OCTIOT
SWITCH TO SENSORS

CASE STUDY

Sarvodaya Hospital

#BEANENERGYSAVER

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SARVODAYA HOSPITAL
sarvodaya
HEALTHCARE
Sarvodaya Hospital, a leader in healthcare innovation, recently took a significant step towards enhancing patient care & operational efficiency by integrating OCTIOT's Smart Solutions into their regular rooms.

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Energy Saver

Auto on/off &
Auto Dimmable

Long Life

Cost Saving

Motion Detection

High Brightness

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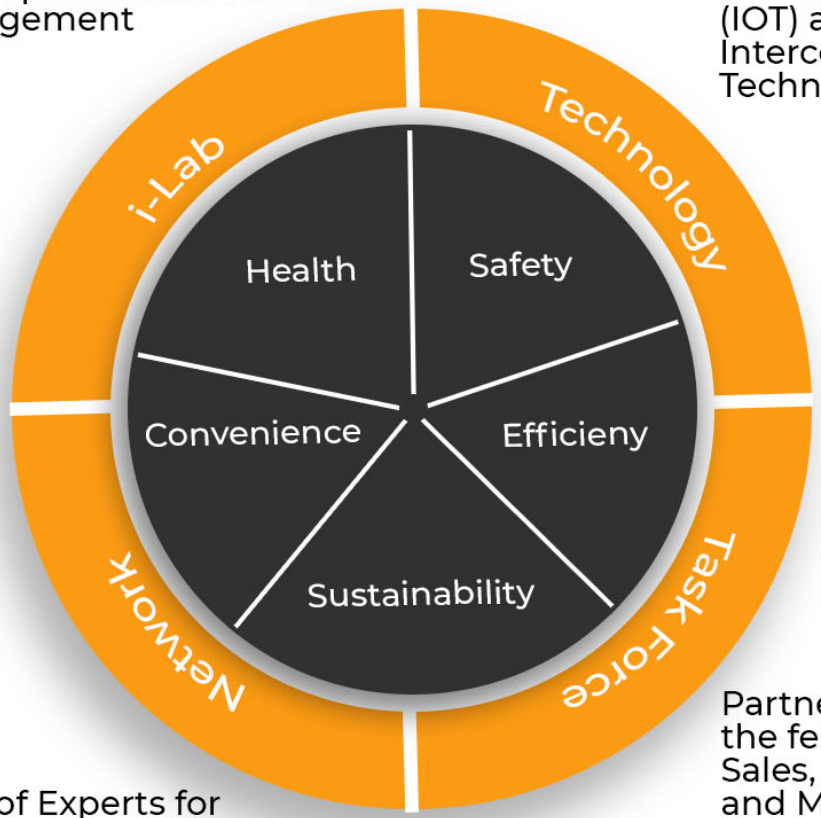
Research
Development Innovation
Management

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



Team of Experts for
Use-case Development
and Marketing

Partner Network in
the felds 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.

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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.

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What Smart Solutions can do to a Hospital's Regular Rooms ?

Ideal Smart Solutions - All made possible by intelligent Sensor - Sensor-based lighting that combines

Sustainability - Energy Efficiency - Lighting Convenience

- Enhancing Patient Comfort
- Efficient Lighting Control
- Streamlined Operations
- Minimum Light running cost
- Long Life
- Sense of security
- Aesthetically attractive both inside & outside
- Low Maintenance
- Lower energy consumption leds Reduced Carbon Footprints
- No Hassle to switch on & off the Lights or AC

Challenges

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Since 1997, Sarvodaya Hospital has had challenges of high energy consumption due to non-optimized lighting and AC systems, inefficiencies from manual monitoring, and inconsistent environmental comfort in patient rooms. The lack of real-time data and automation hindered effective energy management, while operational inefficiencies and difficulty in maintenance led to increased costs and potential delays in patient care. These issues underscored the need for a smart, integrated system to enhance overall efficiency and patient experience.

Regular AC System

Appliance	No. of ACs	Wattage	Electricity Rate/Unit	Working Hours	Total Consumption (Annual)	Annual Bill
AC	100	1000	7 Rs Per Unit	24 Hours	8,76,000 Kwh	61,32,000 INR

Requirements

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Sarvodaya Hospital required a smart solution that could adapt to its unique setup as a converted commercial building with 100 patient rooms across 8 floors. Their key requirement was to ensure that air conditioning and lighting systems would remain active and appropriately adjusted when a patient was in a resting or sleep position. This called for intelligent sensors and automation that could detect patient activity and optimize comfort without manual intervention.

OCTIOT Smart Solutions

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Days of Meetings, Sample product Monitoring and Analysation, Sarvodaya decided to move ahead with OCTIOT's Smart Solution to Loose number in energy bills. OCTIOT Installed their Smart Solutions in Sarvodaya with 100 bed count Hospital.

Sarvodaya After OCTIOT's Smart Sensor Solutions

No. of AC controllers	No. of ACs	Wattage	Electricity Rate/Unit	Working Hours	Total Consumption (Annual)	Annual Bill
100	100	1000	7 Rs Per Unit	18 Hours	6,57,000 kWh	45,99,000 INR

Calculation : Patient's Ward Room AC Controllers

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Before OCTIOT, Lighting and AC Systems in Sarvodaya Hospital's regular lighting relied on conventional systems that operated on fixed schedules, regardless of room occupancy or natural light levels. With the integration of OCTIOT's smart solutions, including the OCT-NANOPRO, OCT-iSense Controller, OCT-Xvela, and OCT-XNEU, Sarvodaya Hospital experienced a remarkable transformation in their bills.

Calculation of Smart Sensor Solutions

Regular AC Systems		OCTIOT smart Sensor Solutions	
Monthly Bill	**Annual Bill**	**Monthly Bill**	**Annual Bill**
504,000	**61,32,000 INR**	**6,57,000**	**45,99,000 INR**

Total Savings in 1st year - 15,33,000

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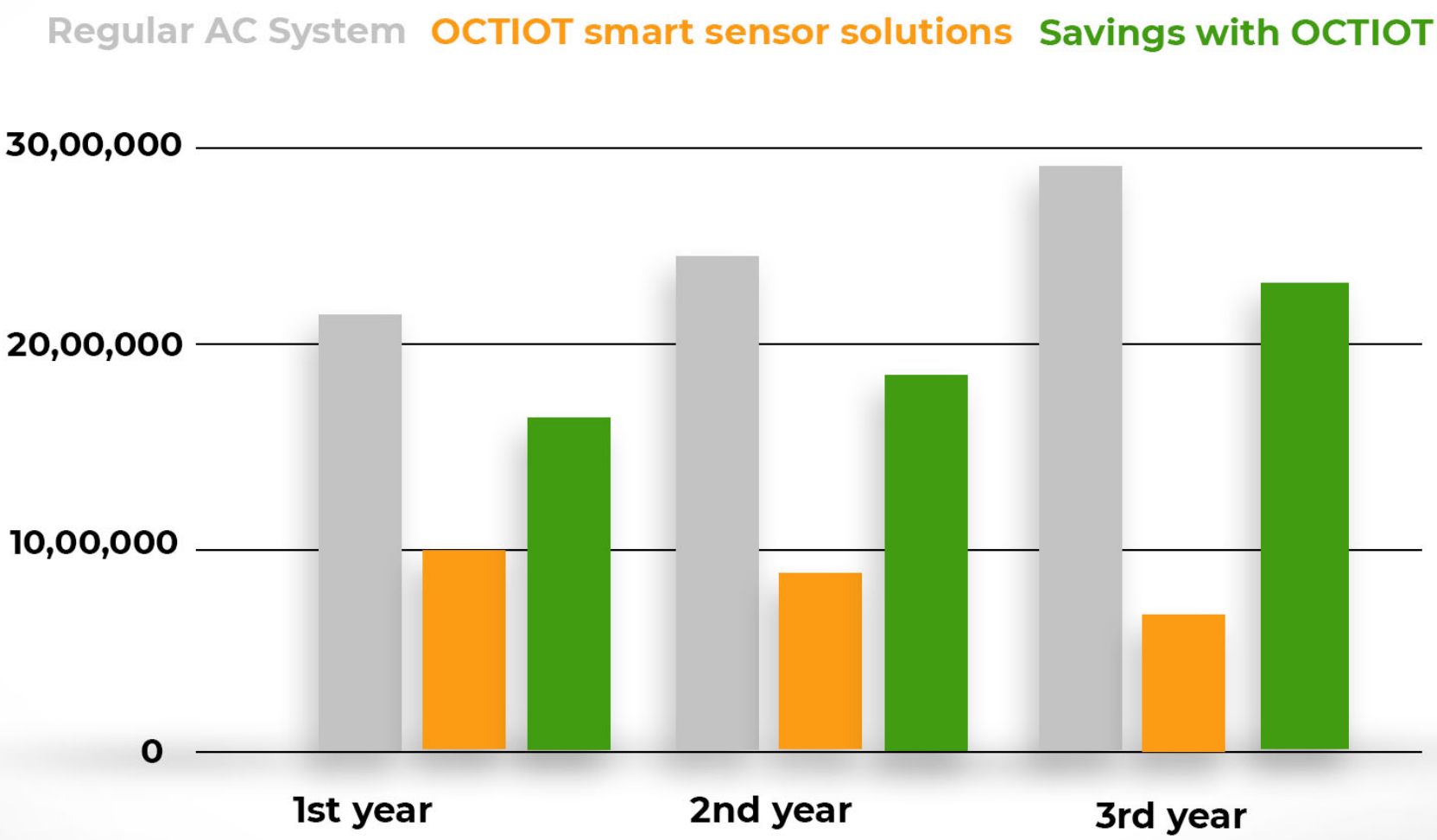

Let's Go For Green!

CARBON FOOTPRINT CONTRIBUTION (Co2)

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Regular AC System
OCTIOT Smart Sensor Solutions

As of Current Guidelines,
In India there isn't a specific carbon emissions limit set exclusively for hospitals on a national level.India has committed to reducing its carbon intensity by 33-35% from 2005 levels by 2030 as part of its Nationally Determined Contributions (NDCs).

OCTIOT, made Sarvodaya loose 25.66% carbon release

Sarvodaya Annual consumption of Electricity
876,000 Kwh

Sarvodaya Annual consumption of Electricity with **OCTIOT**
6,57,000 kWh

Annual Carbon Emission
Before - 6,13,200 kg CO_2
After - 153,300 kg CO_2

Note: Co2 Emission calculator - www.greencleanguide.com