

## Subang Jaya Main Town Centre Substation Kampung Subang Substation

The substation is located in Subang, in the southern suburb of Kuala Lumpur. It is a so-called "Temporary Substation" because of short-term installation for a few years only. Therefore its build in a container and the switchgear system is GIS type made.

The station consists of one 132 kV GIS incoming feeder, a 90 MVA Power Transformer 132/33kV, the 33 kV GIS with Single Busbar, 1 Distribution Transformer Feeder and 5 Line Feeders.

The given requirements to inCONTROL Tech Sdn. Bhd. (formerly know as VA TECH SAT Sdn. Bhd.) for the Substation Automation System (SAS) were on highest environmental protection such as EMC and temperature. The control equipment is directly mounted in the container beside the 132 kV incoming feeder and the 33 kV outgoing feeders. The delivery time was 4 months only.

The system consists of 1 operator station SAT 250, 1 station control device SK 1703 and bay control modules AM 1703 for each feeder. Protection relays are Reyrolle type such as Argus, Duobias-M and Solkor-RF.

Station controller and operator work place are connected via Token-Ring LAN, while communication between station controller and all bay control units are performed on a redundant fiber optic high-speed field bus in star configuration.

The Substation is fully remote controlled through WISP+ protocol connection to the National Load Dispatch Center.



Figure-1: Subang Jaya Main Town site before commissioning