

CASE STUDY
DLF
CREST
#BEANENERGYSAVER



OCTIoT
SWITCH TO SENSORS

DLF Crest, located on Park Drive in DLF Phase 5, Sector 54, Gurugram, Haryana 122011, is a premier residential development that combines modern luxury & Luxury. DLF Crest offers residents an exclusive lifestyle marked by world-class amenities, spacious living spaces, and meticulously designed interiors. Whether it's the state-of-the-art clubhouse, the serene swimming pool, or the panoramic views of the city, DLF Crest provides an unparalleled living experience that caters to those who seek both comfort and sophistication.





Energy Saver



Auto on/off &
Auto Dimmable



Long Life



Cost Saving



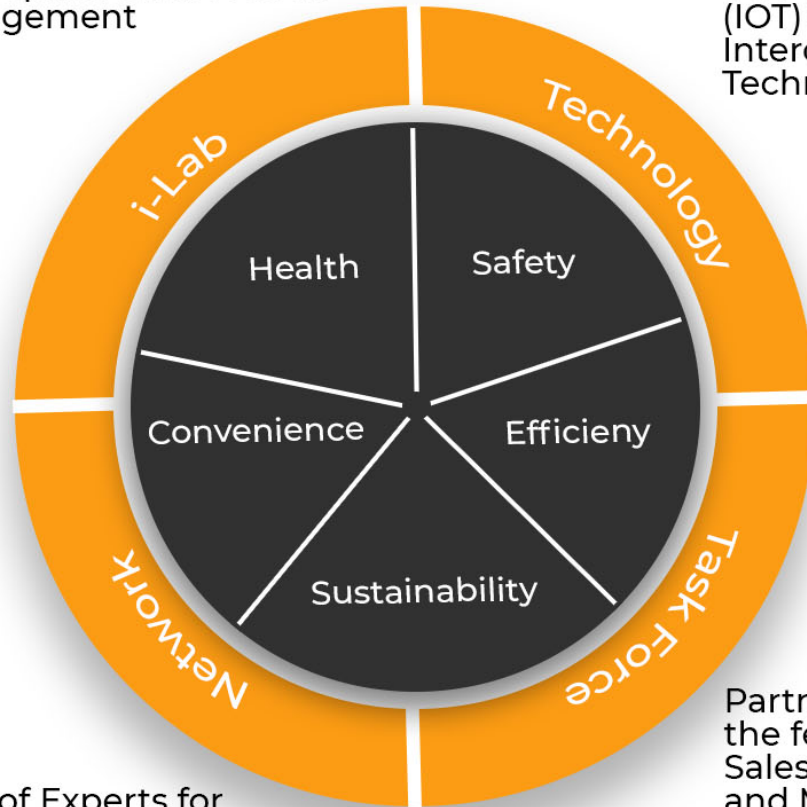
Motion Detection



High Brightness

Research
Development Innovation
Management

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



Team of Experts for
Use-case Development
and Marketing

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

“ 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.



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 Sensor Lighting Solutions can do to Residential Building?

Ideal Smart Solutions - All made possible by OCTIOT Sensor Lighting Solutions

Sustainability - Energy Efficiency - Lighting Convenience

- Minimum Light Running Cost
- Simple Product Design for Easy Installation
- One Stop for Installation, maintenance & Commissioning
- Optimised Lighting
- Long Life Product
- Creates sense of security
- Perfect for Indoor/Outdoor Ambience
- Lower maintenance charge
- Reduces carbon emission and Energy Bills Numbers



Challenges

DLF Crest was experiencing significant challenges related to its energy management, leading to higher operational costs and inefficiencies. The complex faced escalating energy bills due to continuous lighting in common areas like parking lots and hallways, regardless of whether these spaces were in use. This unoptimized approach to electricity and light operations resulted in considerable energy wastage, as lights remained on even when areas were unoccupied. The lack of intelligent control systems not only inflated energy costs but also contributed to an unnecessary environmental impact,

Regular Lighting

No. of Tubelight	Wattage	Working Hours	Electricity Rate/Unit	Total Consumption (Annual)	Annual Bill
3000	20	24	8 Rs Per Unit	5,25,600 kWh	₹42,04,800 INR




The Crest
Live magnificently

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Requirements

DLF Crest was experiencing significant challenges related to its energy management, leading to higher operational costs and inefficiencies. The complex faced escalating energy bills due to continuous lighting in common areas like parking lots and hallways, regardless of whether these spaces were in use. This unoptimized approach to electricity and light operations resulted in considerable energy wastage, as lights remained on even when areas were unoccupied. As per the discussions and meetings, it was discovered that DLF CREST was looking for the solution which can reduce their energy consumption and Bills as well.



OCTIOT Smart Solutions

OCTIOT delivered a transformative energy solution to DLF Crest with its Smart Sensor Lighting Solutions. The Smart Sensor Lighting automatically adjusted lighting based on real-time occupancy, ensuring that lights were only on when needed. This innovative approach drastically reduced energy wastage, leading to significant cost savings on electricity bills. Additionally, the smart solution contributed to a substantial reduction in the complex’s carbon footprint, aligning with DLF Crest’s commitment to sustainability.

DLF Crest After OCTIOT’s Smart Sensor Solutions

No. of Tubelights	Wattage	Working Hours	Electricity Rate/Unit	Total Consumption (Annual)	Annual Bill
3000	20	5 hrs	8 Rs Per Unit	1,09,500 kWh	₹8,76,000 INR

Calculation

Intelligent Smart Solutions

OCTIOT sensor lighting solution significantly reduces both energy consumption and operational costs compared to regular lighting. Specifically, it achieves approximately a 79.2% reduction in both energy consumption and annual energy bill. This substantial decrease underscores the efficiency and cost-effectiveness of OCTIOT's smart lighting technology.

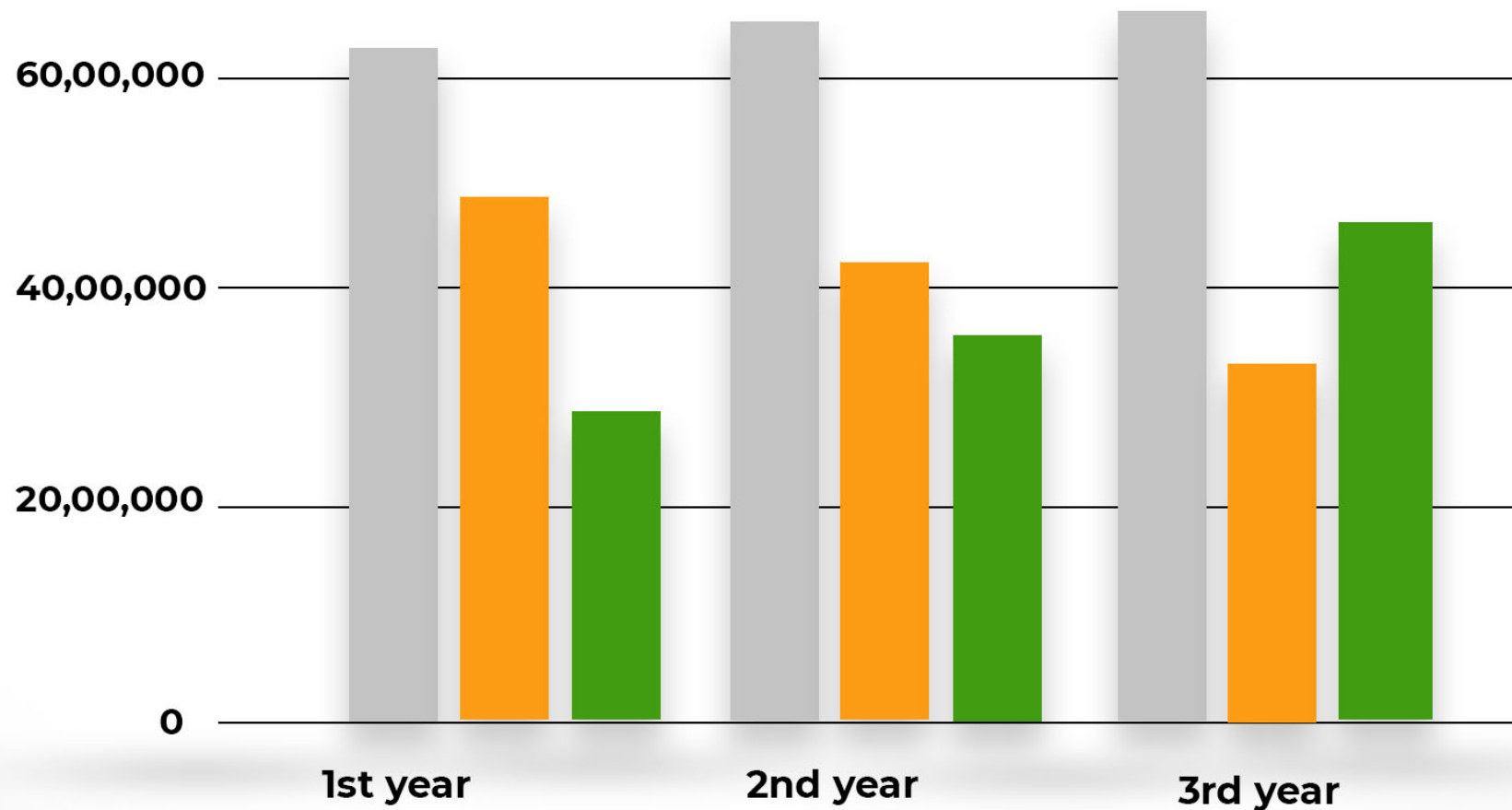
Calculation of Smart Sensor Lighting Solutions

Regular Lighting Solutions		OCTIOT Sensor Lighting Solutions	
Annual Energy Consumption	Annual Energy Bill	Annual Energy Consumption	Annual Energy Bill
5,25,600 kWh	₹42,04,800 INR	1,09,500 kWh	₹8,76,000 INR

Total Savings in 1st year - 33,28,800



Regular Lighting System OCTIOT Sensor Lighting solutions Savings with OCTIOT



Let's Go For Green!

CARBON FOOTPRINT CONTRIBUTION (Co2)



Regular Lighting
OCTIOT Smart Sensor
Lighting Solutions

As of Current Guidelines,

In India, there isn't a universally mandated "allowed" amount of carbon emissions for residential buildings.

The NAPCC includes missions such as the National Mission for Enhanced Energy Efficiency (NMEEE) and the National Solar Mission, which encourage the adoption of energy-efficient practices and renewable energy in both commercial and residential buildings.

**OCTIOT, made DLF CREST loose
79.2% carbon release**

DLF CREST Annual consumption of Electricity
5,25,600 kWh

DLF CREST Annual consumption of Electricity
with OCTIOT
1,09,500 kWh

Annual Carbon Emission

Before - **4,73,040 kg Co₂**

After - **98,550 kg Co₂**

