

BioNova

We are an international **multidisciplinary team** from Walla Walla University, focused on entrepreneurship, sustainability, and community development. With our **NGO partnerships** in Zimbabwe, and Tanzania, we provide innovative solutions that address environmental issues and create **economic opportunities for women and marginalized communities**.



Problem

Communities lack access to clean, affordable, and sustainable energy sources. They face the devastating effects of **deforestation** caused by the reliance on wood and charcoal for cooking fuel, and the fluctuations in the **price of propane**. In addition, communities suffer from inadequate waste management systems - posing significant **environmental, economic, and health challenges**.

Solution

Our solution uses **coated nylon bags** as anaerobic digesters, innovating a proven process that creates biogas from animal waste. Biogas is used locally in cooking stoves and generators. Our bags are **low-cost, lightweight**, and easy to deploy in remote regions, making them an ideal solution for isolated areas. We generate our revenue by selling Green House Gas credits through the UN Carbon Offset Platform and collecting a portion of sales from the biogas and fertilizer produced. Using UN and government incentives we will build and lease our **network of scalable bioreactors** to communities, locating them near feed lots.

Opportunity

The biogas, fertilizer, and carbon credit industries are rapidly expanding due to their increasing global demand. The global biogas market size is expected to reach **\$38.6 billion** by 2025 while the global biofertilizers market is projected to reach **\$3.9 billion** by 2026. Carbon credit trading volume is expected to reach **2.6 billion metric tons** by 2026. Bionova enters these expanding markets with NGO partnerships holding strategic positions in Eastern and Southern Africa, giving us excellent positioning to expand and meet growing demand.

Community

Our first bioreactor deployment in Ludewa Tanzania this year will **empower women** by providing training and employment to produce/sell biogas and fertilizer. Helping rural communities with **stable employment**, energy, fertilizer, fuel, and financial independence. We are determined to help address the region's waste management issues, create cost savings, and make a **meaningful impact** in Africa and around the world.

WWU Team

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Advisors

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Partners

PADECO – Njombe, Tanzania
ADRA – Harare, Zimbabwe
ENACTUS – Springfield, Missouri
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