SciFlair
Security . Automation

STREET LIGHT FEEDER MANAGEMENT SYSTEM

REAL TIME TRIP REPORTING

FAULT CABINET LOCATION

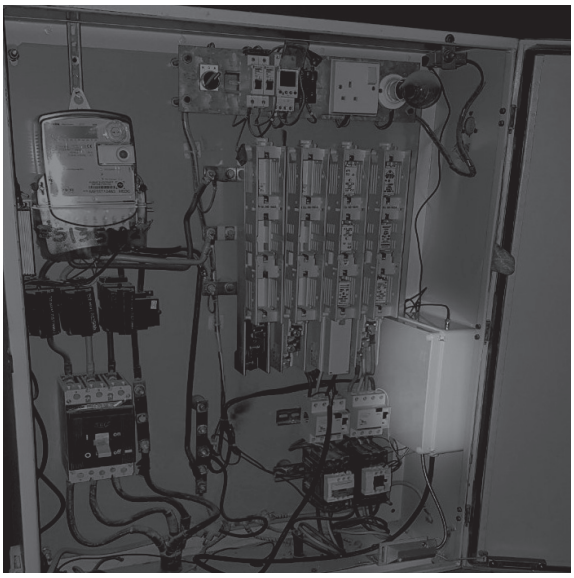
REMOTE STREET LIGHT CONTROL

REAL TIME LOAD CALCULATIONS

CABINET OPENING ALERTS

MAGNETIC DOOR LOCKING

FLEXIBLE AND SCALABLE



Street Light Feeder pillars supply power to tens of street lights connected in a loop. Each loop has protection circuitry which trips at times due to faulty lamps, line overloading or other short circuit related issues. When it happens, the whole street blacks out. Authorities remain unaware of the incident until a member of the public complains and then a team is sent out to resolve the issue. It does happen at many occasions that the exact location of cabinet is unknown and multiple feeders pillars have to be checked to identify the cabinet at fault, especially if the team attends in the day time when all street lights are OFF.

Normally street lights operate from dusk to dawn. Traditionally they are controlled by electromechanical timers installed inside every feeder pillar. There is an electricity meter installed inside the cabinet which is read and managed by third party companies. It is not practical to lock feeder cabinets due to the need of multi party access needed at all time. As a result, these cabinets are prone to vandalism and unauthorized opening by the members of public.

SciFlair has developed a solution based on its SX142 expansion board and SM01 Communication modules. A purpose built web based application uses Axino cloud to report RCD trips in real time and send email and SMS text alerts to the concerned team along with the fault location information. Door contact sensors and SMS operated magnetic door locks are integrated to report cabinet opening and closing times, and prevent unauthorized access. Authorities can remotely implement various light ON/OFF policies in different areas and set timings remotely from the software to lower the power consumption and reduce costs. The software logs the actual ON/

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