Specificities

- 53 substations spread over 58 km of line (BSS / TPSS / UB)
- 51 Siemens S7400 PLC, 1 redundant WSP solution, 145 network switch
- 22,450 I / O (15,988 Wired - 6,462 Modbus) for 3,872 devices
- Migration of 3 substations, 2 commissioning phases

Mission

- Support Colas Rail and leader in Power SCADA activities
- Carry out the design studies of the PSCADA (PLC / SCADA / NETWORK)
- Obtain SIL2 certification in accordance with EN50128: 2011
- Programming the S7-400 PLCs in PCS7
- Program the SCADA system under WSP
- Complete T&C activities related to PSCADA

Industrial engineering

Automation / SCADA System

Cyber Security

Testing and Commissioning

Context

The Klang Valley Mass Rapid Transit (KVMRT) project involves the construction of a public rail transport network comprising three lines. The MRT, along with the existing urban rail network, will form the backbone of the public transport system in the Greater Kuala Lumpur / Klang Valley area. Colas Rail is responsible for supplying the energy production and distribution system.

Customer chain
Colas Rail – MRT Corp

Sector
Railway

Industry field
Power SCADA

Project duration
5 years

Softwares / Skills
- Siemens PCS7
- Wonderware (WSP)

Com. Protocols
- IEC 60870-5-104
- Modbus TCP/RTU
- S7 Communication
- ProfiSafe