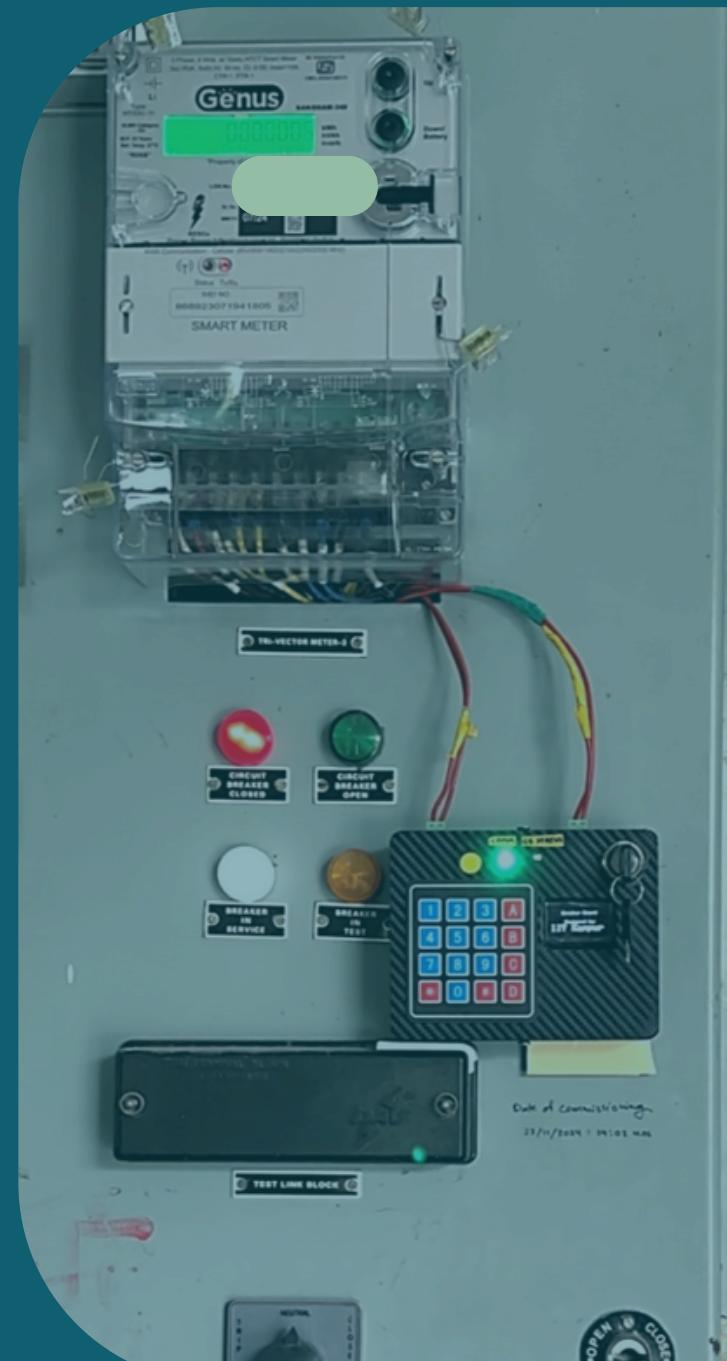
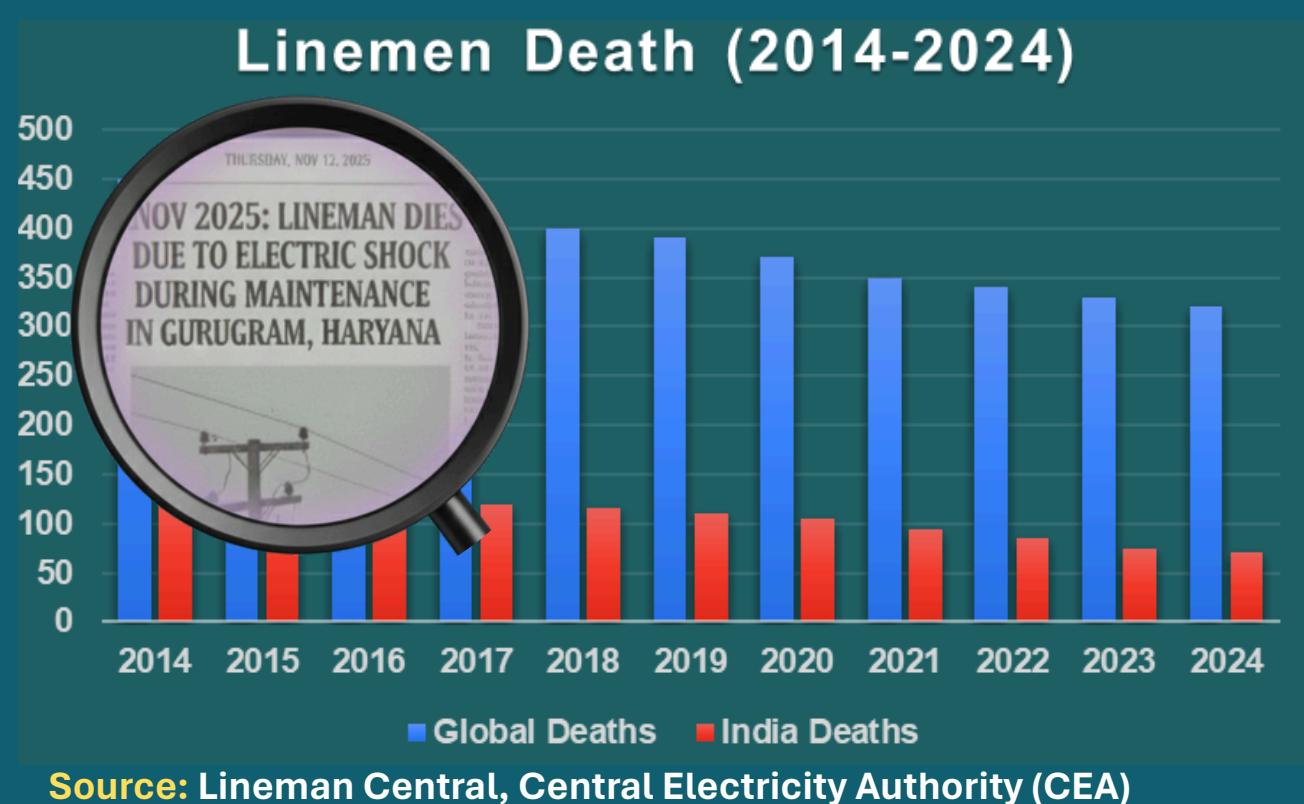


SAVING LINEMEN LIVES

BREAKER GUARD - 100 % Made in India Solution from IIT Kanpur

Problem

More than 1000 linesman lives lost in the last decade, 70 alone in 2024 due to accidental/ unauthorized switching of power in substations. Lineman accidents still occur because someone unknowingly switches the power ON during repair work.



Breaker Guard



Patent No. 202411068969

Under pilot in
5 districts of Uttar Pradesh

Solution

IoT-based access grant system prevents unauthorized operations of circuit breakers during maintenance activities



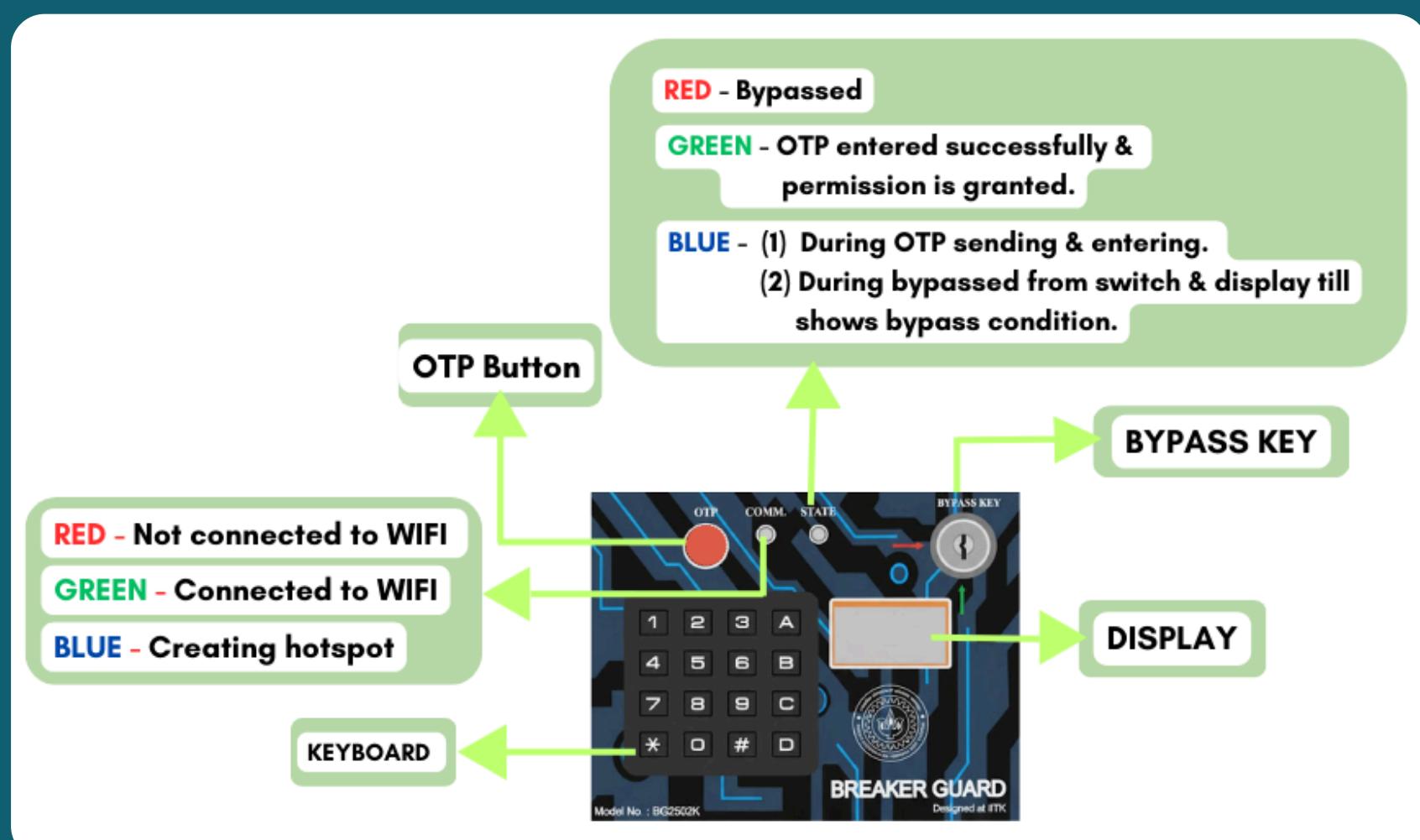
Commercialization Partner

DURASOL®
Energi

LET'S IMPROVE THE QUALITY OF LIFE

Key Features

- OTP-Based Access Control
- Breaker Freezing Mechanism
- Reset Switch & Bypass Key
- Breaker ON/OFF Status
- GSM + Wi-Fi Connectivity



Transforming Substation Operation

- Eliminates human-error switching
- Ensures life-saving lockout during maintenance
- Brings full accountability with digital logs

Secure Operation

Workflow

Junior Engineer
(Issues Task)

Junior Engineer
(Assigned lineman)

OTP Generation (System Generates)

Lineman
(Receives OTP)

Work Done
(Lineman Informs JE)

Breaker Guard
(OTP Entered)

Breaker Unlock
(Safe Operation)



SAFETY

Prevents accidental switching during maintenance, eliminates miscommunication, and ensures complete protection for workers on the field.



AUTHORIZATION

Breaker operation is locked until a secure OTP is entered, ensuring that only authorized personnel can restore power.



MONITORING

Real-time status tracking with GSM and Wi-Fi connectivity for seamless data flow and transparent remote monitoring.