

## ABSTRACT

When one among the three-phases of a system gets lost, it may cause a phase loss. This type of loss is referred as a 'single phasing' and it is caused by a lightning strike, broken power line, or mechanical failure in switching equipment. This advanced system monitors the power failure. We have R, Y, and B as three phases, when there is a failure in one among the three phases this system alerts the authorized person through an SMS. This IOT based system is connected to the GSM module for configuration purpose. This system indicates the power failure by displaying the value of voltage on the LCD display. Then this system alerts the authorized person by informing about the disconnected phase through an SMS. When the power is re-connected to the system, it informs that the phase is working fine through a text message, to the authorized person's mobile number. This is the way by which the authorized person gets notified about the power failure and he can take the necessary steps to solve the issue.