genesis32 product is installed using the following modules: AlarmWorX Multimedia, TrendWorX SQL Logging Option, and AlarmWorX SQL Logging Option, Pocket Genesis and WebHMI.

### Key Features

Modicon and Allen Bradley PLC's are used to monitor and control Steam plants, Sulfur plants, Oil Pumps, and Oil Storage in the West Coast Business Unit of LIIEC. Genesis32 and WebHMI are used to monitor the status of all I/O and provide Human Machine Interface for all areas. The Open Connectivity provided through OPC enabled WebHMI allows LIIEC to easily provide process data, graphics, and trends with live data for any qualified user via the Web.

### Project Summary

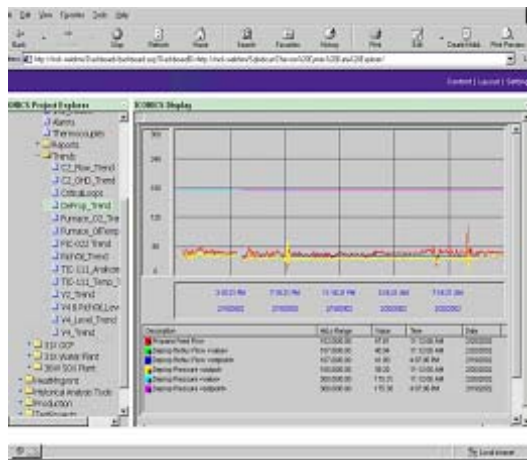
LIIEC installed ICONICS GENESIS32 product suite of tools to deliver data from any LIIEC Business Unit facility, in the entire Western US area, to any user anywhere within the LIIEC Intranet. In the West Coast Business Unit there is a total of six major oil fields with numerous facilities controlled by Modicon and A-B PLC's. Genesis32 and WebHMI and various OPC Servers present the data from all of these systems to LIIEC users via the Web. A pilot system was installed at one of the LIIEC oil fields. There are currently 5 Genesis32 systems and 2 WebHMI Servers with 50 Client Licenses in use. Pocket Genesis and AlarmWorX32 Multimedia will be used to provide wireless access and notification for operators in the field. Approximately 15,000 I/O tags are monitored and controlled through these systems.



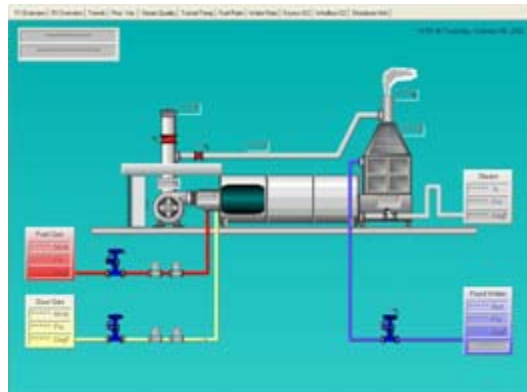
**LIIEC Oil Rig Unit**



**LIIEC Ocean Rig**



**Steam Production Trend**



**Steam Plant Overview**



**Alarm Summary Display**

## Trending and Logging

Local Operators, Supervisors, and Technical Management staff view Trend Data from the entire system via an ICONICS WebHMI Server using GenBroker routing over their Wide Area Network. Users can view daily, weekly, and longer trends as needed to manage the flow of oil through the plants and into the distribution and storage network.

## Alarm & Event Archiving to MS SQL Server

In addition to viewing real time alarms and system faults Microsoft SQL Server is used to record all Alarms, Events and Operator Actions for long term alarm archiving and alarm reporting. Several local Operator Stations are equipped with the ICONICS Multimedia Alarm Notifications Option software so that supervisors and operators may be notified via Alpha-Numeric Pagers and telephones when critical systems require immediate attention.

## Centralized Management and View-Only Access via Genesis32 and WebHMI

LIIEC uses WebHMI to provide view-only access for management and supervisory personnel. WebHMI, running on Windows 2000 and Internet Information Server from Microsoft, provides real-time OPC Data for the view-only screens. Benefits of the system include faster responses to equipment shutdowns through a more automated notification process with AlarmWorX Multimedia. Another benefit is increased generator energy efficiency through Trend Analysis and Remote Monitoring.

## Quote From the Customer

"Users are really impressed with the Trend and Alarm Analysis capabilities. Web capabilities are the same as SCADA System capabilities, too. The product is completely built on OPC Standards, making integration with other OPC products simple."

**LIIEC Facilities Engineer**

## Conclusion

ICONICS has worked closely with LIIEC to make this Oil Field Data Collection project successful in every aspect. LIIEC participates in the Large End-User Support and Maintenance program to keep its software updated and for access to technical support personal as needed. Rapid Graphic development, easy Web Publishing and zero-install clients for web Access were key consideration features during LIIEC's decision-making process.