

THF HUBERY

Category:

Best EcoHealth Solution

Organization/Company Name:

Provide the official name of your company or organization.

THF HUBERY

Overview:

Provide key information about the company, including its origins, mission, and core philosophy. Describe the solution, impact, and sector focus (e.g., water management, renewable energy, circular economy, waste management, sustainable agriculture, net-zero initiatives, etc.).

THF Hubery is a regenerative agriculture company advancing sustainable food systems that restore ecosystems, support community health, and mitigate climate change. Founded nearly a decade ago as the innovation arm of Traders Hill Farm-the first aquaponics farm in the Southeastern United States to receive ISO certification for food safety and quality-THF Hubery has since become a global leader in integrated farming systems designed for ecological and economic resilience.

The company's mission is to empower communities to become stewards of their own food security while enhancing soil health, conserving water, and reducing environmental impact. We believe agriculture should not only feed people but also heal landscapes and foster equity. Our approach is grounded in circular economy principles, net-zero design, and inclusive growth.

At the core of our model is the Recirculating Agriculture System (RAgS), an innovative fusion of aquaponics, regenerative soil-based farming, and low-tech controlled environment agriculture (CEA). This system is closed-loop and zero-waste, using up to 90% less water than conventional farming while recycling nutrients and integrating biochar to enhance soil carbon sequestration. It is scalable, modular, and adaptable across diverse climates and resource settings, making it especially impactful in food-insecure or climate-impacted regions.

Climate Health & Alignment with UN SDGs / National Policy

Guidelines:

Please explain how your innovation mitigates or adapts to climate-related health risks and aligns with the United Nations Sustainable Development Goals (SDGs) and national climate policies.

What distinguishes THF Hubery is our commitment to accessibility and impact. Unlike high-cost, high-energy systems, RAgS is designed for low-resource environments and community-driven operations. Our installations function as living labs-providing food, economic opportunity, and workforce training while restoring soil and water cycles. These systems are appropriate for urban areas, tribal communities, and rural settings alike.

To date, THF Hubery has built, designed, or consulted on 47 agricultural facilities worldwide, including in North and South America, Sub-Saharan Africa, and the Caribbean. These facilities have:

- Provided consistent, chemical-free food year-round
- Enabled upskilling in climate-resilient agriculture
- Supported reforestation and biodiversity
- Created circular, community-owned enterprises

Each project contributes to local development goals while aligning with global sustainability targets, particularly SDGs 2 (Zero Hunger), 6 (Clean Water), 12 (Responsible Consumption), and 13 (Climate Action).

Our work spans several sectors critical to Eco Health:

- Sustainable Agriculture and Food Systems
- Water Conservation and Reuse
- Climate-Smart Farming and Net-Zero Carbon Solutions
- Circular Economy and Waste Management
- Public Health Nutrition and Food Sovereignty

By demonstrating that farming can regenerate the planet while feeding and employing people, THF Hubery is redefining what it means to farm for the future. We provide tools, training, and systems that ensure food production enhances-not depletes-our natural and social ecosystems.

In partnership with local and regional governments, NGOs, academic institutions such as Tufts University, Mayo Clinis, and grassroots leaders such as Inua Partners in Hope - Kenya and Rootswell and Delta Grows in the Mississippi Delta, we are helping communities grow food, sequester carbon, restore dignity, and build resilience-one regenerative farm at a time.

Measurable Impact:

Explain how you benchmark success and impact using scientific validation and quantifiable metrics where possible (e.g., peer-reviewed publications, Life Cycle Assessment (LCA) data, partnerships, net-zero targets, CO₂ reduction, resource efficiency, waste diversion rates, improved health outcomes, etc).

THF Hubery measures success through a combination of scientific validation, quantifiable environmental outcomes, and community impact. Our approach emphasizes resource efficiency, regenerative outputs, and replicable system performance across geographies and scales.

A key benchmark of our environmental impact is water conservation. Across our 47 global farm installations, THF Hubery's systems have collectively saved over 6 billion gallons of water compared to traditional agriculture, primarily by reducing draw from local aquifers. These savings are achieved through recirculating systems that use up to 90% less water per unit of production and eliminate runoff.

In terms of carbon and soil health, each facility utilizes biochar-enhanced soils and onsite organic fertilizer production, helping sequester atmospheric carbon and improve soil organic matter. Our use of phosphate-accumulating organisms (PAOs) has been studied in early work by the University of Kentucky (2014) and provides a biological advantage in nutrient management that outperforms conventional Controlled Environment Agriculture (CEA) models.

Our system-wide circularity-including zero waste production, nutrient recycling, and on-site renewable inputs-supports Life Cycle Assessment (LCA) modeling and net-zero targets. Each farm diverts organic waste, regenerates soil, and creates closed-loop fertility, which we measure through crop productivity, soil microbial biomass, and nutrient cycling performance.

We further validate our work through peer-reviewed partnerships and public engagement. THF Hubery has shared findings at the 2025 World Aquaculture Conference Triennial, COP28 in Dubai, and various regional symposia on sustainable agriculture and eco-health.

Ultimately, our benchmarks are rooted in environmental data, community outcomes, and the ability to scale impact. From reduced CO₂ emissions and water use to improved nutrition access and farmer livelihoods, every metric we track affirms our core mission: building regenerative, climate-smart food systems that improve life for both people and planet.

Current Stage & Market Potential:

Describe the current stage and potential for scaling your solution to new

markets, industries, or geographies. If any, include details on market demand, regulatory considerations, barriers to scale, adoption strategy and long-term sustainability.

THF Hubery is currently operating at an advanced demonstration and deployment stage, with functional regenerative agriculture projects across the United States, Kenya, and South Sudan. Our Recirculating Agriculture System (RAgS) has proven to be adaptable, scalable, and highly impactful across diverse geographies, from resource-limited rural areas to peri-urban hubs, providing measurable outcomes in food production, economic development, and resource conservation.

Market demand for sustainable, resilient, and localized food systems is growing globally-fueled by concerns around water scarcity, food security, climate change, and the instability of global supply chains. THF Hubery's solution directly addresses these concerns by offering a closed-loop, zero-waste, low-water system that produces high-quality food using a fraction of the land and water required by conventional agriculture. Our facilities can produce year-round, which improves market reliability and reduces supply chain gaps.

While market demand is strong, the primary barrier to scaling is the initial capital cost of building the infrastructure-particularly in regions with limited access to affordable financing. However, our financial models show that THF Hubery farms outperform traditional Controlled Environment Agriculture (CEA) facilities by Year 3, due to lower ongoing input costs, improved productivity through nutrient cycling, and diversified revenue streams (e.g., produce sales, training programs, and agro-tourism).

We are actively working with partners-including NGOs, governments, and private investors-to bridge this financing gap and expand deployment. Regulatory considerations vary by geography but generally support our systems due to their alignment with national priorities around sustainability, water conservation, and climate adaptation. In the U.S., our operations align with USDA sustainability goals; in Kenya and South Sudan, we complement national agricultural resilience and youth employment strategies.

Our adoption strategy includes:

- Training and workforce development to ensure long-term operational capacity
- Community ownership and cooperative models to enhance local investment and stewardship
- Policy alignment and advocacy to support infrastructure incentives and land access

Long-term sustainability is embedded in our model through a triple bottom line approach:

1. Environmental - Zero-waste, low-water systems with soil regeneration and

carbon sequestration

2. Economic - Job creation, entrepreneurship, and local economic revitalization in a new agtech sector
3. Social - Increased food access, community resilience, and educational opportunities for underserved populations

With a proven model and growing demand, THF Hubery is poised to scale its regenerative systems globally-bringing food security, economic empowerment, and environmental stewardship to the forefront of the agricultural transformation.

Staff and Advisors:

Describe your team's expertise (e.g., academic standing, intellectual property contributions, research collaborations, and professional communications). Highlight the team's role in innovation, policy influence, and industry leadership.

At the core of THF Hubery's success is a globally engaged leadership and advisory team advancing regenerative agriculture through innovation, science, and community collaboration.

Angela TenBroeck, Managing Member of THF Hubery, is an internationally recognized expert in sustainable agriculture and controlled environment systems. Her two decades of experience span the U.S., Kenya, and South Sudan, where she leads implementation of the Recirculating Agriculture System (RAgS), secures policy support, and develops strategic partnerships. A frequent speaker at major forums-such as COP28 in Dubai and the 2025 World Aquaculture Triennial Conference-Angela was honored as Florida's Agriculture Woman of the Year (2021) by the Commissioner of Agriculture for her contributions to food system transformation and climate resilience.

THF Hubery's advisory team brings cross-sector expertise essential to the organization's global reach and interdisciplinary impact:

- Dr. Dawn Mussallem (Mayo Clinic) provides clinical and nutritional insights, linking regenerative agriculture to public health and eco-health outcomes.
- Hayley Spring, Policy Lead at Blue Zones Project Jacksonville, informs urban planning, wellness policy, and food systems governance.
- Robbie Pollard, a multi-generational Mississippi Delta farmer, offers deep knowledge in regenerative soil practices, rural agribusiness, and traditional agriculture.
- Tyler Yarborough (Partnership for a Healthier America) strengthens connections between agriculture, nutrition access, and national equity initiatives.
- Paul Matheri, Director of Inua Partners in Hope (Kenya), oversees East African farm deployments, emphasizing youth-led agriculture and economic empowerment.
- Dr. Jacob Atem, founder of the South Sudan Health Care Organization, supports

THF Hubery's integration of food systems and health resilience in post-conflict areas.

- Rae Robert, an international arborist, leads agroforestry and carbon-smart land restoration, supporting climate adaptation through nature-based solutions.
- Felix Kimani, a Kenyan social entrepreneur and systems thinker, brings expertise in circular economies, decentralized infrastructure, and community-led innovation.

Together, this team integrates scientific knowledge, on-the-ground experience, and policy advocacy-positioning THF Hubery as a thought leader in regenerative agriculture and sustainable development. Their collaborative work advances models that serve as tools for climate adaptation, nutrition security, economic inclusion, and ecological restoration.

Scientific rigor is central to THF Hubery's model. Research partnerships with the University of Kentucky, University of Florida, and Great Lakes University (Kenya) have validated the system's soil health, water efficiency, and nutrient cycling-specifically the use of phosphate-accumulating organisms (PAOs) that enhance ecological productivity beyond typical CEA systems. While not patented, THF Hubery's model is open-source by design, prioritizing replicability and accessibility for global communities.

This team's leadership ensures that THF Hubery's solutions are not only technically sound and ecologically regenerative but also socially inclusive and scalable-delivering a future of agriculture that uplifts people, protects the planet, and strengthens systems of health, equity, and resilience.

Financial Structure:

Describe how your innovation is funded and sustained (e.g., key investors, funding sources, financial stakeholders, royalties, grants, revenue-sharing agreements, strategic partnerships such as academic institutions, equity groups, corporate alliances, and angel investors, etc.).

THF Hubery operates as a sole-member Limited Liability Company (LLC) with a mission-driven approach supported by a robust advisory board. The organization was initially capitalized through a loan from The Blaudow Family Trust, which provided the foundational investment to launch its regenerative agriculture innovation work.

Subsequent funding and operational growth have been sustained through earnings from the 2017 sale of Traders Hill Farm, the parent company that served as a successful commercial proof-of-concept for THF Hubery's Recirculating Agriculture System (RAgS). This strategic reinvestment has enabled THF Hubery to remain independent, nimble, and self-directed while scaling its work both domestically and internationally.

Today, THF Hubery continues to fund the design, construction, and support of regenerative agriculture facilities using a combination of:

- Reinvestment of operational revenue
- Strategic partnerships with NGOs and international development organizations
- Fee-for-service consulting contracts
- Philanthropic and project-based grants (where applicable)
- Collaborations with academic institutions and health systems

While the company does not currently rely on venture capital or royalty-based licensing models, it is actively engaged in revenue-sharing partnerships and cooperative development agreements with community organizations and international partners. These arrangements ensure local ownership, build capacity for long-term sustainability, and help reinvest economic gains into the communities where THF Hubery operates.

Academic and public-sector partnerships further support the model's financial and operational resilience. THF Hubery works closely with universities, health foundations, and policy-based organizations to co-develop infrastructure, training programs, and applied research, aligning agriculture with broader climate, health, and equity goals.

This self-sustaining, impact-driven funding structure allows THF Hubery to prioritize accessibility, environmental integrity, and inclusive economic development, reinforcing its long-term viability and alignment with regenerative principles.

Regulatory Compliance & Certifications (Optional Uploads):

If appropriate, provide any regulatory approvals, environmental certifications, or compliance documents demonstrating adherence to sustainability standards (e.g., ISO 14001, B Corp Certification, LEED, WELL, SBTi commitments, REACH, USDA, etc.).

[Certificates SQF HACCP.pdf](#)

[Worldwide Plan Map 2020.pdf](#)

[wildlifefriendly20160823_10552179.pdf](#)

[42802 THF Hubery LLC.pdf](#)

Community & Social Impact:

Explain how your innovation benefits local communities, underserved populations, or public health (e.g., job creation, social equity, environmental justice, improved quality of life, tourism, etc.).

THF Hubery's regenerative agriculture systems are designed not only to restore the environment but also to create lasting economic, social, and public health benefits-particularly for underserved and historically marginalized communities. Rooted

in a commitment to equitable development, THF Hubery's innovation transforms food systems into engines of opportunity, wellness, and climate resilience.

Each Recirculating Agriculture System (RAgS) facility is built with community engagement at the center-from design through implementation and long-term management. These facilities serve as local hubs for food production, employment, and education, addressing multiple systemic challenges at once:

- **Job Creation and Economic Inclusion:** By training local residents, especially youth and women, in aquaponics, soil health, and sustainable farming techniques, THF Hubery builds a skilled agricultural workforce. These systems generate direct employment and enable microenterprise development through the sale of produce, seedlings, and value-added goods.
- **Food Security and Public Health:** Communities gain access to nutrient-dense, chemical-free food grown locally, reducing dependence on supply chains and increasing nutritional access in food deserts. Partnerships with health institutions and schools ensure food is integrated into public health strategies and educational curricula.
- **Environmental Justice:** RAgS facilities are typically placed in areas most impacted by environmental degradation, water scarcity, or disinvestment. By restoring soil, conserving water, and sequestering carbon, THF Hubery directly improves the environmental conditions and long-term resilience of these regions.
- **Social Equity and Community Ownership:** THF Hubery structures many of its installations through cooperative models or community partnerships, ensuring that local voices guide decisions and reap long-term benefits. In regions like the Mississippi Delta, South Sudan, and rural Kenya, these systems create new industry sectors, helping local populations define their own economic futures.
- **Cultural and Educational Value:** Each facility also serves as a space for storytelling, training, and intergenerational learning. In some regions, this includes ecotourism and agro-tourism components that promote cultural pride, income diversification, and environmental awareness.

Through scalable systems, localized ownership, and regenerative design, THF Hubery creates a replicable model of climate-smart agriculture that uplifts people while healing the planet—a true ecosystem of equity, health, and hope.

Document Uploads: Supporting Data & Evidence and References:

Include letters of support, endorsements, or formal commitments from third parties, such as pilot partners, policymakers, academic institutions, news articles, or industry leaders, validating your approach and impact. Provide quantifiable metrics, case studies, third-party assessments, or regulatory approvals to support your application. Please label all files with your company name and asset name.

TenBroeck_1060_36 Enhancing_Marine_Ecosystems_and promoting sustainable aquaculture.pdf

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