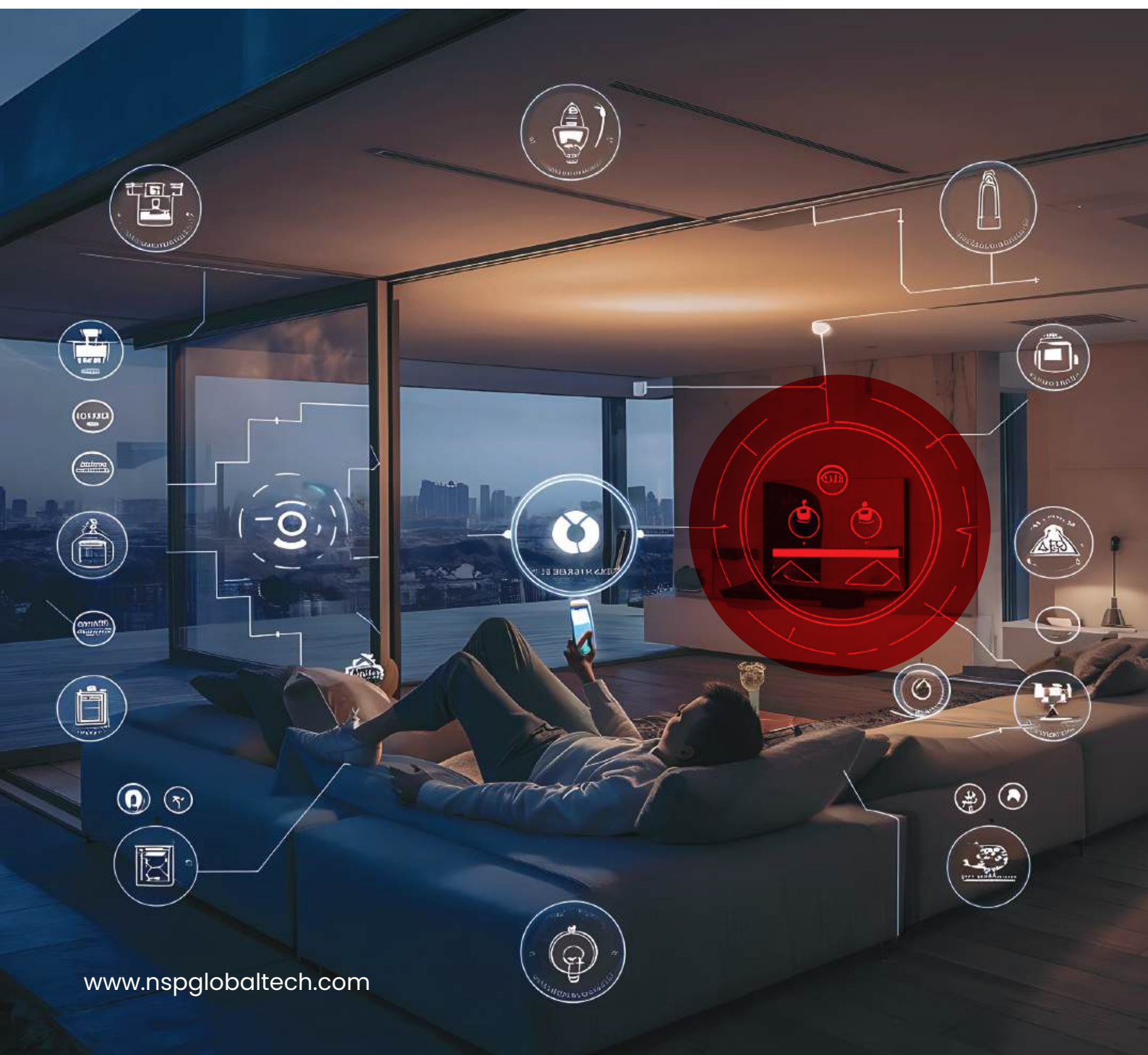**NSP**

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

> Lack of automation to support Net Zero strategies

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

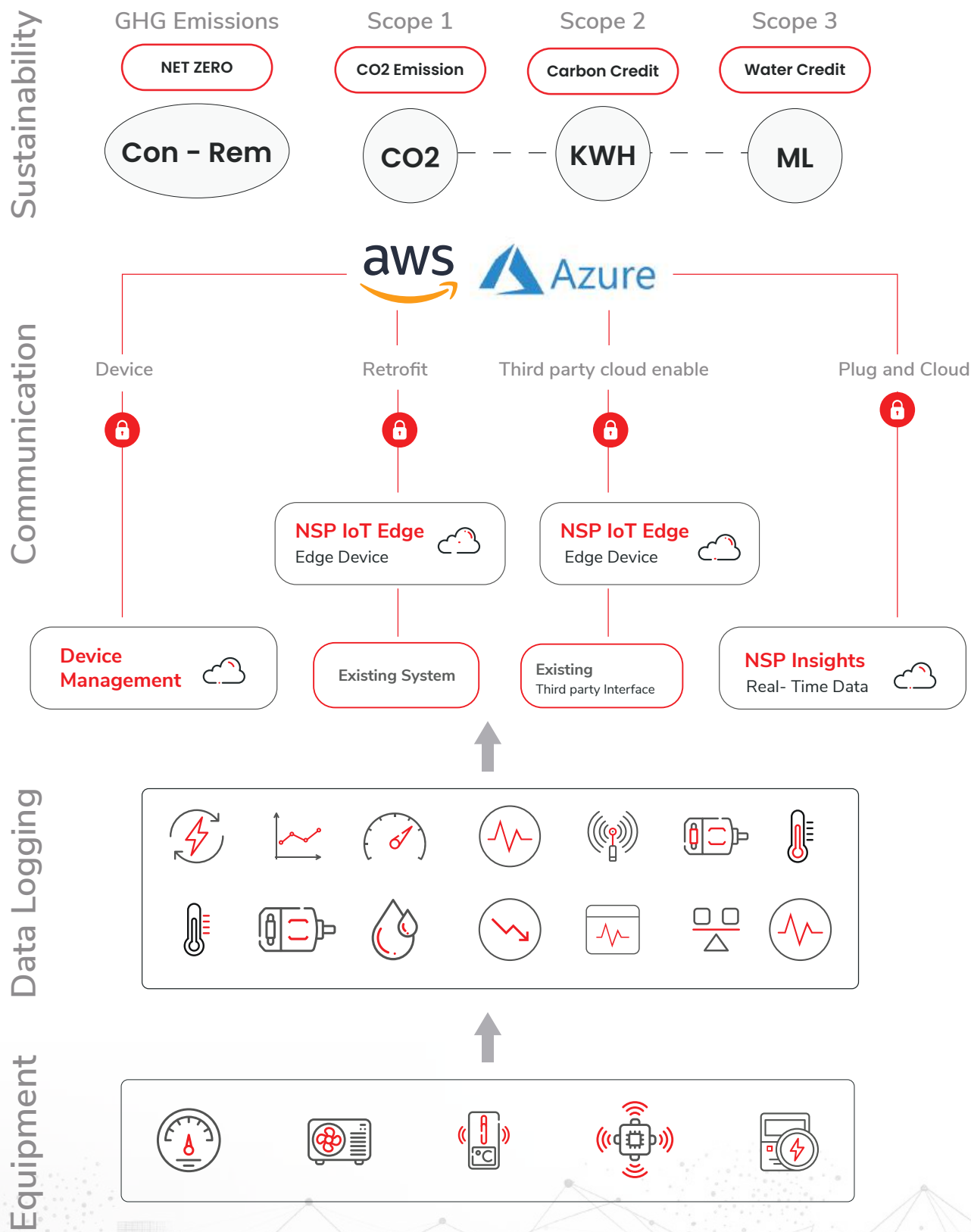> No personalized environment control

Energy Waste from Unoccupied Spaces

> Energy Wastage in Unoccupied Areas

> No Visibility into Space Usage

> Manual Monitoring & Inefficient Controls
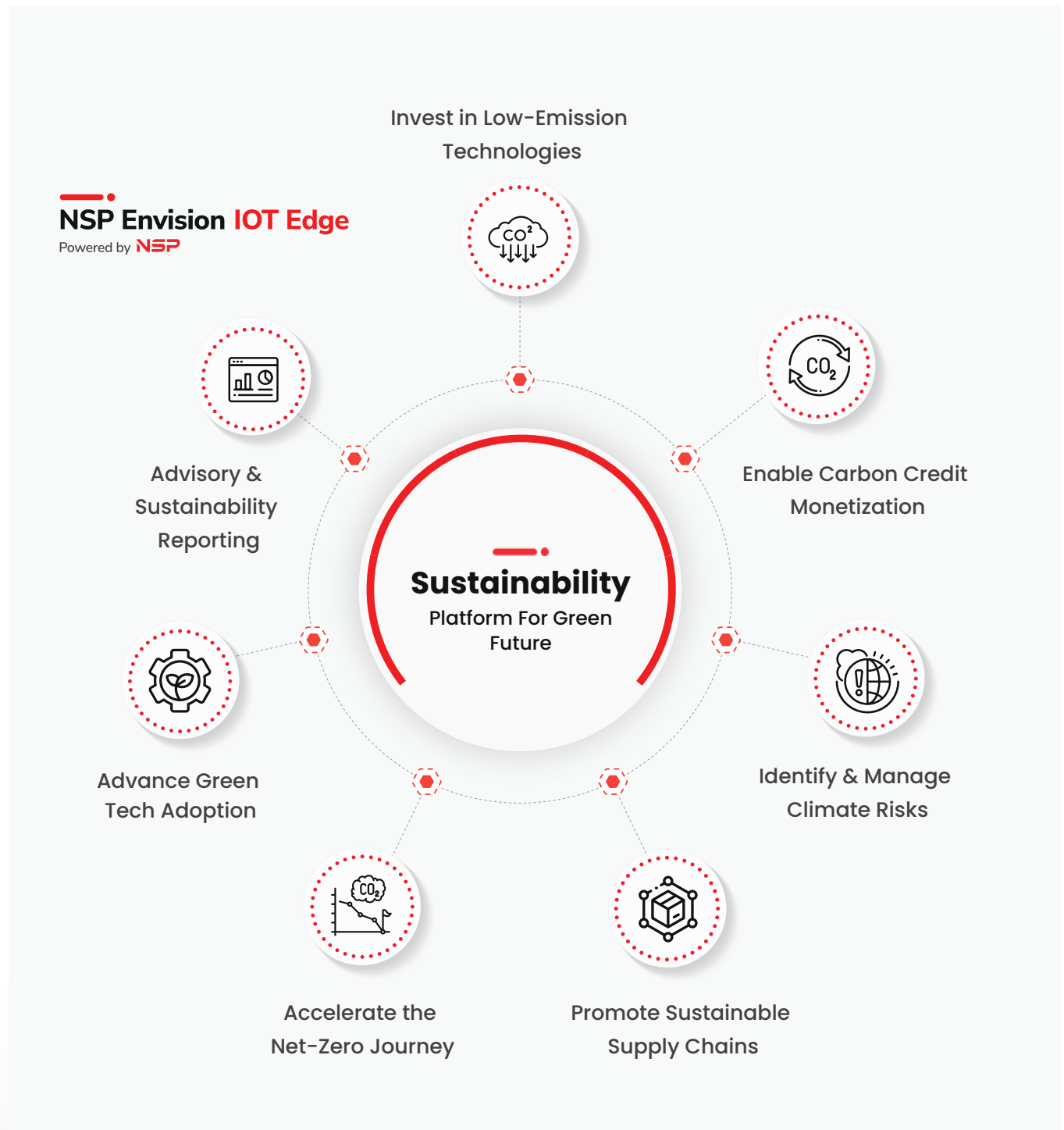
Security & Safety Challenges

> Disconnected access, CCTV, alarm, & visitor systems

> Slow response to incidents or occupancy anomalies

Solution Architecture & Modules

Sustainability

GHG Emissions | Scope 1 | Scope 2 | Scope 3

NET ZERO | CO2 Emission | Carbon Credit | Water Credit

Con - Rem | CO2 | KWH | ML

aws | Azure

Communication

Device | Retrofit | Third party cloud enable | Plug and Cloud

NSP IoT Edge
Edge Device

NSP IoT Edge
Edge Device

Device Management

Existing System

Existing
Third party Interface

NSP Insights
Real- Time Data

Data Logging

Equipment

NSP Envision Platform

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

NSP Envision IOT Edge
Powered by **NSP**

Sustainability
Platform For Green Future

Invest in Low-Emission Technologies

Enable Carbon Credit Monetization

Identify & Manage Climate Risks

Promote Sustainable Supply Chains

Accelerate the Net-Zero Journey

Advance Green Tech Adoption
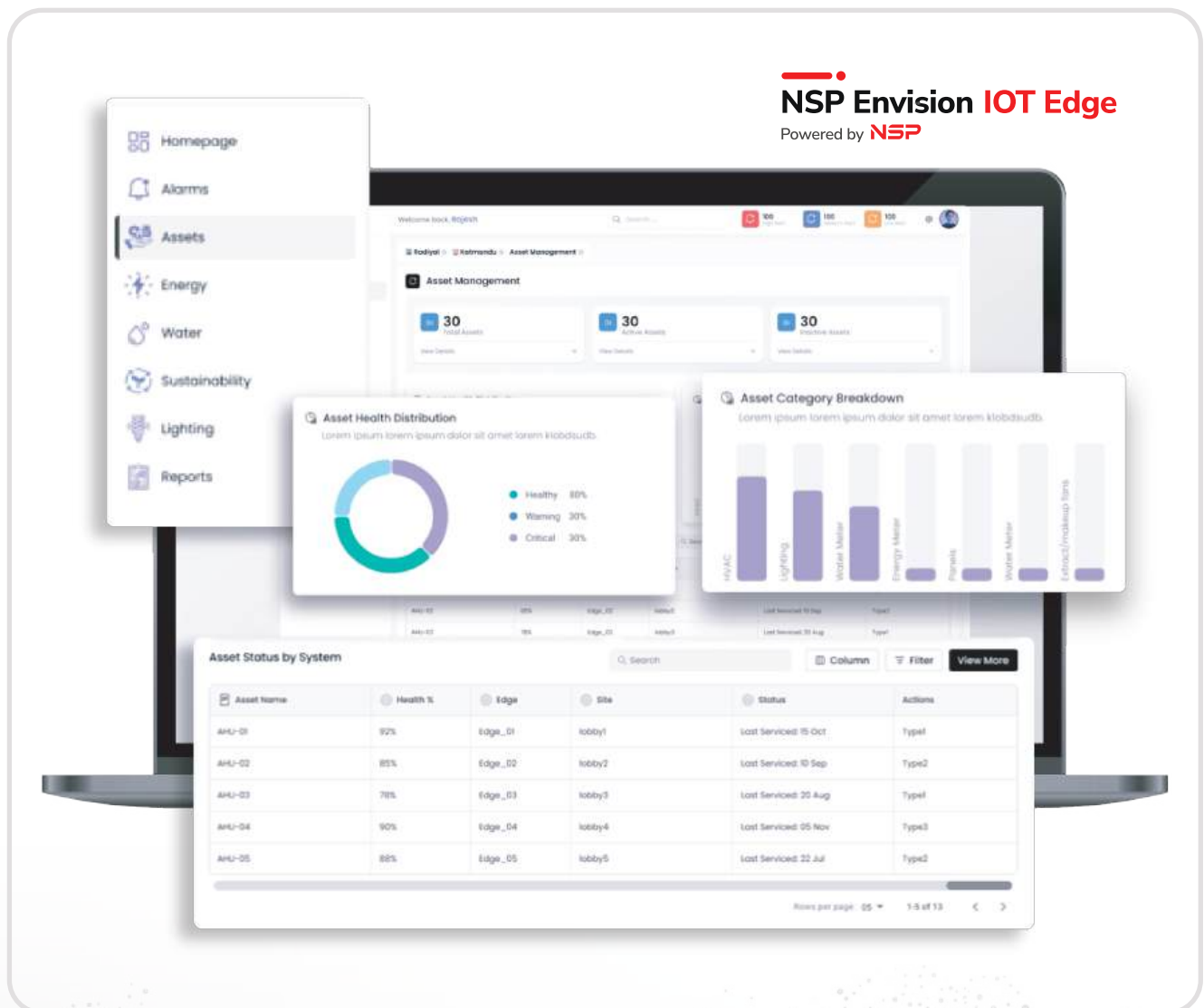
Advisory & Sustainability Reporting

Core Modules :

> **Integrated Operation Management**

Centralized control and monitoring of building operations, workflows, and service requests.
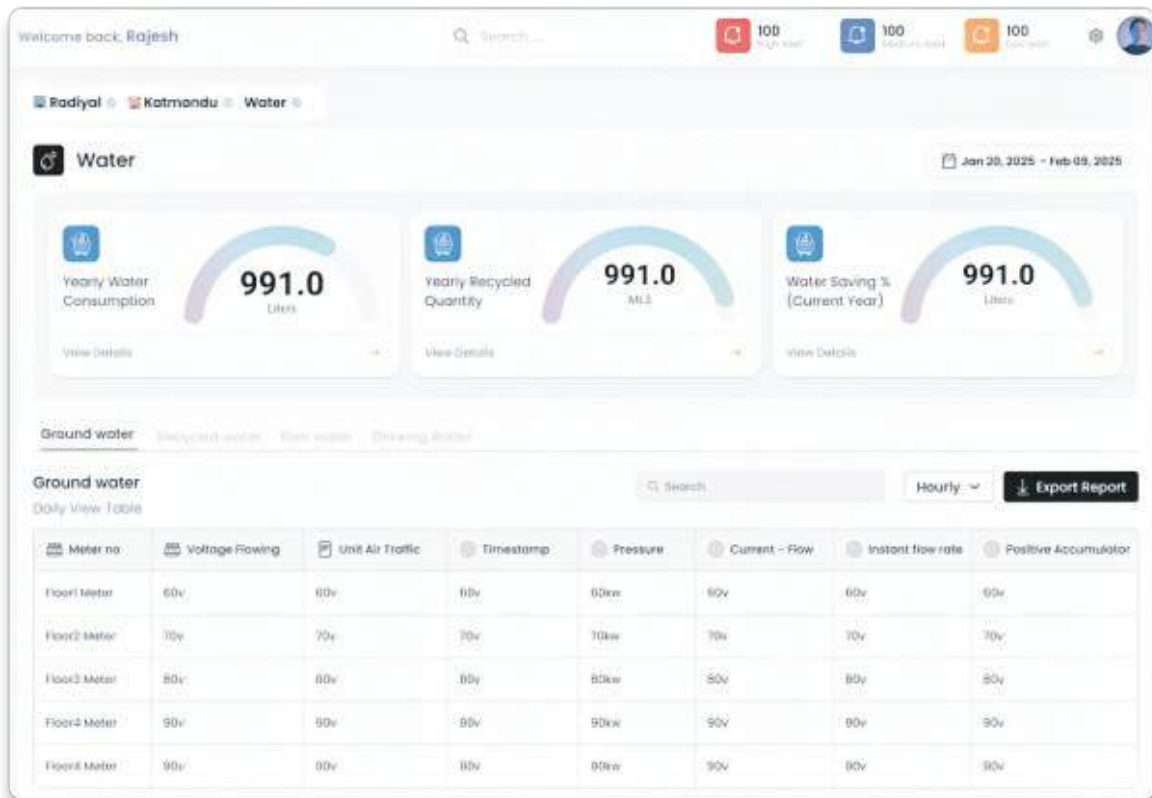
> **Asset Management**

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

Water Management

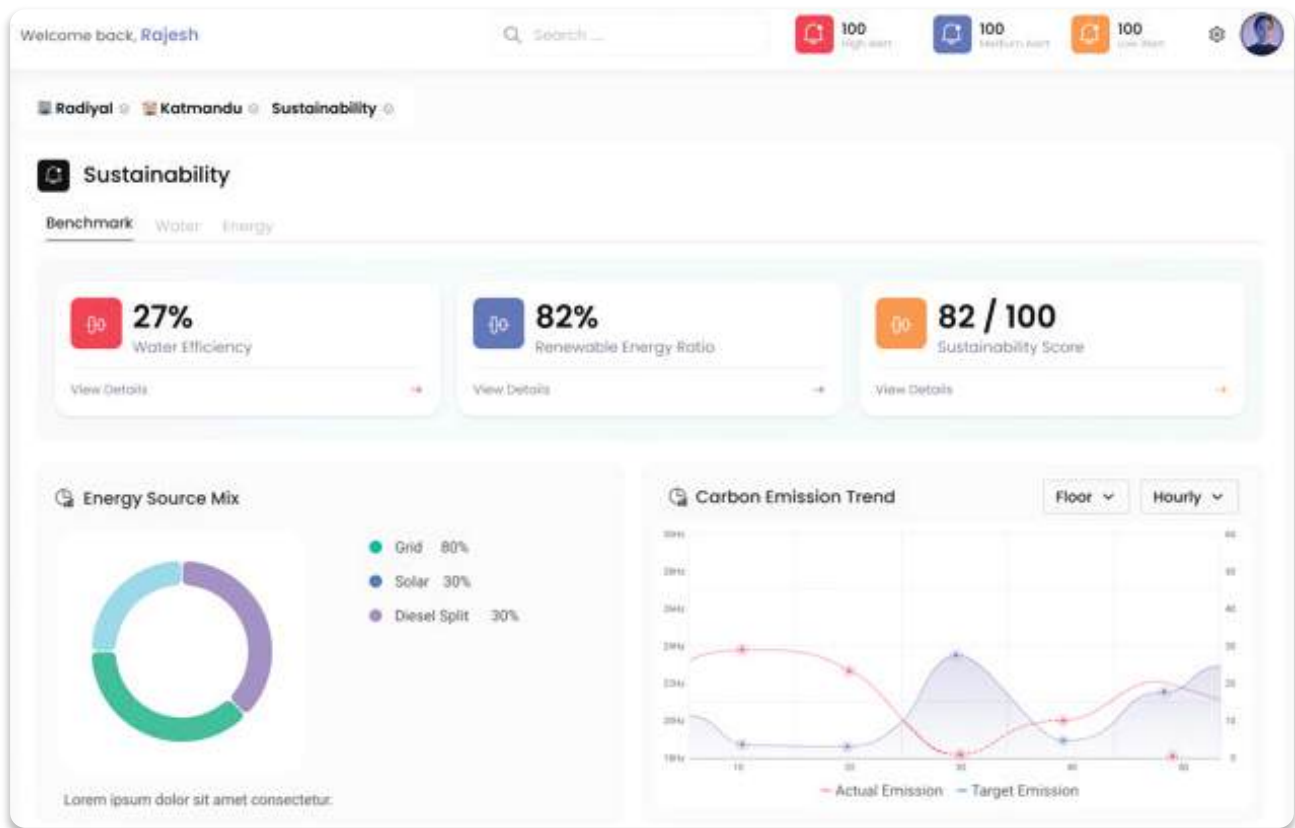Monitor and manage water usage, detect leaks, and optimize consumption.

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.
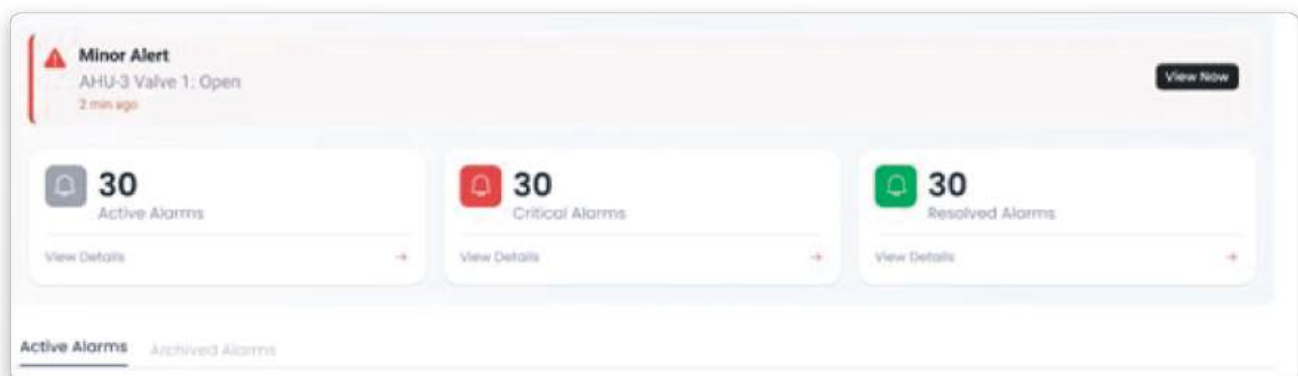
Sustainability

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

> **20%** Energy Reduction | **100%** Time Monitoring

Healthcare – Smart Hospitals

> Environmental and air-quality monitoring ensured better compliance, safety, and patient comfort.

> **Impact :** Sustainable operations with higher patient satisfaction.

04

> **15–20%** Energy Savings | **100%** Automated Climate Control

Education – Smart Campuses

> 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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UAE

Bangalore
India

INDIA

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