

Electricity Authority of Cyprus (EAC)



A cost effective automation solution for EAC

As part of a strategic move towards network enhancement, EAC required an effective automation solution to be implemented in key strategic points of their urban underground and rural networks.

The Requirement

The communication protocol between the Master Control System (MCS) and the RTU was specified to be IEC 60870-5-101, with unsolicited messages over their GSM network. EAC required a retrofitable actuator solution compatible with Lucy Switchgear equipment and third party ring main equipment for their underground network.

Solution

For the rural network... The Rapier RX range provided a cost-effective solution for open point, mid circuit applications and routine operational switching for the overhead networks.

The first shipment to Cyprus included Rapier RX-RC remotely controlled switches equipped with the Gemini-RTU, fault passage indicators and VT's. In addition 30 RX-M (24kV, 400A, 12.5kA/3s air break manual disconnectors) supplied with double acting spring mechanism (DASM) for fast open and close switch operation were commissioned. The DASM provides EAC with the option of upgrading all their devices to be remotely controlled in the future.

For the urban network... Lucy Switchgear supplied double and single retrofit actuator kits for existing Lucy FRMU, EOS and Long & Crawford T4GF3 and J3/4. All the above were interfaced to either the Gemini Remote Terminal Unit (RTU) or a third party RTU. In addition EAC was provided with a universal Gemini-RTU configurator to programme the RTU's.

To ensure system compatibility with the chosen vendor, Gillam Fei Lynx SCADA/DMS, Lucy Switchgear worked closely with the MCS vendor to prove the IEC 60870-5-101 protocol covered the GSM network.



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