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# Enhancing Energy Efficiency and Optimizing Performance in Commercial Buildings through Smart Automation



# Introduction

The case study explores the implementation of smart automation technology in a commercial building in Gandhinagar called SYNERGY SPACE to optimize operations, increase efficiency, and improve overall occupant experience. By leveraging advanced automation systems and intelligent controls, the building management successfully transformed traditional spaces into a cutting-edge, interconnected ecosystem.

# Problem

The Client faced a substantial challenge related to energy consumption, primarily due to the presence of over 17 switchboards distributed across different floors. This decentralized system required extensive manual labor to operate and control lighting, resulting in inefficiencies, high maintenance costs, and increased energy usage.



# Approach

The Innexia team carried out an onsite visit to identify the issue, which involved studying the building's blueprint, assessing wiring and switchboard diagrams, and formulating a solution. Once all criteria had been surveyed by the team, the solution was implemented and its potential advantages were evaluated.



# Solution



## Smart Automation

Smart automation technology can be used to optimize energy efficiency in commercial buildings.



## Cost Savings

Implementing smart automation solutions can lead to significant cost savings.

Smart automation is a powerful tool for optimizing energy efficiency and reducing costs in commercial buildings.

# Retrofit Works

The retrofit approach ensured compatibility with the existing wiring and switchboards. Innexia's solution integrated seamlessly into the building infrastructure, minimizing disruption and eliminating the need for costly rewiring or structural modifications.

## No Change in Interiors or Plan

The implementation of smart automation did not require any alterations to the building's interiors or floor plan.



# Single HUB & Zigbee Protocol

Innexia connected all floors of the building through a single HUB utilizing the Zigbee protocol. This wireless network allowed seamless communication between all devices.

## Scheduling & Customized Lighting Controls

Innexia's solution enabled the scheduling and customization of lighting controls for each floor. The system optimized energy usage by adjusting lighting levels based on requirements.



# Benefits

- 1 | Reduced Energy Consumption
- 2 | Cost Savings
- 3 | Reduce Manpower





# Energy Savings

Smart automation is a great way to save energy in commercial buildings. By using automated systems, businesses can reduce their energy consumption and save money up to 30%.

# Increased Efficiency

Smart automation is revolutionizing the way commercial buildings use energy, leading to increased efficiency and cost savings. Automation technology is helping to optimize energy usage and reduce waste.



# Seamless Integration

Integrating multiple systems without changing existing infrastructure is essential for optimizing energy efficiency in commercial buildings. Smart automation technology makes such seamless integration possible.



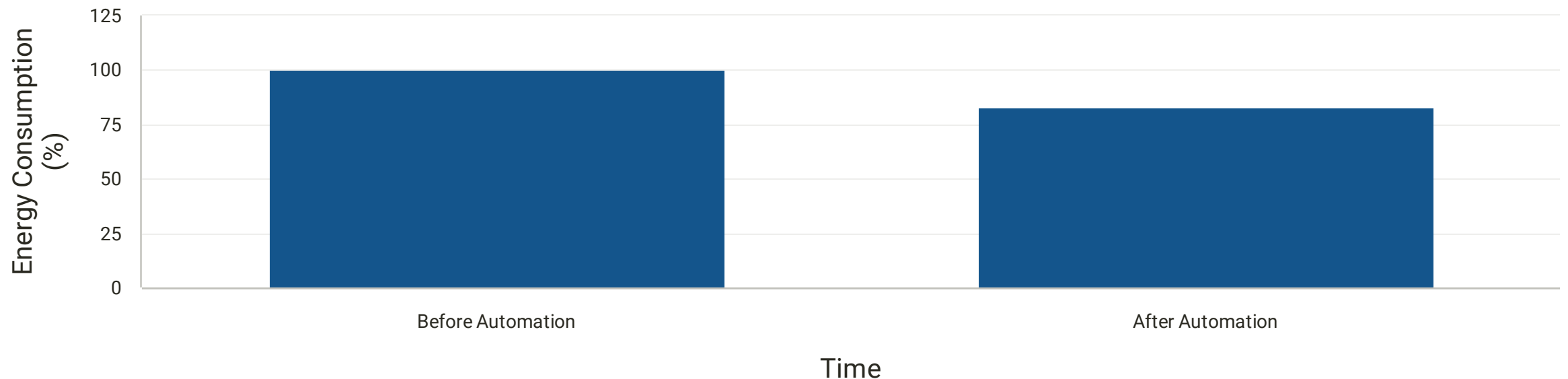
# Enhanced User Experience

Smart automation is transforming the management of commercial buildings, resulting in improved user experiences and augmented energy efficiency.

Advanced automation technology is providing unprecedented opportunities to optimize energy consumption and reduce costs.



# In two months, the impact of installing the Innexia Client resulted in a 17% energy savings.



The implementation of Innexia at Synergy Space Building yielded a 17% reduction in energy expenditure after two months.

\*Data from Innexia Synergy Space Building

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INTECH is a technology giant with more than 14 years of expertise in Industrial & Port Automation



INNEXIA simplifies building automation products

It provides the ease of handling different types of applications and the freedom to choose multi-brand automation products that can run smoothly under a single platform



INNEXIA is user-friendly

It offers an intuitive user interface that makes it easy to control and monitor all connected devices from one place

INNEXIA is the perfect solution for anyone looking for a comprehensive, user-friendly, and reliable smart home/ building / office system.



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