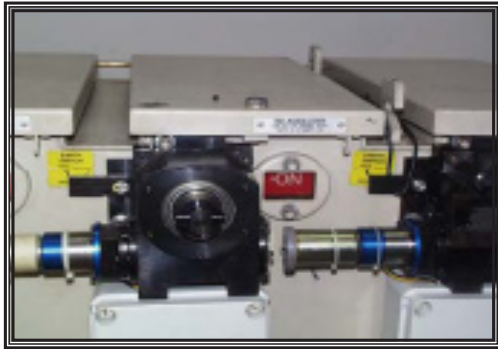




R&D Fund Project

Development And Implementation Of PE RMU Switchgear Automation System For TNBD Gebeng Industrial Area, Penang, Perak, Selangor, Putrajaya And Metropolitan KL



RMU Retrofitting/Motorization

Project Overview

In order to improve customer service and minimize supply interruption time, TNB Distribution (TNBD) has plans to implement a full SCADA/DA system, which consists of Feeder Automation system with SCADA functionalities that is extended to the P/E substation. MV switchgear automation (RMU Retrofitting/Motorization) is one of the main components of the Feeder Automation system, which is to reduce the outage time in the case of a fault. With the switchgear automation functionality and SCADA system, remote

monitoring and operation of each feeder switches and circuit breakers can be performed.

Retrofitting is a cost-effective way of adding automation capability to the existing RMU's compared to refurbishment or replacement of the switchgear. The installed system currently operates as a standalone system that will be interfaced with TNB Distribution SCADA system in future. The retrofitting or motorization of the RMU involves the installation of switching mechanism and control system to the existing installed RMU's, which can be used to simulate the human action of performing the switching operation remotely. Retrofitting for Tamco (OLU & HFU) and EPE Rokss was internally designed and developed by TNBR.

Deliverables

- Completed pilot RMU Retrofitting/Motorization at Gebeng Industrial Area, Penang, Perak, Selangor, Putrajaya and Metropolitan KL.
- Establishment of technical specification on "Motorization Devices and SCADA Facilities for RMU Distribution Switchgear."

Benefits:

- Reduce customer breakdown time.
- Reduce accident risk to TNB personal.
- Reduce TNB O&M cost.
- Potential capital investment saving.