

CASE STUDY
DLF
Primus
#BEANENERGYSAVER





OCTIOT
SWITCH TO SENSORS

DLF PRIMUS SECTOR 82A, Gurgaon, Haryana-122001, a prominent residential development that is also associated with DLF Group. Known for its modern amenities and architectural design, it provides quality lifestyle to its residents with a working environment in prime locations, whereas lagging behind with extreme energy consumption PRIMUS consulted OCTIOT for the same.



OCTI^{IoT}

SWITCH TO SENSORS



Energy Saver



Auto on/off &
Auto Dimmable



Long Life



Cost Saving



Motion Detection



High Brightness

Research
Development Innovation
Management



Team of Experts for
Use-case Development
and Marketing

OCT-iSense Technology
(IOT) and
Interconnection Sensor
Technology LED Technology

“ OCTIOT's Building Intelligence Framework

More and more Intelligent systems are being used for controlling all sorts of Building types. Buildings are becoming Intelligent, this makes it possible to Save energy, Automate recurring processes, facilitate the usability and Operation to achieve a complete new dimension Of function and flexibility. This is where our Next Generation of Sensors will make A key contribution. They not only control light and detect the True presence.

OCTIOT's Vision of building Intelligence and Independent Solutions.

In our innovation lab, a task force continue to work on network solutions, and OCTIOT Systems too will helpus make buildings more intelligent.

Partner Network in
the felds of Consulting,
Sales, Technology
and Marketing



Since 2017, we have continuously evolved from a pioneer to a leader in technology and innovation in sensor-controlled lighting. Our in-house development facilities create intelligent products that are recognized worldwide.



All products are manufactured in India, embodying OCTIOT's "Make in India" philosophy. Our partners and subsidiaries sell in various markets, and with our skilled team, we are a leading global supplier of sensor-controlled LED technology, ensuring optimal lighting for any situation.

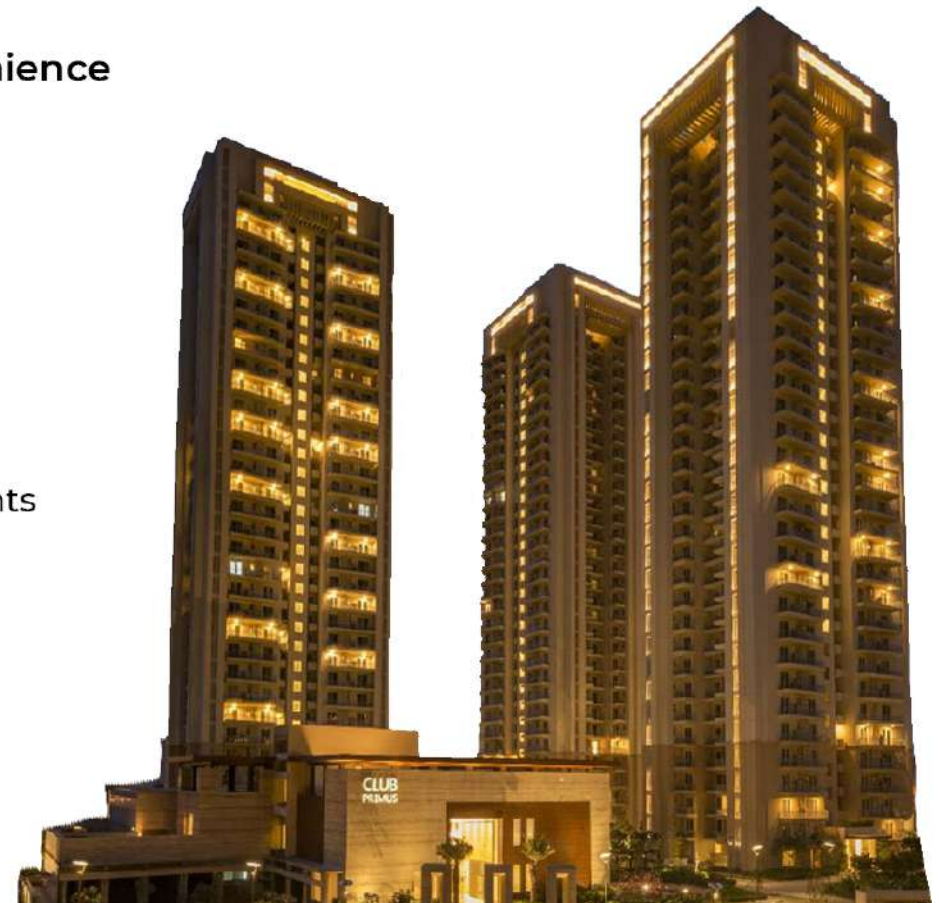


What Smart Solutions do to Basement Parking Lot?

Ideal Smart Lighting Solutions - All made possible by intelligent & sensor-based lighting that combines

Sustainability - Energy Efficiency - Lighting Convenience

- Minimum light running cost
- Simple product design for easy installation & maintenance
- One Stop for Hardware, installation & commissioning
- Optimum illumination 24 hours a day
- Long life product
- Sense of security
- Aesthetically attractive both inside & outside
- Move related & very low maintenance.
- Lower energy consumption leads Reduced Carbon Footprints
- From residential to commercial, one solutions for all



Challenges

Since 2017, DLF PRIMUS Sector 82A is offering a quality lifestyle to its residents. By time it has become a renowned residential building. With over 500 luxurious residents in PRIMUS was under pressure to enhance and illuminate the ambiance. PRIMUS not only wanted to cut the surcharge of overspend in electricity bills but also wanted an easy way to manage and conserve energy usage.

OCTIoT
SWITCH TO SENSORS



Regular Lighting

| Type of Light | No. of Lights | Wattage | Electricity Rate/Unit | Working Hours | Total Bill | Annual Bill |
|---------------|---------------|---------|-----------------------|---------------|------------------|-------------------|
| Tubelight | 240 | 20 | 8.3 Rs Per Unit | 24 Hours | 28,961.28 INR | 3,47,535.4 INR |



OCTIOT Smart Solutions

As per the convention between OCTIOT and PRIMUS, PRIMUS was desiring to implement the smart lighting system. With the count of 25 floors, PRIMUS was consuming more energy than normally, hence OCTIOT provided the complete solution of MOTION SENSOR & SENSOR BASED LIGHTING, to control over usage of electricity and to cut out the surcharge on electricity bills.

PRIMUS after with OCTIOT Smart Sensor Based Lighting Solutions

| Dimmable Light Qty | Load (watt) | Working Hours (Full Load) | Working Hours (Dim-5 watt) | Dimmable Watt | Full Load (watt) | Dimmable wattage (Per Day) | Total Wattage (Kilowatt) | Monthly Bill |
|--------------------|-------------|--------------------------------|----------------------------|---------------|------------------|----------------------------|--------------------------|--------------|
| 100 | 20 | 05 | 19 | 05 | 20 | 20 | | 31 kwh |
| Auto on/off Qty. | Load (watt) | Working Hours (on) (Full Load) | | | | On/Off Wattage (Per Day) | Annual Bill | |
| 140 | 20 | 04 | NA | NA | NA | 11.2 | 93,520.5 INR | |

Calculation : Building Intelligence 'Parking'

Before it was modernised, the lighting in the DLF PRIMUS GURUGRAM was on the cutting edge of the pre-LED age: Extremely Efficient It is hard to imagine that switching to Sensor-switched lights has nonetheless produced a saving upto 92 percent- but clearly verified by load-profile measurements.



Calculation of Smart Lighting Solutions

| Regular Lighting Solutions | | OCTIOT Lighting Solutions | |
|----------------------------|-------------|---------------------------|-------------|
| Monthly Bill | Annual Bill | Monthly Bill | Annual Bill |
| 28,961.28 | 3,47,535.4 | 7,793.4 | 93,520.8 |

Expense with OCTIOT Solutions

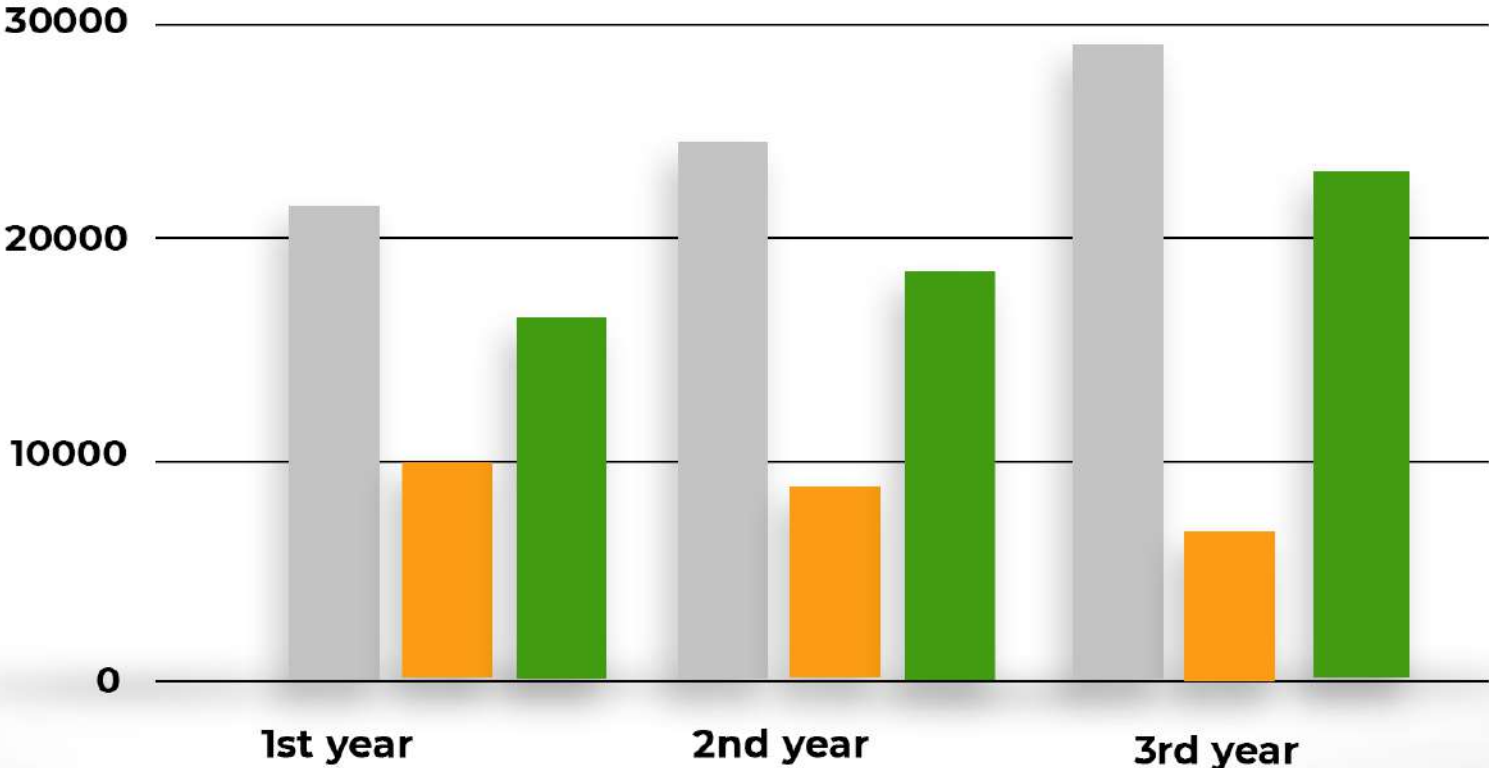
| Product | No. of Light | Cost per unit | Total Cost |
|---------------------------|--------------|---------------|------------|
| Regular Tubelight | 240 | 240 | 57,600 |
| OCTIOT Dimmable Tubelight | 100 | 550 | 1,34,100 |
| OCTIOT Auto on/off | 140 | 565 | |



Total Savings in 1st year - 40,579.2



Regular Lighting OCTIOT Lighting Solutions Savings with OCTIOT



Let's Go For Green!

CARBON FOOTPRINT CONTRIBUTION (Co2)



Regular
Lighting Solutions
OCTIOT
Lighting Solutions

As of Current Guidelines,
Around **600kg Co2** to
1000kg Co2 per household for
energy-efficient designs.

Accordingly,
PRIMUS consumption of Electricity
- **3456 kwh monthly**
PRIMUS consumption of Electricity with **OCTIOT**
- **921 kwh monthly**

Monthly Carbon Emission
Before - 2937.6 kg Co2
After - 782.85 kg Co2

Note: Co2 Emission calculator - www.greencleanguide.com

