

# Smart City

Smart Energy & Light Management → Smart Parking → Smart Environment →  
Smart Energy Management → Smart Waste Management

## ■ Smart City Architecture

Meet rising demand, improve energy efficiency, and increase the reliability and quality of power supplies and city systems

Smart Light Management

Smart Parking System

Smart Environment

Smart Energy Management

Smart Waste Management

## ■ Our Highlights

- ✓ Rule-based switching ON/OFF of street lights
  - Timers set in the street lights will switch ON and OFF the lights at a fixed time every day, without waiting for any person to manually switch the street lights ON and OFF the street lights
  - Based on luminous efficacy of sunlight and cloudy weather, street lights will switch ON and OFF
- ✓ Even-odd street light switching
  - Instead of all street lights switching ON, street lights will switch ON alternately at a regular time interval
  - This is recommended if the lighted area per street light is overlapping each other
- ✓ Motion sensors in street lights
  - Automatic street light dimming when no pedestrians or vehicles are in the vicinity
  - Will glow 100% when pedestrians or vehicles are in the vicinity

- ✓ Status of street light condition
  - Issues a notification if there is any street light malfunction/power issue
- ✓ Reduction in AT&C losses
- ✓ Real-time health monitoring and tracking of assets through advanced & actionable dashboards (Web & mobile)
- ✓ Better maintenance schedule & uptime
- ✓ Security & surveillance

Smart IMS offers a Smart City Architecture suite that is engineered to meet rising demand, improve energy efficiency, and increase the reliability and quality of power supplies and city systems.

Our Smart Energy & Light Management system takes into account all the profound changes in the way that electricity is generated, distributed, managed, and consumed. We know that it is particularly challenging to deal with Aggregate Technical and Commercial (AT&C) losses and other issues. And we offer an innovative and revolutionary solution to help smart cities and electricity companies rise to the challenge with our Intelligent, Interconnected, and Interoperable grid.

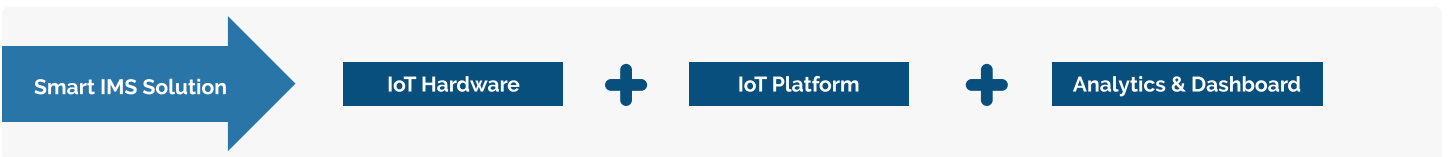
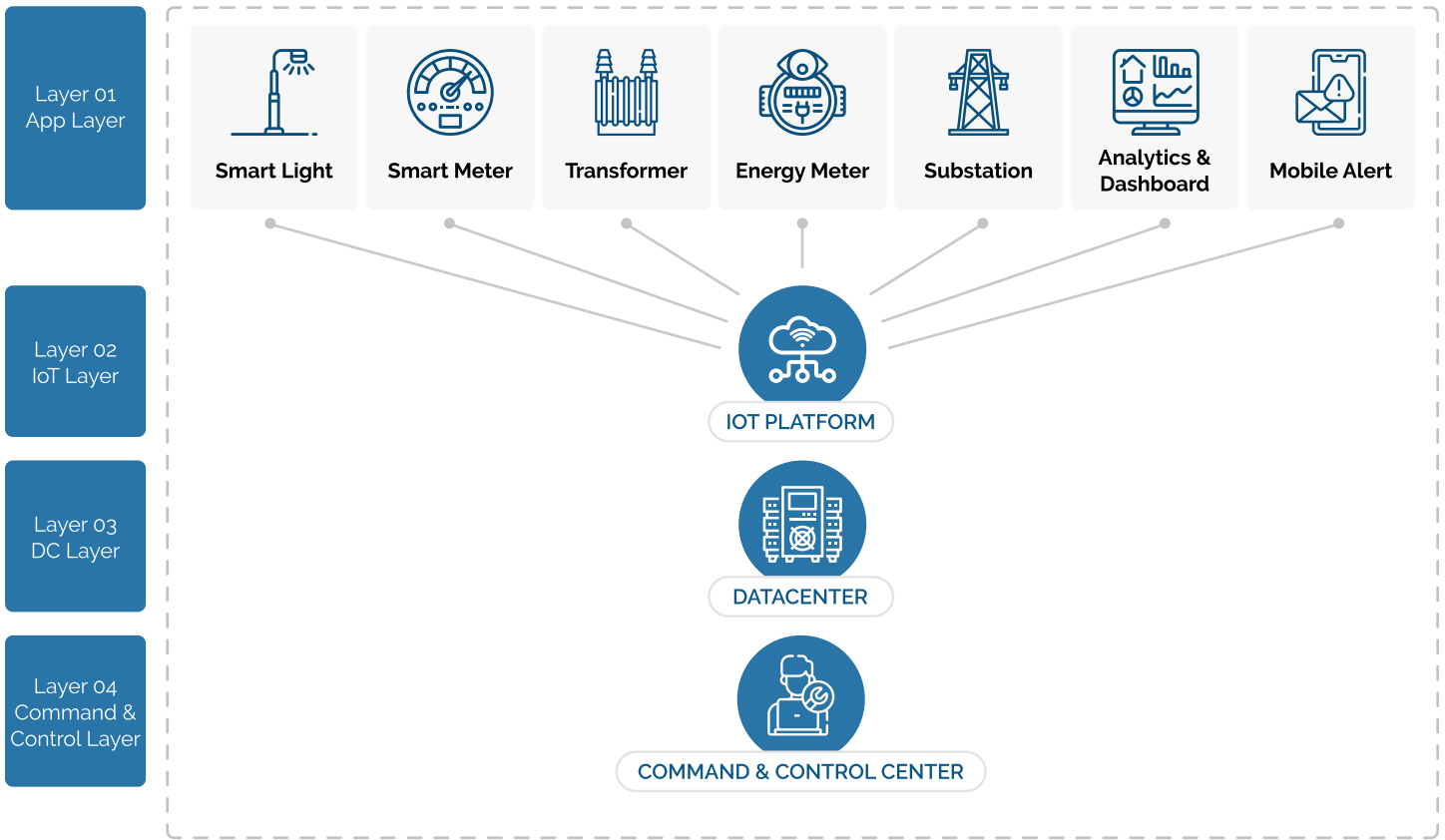
Our Smart Parking solution combines data from IP cameras, sensors, and city Wi-Fi infrastructure to allow administrators to manage parking lots and provide parking availability to citizens in real time.

Meanwhile, our Smart Environment solution combines data from different sensors to show real-time value for different environment parameters to help authorities manage key environmental triggers such as pollution, weather, and much more.

Finally, our Smart Waste Management solution enables cities to manage and optimize their waste collection, which helps them in eliminating hours spent on manual routing, maximizing productivity, optimizing equipment and staff allocations, and allowing the cities to gain better control over the waste management operations.

- Gathers and collects data from different bins across the city to show fill level data from waste containers via smart wireless sensor
- Helps in optimized route panning, demand-based schedules and fleet status overlay
- Provides hazard waste and environment security alert (cross-vertical)

## SMART CITY ARCHITECTURE



### ■ Why Smart IMS Smart City Architecture

Smart IMS offers Smart City Architecture solutions that are geared towards your:

- ✓ Smart Asset Monitoring
- ✓ Backup Power Management & Control
- ✓ Smart Energy Management System
- ✓ Fault Detection & Restoration
- ✓ Smart Light Management
- ✓ Substation Digitization
- ✓ Smart Waste Management

Goal	Supporting Objectives	Dynamic Impact
Common Platform		Platform is scalable to support future growth (user + business use cases) System allows for modifications in the future, since the business processes are expected to change over time
Reduce Manual Processes	Automate current manual processes	
Best Practice-Driven Implementation	Implement IoT while adopting an accelerated "best practices" approach for business processes, where possible	Minimize customizations Discovery engagement has confirmed good alignment with CLIENT business needs, as well as identifying areas for improvement by changing business process
Minimal Disruption to Business	Replace existing applications in a phased manner to ensure minimal disruption and risk to existing business, as well as balance the internal resources required from CLIENT	Single platform but enables deployment driven by business workloads
Procurement and Inventory Control	Dedicated Procurement team will be responsible for Procurement and deploying the IoT devices at Site	



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*Atlas Communications Technology*  
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