



LoopBite

Taste with Zero Waste.

A Sustainable Circular Economy Driven Startup in Ajman

Team LoopBite:

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Green Entrepreneurship Program

The Big Problem:

- **Key Stats:**

- **3.27M tonnes** wasted in UAE → **AED 13B loss.** *(beeah)*
- **Ajman: ~100 tonnes/day** food waste. *(pmc.ncbi)*
- **Food = 40%** of household waste. *(pmc.ncbi)*
- **Methane = 84x** worse than **CO₂.** *(wri.org)*

- **Issue:** No system in Ajman for household food waste segregation or farm-level compost access and high fertilizer costs (**AED 12,000/ton**). *(greensouq)*



Our Solution:

LoopBite: A waste collection service that acts as a bridge between households, businesses; and farms and biogas energy reserves.



For Families and Individuals:

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- Drop food waste at nearby smart bins
- Earn LoopPoints for every contribution
- Redeem for discounts on fresh, local produce
- Support local farms and sustainable living
- Join community events & eco-challenges



For Businesses:

- Ideal for high-waste sectors like events, hospitality, and retail
- Flexible paid service tailored to business needs
- Two-way partnership: sustainable waste out, visibility in
- Supports CSR goals and sustainability reporting
- Creates shared value — impact for them, revenue for LoopBite



For Farms:

Feature	Value
CHEAPER COMPOST	Save 70–90% vs fertilizer
SOIL HEALTH	Better yields, 30% more water retention
MARKETING BOOST	Grown with local compost
LOCAL SCOURCING	Inputs/outputs stay in Ajman
DIGITAL PRESENCE	Featured in app, events, produce boxes



Overview of our Model

Key Partners:

- Local Government & Municipalities (Ajman Municipality, MOCCAE).
- Waste Management & Logistics Partners (Bee'ah).
- Local Farms & Agri-Cooperatives.
- Commercial Food Waste Suppliers.
- Tech & App Development Providers.
- Waste Processing Equipment Suppliers.

Customer Relationships:

- Strategic Partnerships with Farms & Commercial Generators.
- Community Engagement via Reward-Driven App.
- Transparent Impact Reporting (Sustainability Metrics).
- Responsive Customer & Technical Support.

Channels:

- Mobile App & Website (Scheduling, Tracking, Insights).
- B2B Sales & Contracts (Farms, Commercial Clients).
- Social Media & Local Events (Outreach & Education).



Pilot Project Plan – Our SOM in Ajman

Where: Al Jurf or Al Rawda

Duration: 3-4 months

Budget: AED 19,000 - 23,000

Scale:

- 5-10 households
- 4-5 small business
(including restaurants and groceries)



Pilot Outcomes (3–4 Months):

- Diverted 5–10 tons of food waste from landfill
- Produced a few tons of compost and a few hundred liters of biodiesel
- Demonstrated end-to-end operational workflow including collection, processing, and app-based rewards
- Collected feedback from users on service improvements like bin design, pickup frequency, and rewards
- Built initial case studies featuring compost users and households benefiting from the program

Item	Cost (AED)
Waste Bins & Containers	AED 2,000
App Development & Tech	AED 10,000
Branding & Marketing Materials	AED 2,000
Permits & Legal Setup	AED 5,000
Grand Total	AED 19,000

The Smart LoopBite App:

- **Track Compost Effortlessly**

Log your food waste and monitor composting activity weekly.

- **Earn Points & Rewards**

Get rewarded for sustainable actions — collect points, climb leaderboards, and redeem vouchers.

- **Redeem from Local Farms**

Use your points to claim discounts on fresh produce, compost soil, and other eco-products.

- **Soil Insights at Your Fingertips (For Farmers)**

Get guidance on soil health, compost usage, and eco-tips personalized to your habits.

- **User-Friendly Dashboard**

A clean, gamified interface that's fun, intuitive, and built for impact.



How It works?



A

● Collection

- Smart QR bins track waste at source
- AI routes = efficient pickups
- Cold storage prevents spoilage in heat
- Sources: Homes, businesses, markets

B

● Processing

- Composting (windrow/in-vessel, 8–10 weeks)
- Biogas via anaerobic digestion
- Biodiesel from used cooking oil (UCO)

C

● Output & Return

- 70–90% cheaper compost for farms
- Clean biodiesel for ops/local use
- App-based rewards + impact tracking

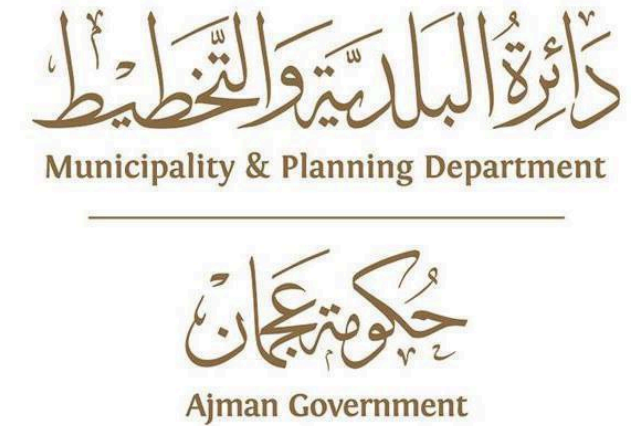
Strategic Partners & Collaborations

We have officially contacted these key government and industry entities regarding our project to ensure regulatory compliance, technical collaboration, and access to waste processing infrastructure for our composting and circular economy goals.



Ajman Municipality: Ajman Municipality is the primary government authority overseeing urban planning, environment, and waste management in the emirate, making it a key regulatory partner for LoopBite's food waste recycling and composting initiative.

- **Outcome:** They agreed to support LoopBite by:
- Facilitating logistical coordination (e.g., guidance on pickup scheduling and bin placement).
- Providing vehicle registration and environmental permit assistance.
- Offering transportation and basic municipal support services, but without financial investment or funding.
- Their early buy-in reflects the project's alignment with existing Ajman Vision 2021 and waste diversion targets.



Tadweer (Waste Management Co.): Tadweer is the UAE's national leader in integrated waste management, with a strong focus on large-scale composting and alternative fuel production.

- **Outcome:** Tadweer expressed willingness to support LoopBite's composting efforts, provided we independently manage transportation of food waste to designated Tadweer processing sites.
- This sets the stage for a valuable collaboration, enabling us to scale operations while leveraging Tadweer's advanced composting infrastructure.



Warsan Waste-to-Energy Plant (Dubai): This is the largest WtE project in the region, converting up to 1.9 million tons of waste annually into electricity.

- **Outcome:** They agreed to collaborate with LoopBite by accepting pre-sorted organic waste for composting or energy recovery, on the condition that transportation is handled by us.
- This partnership reinforces our upstream waste diversion strategy and opens doors to large-scale waste valorization pathways across the UAE.



Why Choose Us?

- Immediate Impact – Reduces landfill waste today
- First circular waste-to-farm model in Ajman
- Full value loop from urban waste to agriculture
- Strong alignment with MOCCA's Circular Economy 2021–2031 vision
- Community Inclusion and Gamification

Our Five-year plan includes:

- Community-centric and engagement projects celebrating sustainability with real behavioral change
- Future expansion into a large scale proven business model



**Join us in turning
Ajman's waste into
wealth – one loop at
a time!**



LoopBite