GreenFeed

High Quality Fish Feed Made from Retail Food Waste

Environmental Problems

Retail Food Waste

Each year, **31% of retail food is wasted** in the US, with 95% of it ending up in landfills. This equates to **133 billion lbs. of food waste per year**.

Landfill food contributes **23% of methane emissions** in the US.

Feeding Fish with Fish

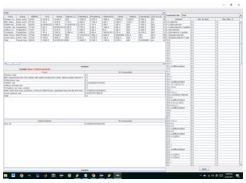
The primary ingredients in commercial fish feed are typically produced from small species of "reduction" fish. However, **over 70% of global fish stocks are fully exploited or overfished**, including reduction species.

Currently, 37% of world seafood is ground into animal feed. **Current feed practices use more fish as raw material for feed than can be produced for human consumption.**

GreenFeed fills the need for a sustainable source of fish feed while addressing the environmental food waste problem

The GreenFeed Process

Collect and sort food waste

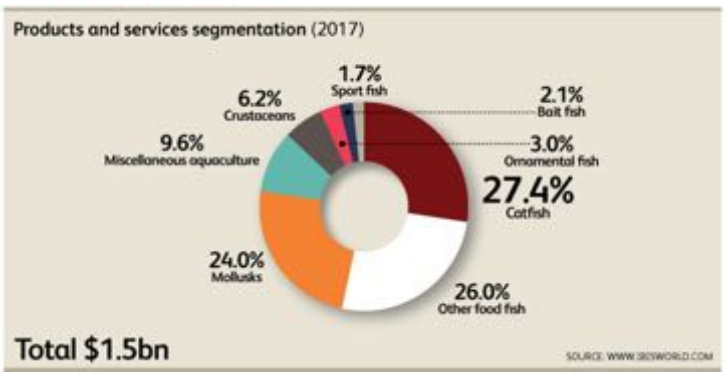


Input available raw materials into software to produce ideal feed recipe

Combine recipe ingredients into feed basis

Pelletize and package feed for distribution

Market Scope & Opportunity



Aquaculture is a $1.5 bn/yr industry in the U.S.

The production of aquaculture feeds is the **most rapidly expanding market in the animal feed production sector**, increasing at a rate of 6-8% each year.

Fish feed is the single largest expenditure for fish farms.

Aquaculture (fish farms) **will provide the majority of the world's seafood** by 2030.

Fish feed generates the **highest revenue per unit of food waste** compared to fertilizer, biofuel, and other uses.

We **can use almost any type of food waste** as an input - our software analyzes the input and fortifies the missing components to generate the recipe for the highest quality, consistent fish feed output.

Our process is eco-friendly and easy to scale up based on availability of necessary equipment.

We plan to start operations in WA and British Columbia, which have the highest concentration of marine fisheries in N. America as well as robust inbound and outbound logistics networks and large food waste sources.

Our Team

Mihyun Kim
UW ChemE

Katherine Schultz
UW ChemE

Pallavi Sharma
Electrical Engineer
UW MBA Candidate

Jiachun Shi
UW ChemE

Steven Smith
UW Computer Science

Leyan Wang
UW ChemE

Mengjia Zhu
UW ChemE

Advisor:
Prof. Lilo Pozzo
UW ChemE