



Power generation facilities in Ontario, Canada



Customer Success Story

Ontario Power/Hemi Controls Ontario, Canada



Hemi Controls Control Screen

About Ontario Power/Hemi Controls

This large utility plans to upgrade its generating stations over the next few years. They selected Alstom Canada as the supplier for the modernization of this generating station. Alstom teamed with Hemi Controls Inc., a system integrator in Montreal Quebec to develop this large and modern control application. Hemi Controls Inc. is a systems integrator, which focuses on providing unique turnkey applications using primarily GENESIS32 for its SCADA/HMI applications. Some of its latest projects have been in the hydroelectric generation area where Hemi's unique approaches are being used by international companies such as Alstom to provide integrated SCADA applications.

ICONICS Software Deployed

The software is comprised of GraphWorX32, AlarmWorX32, TrendWorX32 MSDE, ScriptWorx32, OPC Datamining, and Modbus OPC to communicate with the 12 Modicon PLCs in the generating station. Supervision and operations of thousands of points at the central computer is made simple with two large flat panel screens.

Project Summary

The generating station being modernized has a production capacity of 240MW. The system is comprised of one main computer supervising 8 generators including plant services equipment. There are 10 local control stations one for each unit, running on industrial type computers deployed with GENESIS32.

Sales and support of these projects has been supplied by West Isle Industries Ltd, serving ICONICS customers for the past 15 years.

Project Summary

Because of the unique requirements for this project, the new OPC driver for "data mining" in the Unified Tag Browser within GENESIS32 (which allows database write and read connections using standard SCADA graphics to a Microsoft database) is being used extensively in this application providing unique possibilities in the access to information throughout the generating station and also from remote sites. The control systems for this generating station are provided by Hemi Controls with some of its unique control software for hydroelectric generating stations and generator simulation software, which are used for detailed testing and system acceptance.

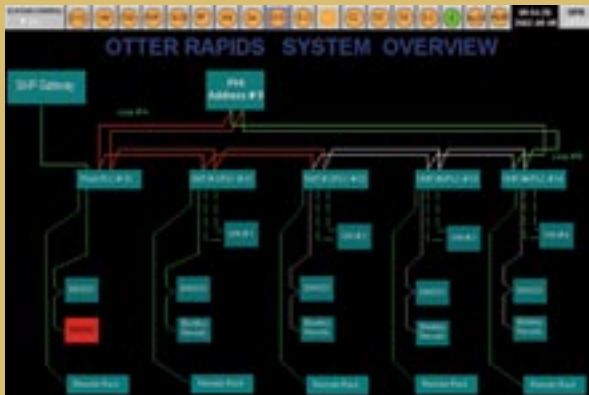
Key Features

- OPC Connectivity
- Data Mining
- GENESIS32 Unified Tag Browser
- Easy to Configure Graphics
- Robust Alarming and Trending

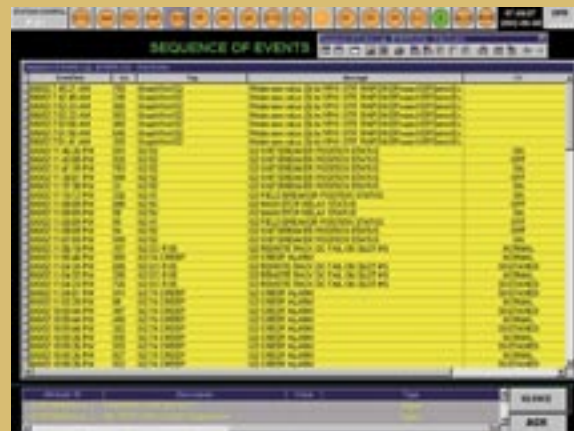
Product Highlight



GENESIS32 is designed from the ground-up to take advantage of multiple Microsoft Windows operating systems including Windows Vista, Windows XP, Embedded XP and more.



System Overview Screen by Hemi Controls



Event Summary Screen

Conclusion

GENESIS32 has also been selected for implementation of a main control center for Ontario Power Generation and will be installed in another 13 hydroelectric generating stations with a production capacity of 1,266MW's over the next few years.

Product Highlight



ScriptWorX takes maximum advantage of VBA 6.0 multi-tasking and multi-threading capabilities. Users can simultaneously perform calculations, manage databases, and execute any operation available in the VBA language to access reports or perform recipe operations. ScriptWorX32 also comes with a powerful Script Wizard function that aids in the code creation of commonly used scripts.