



ECAE COMPREHENSIVE PROFILE

From Waste to Wealth in Sustainable Agriculture

Profile for Elgon Circular Agro Enterprises: a registered and operational circular agribusiness in Kitale, Kenya.

Registered in Kitale

Operational Farm

Circular Model

Ready Products

Who We Are

Elgon Circular Agro Enterprises (ECAE) is a registered and operational circular agribusiness with offices and a working farm in Kitale, Kenya. Founded and led by Eng. Lawrence K. Kaptoge, ECAE integrates crop production, greenhouse horticulture, coffee, tilapia fish farming, improved Kienyeji poultry, livestock, Black Soldier Fly (BSF) farming, composting, organic fertilizer and agro-processing into one practical climate-smart model.

Core Promise

Turning organic waste into feed, fertilizer, food and farmer income through a circular agricultural system.

Location	Kitale, Kenya
Status	Registered and operational
Founder/Director	Eng. Lawrence K. Kaptoge
Enterprise type	Hybrid friendly agribusiness
Focus	Circular agriculture, sustainability and farmer empowerment



Vision

To become a leading circular agriculture enterprise that transforms waste into value, strengthens food security, empowers farmers and promotes climate-smart farming across Kenya and beyond.

Mission

To develop, demonstrate and scale integrated farming systems that recycle organic waste into animal feed, organic fertilizer, nutrient-rich water and marketable farm produce while creating sustainable income opportunities for farmers and communities.

The Challenge

- Rising animal feed and fertilizer costs reduce farm profitability.
- Organic waste is often poorly managed, leading to pollution and lost value.
- Smallholder farmers need affordable, practical and climate-smart technologies.
- Soil fertility, water efficiency and productivity need continuous improvement.
- Farmers need diversified income streams and stronger market linkages.

The ECAE Response

- Use BSF technology to convert organic waste into protein feed and frass fertilizer.
- Connect poultry, fish, livestock, crops and composting into one circular production model.
- Use nutrient recycling and water reuse to improve resource efficiency.
- Produce marketable goods while also serving as a training and demonstration hub.
- Create a scalable model that farmers, partners and institutions can learn from and replicate.

How the ECAE Model Works

ECAE runs on a closed-loop idea: outputs from one enterprise become inputs for another. This converts organic waste into value while reducing external input dependence.



Organic waste

farm, market and food residues

BSF larvae

waste converted into protein feed

Feed

supports poultry and fish

Manure & fish water

nutrient streams recovered

Compost & frass

organic fertilizer products

Crops & coffee

produce for markets

Residues return

cycle continues

Circular Value Proposition

The system reduces waste, improves soil fertility, supports feed security, strengthens food production and creates multiple income streams from the same resource base.

Our Key Operations

ECAE combines several farm enterprises into one integrated agribusiness system. Each operation has its own income potential and also supports the larger circular model.



Crop Production

Greenhouse and open-field production including tomatoes, vegetables, coffee and seedling nursery systems.



Agro-Processing

Value addition and processing pathways for farm products, organic inputs and farmer-ready solutions.



Fish Farming

Tilapia production linked to nutrient recycling and water reuse in integrated farming systems.



Poultry Farming

Improved Kienyeji poultry supported by locally produced feed resources and manure recycling.



BSF Farming

Black Soldier Fly larvae convert organic waste into protein feed and frass fertilizer.



Circular Economy

Waste, water and nutrients are reused to reduce costs and increase farm efficiency.

Available Products

All listed products are available from ECAE. The product mix proves the commercial viability of the integrated circular agriculture model.



Coffee

Coffee production and seedlings for diversified farm income.



Tomatoes & Vegetables

Fresh produce from greenhouse and climate-smart crop systems.



Tilapia Fish

Fish production integrated with nutrient cycling.



Kienyeji Chicken

Improved poultry production with circular feed and manure links.



BSF Larvae & Frass

Protein feed and organic fertilizer from waste.



Training & Demonstration

Farmer training, farm visits, setup support and consultancy.

Service Focus

Product supply, organic input production, farmer training, demonstration visits, donor partnerships, investor engagement, and replication support for circular farming systems.

Sustainability in Action



Impact Focus

- Environmental: organic waste reduction, nutrient recycling, improved soil health and efficient water use.
- Economic: lower input costs, diversified income streams and marketable products.
- Social: farmer training, youth and women opportunities, food security and green jobs.
- Climate: improved resilience through diversified enterprises and reduced resource wastage.

Why Support or Invest in ECAE?

ECAE is positioned as a hybrid donor-friendly agribusiness: commercially active, impact-oriented and suitable for partnerships that want measurable sustainability results. Support can help scale production capacity, strengthen infrastructure and build a farmer training and replication platform.

Scale BSF production

More larvae and frass for feed and fertilizer supply.

Improve aquaculture

Better fish systems and nutrient water management.

Expand greenhouse output

Higher-value tomatoes, vegetables and seedling production.

Train farmers

Structured demonstrations and replication packages.

Build market linkages

Reliable buyers for produce, fish, poultry and organic inputs.

Measure impact

Track waste recycled, cost reductions, farmers trained and incomes improved.

Contact

Eng. Lawrence K. Kaptoge, Founder/Director
Elgon Circular Agro Enterprises (ECAE), Kitale, Kenya
Email: kaptoge@gmail.com