



## EcoCycle Larvae System: Black Soldier Fly Larvae (BSFL) proteins for low cost feeds





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Commodities

Fish

Sustainable Development Goals

















#### Categories

Pre-production, Inputs, Animal healthcare

#### Best used with

Fast Growing and Hybrid African Catfish, Cage Systems for Fish farming, Tank Systems for Fish farming, Organic fertilizer for soil improvement . See all 4 technologies online

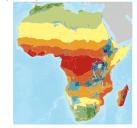
Tested/adopted in

# Adopted Tested

#### Where it can be used

Testing ongoing

This technology can be used in the colored agro-ecological zones



Target groups

Fish Farmers, Manufactures

BSFL proteins for sustainable local fish and chicken feed production

BSFL composting is a biological method that uses Black Soldier Fly larvae to break down organic waste like food scraps and manure. The process produces nutrient-rich larvae for animal feed and a compost by-product called frass.



This technology is <u>validated</u>.





Inclusion assessment



Climate impact



#### **Problem**

- Fish and poultry farming in sub-Saharan Africa face inconsistent and unreliable year-round feed supplies.
- The feed prices significantly increase production costs, making it difficult for fish farmers to sustain operations.
- 30-40% of food and organic is wasted, resulting in to negative environmental impacts, such as pollution and resource depletion.

#### Solution

- Using BSFL to decompose organic waste provides a sustainable way to waste and reduce environmental harm.
- · BSFL technology produces nutrient-rich larvae that can be used as a low-cost feed for fish and
- · Encouraging the adoption of BSFL technology supports a circular economy model that fosters long-term economic stability and environmental protection.

### Key points to design your program

Transforms organic waste into affordable, high-protein livestock feed and nutrient-rich compost. To integrate this technology in programs:

- Creates jobs and income opportunities in waste management, insect farming, and feed production.
- · Requires capacity building: training on larvae rearing, waste handling, and feed processing.
- · Enables partnerships with waste management firms, agricultural groups, and government for greater impact.



Unknown

