



Smarter Solutions, Greener Future



Driving change, empowering lives

Khansaheb Group

Khansaheb Group has been shaping the development of the UAE since 1935, playing a pivotal role in delivering many of the nation's most iconic landmarks. Today, we are a fourth-generation family business and a diversified enterprise with a proud legacy and a future-focused outlook. With a bold vision, Khansaheb Group is expanding strategically in all directions, backed by a growing and dynamic portfolio of businesses.

Our Vision

Khansaheb Group's vision is to continuously excel as a dynamic, diversified and differentiated Group, enriching the legacy of integrity built over generations and powering a strong and sustainable future for our people, communities and nation.



Contents

Khansaheb Sustainability	7
Our Values	8
Why Choose Khansaheb Sustainability	9
Our Solutions	11
Life Aura	13
Air Purifications Systems	14
Solar Energy and Storage	16
Hydrogen On Demand	17
Sustainable Construction Materials	18
Aquaponics	20
Our Sectors	21
Contact Us	22



Welcome to Khansaheb Sustainability

Smarter Solutions. Greener Futures

Khansaheb Sustainability is a subsidiary of Khansaheb Group, committed to providing innovative solutions that support and enhance environmental sustainability.. With a legacy of excellence since 1935 through the Khansaheb Group, and in collaboration with BDB Network, we drive innovation through integration of cutting-edge environmental technologies across real estate, industrial, and public sectors. Through our flagship Life Aura platform, we provide complete systems for air purification, solar energy generation and storage, water treatment, and sustainable living. These solutions are available through flexible rental plans or direct purchase, making sustainability accessible to everyone.

Our Mission

To make sustainability accessible, effective, and scalable by delivering integrated environmental systems that balance performance, adaptability, and measurable return.

Our Values

Our values form the foundation of our corporate culture, holding us together and enabling us to deliver on our promises and achieve our ambitions for the future.



We are one family

Everything we have achieved across our group and for our nation is the result of the unbreakable bonds of trust, care and duty that unite every individual across the Khansaheb Group.



We foster trust

Our reputation and long-term relationships are built on a strong foundation of acting with integrity towards all our stakeholders and conducting our business in an ethical and responsible manner.



We transform communities

Our exceptional products, services and projects deliver meaningful and lasting positive change across the communities we serve.



We empower lives

Our work enriches the lives of countless people each day, as we power possibility, accelerate impact and nurture meaningful careers.



We pursue excellence

Our outstanding reputation with our customers, partners and communities is built on consistently delivering the highest standards of quality, reliability, service and value.



We build the future

As we have for over nine decades, we remain agile, ambitious and innovative to shape a sustainable future for our people, our group and our nation.

Why Choose Khansaheb Sustainability

Vendor-neutral, Technology-agnostic Solutions

We evaluate multiple technologies and manufacturers to design the right solution for each project. Recommendations prioritise performance, interoperability, and total cost of ownership, not vendor lock in, and the architecture is future proof so components can be swapped or upgraded as needs evolve.

All-inclusive Subscription Model or Direct Purchase

Choose a predictable monthly subscription that bundles hardware, software, installation, maintenance, consumables, and upgrades, or opt for a classic capital purchase. Both paths include the same service quality, documentation, and support options. Commercial terms are transparent and easy to scale up or down.

Guaranteed ROI and Environmental KPIs

Every deployment starts with a baseline, agreed targets, and a clear measurement and verification plan. Real-time dashboards show progress against KPIs such as energy saved, CO₂ avoided, air quality improvement, and water efficiency.

Custom Design for Indoor, Outdoor, Public and Private Use

Our solutions are designed to fit the environment, whether in offices, malls, hospitals, airports, transit hubs, schools, parks, or industrial sites. Each system is carefully planned to account for airflow, occupancy, climate, acoustics, and aesthetics, ensuring seamless integration with existing infrastructure and local regulations. With rapid deployment options, projects can move quickly from pilot installations to large scale rollouts.

Scalable and Fully Managed via Real-time Monitoring

A unified platform provides 24/7 device health, alerts, and remote configuration to keep performance at peak. Over-the-air updates, proactive maintenance, and anomaly detection reduce downtime and site visits. Centralized reporting simplifies portfolio management across locations and stakeholders.



Our Solutions

Life Aura™

Life Aura™ brings together our full portfolio of air, energy, water, and building technologies into a cohesive, cloud-connected ecosystem. It turns environmental performance into a measurable, manageable, and monetizable asset, helping you track impact, improve operations, and future proof infrastructure investments.

Air Purification Systems

Our systems destroy pollutants at the molecular level, eliminating VOCs, bacteria, viruses, and fine particles with zero maintenance.

Solar Energy and Storage

Our sculptural solar structures and intelligent storage solutions deliver clean energy with EV, signage, and IoT ready integrations.

Hydrogen Systems

A breakthrough system that makes hydrogen accessible, efficient, and practical. Designed with advanced technology, it delivers higher performance, enhanced safety, and real-world adaptability across multiple industries, paving the way to a carbon neutral future.

Aquaponics

By linking fish farming with plant cultivation, aquaponics creates a reliable food production system that thrives even in regions with limited farmland and scarce water. For the UAE and the wider Middle East, it represents not just an innovation, but a vital step toward longterm food security and sustainability.

Sustainable Construction Materials

Hemp and lime based materials that reduce carbon, regulate moisture, and outperform conventional insulation and walling systems.



Life Aura™

Integrated Platform for Smart Sustainability and Efficiency

Life Aura™ is Khansaheb Sustainability's most advanced ecosystem that seamlessly integrates clean air, renewable energy, water management and building technologies into one intelligent platform.

Be it a school, hospital, government building, or smart development, Life Aura™ intelligently adapts to evolving needs.

A Complete Environment as a Service Platform

AI Monitoring and Diagnostics

Gain real-time insights on pollution levels, energy usage, environmental health, and carbon offsets through intelligent dashboards.

Remote Control and Predictive Maintenance

Automate triggers, receive alerts, and proactively address issues with complete overview across multiple sites.

Compliance and Certification Tools

Automatically gather data for ESG reports and regulatory compliance.



Air Purification Systems

Greener Air Solutions for Healthier Spaces

Our advanced air purification systems are designed to eliminate pollutants—not just trap them. Inspired by the natural ability of plants to improve air quality, our photocatalytic technology takes this principle to the next level. Through an advanced process called photocatalysis, our filters use nanotechnology coatings that, when activated by light, generate highly reactive radicals. These radicals break down harmful pollutants, bacteria, and viruses at a molecular level, converting them into harmless substances.

Our Products



Albero

Albero is designed for domestic use, ideal for placement on consoles and desks to ensure clean and safe air where it matters most.



Air Compact

Air Compact combines advanced air purification with a clean, linear design. Designed for home and professional environments



Air Totem (Indoor & Outdoor)

Air Totem is a smart air purification system built for both indoor and outdoor spaces. It uses advanced photocatalytic technology to remove pollutants, fine particles, and harmful emissions in places like malls, airports, transit hubs, and public venues. While its integrated digital screens transform the unit into a powerful platform for communication and advertising.



Albero Urban

Albero Urban is designed to bring advanced air purification into larger shared environments while creating a strong visual statement..It is also suitable for waiting areas in major infrastructures such as stations, airports, and museums, offering purified relaxation zones that reconnect passengers and visitors with nature.



eCoating

eCoating is an invisible protective layer that uses only air and light to purify the environment. Through the process of photocatalysis, it continuously decomposes harmful substances such as viruses, bacteria, mould, fungi, VOCs, NOx, particulate matter (PM1-PM10), and odours, transforming them into harmless by-products like water and carbon dioxide.

Solar Energy and Storage

Smart Solar Solutions for a Greener Future

From rooftop arrays to sculptural urban structures, our solar energy and storage systems generate clean energy, reduce grid dependence, and integrate seamlessly into your built environment.

Power your spaces sustainably with our high-performance solar energy and battery storage systems, designed for efficiency, aesthetics, and real-world functionality. Whether you're running lighting, air systems, digital signage, or entire facilities, we provide modular solutions for on-site generation, energy savings, and resilience.

From design to deployment and diagnostics, we work with you to build a solar system that supports your energy needs and strengthens your ESG commitments.

Our Products



Sculptural 3D Solar Energy Generators

- 20 times more efficient than flat panels
- Built-in air circulation and self-cleaning features
- Available in modular sizes to suit your space
- Solar-powered LED signage



Storage System

- Compact, fireproof, plug-and-play storage unit, ideal for smaller installations.
- Smart, high-capacity storage solution with AI-enabled predictive energy management
 - Available in both grid-connected and off-grid configurations
 - Built for scalability and long-term resilience

Hydrogen On Demand: Powering a Sustainable Future

Clean. Safe. Innovative.

A breakthrough system that makes hydrogen accessible, efficient, and practical. Designed with advanced technology, it delivers higher performance, enhanced safety, and real-world adaptability across multiple industries paving the way to a carbon neutral future.

Technology

Our system is built on an optimized electrolysis process with advanced electrode design. This allows hydrogen to be produced only when required, eliminating the need for high-pressure storage. The result is a highly efficient, safe, and scalable solution that brings clean energy within reach for industries and communities alike.

Applications

Hydrogen On Demand supports diverse sectors:

- Transportation – Enabling land, sea, and air mobility with clean and safe hydrogen power.
- Industry – Reducing emissions in energy-intensive production environments.
- Research & Technology – Driving innovation and scientific advancement.
- Energy – Powering turbines and electricity generation with on-site hydrogen availability.

Safety

Safety is built into every layer of the system:

- Hydrogen is generated only when needed, preventing dangerous accumulation.
- Automatic shut-off in case of anomalies or incidents.
- Zero explosion risk when vehicles are idle, as hydrogen reverts to water.
- Continuous monitoring and control of all components, 24/7.

Technology

By adopting this solution, organisations and governments can:

- Substantially reduce CO₂ emissions.
- Enable eco-friendly and scalable mobility solutions.
- Advance green economy initiatives in line with UAE Vision 2030.

Sustainable Construction Materials

Redefining Construction with Nature and Science

Khansaheb Sustainability offers natural, bio-based building materials designed to reduce energy use, promote healthier indoor environments, and minimize environmental impact. From new construction to retrofits, our solutions create breathable, high-performance structures with unmatched sustainability credentials.

Product Range

Hemp Brick

The Khansaheb Sustainability Hemp Brick is a bio based material designed to transform sustainable construction. Made from hemp shiv, dolomitic lime, probiotics, and water, it blends simplicity with outstanding performance.

Hemp is a fast-growing plant with exceptional biomass potential. As it matures, it absorbs significant amounts of CO₂ from the atmosphere, creating a naturally carbon negative balance. Our Hemp Bricks lock away more carbon dioxide than is released across their entire life cycle, making construction not just sustainable but a proactive step in combating climate change.

Key Advantages

Provides thermal, acoustic, and hygrometric comfort, ensuring healthy indoor environments.

- Naturally resistant to fire, frost, insects, and rodents, making it safe and durable in diverse climates.
- Breathable and vapour-permeable, preventing condensation and mold growth.
- Non-toxic, VOC-free, recyclable, and biodegradable, ensuring sustainability at every stage.
- Manufactured with low embodied energy, reducing environmental impact.



Photocatalytic Pavements

Our photocatalytic outdoor and indoor flooring is more than a surface: it is an active contributor to cleaner air, healthier environments, and more sustainable cities. Powered by the advanced Tx Active® technology, the upper layer of the material activates a natural photocatalytic reaction under sunlight or artificial light. This process breaks down harmful pollutants such as: NOx, VOCs, PM10, SOx.

Key Advantages

Cleaner Air

Reduces harmful pollutants, directly supporting public health and improving the quality of life.

Premium Aesthetics

Available in a wide palette of exclusive colors and finishes, seamlessly blending with both modern and traditional architectural styles.

Self-Cleaning Properties

Minimises dirt accumulation, ensuring elegant surfaces with reduced maintenance.

Sustainability at Core

Designed to minimize environmental impact throughout production, installation, and its entire lifecycle.

Glow-in-the-Dark Innovation

With the addition of photoluminescent quartz and glass pebbles, our photocatalytic flooring is also offered in a glow-in-the-dark variant for unique applications. These components provide a gentle, alluring glow by absorbing natural or artificial light throughout the day and releasing it at night.



Aquaponics

Food production redefined – Fresh, Sustainable, Efficient.

Agriculture is changing fast as the world looks for ways to grow more food while using fewer resources. Aquaponics is one of the most promising solutions, combining modern systems with the balance of nature to produce fresh, healthy food year-round. For regions like the UAE and the wider Middle East, where water and farmland are limited, it provides a practical path toward food security and sustainability.

In our model, fish farming is paired with the cultivation of premium herbs, creating a natural cycle where plants and fish support each other to deliver fresh, sustainable produce.

- **Fish** – Their organic waste becomes the key nutrient source for plants.
- **Biofilter** – Converts fish by-products into nitrates, essential for healthy growth.
- **Plants** – Absorb nutrients, clean the water, and keep the cycle going.
- **Water** – More than 90% savings compared to traditional farming, as it is constantly recycled.

This closed loop system operates with zero waste, delivering higher yields, faster plant growth, and consistently fresh produce.

Water Efficient: Uses up to 90% less water than conventional farming, an essential advantage in arid climates.

Chemical Free: No pesticides or herbicides are used, ensuring safe and flavourful crops.

Year-Round Harvests: Controlled environments allow continuous production regardless of the season.

Sustainable by Design: Works with renewable energy sources to further reduce emissions.

Premium Quality: Perfect for hospitality, retail, and consumers who value freshness and excellence.



Our Sectors

Tailored Integrated Systems Built for Efficiency Across Industries

Every industry faces unique environmental challenges—from maintaining clean indoor air in public spaces to reducing energy consumption in round-the-clock facilities.



Real Estate & Smart Buildings



Hospitality & Resorts



Retail (Malls & Stores)



Healthcare & Clinics



Museums & Cultural Sites



Airports & Transport Hubs



Parks & Public Spaces



Schools & Universities



Government Facilities & Infrastructure

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