

INDIA'S LARGEST
PROJECT FOR THE
UPGRADATION OF
STREET LIGHTS OF
DELHI

LIGHTO

Centralized Street Light Control



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Lighto is a complete web based server solution with advanced communication design and easy integration to existing installations. A centralized solution is easy to implement and requires less equipment and fewer man-hours than a pole-based solution. The solution features:-

- 1 • *Central control*
- 2 • *Complete monitoring*
- 3 • *Dimming*
- 4 • *Remote Metering*
- 5 • *Power quality metering*
- 6 • *Voltage stablization*

Cost savings

Lighto is a solution that perfectly combines lowered costs and less emission without compromising quality and safety. Energy and cost savings result from:-

- 1 • *Dimming at off-peak traffic hours*
- 2 • *Reduced maintenance costs*
- 3 • *Burn hour optimization*

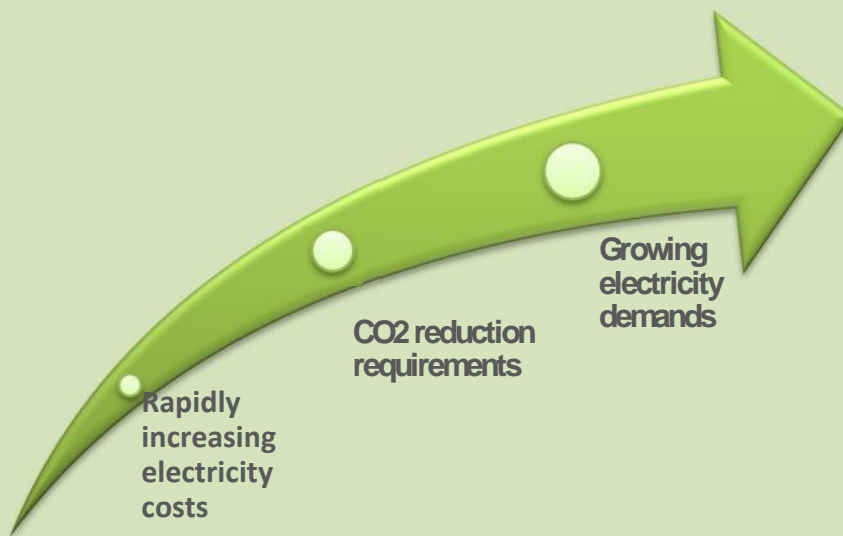
Advantages

A turnkey Lighto solution enables detection of significant errors in the Feeder Pillar and provides energy savings of up to 35%. Key advantages of a centralized solution include:

- *Burn hour reports for proactive bulb change*
- *Feeder Pillar fault monitoring*
- *Automated reading of digital power meters in Feeder Pillars*
- *High up-time and immediate fault rectification*
- *One central photocell ensuring uniformity*
- *Improved quality of light*
- *Simplified maintenance*
- *Real-time control*
- *Load balancing*
- *Area-specific settings*
- *Fast reaction to special traffic or weather conditions*

CO2 REDUCTIONS

Reducing the costs and CO2 emissions of streetlights is a necessary challenge for most utilities and distribution companies who face:



Solution type

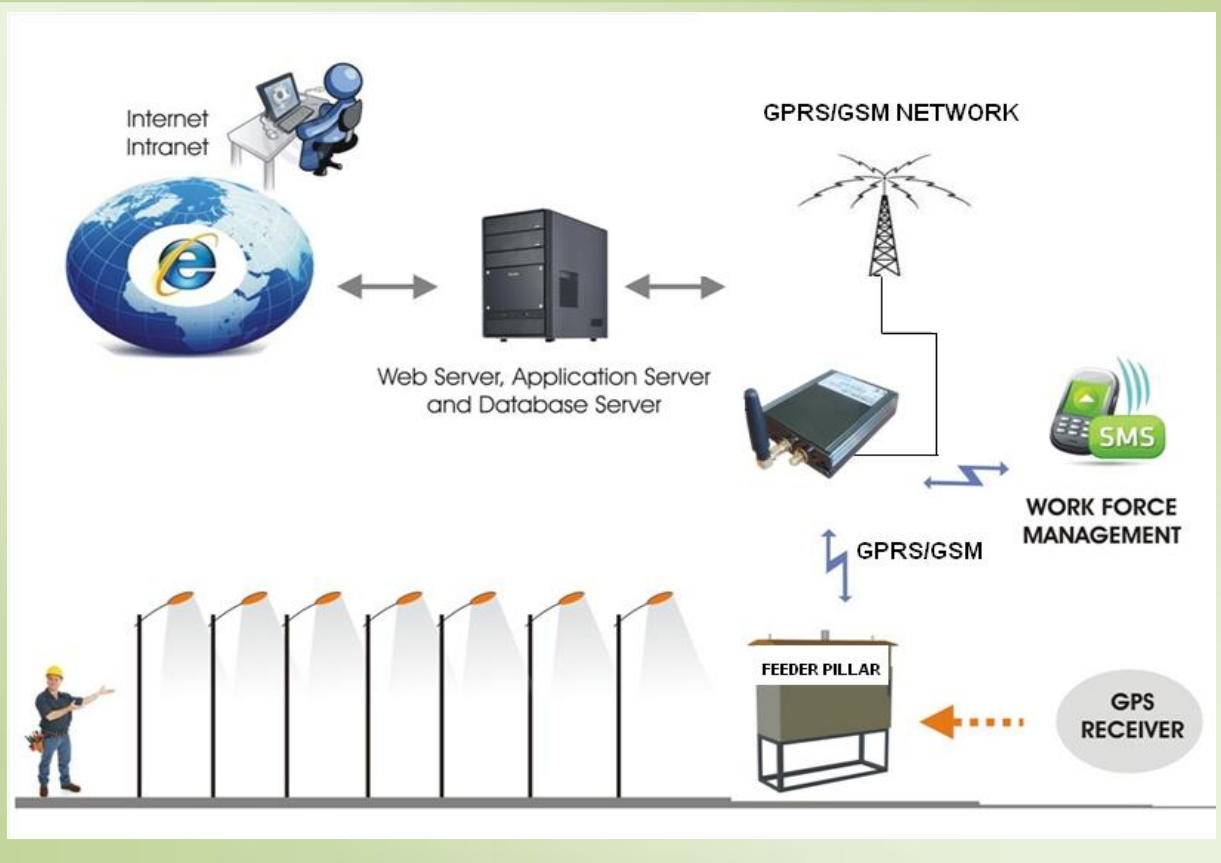
Simple control

Many of our clients request a centralized solution that provides on/off control for burn hour optimization, simplified maintenance and a remotely operated system. The typical gain is an installation that is easy to operate and maintain and energy savings of 8-10%, even without dimming.

Dimming

For clients who focus on energy savings, we recommend our dimming solution. These clients often have roads with much differentiated traffic patterns where it makes good sense to dim during off-peak traffic hours. Centralized dimming provides savings of 25- 35% energy

Lighto System Overview



Benefits:



- Programmable Real time operation of Street lights with Sunset and Sunrise time.
- Dimming at Off Peak Hours
- SMS to Maintenance Field staff on event of faults
- Theft Control detection
- Remote energy Metering
- Report of Operating and Non operating Lamps
- Option of single Photo cell connected to Control station
- Power quality analysis
- Consumption Alarm
- Fast reaction to traffic and weather conditions
- Burn Hour report
- Simplified maintenance
- Real time Control
- Load Balancing
- Neutral Break fault Protection
- Area Specific Settings
- Automatic Report Generation for Day/Month/Year

Fault Detection:

The Monitoring system enables the client to fully monitor all the faults and critical conditions in the Feeder pillar.

When the fault is detected, a SMS is sent to the concerned staff for the maintenance and at the same time is logged at the central station.

Some of the faults which can be monitored:

- Over/under voltage
- Mains Breaker Trip
- Contactor fault
- Outgoing MCCB Trip
- Circuit phase errors
- Mains Power failure
- Leakage to Ground
- Manual switch activated
- Phase unbalancing
- Phase current out of range
- Feeder Pillar door open
- Bulb Failures
- Flashing Bulbs
- Power Theft
- Neutral Failure
- Low power factor



We have executed the largest project for the up gradations of STREET LIGHT OF DELHI

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DELHI INTEGRATED MULTI MOD TRANSIT SYSTEM



PUBLIC WORKS DEPARTMENT



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