

### Background

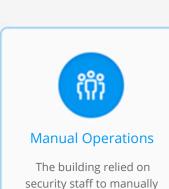
Companies around the world are taking steps to reduce their energy consumption due to scarce resources, rising energy prices, and increased awareness of corporate environmental responsibility. As buildings become smarter and more connected, it's easier than ever for companies to expand their traditional lighting systems into "smart" lighting systems. Lighting control systems play a vital role in lighting systems by allowing users to turn lights on or off automatically using switches, and/or adjusting light output up or down using dimmers.

Efficiently managed and energy-optimized buildings are more attractive to potential buyers and investors. Research indicates that every \$1 reduction in energy costs results in an approximate \$20 increase in building value. Also, automated adjustments to temperature and ventilation maintain consistent indoor conditions, leading to improved occupant comfort. This has shown to increase tenant satisfaction by up to 25%, contributing to better overall building experience. The office building in Dubai aimed to improve its energy efficiency while lowering operational costs. Our partner

Sensgreen has helped their client successfully deploy and retrofit the building with a cost-effective smart light control solution.



### Challenges



turn off the lights every

night, leading to

labor-intensive processes

and potential human error.



**High Energy Costs** Without automation, the building faced high energy

consumption and elevated

electricity bills, impacting

operational budgets.



**Operational Inefficiencies** Manual lighting control led to operational inefficiencies, with lights sometimes left on unnecessarily, wasting



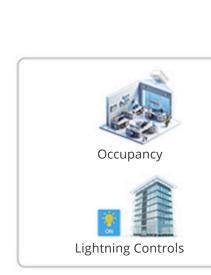




resulting in users being

unable to understand why energy is being wasted.

#### Solution







LoRaWAN'

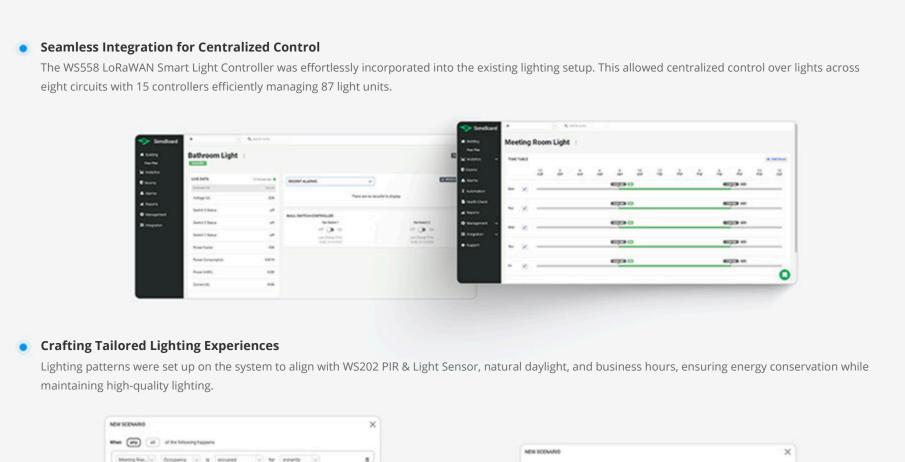


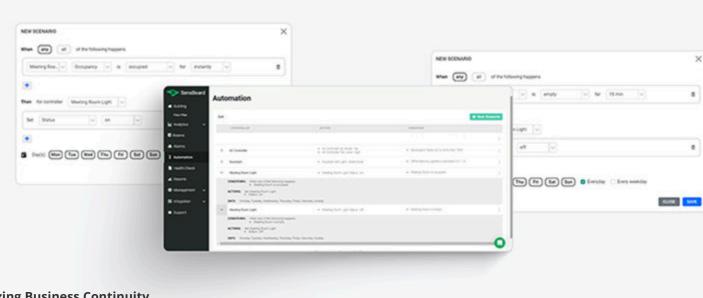
LoRaWAN Gateway



Sensgreen Smart

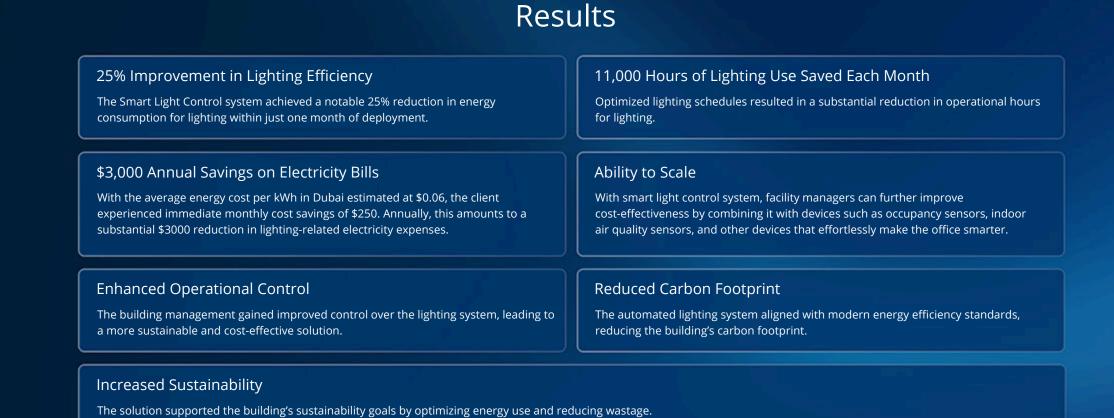
**Building Platform** 





Prioritizing Business Continuity

The installation process was carried out with minimal disruption, ensuring that the daily operations of the building remained seamless and unaffected



# **ROI** Calculation

**Annual Light Energy Consumption Cost Before Implementation:** \$10,000

**Annual Light Energy Cost After Implementation: Annual Savings:** 

\$3,000

\$8,000 (including hardware fee & platform subscription) Return on Investment (ROI): (\$8000 / \$3000) = 2.67 years = 32 months

**Implementation Cost:** 

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