

**Innovating Agro Ecology  
Feeding Future**





ESG Agro pioneers climate-smart agriculture in Abu Dhabi, transforming over 300 hectares of desert land into productive, sustainable farms. We use water-efficient systems, regenerative practices, and smart animal nutrition to grow high-quality crops and forage using brackish water and treated wastewater. Our circular model turns local biomass into eco-friendly feed and food inputs—enabling off-season production and supporting the UAE’s drive for food security and self-sufficiency.



2022  
Company  
Establishment

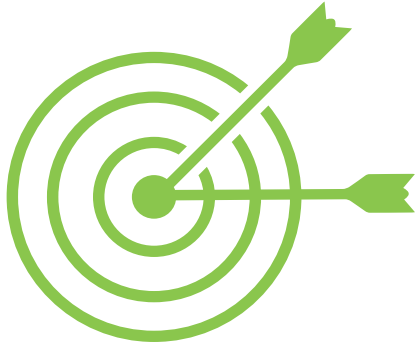


+150  
Product



+300  
Hectares of  
open fields





## OUR MISSION

ESG Agro is committed to producing food, forage, and green landscapes through scalable, climate-smart technologies securing environmental and economic value for future generations.



## OUR VISION

To be the UAE's benchmark for large-scale, sustainable agriculture integrating smart water sourcing, regenerative land use, and efficient feed production to support national food security and environmental resilience.



## OUR VALUES

- Innovation
- Sustainability
- Quality
- Collaboration
- Integrity



**Aktham Alshamandi**  
**General Manager**

At ESG Agro, we are proud to have successfully laid the foundation for self-sufficient farming in the UAE. Through strategic planning, local expertise, and the right partnerships, we have already achieved significant results across our farms proving the viability of a resilient and integrated agricultural model tailored to the UAE's unique conditions.

Our vision goes beyond farming. We are building a complete agricultural cycle starting with innovative water treatment and sustainable irrigation solutions. We have also effectively tackled the region's cooling and microclimate challenges, enabling off-season, economically viable production. This cycle continues with the local production of fertilizers and soil enhancers, leading to the cultivation of high-quality, healthy crops. These are then processed into food and animal feed, helping to secure the UAE's nutritional needs and support national food security.

We believe that technology is only valuable when it works in harmony with the environment. That's why we focus on localizing and customizing advanced agricultural technologies to fit the UAE's environmental constraints.

At ESG Agro, we are not just imagining the future of agriculture in the UAE, we are participating on developing it, step by step, with measurable progress and a clear commitment to sustainability and innovation.



**SERVICES**





## **SOIL & WATER SOURCING, SOIL MANAGEMENT & LAND RECLAMATION**

At ESG Agro, we transform challenging desert landscapes into productive farmland through advanced soil and water strategies tailored to the UAE's environment. Our approach integrates a unique, climate-adapted irrigation and fertigation system designed to optimize water use and nutrient delivery, specifically addressing soil conditions and extreme summer temperatures.

We implement carefully studied and field-tested open-field growing cycles that maximize yield and resource efficiency. At the same time, we are actively extending the growing season through targeted R&D focused on greenhouse and shade-net farming. This includes innovations that improve cooling efficiency, reduce water and energy consumption, and avoid conventional, high-cost climate control methods.

To support these efforts, we conduct ongoing field trials and cultivar evaluations utilizing our specialized advanced labs. Our work in genetic selection and crop adaptability is accelerating progress toward year-round, economically viable agricultural production in the region.



## **DESERTIFICATION & ENVIRONMENT**

At ESG Agro, tackling desertification is a strategic and moral commitment. We are leading structured, long-term efforts in soil reclamation, regeneration, and afforestation transforming barren landscapes into ecologically and economically productive zones. Through the adoption of plant varieties with proven tolerance to salinity and desert conditions, we combine environmental resilience with financial return, turning the fight against desertification into a viable and attractive business model. This approach invites cross-sector participation and drives scalable, sustainable change.

As a subsidiary of ESG - Emirates Stallions Group, ESG Agro works closely with the parent group to drive impact beyond farmland, actively.

Every ESG Agro employee participates hands-on, reinforcing our belief that both individuals and organizations have a shared responsibility to care for the environment. This initiative supports not only ecosystem restoration but also fosters a culture of environmental volunteerism and awareness across our teams and communities.

All of these efforts are aligned with the UAE's national directives on climate action, directly supporting the journey toward net-zero emissions and long-term environmental sustainability.



## **LARGE-SCALE FARM MANAGEMENT & OPERATIONS**

ESG Agro delivers end-to-end farm development and management for arid regions, covering everything from planning to daily operations. Our services include land prep, irrigation with alternative water sources, crop planning, input management, and yield tracking. With 250+ hectares under management in the UAE, we ensure efficient, sustainable farm performance tailored to local conditions.





# PROJECTS





## **VAST AGRI - PRODUCTION**

ESG Agro manages a diverse and expanding portfolio of open-field, green houses and nursery crops tailored to the UAE's climate and market needs. Our vegetable production includes key staples such as cabbage, potato, tomato, capsicum, lettuce berries etc..., grown with precision to ensure quality and consistency.

In the forage sector, we achieve impressive yields with climate-resilient crops: sorghum, millet. Laredo and panicum reaching. These crops play a vital role in supporting local livestock feed supply, and we are having the forage processing factory to support the UAE local supply and reduce the huge import of the animal feed.

We are also investing in the long-term development of fruit trees including Mango, guava, grapes, blueberries, and figs, selected for both their adaptability and market value.

Our Nursery complements these efforts, producing approximately millions ornamental landscape plants each year supporting both ecological landscaping and urban greening initiatives.



Al Ajban Farms

## **ESG NURSERY**

ESG Nursery spans 12 hectares of greenhouses, net houses, and open fields, supporting over 100 plant varieties ornamentals, vegetables, fruit trees, and bonsai. We specialize in high-quality propagation, large tree transplantation, and climate-controlled indoor cultivation of 30+ imported species using smart systems for optimal growth.



Al Ajban Farms

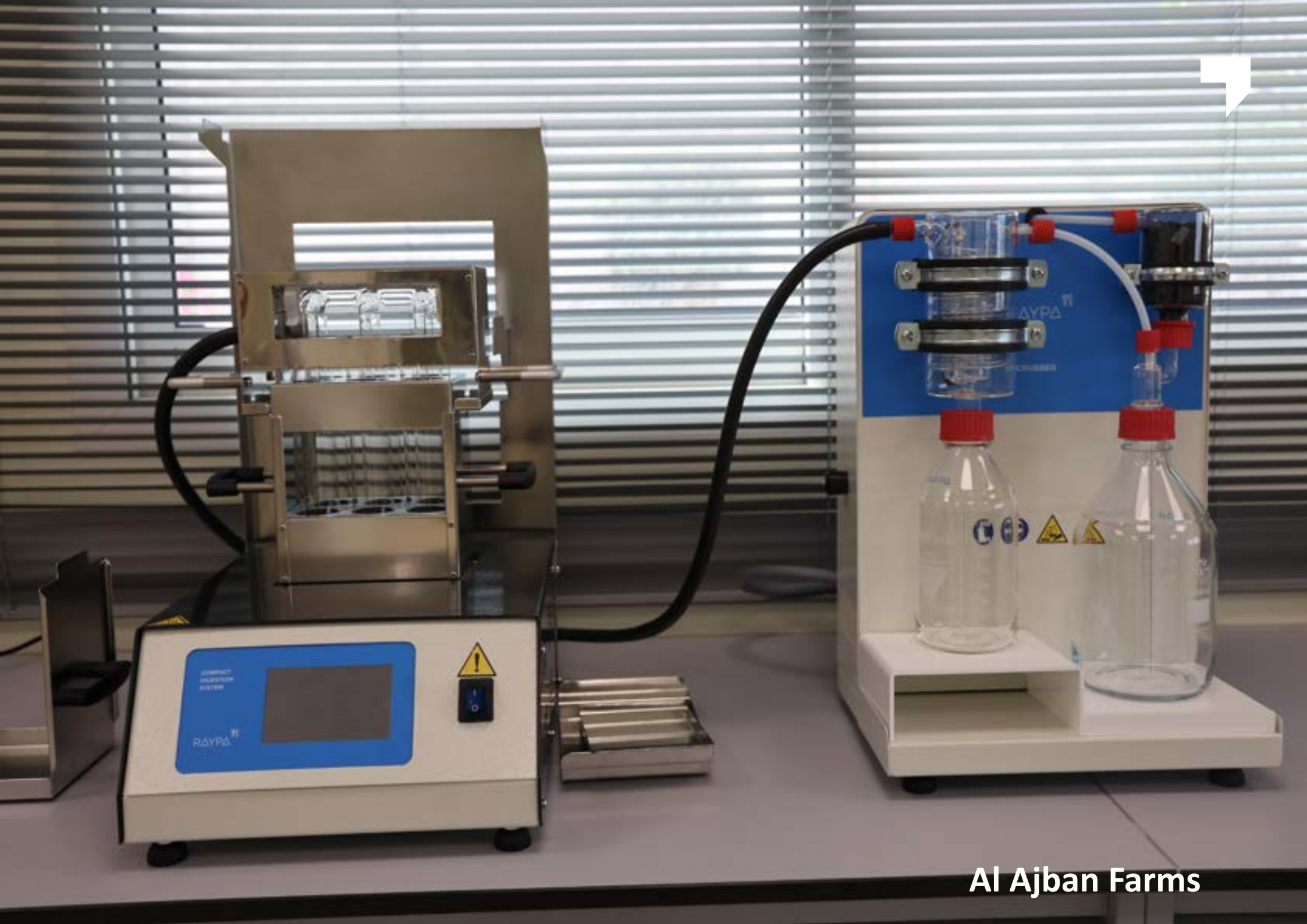
## **SCIENTIFIC LABORATORIES UNDERGOING ISO17025 CERTIFICATION**

At ESG Agro, science drives sustainability. Our advanced laboratories, undergoing ISO 17025 accreditation, form the backbone of our evidence-based approach to agriculture. These facilities ensure precision, reliability, and continuous improvement across every stage of the production cycle.

Our Tissue Culture Lab specializes in the mass propagation of uniform, disease-free date palm seedlings supporting large-scale plantation efforts with genetic consistency. The Molecular Lab plays a critical role in genetic identification and purity verification, enabling us to select and preserve the most resilient and productive cultivars for local conditions.

The Plant Physiology Lab actively monitors plant health indicators, helping optimize growing conditions and early stress detection. Meanwhile, our Soil, Water, and Feed Lab delivers customized nutrient profiling and salinity assessments, ensuring each crop receives site-specific care for maximum yield and efficiency.

Together, these labs not only support ESG Agro's operations but also contribute to regional agricultural advancement by setting high standards for scientific rigor, quality control, and environmental adaptation.



## **FORAGE & ANIMAL FEED FACTORY**

ESG Agro produces high-quality silage and haylage using advanced processing lines to convert corn, sorghum, millet, and farm byproducts like crop residues and pruning waste maximizing efficiency, sustainability, and nutritional value.

Our specialized fermentation techniques improve digestibility, extend shelf life, and ensure optimal nutrition for livestock.

Through our Total Mixed Ration (TMR) system, we formulate balanced livestock feed by blending silage, grains, protein-rich supplements, and valorized byproducts, delivering complete and efficient nutrition.





Al Ajban Farms

## **RECYCLING OF GREEN WASTE & ANIMAL COMPOSTS**

ESG Agro specializes in recycling green waste into high-protein feed types with consistent, standardized parameters. Our expert team ensures precise analysis and accurate readings across all key nutritional components.

We also produce a range of compost and potting mixes using advanced methods to standardize organic compost to the highest quality fully aligned with the specifications set by the Ministry of Environment and Climate Change.



## **MAWASEM DOME**

Mawsim Garden A Model of Climate Innovation and Cultural Integration, ESG Agro is fully in charge of the horticultural development and management of Mawsim Garden, the world's largest climate-controlled collection of fruit trees. In one of the most ambitious agricultural feats, we have successfully cultivated over 1,700 diverse trees from different varieties encompassing nearly all major fruit trees from around the world under one roof. This living archive serves as both a large-scale experimental platform and a public showcase, with each variety grown under precisely monitored conditions and a meticulously recorded growing protocol. Mawsim Garden stands as a beacon of scientific innovation, sustainable agriculture, and cultural expression reflecting our commitment to reversing desertification, enriching biodiversity, and fostering environmental awareness through education, research, and community engagement.



**Mawasem Park - Green House**

## **GREENHOUSES ON SIR BANI YAS ISLAND - HIGH EFFICIENCY CULTIVATION WITH LOGISTIC SUPPORT**

On Sir Bani Yas Island, ESG Agro runs 18 high-tech greenhouses (4,224 m<sup>2</sup> each) for vegetable and fruit tree production, supported by a full logistics center. We use intensive planting, dwarf rootstocks, and eco-friendly practices to boost yield. Precise climate control ensures high-quality, sustainable output.



Al Ajban Farms

## **WATER SOURCING & INFRASTRUCTURE DEVELOPMENT**

ESG Agro delivers end-to-end water management solutions, handling every stage from sourcing to full operational execution. Our infrastructure includes advanced pumping and filtration systems designed to ensure efficient, sustainable water distribution across large-scale agricultural projects.

We seamlessly integrate water resource management with precision farming technologies, connecting AI-driven irrigation networks to optimize water use and support maximum crop productivity.





Al Ajban Farms

## Strategic Partnerships & Market Access



**ESG Agro** is part of ESG - Emirates Stallions Group , a conglomerate of+ **48 companies**, including its twin company Gulf Dunes the UAE's leading landscaping firm enabling fully integrated green solutions across sectors.

The backing of IHC ensures:

- Strategic alignment with national development goals.
- Unmatched access to supply chains, infrastructure, and investment capabilities.

Close operational integration with **Ghitha Group**, the UAE's leading agri-food conglomerate including (**Mirak and NRTC**), guarantees:

- Immediate distribution of fresh produce.
- Strong support for market scalability and export readiness.

Core Strengths of ESG Agro

- Multidisciplinary and experienced internal teams capable of delivering complex agricultural systems with precision and sustainability.
- Proven capacity to implement innovative, climate-adapted farming technologies customized for UAE conditions.
- Strong commitment to circular economy principles, local resource optimization, and technology transfer for long-term national benefit.

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