



Reviving Biomass.
Powering Sustainable Agriculture



Social Enterprise | Lebanon & UAE | Circular Agriculture

Three Crises Undermining Lebanon's Food System



Inefficient Waste Systems

Lebanon loses up to 30% of its GDP due to inefficient waste management



Soil Degradation

Over **45% of soils** are degraded and have lost biodiversity from chemical overuse



Imported Inputs

90% of agricultural inputs are imported — draining local value

Turning Biomass into Agricultural Solutions



**We transform biomass into valuable agricultural inputs,
driving local sustainability and closing the loop on food systems.**



HADUM Slashes Waste Costs & Transforms Collection



HADUM optimizes household and farm-level sorting, cutting trips and costs by over 90%.

- ✓ 93% lower collection costs
- ✓ Just 1 trip needed instead of 16
- ✓ No smell, no power, just drop and close



HADUM: Decentralized Biomass
Collector

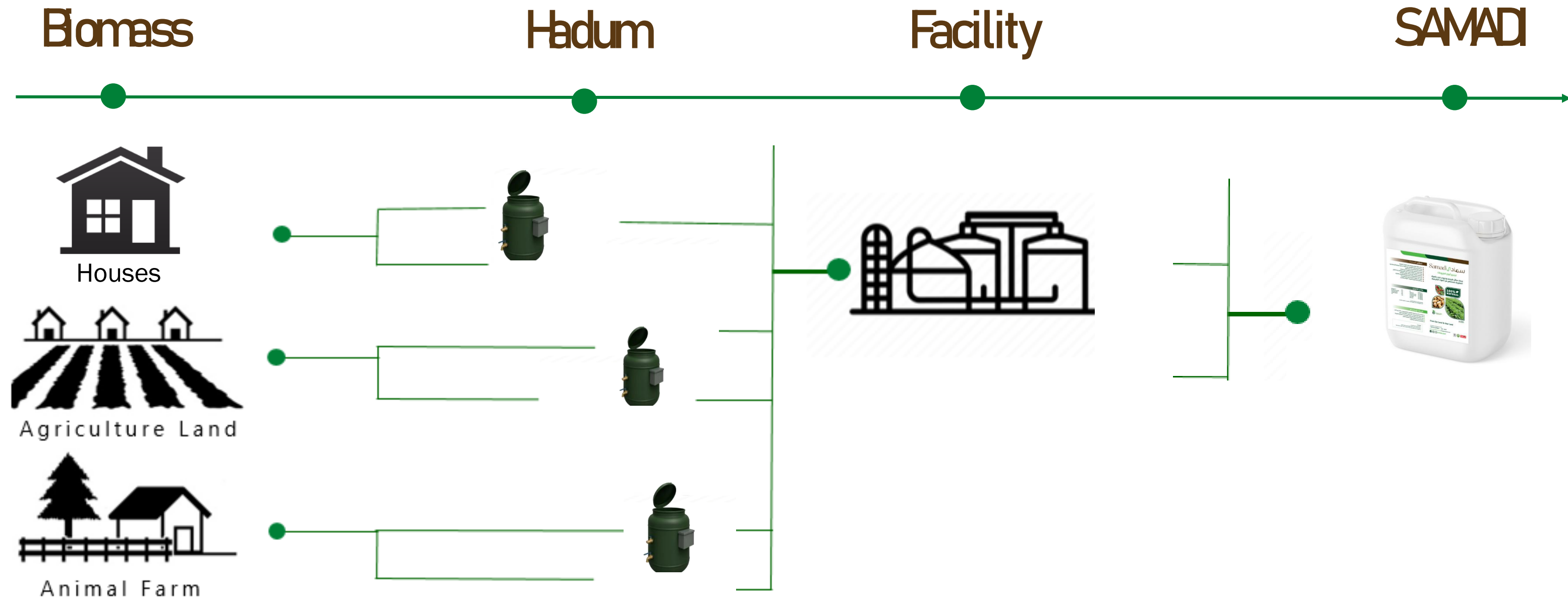
Why Hadum Outperforms Other Waste Solutions



	Control Carbon Emission	Generate Passive Income	Produce Agriculture Product	Lower Disposal Fee	Benefit from all Biomass	30-Days Production	Improved Sanitation	Control Methane Gas	Small Space Required
Aerobic Technology	✗	✗	✓	✗	✗	✗	✗	✗	✓
Anaerobic Technology	✓	✗	✓	✗	✓	✗	✗	✓	✗
Rearing Insect	✗	✗	✓	✗	✓	✗	✗	✗	✗
GARBALISER (Hadum)	✓	✓	✓	✓	✓	✓	✓	✓	✓

Only HADUM offers a clean, income-generating, space-efficient, and climate-smart solution — all in one decentralized system.

Smart, Decentralized Biomass Conversion

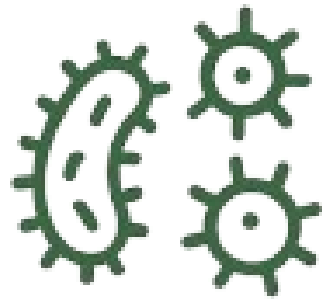


Local biomass IN, organic value OUT
lower cost, lower carbon, and less import reliance.

What Makes SAMAD Special



A 12-stage patented bioprocess that ensures quality, consistency, and stability in formulation



Microbial-rich



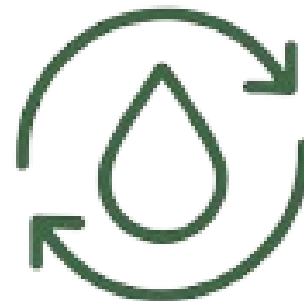
Balanced nutrition



Shelf-stable



Chemical-free



Water-efficient



Hormone activation

SAMADI: Circular Solutions for Smarter Plant Growth

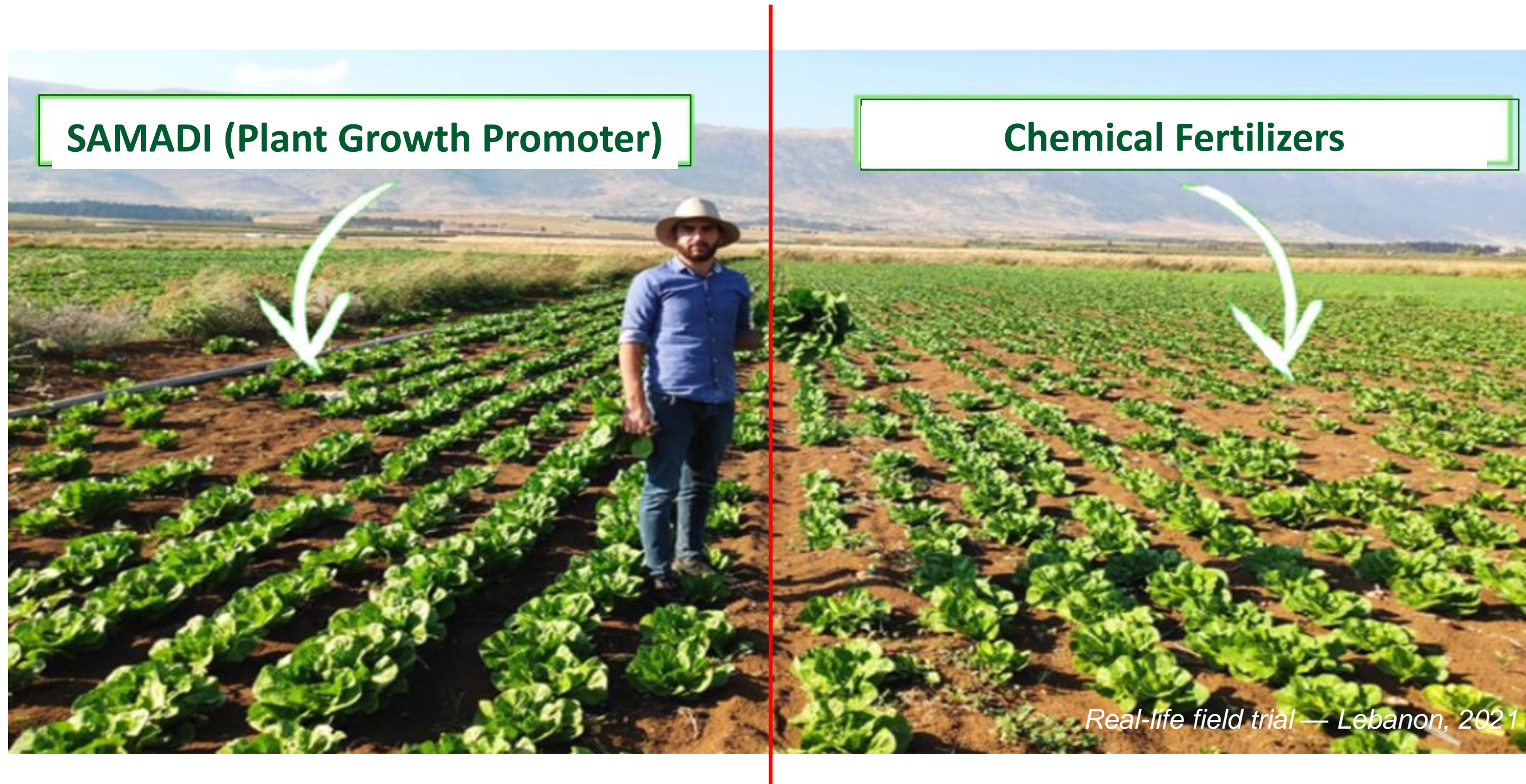


- ✓ Enhances yield by 35% and improves crop quality
- ✓ Cuts irrigation needs by up to 20%
- ✓ Delivers 5x return on investment
- ✓ 100% safe, residue-free & certified



SAMADI: Liquid Plant Growth Promoter

Side-by-Side: SAMADI vs. Chemical Fertilizers



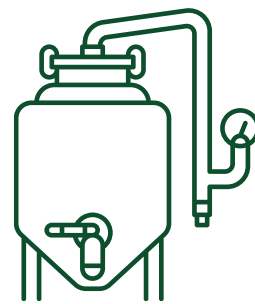
SAMADI drives plant health, environmental impact, and local economic growth.

Proven Results. Growing Momentum



1400+

Farmers using SAMADI
70% report higher yields.



360+

HADUM units deployed for
local biomass
collection and sorting.



80k+

Kg of biomass recycled.



80K+

Liters of SAMADI produced
and reused locally.

Real adoption before any official launch — 70% return rate from satisfied users.

Our Business Model



SAMADI – Plant Growth Promoter

Target Customers: Farmers & Agr. Stores

Sales Channels: B2B and B2C

Distribution: Distributor partnerships, Agr. stores



HADUM – Decentralized Biomass Collection Unit

Target Customers: Municipalities, NGO. Waste Management Companies

Sales Channels: B2B

Distribution: Institutional partnerships

Our Ecosystem of Supporters



Programs & Accelerators

- Ma'an Social Incubator
- Rank 1 at Watermedyin Program.
- Cluster4green
- Rank 2 Boost Program
- Clean energy program



Media Coverage

Media presence (Dubai Tv, Reuters, Hadah, Alarabi, LBC, BBC, and other visual and audio-visual agencies.



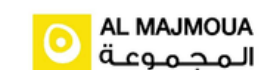
Field Collaborations

- 10+ Agricultures Companies
- 15+ Agriculture Stores
- 10+ Collaborations « NGOs »
- 10+ Municipalities
- 5+ Schools



Public Recognition

- Shark Tank UAE
- COP28
- Expo28
- TWE Book.
- University Students Articles.



The Hands Growing Our Impact



Hanan Ismail
General Manager



Zeinab Ismail
Operations Manager



Ahmad Issa
Business Development



Zainab Massri
MarCom Manager.



Mohanad Alalloul
R&D & Quality Control



Hosne Ismail
Production Manager



Ghadir Ismail
Community Resource Coordinator



Katrine Ismail
Customer Service

Together, our team combines field expertise, technical know-how, and a deep commitment to sustainability, agriculture, and community-driven change.

Rooted in Results, Grown Through Impact



2000+ farmers

Sustainable farming
awareness raised



3,000+ dunams

Enriched using
SAMADI



500k+ Liters

Water saved through
improved practices



12000+ tons

Healthy food produced
and delivered



12000+ beneficiary

Trained in biomass sorting
and circular practices



5000+ m³

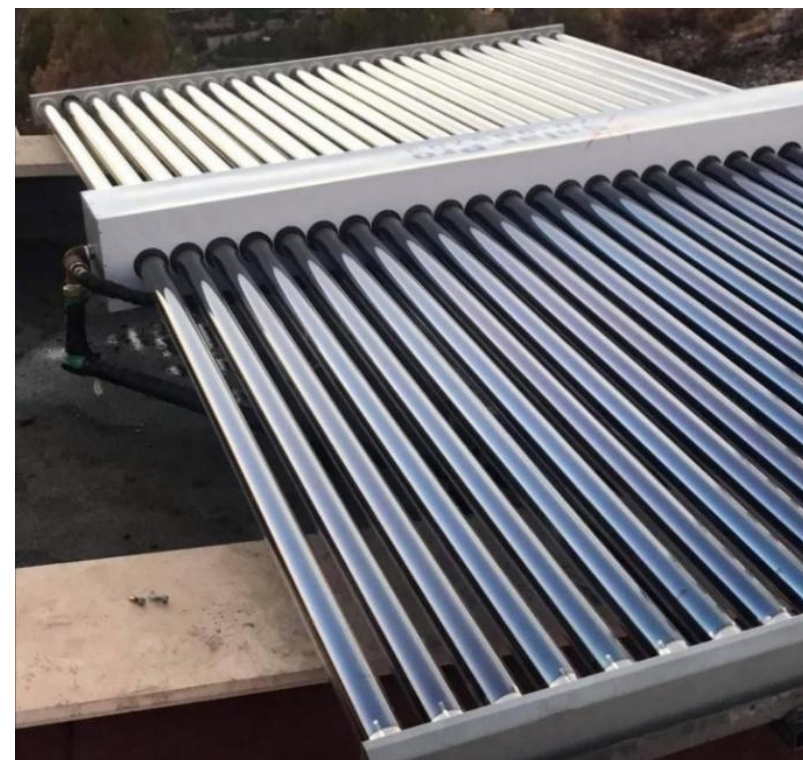
Methane captured

Operational sustainability



- ✓ Economical Refill Model
- ✓ Zero-Waste Circularity
- ✓ Renewable Energy

From energy to packaging — our operations are built to last, and to care.



MILESTONES ACHIEVED AND GOALS



2022



- Concept & MVP development
- Field testing with 2 farmers

2023



- Factory launched
- Installed 32 HADUM units
- Field test with 80 farmers

2024



- Expanded to 200 HADUM units
- Finalized SAMADI product
- Reached 600 farmers

2025



- Soft launch of SAMADI in Lebanon
- Reached 1200 farmers
- Installed 364 HADUM units



In 2026, we aim to reach 2,000+ farmers and expand across Lebanon.



By 2027, our goal is to serve 3,000+ farmers and triple our impact.

Be part of an innovative, sustainable future for agriculture.



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