INDIA IOT SOLUTIONS - SMART LIGHTING

INTELLIGENT LIGHTING FOR SMART CITIES

TATA COMMUNICATIONS PROVIDES IOT BASED SMART LIGHTING SOLUTIONS THAT OPTIMISES STREET LIGHTING AND CONSERVES ENERGY

Lighting makes up a sizeable part of total energy consumption; however, a large part of this energy is wasted. Energy conservation is a significant sustainability concern — both for the environment and for organisations seeking to manage resources efficiently.

With Tata Communications' Smart Lighting Solution, organisations can take control and minimise energy wastage through remote management of street lights. Reduce downtime and prevent theft by proactive maintenance alerts and asset location monitoring of street lights.

INTELLIGENT LIGHTING
Our Smart Lighting Solution enables two-way communication between street lights and the command centre, giving organisations unified control of widely distributed street lights.

END-TO-END SOLUTION
We provide comprehensive Smart Lighting Solutions, which includes IoT enabled sensors, our robust IoT platform and feature-rich applications, connected through our PAN India LPWA Network.
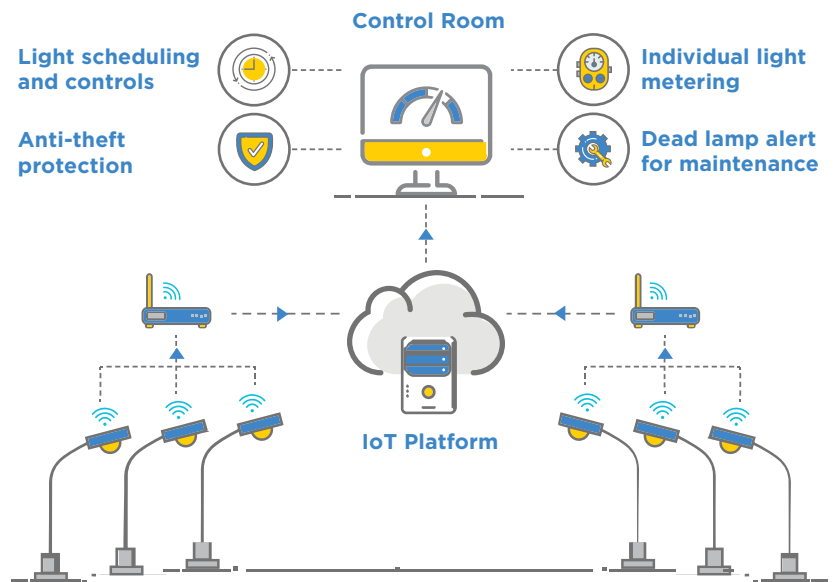
STRATEGIC IOT PARTNERSHIP
Tata Communications is a leader in digital technology with products across cloud, Big Data, IoT, mobility and networking making us your perfect partner for IoT solutions.

➜ OUR SOLUTION

The Tata Communications Smart Lighting Solution enables complete control of street lights from the application command centre. Organisations can define and automate the behaviour of street lights based on data insights. Sensors in the lights transmit data through our PAN India LoRaWAN network to the IoT platform for synthesis. Applications convert data from the platform into actionable insights for the end user to optimise lighting and conserve energy.

Tata Communications offers a customisable street lighting solution through a team of experts who take into account precise requirements of the customer and craft a tailor-made solution.

Solutions powered by LPWA based LoRa network

Light scheduling and controls

Control Room

Individual light metering

Anti-theft protection

Dead lamp alert for maintenance

IoT Platform

BENEFITS

- Automatic lighting control for energy savings
- Regulate individual lamp dimming
- Track and recover stolen LED's
- Identify and stop energy theft
- Measure individual lamp energy consumption
- Dead lamp alerts for replacement

- Track lamp burn hours for proactive replacement
- Robust SLA's and network management
- 2 level security with end-to-end encryption
- Achieve regulatory compliances
- Easy deployment with plug and play solutions

➜ KEY FEATURES INCLUDE:

LPWA Network Technology
Long range, low power consumption for long battery life, cost-effective sensors for broader deployment

Individual lamp control
Control luminosity to improve lighting and conserve energy

Cloud-based platform
Feature-rich, highly scalable and secure platform that synthesises data from multiple devices

Functional application
Intuitive application that allows complete control over the smart lighting infrastructure and gives actionable insights

Scalable solution
Scale as you need, upgrade existing infrastructure or enable smart cities

Easy configuration
Define parameters, control monitoring frequency, and customise reports

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Contact us