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

CEO Mark Wilber, MSW  
-Mexico, USA
CFO William Elloway, Computer Science  
-USA
COO Nyasha Pazvakawambwa, Business  
-Zimbabwe
CSO George Perez, Psychology & Marketing  
-Canada, USA
ACCT. Takudzwa Pazvakawambwa, Business  
-Zimbabwe

Advisors

Dr. Pilgrim, Dean WWU School of Business
Prof. Perez, WWU School of Business  
Dr. Muza, CEO Links Consulting LLC
Dr. Taruwinga, WWU School of Business

Partners

PADECO – Njombe, Tanzania
ADRA – Harare, Zimbabwe
ENACTUS – Springfield, Missouri
Alianza Arcana – Pucallpa, Peru