

Company: Lafrage
HOLCIM

Location: Chekka

Country: Lebanon



Solution
Partner

Automation
Drives

SIEMENS

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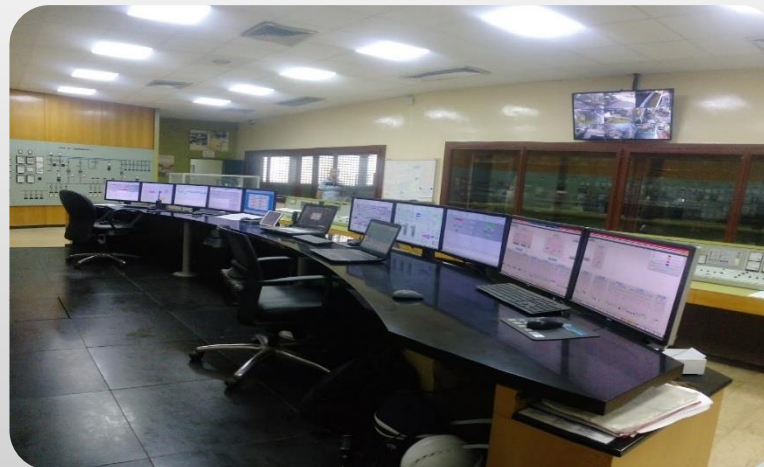
Replacement of several old independent control and monitoring systems with one main SCADA System.

REQUIREMENTS of the customer:

- Full SCADA renovation for the Power Plant , replacing old system and including new features.
- To supply and commission the new system.
- Replacement of old S7-400 PLC with new S7-400H, Redundant.

BENEFIT of the customer:

- Siemens automation system used was based on Simatic S7-400H, That will eliminate shut down time and provide high availability.
- Individual computers were used, with new system the database is centralized.
- It is possible to reduce operational costs, as system is fully automated and doesn't require any personal intervention, reports are generated automatically.
- It is possible to reduce maintenance costs, by using highest product quality, fault detection and event logging that allows to trace problems causes. Most of analog signals are archived.



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System.

1. Including Y-link system to be able to link already found IOs to a redundant PLC Profibus Network.
2. Including Additional Remote IOs to monitor the temperature of Generators bearing temperature , and replacing old Modbus based remote IOs.
3. Supply of 2 main Siemens IPC servers with 3 24" screens for each, with Siemens WinCC 7.3 redundant servers configuration
4. Supply of VGA extenders to install the screens far away from IPC IT cabinet.
5. Replacing old scada Systems from ILTIS and BJORGE with newly developed screens in WinCC .
6. Supply of Client Laptop.
7. Supply of Web based interface to be able to monitor the system through IPAD and smart phones for 5 users, based on Siemens WebUX.
8. integration of Bacnet communication in WinCC through OPC server.
9. Integration and commissioning of newly installed temperature sensors, flow meters....
10. Re-wiring of complete new profibus network .
11. Additional Works: supply of new counter desk to accommodate up to 12 Screens , with completely new platform.



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Implementation:

- To deliver a full control , and monitoring system.
- Continuous Support and availability , guaranteed know-how to be provided by the SP.
- Product Quality, full integration, easy to configure.



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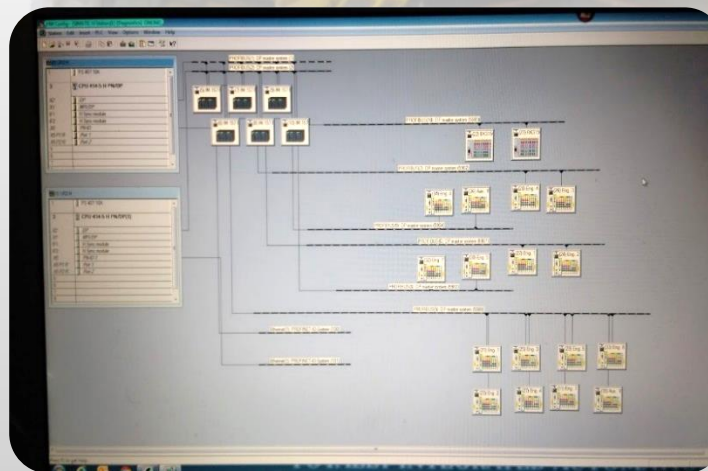
Power Plant SCADA System

Replacement of several old independent control and monitoring systems with one main SCADA System.

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