



Pitch Deck & Project Summary

Turning Plastic Waste into Wealth

Project Cost: ₦20,000,000

Location: The Federal Polytechnic Ilaro

Date: October 2025

1. Problem Statement

Nigeria produces over 2.5 million tons of plastic waste annually, with less than 10% recycled. The result is widespread pollution, blocked drainage systems, and lost economic potential. The Federal Polytechnic Waste Recycling Hub aims to address this issue by converting waste plastics into valuable industrial raw materials.

2. The Solution

The project will establish a plastic crushing and recycling plant on campus. The hub will collect, sort, crush, and process plastic waste into clean, reusable flakes for sale to manufacturers and research institutions. The initiative will also serve as a training and demonstration center under NASENI collaboration.

3. Market Opportunity

Nigeria’s recycling industry is valued at over ₦300 billion annually, with demand for recycled plastics increasing from beverage, packaging, and textile manufacturers. There is a growing export potential for high-quality plastic flakes.

4. Financial Highlights

Parameter	Amount/Value
Total Investment	₦20,000,000
Annual Revenue (Year 1)	₦144,000,000
Operating Cost (Year 1)	₦34,360,000
Net Profit (Year 1)	₦109,640,000
Return on Investment (ROI)	548%
Breakeven Period	Less than 12 months

5. Project Team

Name	Role	Expertise
Engr. Dr. S. A. ODUNLAMI	Principal Investigator	Machine Design & Fabrication
Engr. M. A. OKUSANYA	Co-Investigator	Renewable Energy & Automation
Engr. Dr. S.D. OLUWAGBAYIDE	Technical Coordinator	Waste Recycling & Environmental Engineering
Engr. C.B. OGUNLADE	Fabrication Engineer	Welding & Machining
Engr. J.O. AKINTADE	Administrative Officer	Procurement & Budget Management

6. Social and Environmental Impact

The project will divert over 200 tons of plastic waste monthly from landfills, create over 100 direct and indirect jobs, reduce carbon emissions, and serve as a model for green innovation in tertiary institutions.

7. Call to Action

We invite NASENI and strategic investors to partner with The Federal Polytechnic Ilaro in establishing this Waste Recycling Hub, enabling technology transfer, local fabrication, and sustainable economic growth.