



A Rockwell Automation Company

## AEC Oil and Gas Hythe Gas Plant

### The Client:

Alberta Energy Company Ltd. is one of Canada's largest oil and gas companies. Its upstream exploration and production activities are complemented by midstream investments in pipelines, natural gas storage, and gas liquids processing which provide

additional solid income. The company is committed to the principle of sustainable development, which has the combined goals of economic growth and environmental protection.

### The Requirement:

AEC Oil & Gas wanted to carry out a SCADA host replacement at the Hythe Gas Plant. This project was in response to the new British Columbia based well site RTUs being monitored during the evening hours by Hythe Gas Plant operators. With this replacement of the Hythe system, it was desirable to review current hardware and software platforms to determine if these system components met the corporate requirements for

“Today” and “Into The Future” for the Hythe Gas Plant. In carrying out this project, it was important that detailed engineering specifications be declared to collect the various AEC Oil & Gas stakeholders respective needs, wants and future desires to be included in the data that was gathered

### The Design Solution:

Hinz made an initial site visit to obtain details on the existing system. After review and consultation with AEC personnel, it was determined that a FactoryLink system would best fit with the plant's current HMI, also FactoryLink. As a result of discussions, AEC Oil & Gas decided to upgrade their SCADA system at the Hythe Gas Plant. Their existing proprietary DATEK host was replaced with a Windows NT PC running FactoryLink.

This project reviewed the current radio structure and determined that three radio channels would improve communication system efficiency. Hythe personnel also wanted to maintain their existing Modbus link from their current HMI to a PI database computer. In order to accommodate this, a special Modicon RTU Modbus Slave driver for FactoryLink had to be utilized. The PI database was being used to store historical field data. Upon implementation of the new

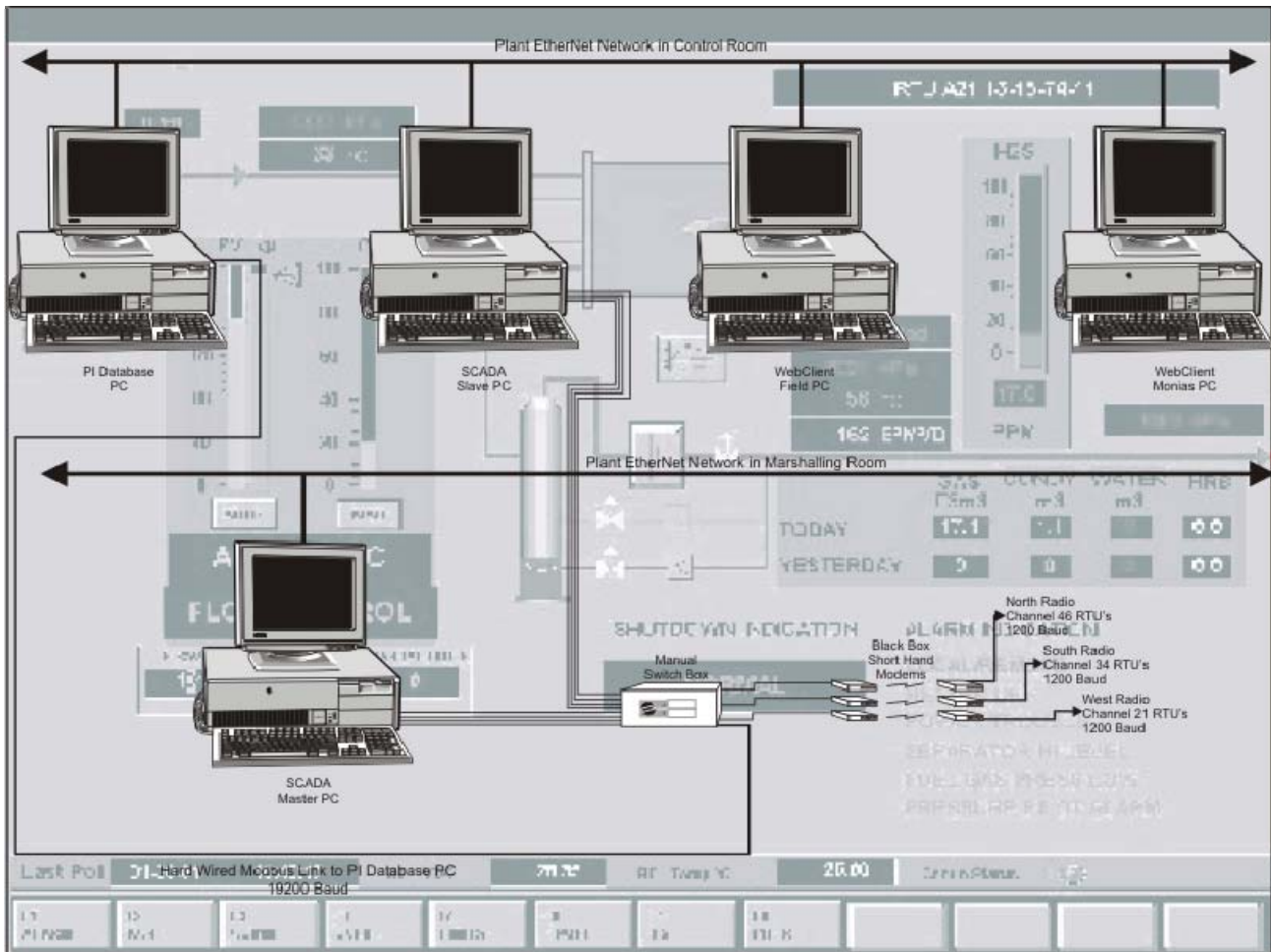
host, Hinz was able to show the field personnel how that data could be stored historically in the ROC and gathered only once a day, thereby providing more accurate historical data. ROC type standardization was then developed by Hythe field personnel, followed closely by the development of graphical standards. The system was built and tested in Calgary, with Hythe personnel performing a Factory Acceptance Test before it was shipped to the field.

AEC Oil & Gas operations was pleased with the results of the host replacement. While the original thrust of the project was to replicate the original control system, the enhanced graphics, reporting and trending provided with the new FactoryLink system made the control system easier for the operations staff to operate.



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For further information or to contact a Hinz office near you, please check our website at:

[www.hinz.com](http://www.hinz.com)