

http://taatdb-web/gov/technologies/ecocycle-larvae-system-blacksoldier-fly-larvae-bsfl-proteins-for-low-cost-animal-feeds

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

BSFL proteins for sustainable local fish and chicken feed production

This technology is pre-validated.

84

• Fish and poultry farming in sub-Saharan Africa

face inconsistent and unreliable year-round

production costs, making it difficult for fish

• 30-40% of food and organic is wasted, resulting

in to negative environmental impacts, such as

Key points to design your project

The feed prices significantly increase

farmers to sustain operations.

pollution and resource depletion.

management of BSFL systems.

Gender assessment

feed supplies.

Problem

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.

8•9

Solution

poultry.

protection.

Climate impact

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· Using BSFL to decompose organic waste

reduce environmental harm.

provides a sustainable way to waste and

BSFL technology produces nutrient-rich larvae

Encouraging the adoption of BSFL technology

supports a circular economy model that fosters

long-term economic stability and environmental

that can be used as a low-cost feed for fish and



Scaling readiness: idea maturity 8/9; level of use 9/9

CGIAR a African Agriculture IITA Rousseau Djouaka



Categories

Commodities

Fish

Pre-production, Practices Input processing,

Animal feed management

Best used with

- Fast Growing and Hybrid African Catfish >
- <u>Cage Systems for Fish</u> <u>Culturing ></u>
- Tank Systems for Fish <u>Culturing ></u>
- Flow-Through and **Recirculatory Water** Systems for Fish Tanks >

Tested/adopted in



Where it can be used

Enquiries e-catalogs@taat.africa

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





EcoCycle Larvae System

1,000-2,400 USD

Small BSFL composting system

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IIP Unknown

Black Soldier Fly Larvae (BSFL) Composting Technology enables sustainable waste management in

Implementing this technology involves setting up waste collection systems, BSFL rearing facilities, and marketing feed. with initial costs ranging from 1,000 to 2,400 USD. Key project partners may include waste management organizations and government agencies, and training is essential for effective

sub-Saharan Africa by converting organic waste into affordable, nutrient-rich livestock feed.

375-1,040 %

Return on investment

proteins-for-low-cost-animal-feeds

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