

Lost and Frond

Executive Summary

Team members

Lilli Bennet Izzy Coiro Anna Perko Michael Roysner



Advisors Emily Cotter Don Fullerton



The Venture

Lost and Frond diverts **palm tree waste** from landfills and converts it into **biochar**, a soil amendment used in **carbon sequestration**, which generates **carbon credits and offsets** through the application of our biochar.

Environmental Problem

Palm frond waste is **both** an environmental and waste management issue. Palm fronds present a unique challenge, as they are known to take **50-100 years** to breakdown in landfills and often damage green waste processing machinery. Regular green waste disposal methods, such as landfilling, mulching, and incineration, are **an expensive waste of resources, inefficient, and increase greenhouse gas (GHG) emissions.**



Quantifying Waste and Opportunity



Our Solution

Lost and Frond diverts regional palm tree waste, and through pyrolysis turns it into a biochar product.

Our biochar is **recirculated** into the community for use, improving drought resiliency, crop fertility, sequestering carbon and reducing GHG emissions.



Opportunity Drivers



Regional Credit/Offset Generation & Revenue



Environmental Impact



2-3 tons CO2 equivalent sequestered **per ton biochar** used

25% reduction in runoff after biochar application



0.3 metric tons landfill-generated methane avoided per ton greenwaste diverted

Social Impact

Our regional model **builds community resilience** by **creating circularity** in the aggregation and distribution of our product to help increase interactions between waste creators and waste users.

