

AVAR SUCCESS STORY

AVAR



Global Sustainability Transformation for Mission-Critical Data Centers

As the digital economy accelerates and data centers scale rapidly, a critical challenge emerges, achieving aggressive sustainability and decarbonization goals without compromising availability, resilience, or performance. In enterprise environments where downtime costs millions per minute.

AVAR embedded sustainability as a core operational pillar across multiple geographies and live, mission-critical facilities. The objective was bold: to deliver a globally consistent, auditable, and scalable sustainability framework adaptable to regional regulations and energy markets, while introducing zero operational risk to business continuity.

This transformation addressed complex multi-regional challenges, including transitioning to zero-waste circular models, standardizing Scope 1, 2, and 3 emissions reporting, developing renewable-first roadmaps aligned with uptime requirements, and ensuring global consistency with local execution across KSA, Turkey, Qatar, Kuwait, Bahrain, and beyond, all within fully operational data center environments where downtime is not an option.

CHALLENGES

Transitioning from traditional waste management to zero-waste and circular economy models

Establishing consistent, auditable sustainability reporting across Scope 1, 2, and 3 emissions

Developing a renewable-energy-first roadmap aligned with uptime, redundancy, and resilience requirements

Ensuring global consistency with local execution across regions including KSA, Turkey, Qatar, and beyond

Delivering Measurable Results: Sustainability Without Compromise

At AVAR, sustainability is a leadership-driven, long-term commitment, embedded into governance, operations, and innovation. It is not a parallel initiative; it is part of how AVAR operates.

AVAR's structured approach transformed ambitious environmental goals into operational reality, establishing a centralized sustainability reporting model that enables real-time visibility, benchmarking, and continuous improvement.

Powered by our Three-Vertical Model, integrating governance, execution, and innovation, we deliver sustainability without compromising mission-critical uptime. We engineer it, operate it, and continuously optimize it, turning ESG performance into measurable resilience and long-term value.



Global Strategy, Local Commitment

Sustainability strategy and governance frameworks are developed at the global level to ensure consistency the real impact happens through localized execution



Uptime Collaboration, Strategic Roadmap

Alignment with Uptime Institute principles ensures that every sustainability decision undergoes rigorous evaluation for operational impact before implementation



Green Certifications & LEED Enablement

Operational & maintenance procedures and documentation aligned with LEED and internationally recognized green certification standards



Renewable Energy First

Development of structured renewable energy adoption roadmap and alignment with regional energy policies and client sustainability commitments



Zero Waste & Onsite Composting

Structured waste segregation and diversion framework implemented across operations, targeting improved material recovery, including onsite composting in Abu Dhabi

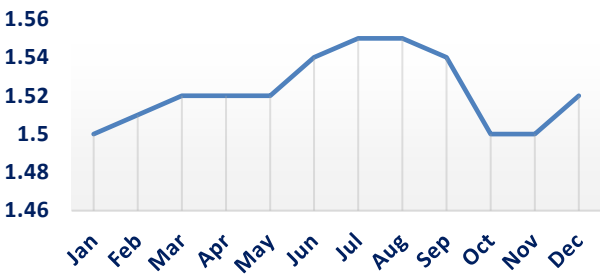


AI-Predictive Optimization

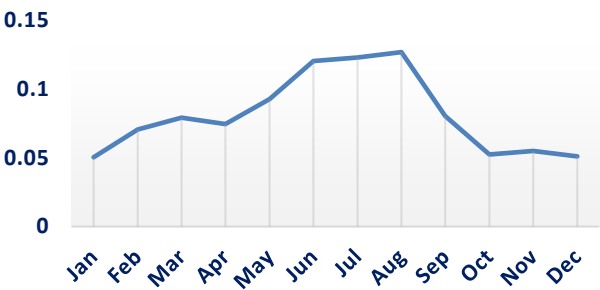
AI-powered predictive analytics platform enabling predictive identification of energy inefficiencies and real-time performance optimization across mechanical and

Turning Metrics into Meaning

PUE Trend



WUE Trend



Emissions Trend [KgCO₂]



479 kg CO ₂ e emissions prevented	218 liters of gasoline not consumed	Total Estimated Compost	
		Yield (2024 – 2025)	Share (2025)
1,782 kilometers not driven	58,331 smartphones not charged	69 kg	7 kg

Contamination rate (General waste)	Number of Trips	Number of bins collected	Daily average
7.5%	90	85	1.4 kg

AVAR

Renewable Energy Transformation



Global Roadmap to Net-Zero: 2030-2050

By 2030

1

- Material reduction in operational carbon intensity
- Continuous improvement of PUE and WUE across regions
- Scaled renewable energy readiness and sourcing strategies
- Mature, auditable sustainability and ESG reporting

2

By 2050

- Net-zero operational emissions across AVAR-managed portfolios
- Renewable-first energy operations adapted to regional grid conditions
- Fully AI-enabled sustainability optimization
- Closed-loop waste and resource management embedded by default

Resilient today. Net-zero ready. Engineered for the future.



Global Compliance



AVAR demonstrated that sustainability and mission-critical operations are not competing priorities. The structured, data-driven approach transformed our environmental goals into operational reality.



Clean Data Optima Structure

