

NSP Envision – Intelligent Building for Sustainability

NSP Global Technology





—. The Smart Building Imperative

Overview

NSP Envision – Intelligent Building Platform leverages IoT devices and sensors (covering energy, HVAC, lighting, water, air quality, access, & CCTV), combined with Sustainability Intelligence and advanced AI algorithms, to transform buildings into hyper-efficient, low-carbon, fully automated smart environments.

The platform seamlessly integrates HVAC, lighting, energy, water, access control, security, and facility operations into a unified system that reduces costs, enhances comfort, and accelerates Net Zero objectives. Through AI-driven analytics, predictive maintenance, and digital twins, organizations achieve optimal efficiency, sustainability, and operational resilience.

Pain Points

Operational & Facility Challenges



- Fragmented building systems (HVAC, lighting, security not integrated)
- Reactive maintenance causing downtime & increased cost.
- No real-time visibility across zones or multiple properties

Energy & Cost Challenges



- No ability to forecast peak loads or detect abnormal usage
- Manual reporting & inefficient energy policies
- High electricity consumption due to non-optimized HVAC

Sustainability & Reporting Challenges



- Difficulty tracking carbon emissions and ESG metrics
- Complex reporting frameworks (GRI, SASB, BRSR, TCFD) .
- Lack of automation to support Net Zero strategies
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Lack of monitoring & analysis



- Lack of Energy Consumption Transparency
- No Real-Time Anomaly Detection
- Low Control Over Demand-Side Management
- Equipment Aging & Maintenance Delays

Occupant Experience Challenges



- Inconsistent comfort levels
- Manual visitor access & slow check-in processes
- No personalized environment control

Energy Waste from Unoccupied Spaces



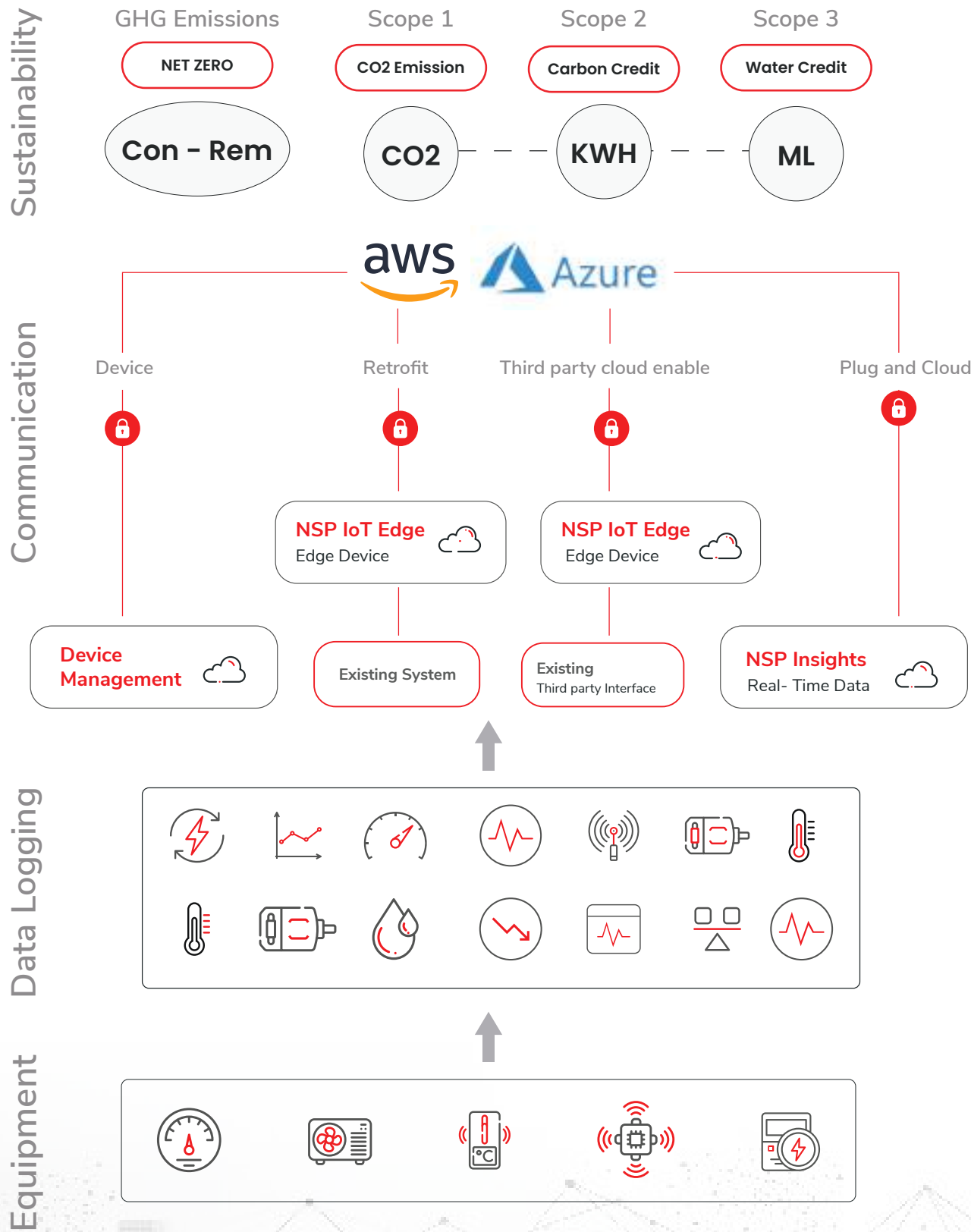
- Energy Wastage in Unoccupied Areas
- No Visibility into Space Usage
- Manual Monitoring & Inefficient Controls

Security & Safety Challenges



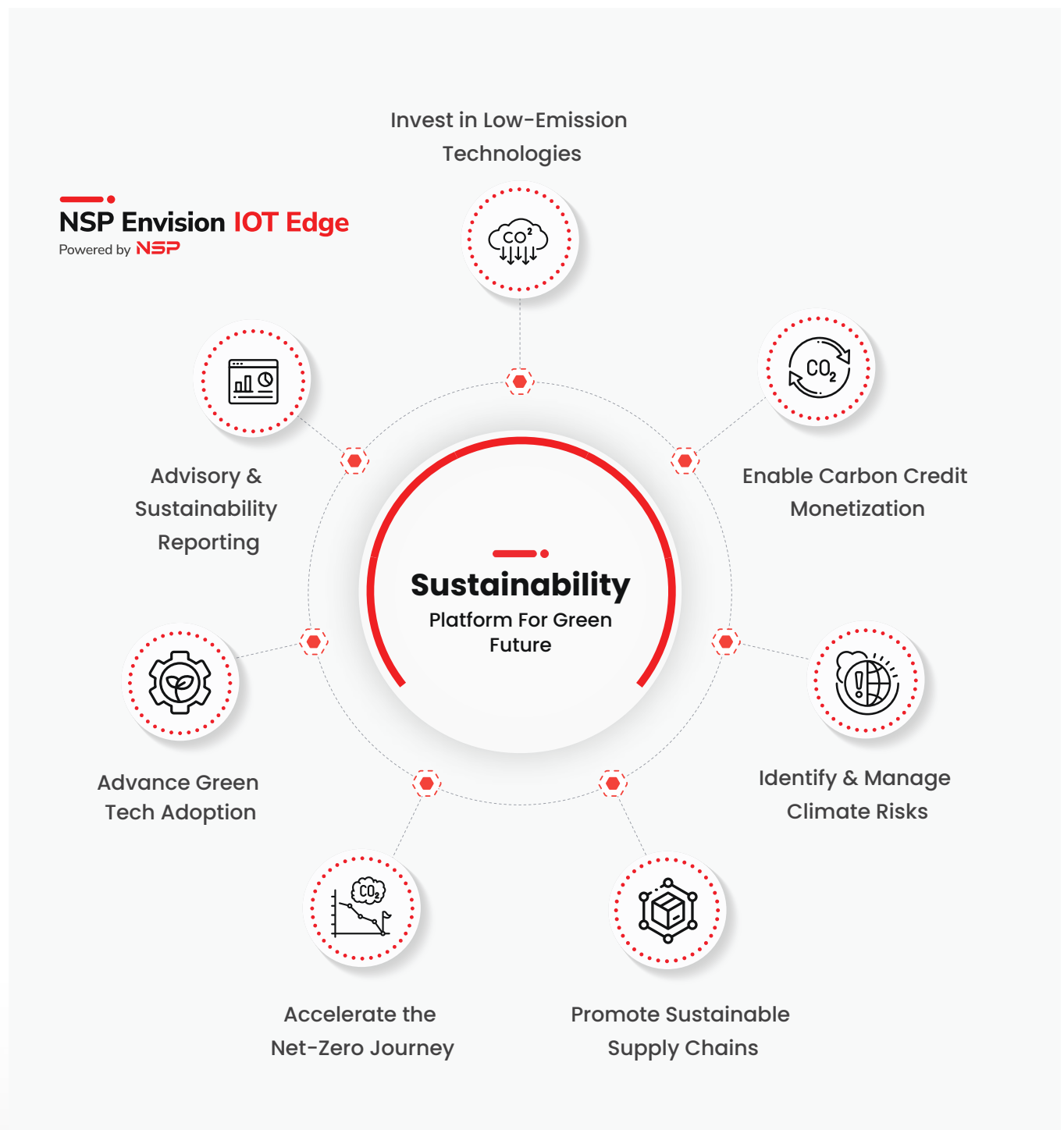
- Disconnected access, CCTV, alarm, & visitor systems
- Slow response to incidents or occupancy anomalies

Solution Architecture & Modules



NSP Envision Platform

Centralized control and monitoring of building operations, workflows, and service requests.



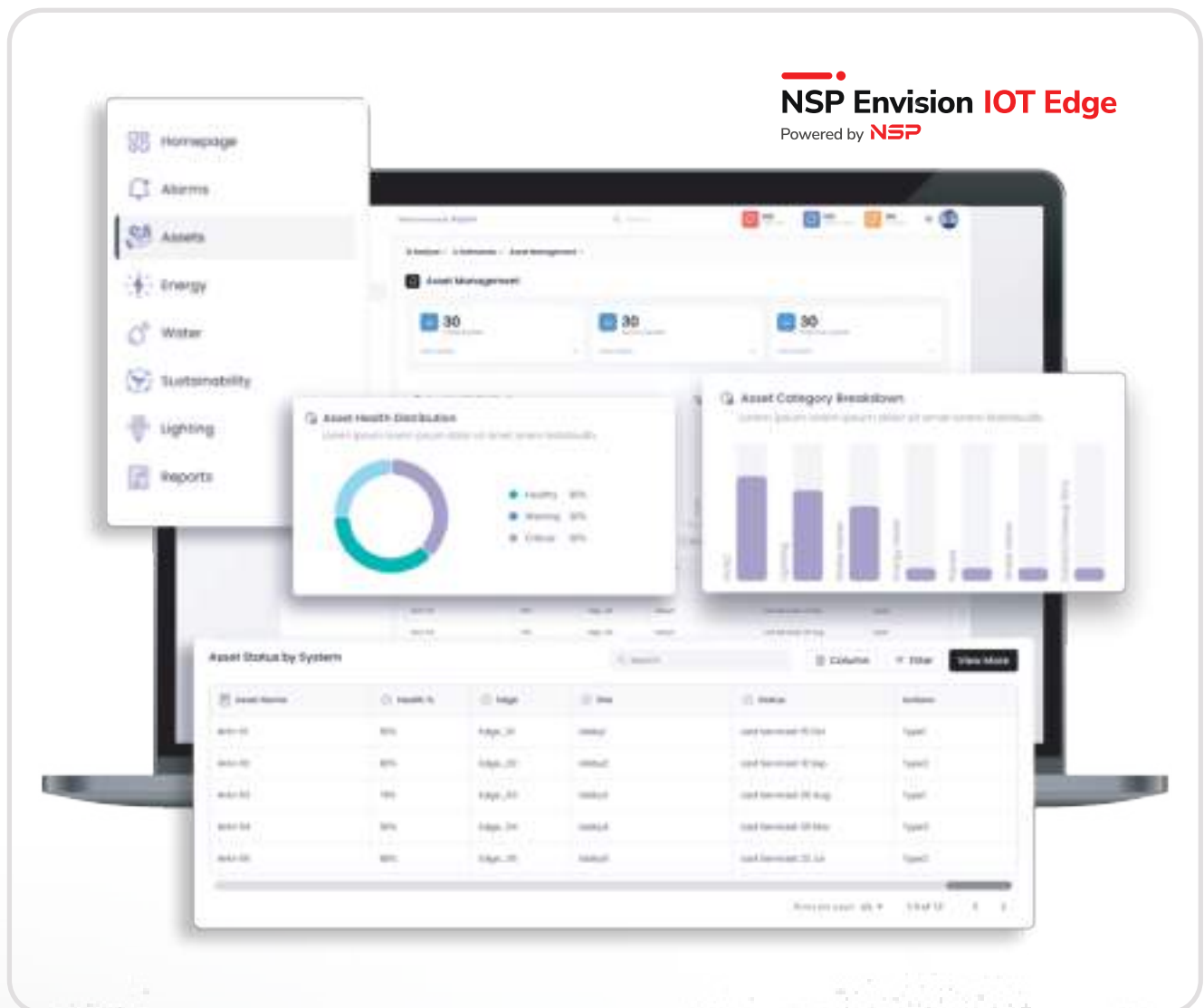
Core Modules :

➤ Integrated Operation Management

Centralized control and monitoring of building operations, workflows, and service requests.

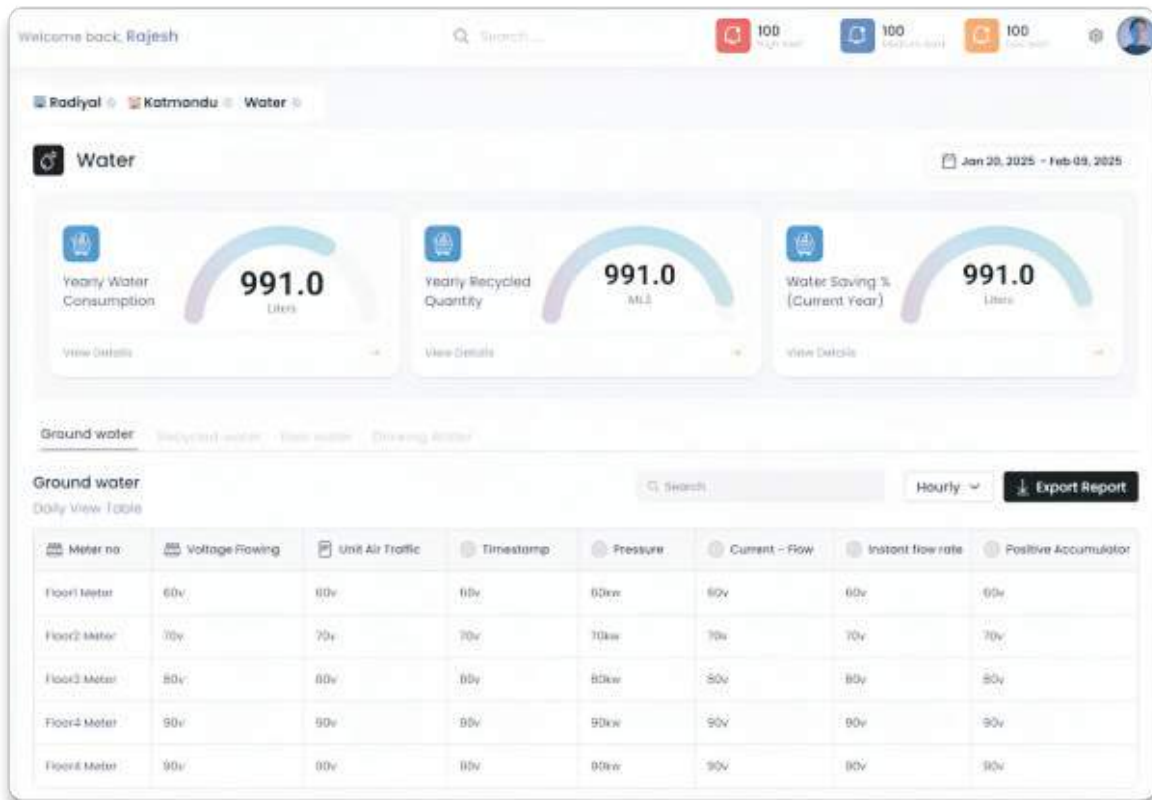
➤ Asset Management

Centralized control and monitoring of building operations, workflows, and service requests.



➤ Water Management

Monitor and manage water usage, detect leaks, and optimize consumption.



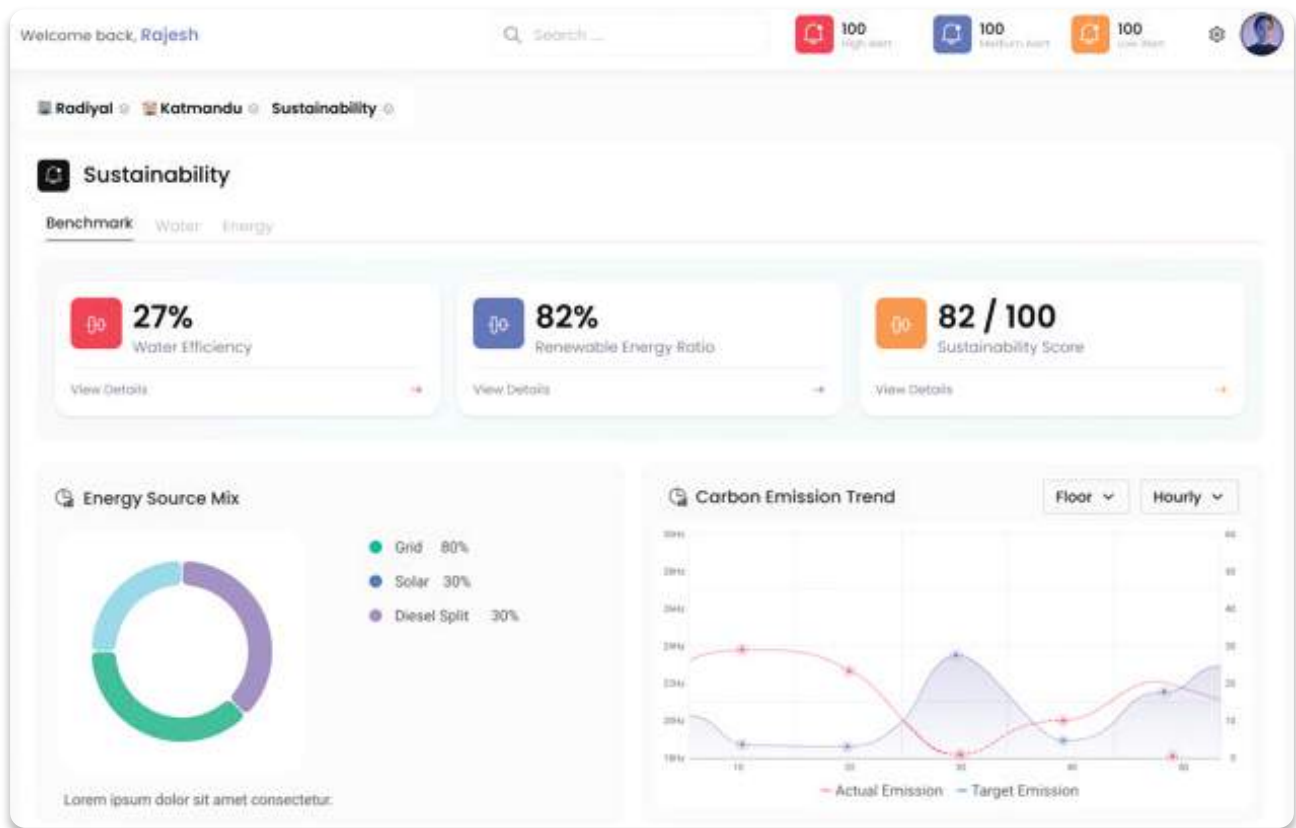
➤ Energy Management

AI-powered energy optimization for HVAC, lighting, and equipment, delivering maximum efficiency through real-time monitoring, predictive analytics, demand forecasting, and seamless integration of renewable energy sources.



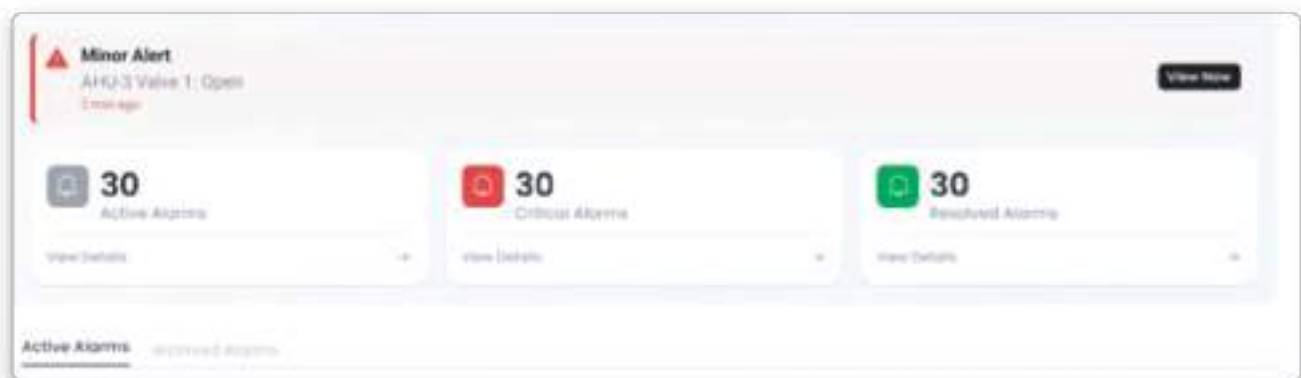
➤ Sustainability

Carbon footprint tracking, ESG reporting (GRI, SASB, BRSR, TCFD), decarbonization strategies, and carbon credit management.



➤ Alarm & Event Management

Real-time alerts for faults, energy anomalies, security breaches, environmental events, and predictive maintenance triggers.





Customer Benefits



Energy & Efficiency

- **25–40%** reduction in energy costs
- AI-driven cooling & heating optimization
- Smart lighting based on presence and daylight



Sustainability & Net Zero Acceleration

- Automated carbon footprint tracking
- Supports ESG compliance (GRI, SASB, BRSR, TCFD)
- AI-driven decarbonization insights
- Enables carbon credit generation
- **100%** digital sustainability reporting



Enhanced Comfort & Experience

- Personalized room & workspace environment
- Faster occupancy readiness (**20%** improvement in hotels)
- Better air quality & temperature consistency

— Safety & Security

- Integrated access + surveillance + visitor management
- Real-time alerts for anomalies
- Faster emergency response

— Operational Excellence

- Real-time monitoring of 100% critical systems
- **30–40%** reduction in equipment downtime
- Predictive maintenance reduces failures by **32–45%**
- Remote monitoring of operations & assets from anywhere
- Asset transfer and alarm/event tracking on the go
- Decision support for operational & sustainability improvements





Case Studies

Driving Sustainability Through Data, AI & Smart Operations

Industry Success Stories

01

Hospitality – Luxury Hotels & Resorts

- > **22%** Energy Reduction | **20%** Faster Room Occupancy
- > AI-powered **HVAC** control & intelligent occupancy management reduced operational costs, optimized resources, & elevated guest comfort.
- > **Impact**: Lower OPEX, improved ESG compliance, & enhanced guest experience.

02

Commercial Buildings Real Estate Portfolios

- > **30%** Lower OPEX | **25%** Energy Savings
- > Unified BMS enabled smarter space utilization, reduced energy costs, and improved tenant satisfaction.
- > **Impact**: Optimized operations & strengthened ESG performance across multi-site assets.

03

Healthcare – Smart Hospitals

- > **20%** Energy Reduction | **100%** Time Monitoring
- > Environmental and air-quality monitoring ensured better compliance, safety, and patient comfort.
- > **Impact:** Sustainable operations with higher patient satisfaction.

04

Education – Smart Campuses

- > **15–20%** Energy Savings | **100%** Automated Climate Control
- > Energy and asset management systems provided real-time insights, improved efficiency, and created a safer learning environment.
- > **Impact:** Reduced costs, smarter classrooms, better comfort.

Organizations across sectors are achieving measurable sustainability outcomes from reduced energy costs to enhanced comfort and compliance powered by AI-driven insights and ESG-focused programs.

Why NSP ?

Industry Expertise : Proven track record in delivering intelligent building solutions globally.

AI-Driven Innovation : Cutting-edge AI and predictive analytics for operational efficiency.

Sustainability Focus : Helping clients accelerate Net Zero goals with advanced reporting and carbon credit management.

Comprehensive Solutions : Fully integrated modules covering energy, water, operations, assets, alarms, and sustainability.

Global Benchmarking : Solutions inspired by industry leaders like ABB, Siemens, and Honeywell.

Scalability & Interoperability : Works across single buildings, campuses, or multiple properties with seamless integration.

Remote Management : Full monitoring, asset transfer, and alarm tracking from anywhere.



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