



windmason
BREATHE THE FINEST

ECOEDGE AI

Decarbonizing the Planet
One Building at a Time

UAE | Oman | Saudi Arabia | Bahrain



WHAT WE DO

We make HVAC systems
green, sustainable & highly effective



ACTIVE DEPLOYMENTS

FIVE
PALM JUMEIRAH DUBAI



park inn
by Radisson
DUBAI MOTOR CITY



الحبتور
ALHABTOOR
PARK REGIS
KRIS KIN HOTEL • DUBAI

Radisson RED



HERIOT
WATT
UNIVERSITY



PLANNED DEPLOYMENTS



Saudi German Hospital
Radisson BLU

DELTA
HOTELS
MARRIOTT
JUMEIRAH BEACH
DUBAI



JBC MANAGEMENT DMCC
جيه بي سي مانجمنت م.د.م.س



RAFAL
TOWER

TRYP
BY WYNDHAM



Rotana

DIFC





SHIFT TOWARDS DECARBONIZATION

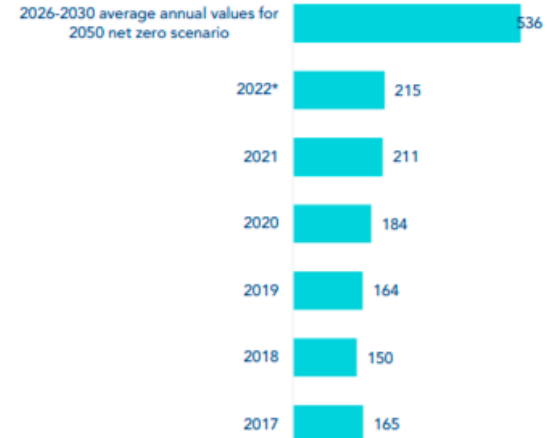
Commitments to net-zero carbon dioxide (CO₂) or GHG emissions targets cover 88% of countries' emissions:

- UAE – 40% reduction in carbon emissions by 2030
- KSA – Reduction of 278 mtpa CO₂E emissions by 2030
- Qatar - 25% reduction in GHG emissions by 2030
- Oman - 21% reduction in GHG emissions by 2030
- Bahrain – 30% reduction in CO₂E emissions by 2035
- Kuwait – 7.4% reduction in CO₂E emissions by 2035

THE WAY FORWARD

Enhancing energy efficiency by employing superior technology:

ANNUAL INVESTMENT IN ENERGY EFFICIENT BUILDINGS FROM 2017 TO 2022, AND NET ZERO FORECAST FROM 2026 TO 2030, IN USD BILLION, WORLDWIDE





Our way

Employ ML to learn about usage patterns, feed key data through external sources and enable AI to make data centric decisions to achieve HVAC efficiency

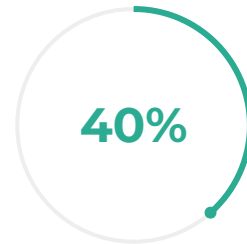
Our users



Malls, hospitals, airports, factories, hotels, and residential, industrial and commercial buildings around the world



↓ Energy bills



↓ Carbon footprint



↑ Comfot



↓ Operational problems

OUR TECHNOLOGY



World's Smallest AI Supercomputer

Jetson Xavier NX

Globally Certified

CE/FCC Class A & SOC 2 certifications

Plug & Play

USB, Ethernet, HDMI, DIO, COM/CANBUS

Interoperable

BACNet, Serial communication via RS485/RS232

Energy Efficient

Utilizes EDGE computing which produces 74.46 Kg CO2e per year

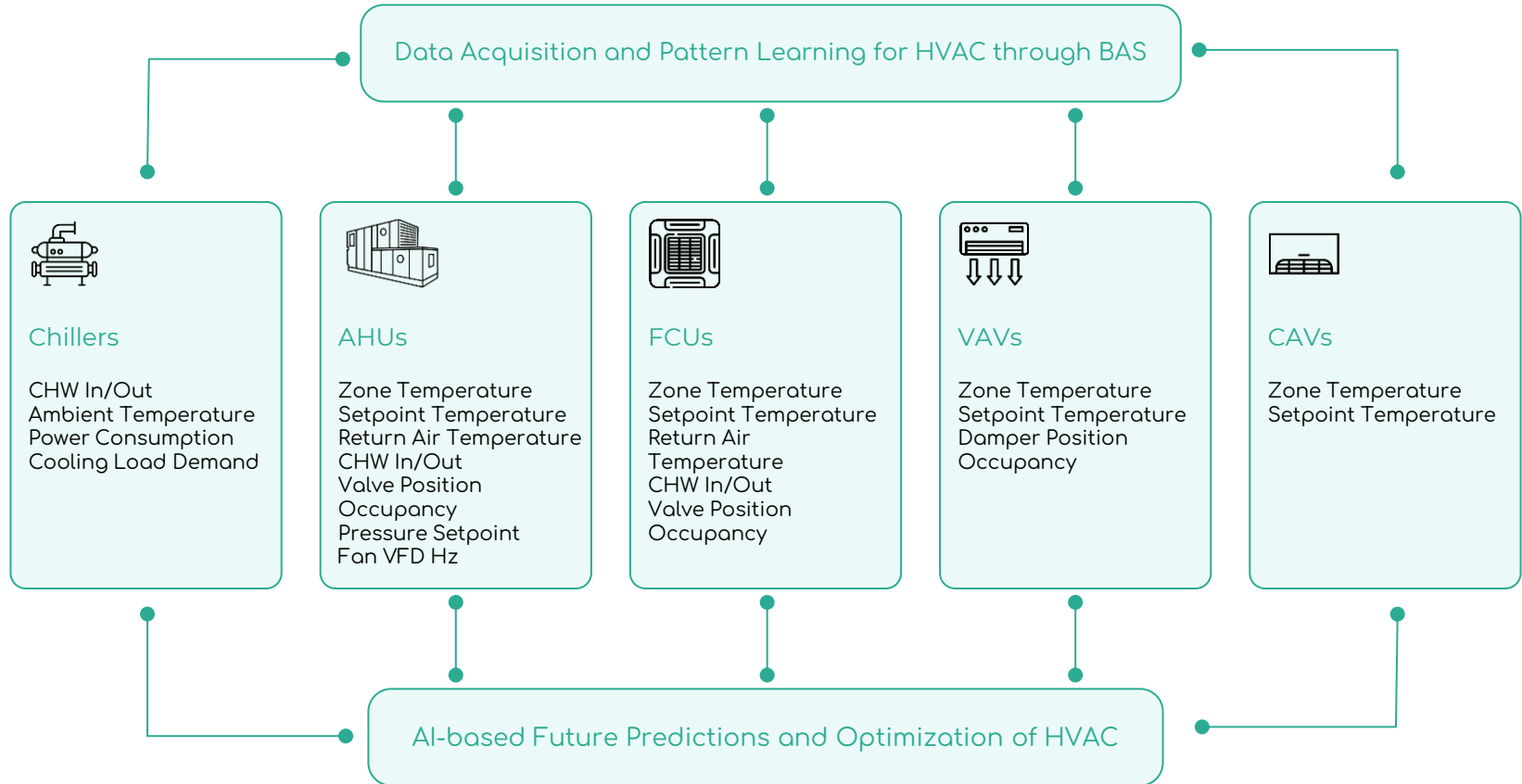
Autonomous

Zone conditions, setpoints, future predictions, energy savings



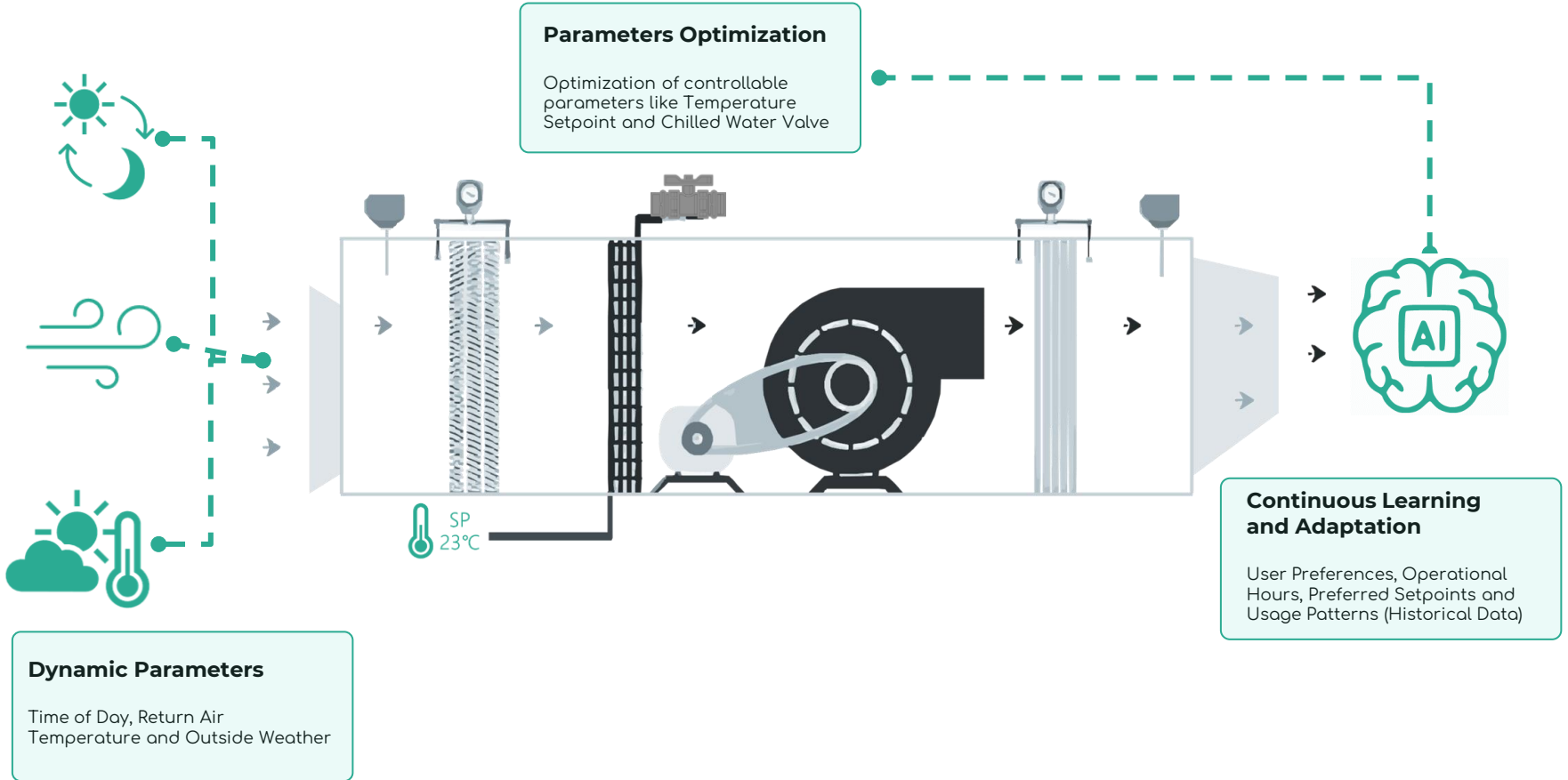


OUR SOLUTION





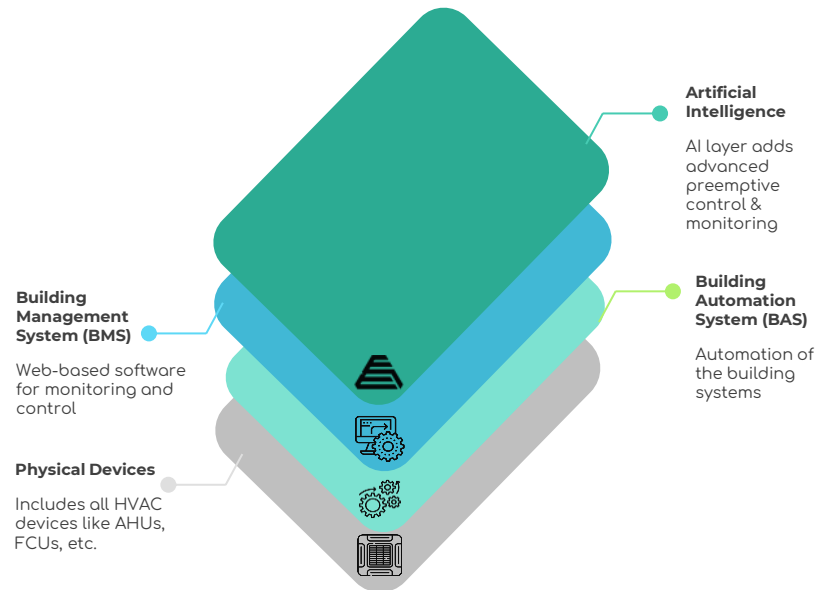
SAVINGS OPPORTUNITY



VALUE PROPOSITION

Reactive vs. Proactive

Feature	Conventional BMS (Reactive Approach)	EcoEdge AI (Proactive Approach)
Data Collection	X Limited	✓ Continuous
Data Analysis	X Minimal analysis	✓ AI-based predictions
Autonomous	X Manual adjustments	✓ AI-based actions
Energy Usage	X Energy wastage	✓ Dynamic optimization
System Learning	X Fixed rules-based	✓ Continuous learning and adaptation
Occupant Comfort	X Manual adjustments	✓ Auto-adjustments
Energy Efficiency	X Decreases with time	✓ Improves with time
Carbon Emissions Reduction	X No active focus	✓ Reduces energy waste and emissions



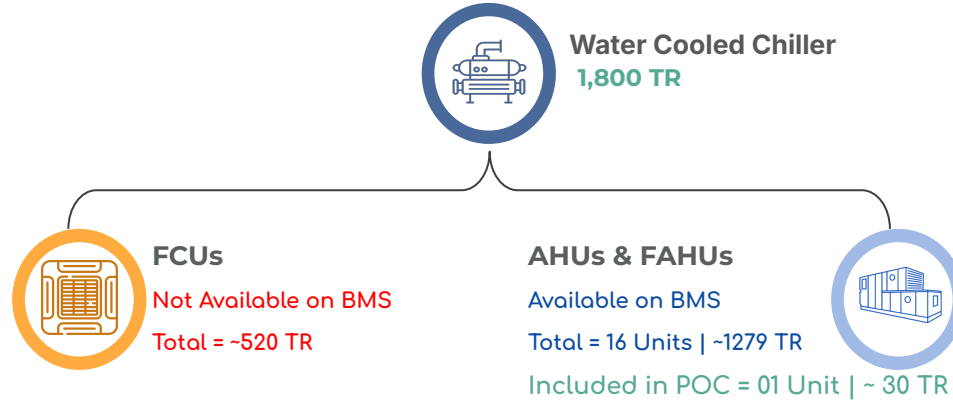
CASE STUDY: 01
SITE OVERVIEW

BMS Operation: 01/Jan to 08/Jan & 15/Jan to 22/Jan

EEAI Operation: 08/Jan to 15/Jan & 22/Jan to 29/Jan



Shaikat Khanum Memorial
 Cancer Hospital Jobs



Site Name	Air-side Equipment under Consideration	Total Tonnage (TR)	Tonnage under EcoEdge AI control (TR)	Operational Hours (hr)
SKMCH PESHAWAR	01	1,800	30 (1.66%)	24



26.95 %

**Energy Savings
Per Week**
(1.7% of the facility under POC)

30 TR

**Tonnage Under
Consideration**

18,974 PKR

Energy Savings

358 kWh

Electrical Energy Reduction

190 kg

CO₂ Emissions Reduction

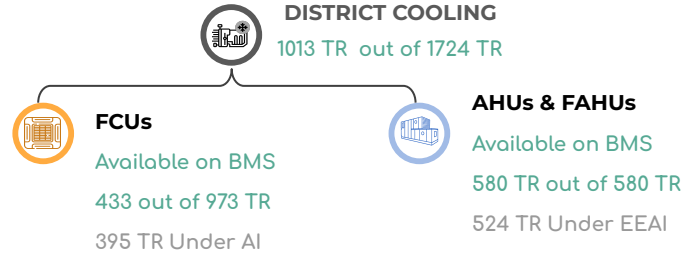


**Shaukat Khanum Memorial
Cancer Hospital Jobs**



CASE STUDY: 02

SITE INFORMATION



Site Name	Chilled Water Source	Air Side Equipment Controlled	Parameters Controlled
Radisson Red	1724 TR District Cooling	07 AHUs & FAHUs 172 FCUs ~919 TR (53.3%)	Valve Control

This report highlights the energy conservation outcomes delivered through the deployment of EcoEdge AI at Radisson RED. The analysis covers building operational behavior and annual energy performance for 2025, with specific emphasis on the AI-optimized period from May to December 2025.

KEY DETAILS

- A total of 7 AHUs & FAHUs and 179 FCUs are enabled under the AI mode.
- The readings from the BTU Meter is the parameter used for comparison. The monthly consumption is compared against the monthly budgeted cost for each month.



9.12 %

Overall Energy Savings from Budgeted Cost
(For 53.3% Cooling Capacity)

16.08 %

Reduction in Consumption per Occupancy

65,725 AED

Overall Energy Savings from Budgeted Cost
[May to December 2025]

919 (~53.3%)

Tonnage Under Consideration
(For Equipment under POC)

549,265 kWh

Energy Consumption Reduced

48.47 MT

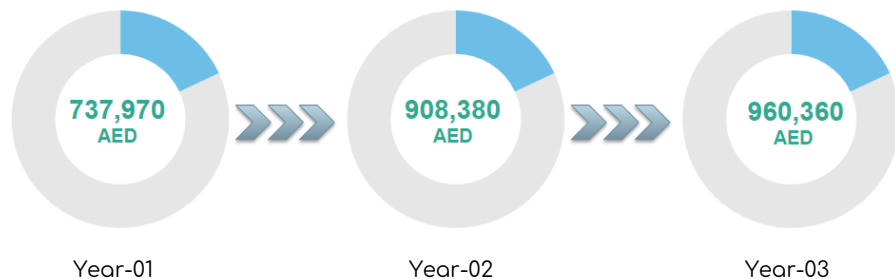
CO₂ Emissions Reduction

CASE STUDY

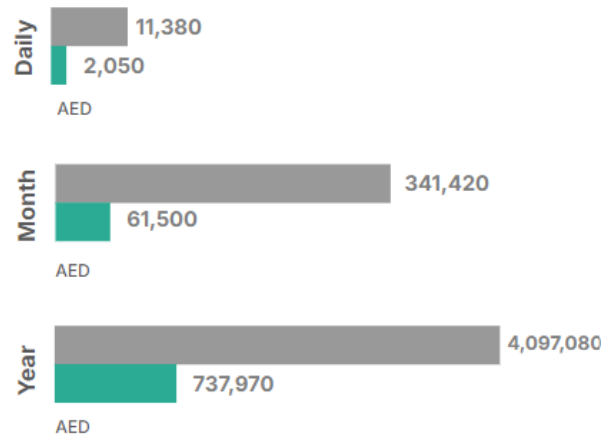
Luxury Hotel

	Reduction in Energy Consumption	Annual Reduction in CO2 Emissions
Year-01	18.01%	622.72 MT
Year-02	22.17%	766.18 MT

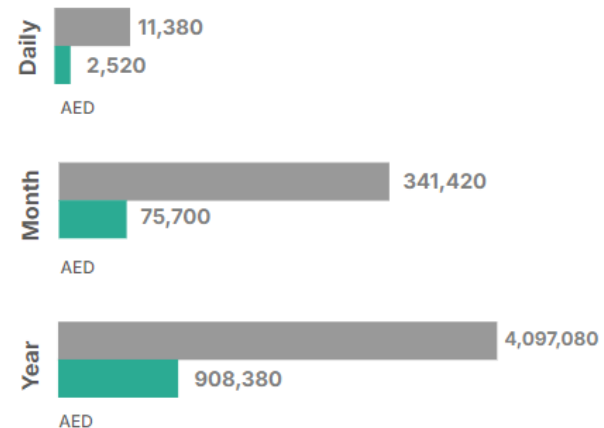
Projected Yearly Savings Potential



Projected Savings Potential for Year-01



Projected Savings Potential for Year-02



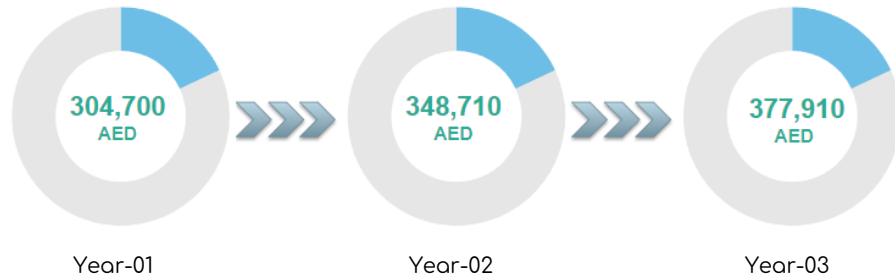


CASE STUDY

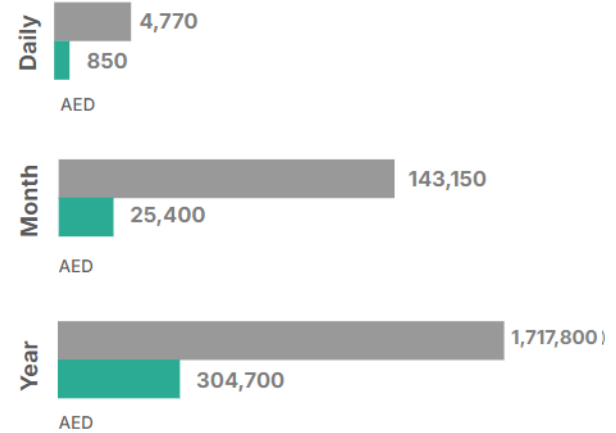
Residential Tower

	Reduction in Energy Consumption	Annual Reduction in CO2 Emissions
Year-01	17.74%	189.00 MT
Year-02	20.30%	194.10 MT

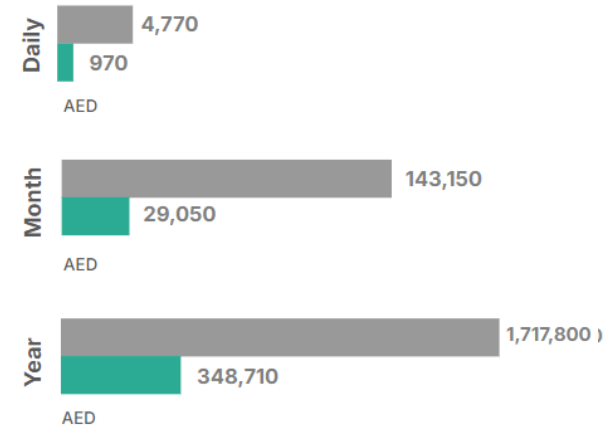
Projected Yearly Savings Potential



Projected Savings Potential for Year-01



Projected Savings Potential for Year-02



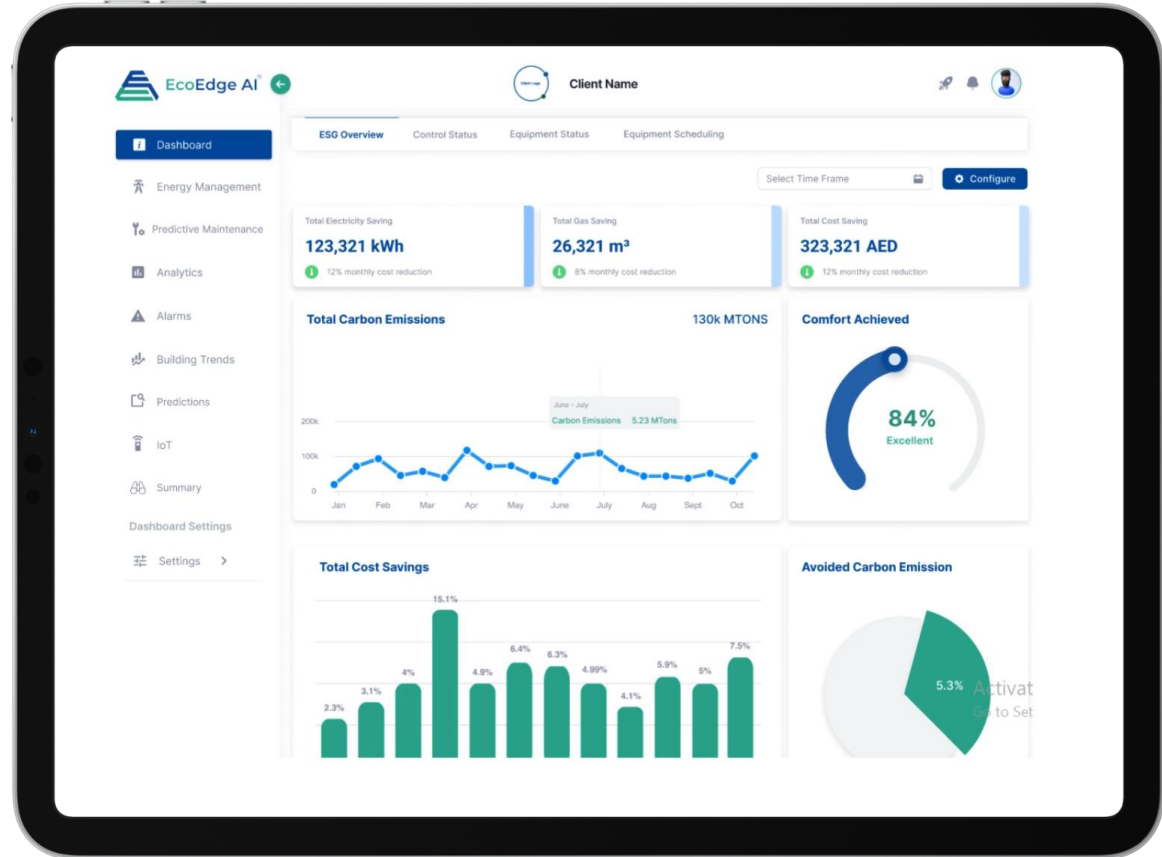
SOLUTION

User-Friendly Dashboard

Increase in energy efficiency reporting

Real time monitoring and data-driven control

Fault detection and diagnosis





DELIVERY

Our tech can
be integrated
with HVACs
within 7 days

Assessment

Our team
analyzes the
HVAC site then
lists specs and
details

Implementation

EcoEdge AI
integrates with the
HVAC system in
just 3-5 days

Findings

Findings and
possible energy
consumption
and reduction of
carbon shared
with building
manager

Proposal

Cost proposal is
shared with the
building owner



SERVICE

Flexible Payment Models



Pay Once

One time deployment
cost + annual
maintenance

(Break even in 16-18
months)

(Includes tech updates,
troubleshooting, monthly
visits)



Pay Monthly

One time deployment
cost + 50% from saving

(Break even in just 4-6
months)

(Includes tech updates,
troubleshooting, monthly
visits)

SPEAKING EVENTS

EcoEdge AI on the Global Stage

AI-Driven HVAC Optimization for Sustainable Urban Cities

LEAP | Smart Cities

Investing in the Future, the Energy Market, Vision, Opportunity, and Technology

LEAP | Future Energy

AI-Powered HVAC Efficiency – Startup City Exhibition Hall

BIG 5 Global

AI for Sustainability: Application in the Built Environment

Dubai AI & Web3 Festival

Clean Tech Forum

New Energy Nexus

AI & HVAC Energy Efficiency

AI 101 Strategic Workshop





SDG-FOCUSED

Our Contribution to the Planet





PAVE THE WAY FOR A GREENER FUTURE

5 Years, 5000 Buildings
3.2 Million tons of CO₂ emissions avoided

Key Projects



Project:

Riyadh Hospital

Eco Edge AI Deployment for HVAC Automation & Energy Saving.



Project:

Masjid Quba Associate with MDA

Eco Edge AI Implementation for Chiller Plant Optimisation & Energy Saving.



Key Projects



Project:
Ferrari world
Eco Edge AI Deployment for Energy Saving.



Project:
Radisson RED
Eco Edge AI Deployment for Energy Saving.



Key Projects



Project:
Palm Jumeirah
Eco Edge AI Deployment for Energy Saving.



Project:
Park Inn by Radisson
Eco Edge AI Deployment for Energy Saving.



Key Projects



Project:
Park Regis
Eco Edge AI Deployment for Energy Saving.



Project:
Al Habtoor
Eco Edge AI Deployment for Energy Saving.



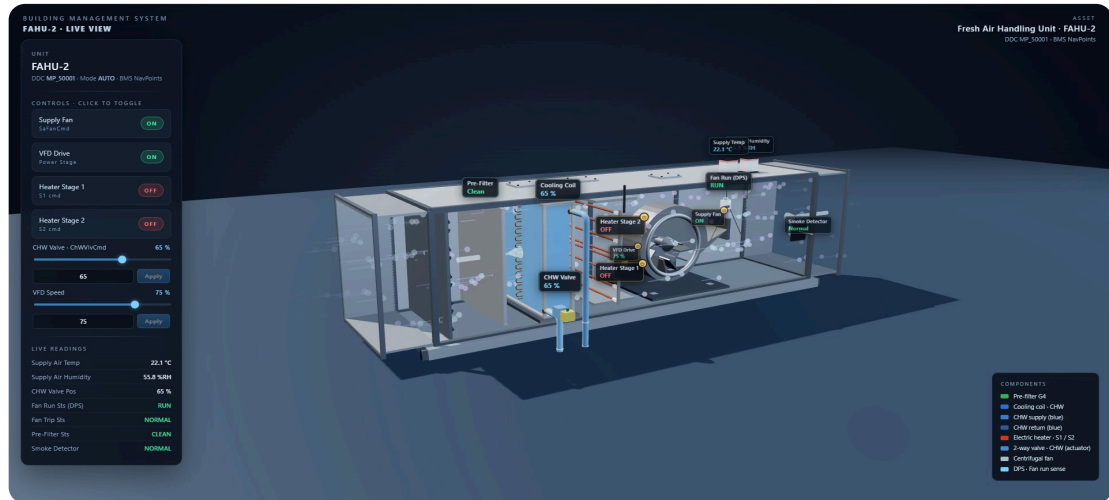
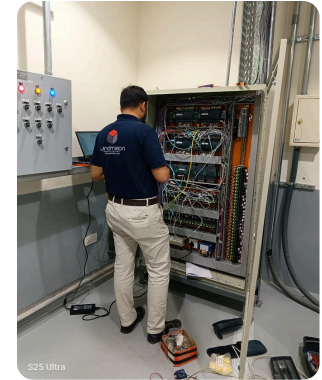
On-Site Work Activities

BMS Solutions

Providing advanced BMS solutions focused on smart control, monitoring, and energy-saving systems for efficient building operations.

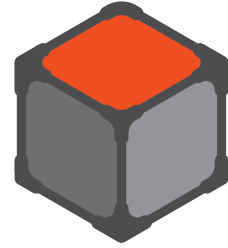
Energy Cost Reduction

Reduces energy consumption and operating costs without affecting performance.



Be Part of the Change

Start Decarbonizing with Us



windmason

BREATHE THE FINEST

www.windmason.com

CONTACT US



Landline:

+966 11 515 7284



Whatsapp:

+966 54 328 8265



Email:

Info@windmason.com



Web:

www.windmason.com