

EXECUTIVE OVERVIEW

Greenfield Hydroponics Global

Controlled-environment agriculture for livestock feed, fresh produce, and land renewal



-95%

water use vs. field-grown forage

-60%

livestock methane emissions

7 Days

seed-to-feed growth cycle

365

days of year-round production

COMPANY OVERVIEW

Greenfield Hydroponics Global (GHI) designs, builds, and operates vertical hydroponic systems that produce livestock feed and fresh food anywhere — independent of soil, season, or rainfall. Operating under the **Green Technology Global** umbrella, GHI combines controlled-environment agriculture with water technology, renewable power, and data-driven herd management to deliver a complete, climate-resilient food and feed platform.

Drought, volatile hay and grain prices, shrinking arable land, and pressure to cut agricultural emissions are reshaping the economics of farming. GHI answers each of these pressures with a single, repeatable system: grow high-nutrition feed indoors, every day of the year, using a fraction of the water and land of conventional forage.

SOLUTIONS PORTFOLIO

Hydroponic Fodder Systems	GHI 8000 and modular systems producing fresh sprouted fodder for cattle, dairy, horses, sheep, goats, pigs, and camels on a continuous 7-day cycle.
Fodder As A Service	Off-Take Agreement model: GHI builds and operates the system; the customer buys the feed. No capital outlay for the producer.
Vertical Grow Systems	Stacked, climate-controlled systems for leafy greens, herbs, and specialty produce close to the point of consumption.
Hydroponic Cheese & Dairy	Value-added dairy programs built on fodder-fed herds, linking feed quality directly to premium end products.
Brownfields to Greenfields	Turning idle or contaminated industrial land into productive agricultural sites using soil-independent growing systems.
Precision Livestock Collars	AI-enabled monitoring collars that pair with fodder programs to track herd health, activity, and feed performance.

COMPETITIVE ADVANTAGES

- **Radical water efficiency.** Recirculating hydroponics uses roughly 95% less water than field-grown forage — a decisive advantage in drought-prone and water-restricted regions.
- **Measurable climate impact.** Fresh fodder diets reduce livestock methane by up to 60%, giving producers a documented pathway to emissions targets and sustainability reporting.
- **Zero-capex adoption.** The Fodder As A Service Off-Take Agreement removes the upfront equipment barrier. Producers pay for feed delivered, not for infrastructure — shortening sales cycles and widening the addressable market.
- **Predictable, year-round supply.** A continuous 7-day grow cycle decouples feed supply from weather, harvest failures, and commodity price swings, stabilizing operating costs for ranchers and dairies.
- **Integrated technology ecosystem.** As part of Green Technology Global, GHI can bundle atmospheric water generation (GTG AWG) and Flux off-grid power with its grow systems — enabling fully self-sufficient sites where water and grid access are limited. Few competitors can offer power, water, and feed from one partner.

- **Species-specific expertise.** Feed programs are tailored by animal physiology — ruminants such as cattle, sheep, and goats are treated differently from hindgut fermenters such as horses — rather than a one-size-fits-all product.
- **Land renewal as a growth engine.** The Brownfields to Greenfields program converts stranded industrial land into revenue-producing agriculture, opening sites and municipal partnerships unavailable to soil-based operators.
- **Data-driven herd performance.** Precision livestock collars link feed input to animal outcomes, turning GHI from a feed supplier into a performance partner with recurring, data-backed value.
- **Modular and scalable.** Factory-built, containerized, and vertical configurations deploy quickly and scale from a single ranch to commercial feedlots, gated communities, and regional food hubs.

COMPETITIVE POSITIONING

Factor	GHI	Conventional Forage	Typical Fodder Vendor
Water use	~95% less	High	Low
Weather / seasonal risk	None	High	Low
Upfront capital to customer	None (FaaS option)	Land & equipment	Full system purchase
Methane reduction	Up to 60%	None	Varies
Integrated water & power	Yes (GTG / Flux)	No	Rarely
Herd monitoring & data	Yes (AI collars)	No	Rarely
Land reclamation capability	Yes	No	No

BUSINESS MODEL

- **Equipment sales.** Direct sale of GHI 8000 and modular fodder or vertical grow systems for operators who prefer to own and run their own production.
- **Fodder As A Service.** Long-term Off-Take Agreements that generate recurring revenue from feed delivered, with GHI managing installation, operation, and maintenance.
- **Integrated site programs.** Bundled feed, water, and power solutions with Green Technology Global partners for off-grid ranches, communities, and redevelopment projects.
- **Data and monitoring services.** Subscription-based herd monitoring through precision livestock collars, adding recurring revenue and deepening customer relationships.

MARKETS SERVED

Beef and dairy operations · Equine facilities · Sheep, goat, and pig producers · Camel and arid-region livestock · Municipalities and redevelopment authorities · Gated and planned communities · Food-security and emergency-response programs · International agricultural development

WHY GREENFIELD HYDROPONICS GLOBAL

GHI delivers what conventional agriculture increasingly cannot: dependable, high-quality feed and food with minimal water, minimal land, and a smaller carbon footprint — offered through a service model that lets customers start without capital risk. Backed by the broader Green Technology Global platform, GHI is positioned to lead the shift toward resilient, controlled-environment livestock and food production.

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