

PROJECT REPORT: FROM WASTE TO ENERGY

Renewable Biomass from Coconut Shells in Ghana

€6,500 SEED FUNDING	Oct 2025 PROJECT START	Biomass CIRCULAR ECONOMY	Ghana COASTAL PROTECTION
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1. PROJECT OVERVIEW & KEY DATA

Project Title:	From Waste to Energy – Renewable Biomass from Coconut Shells in Ghana
Project Partner / Org:	Plastic Punch (PP)
Project Start:	October 2025
Focus Areas:	Circular economy, marine conservation, renewable energy & local employment
Initiator & Funder:	contribYOUte gGmbH (Funding Amount: EUR 6,500.00)

2. BACKGROUND & CHALLENGE

“By linking waste recovery, marine turtle conservation, and the provision of renewable biomass, the project creates economic opportunities for vulnerable groups while simultaneously solving pressing environmental issues.”

Environmental Context in Ghana:

- **Enormous Waste Volumes:** In Ghana, the utilization of coconuts generates vast quantities of discarded shells, creating severe environmental and waste disposal challenges.
- **Lack of Clean Energy Sources:** Many local communities lack access to affordable, clean, and renewable energy alternatives to traditional fuels.
- **Threats to Coastal Ecosystems:** Coastal regions are heavily impacted by plastic and commercial waste, directly threatening the nesting habitats of endangered sea turtles.

3. IMPLEMENTATION & STRATEGIC APPROACH

The project combines Plastic Punch's expertise in environmental education, citizen science, and waste prevention with organic waste recycling:

- **Biomass Value Chain:** Preventing improper disposal of coconut shells along beaches and roads, converting biomass into a clean-burning, cost-effective energy source.
- **Complementary Coastal Protection:** Reducing coastal litter supports turtle monitoring and Plastic Punch beach cleanups, ensuring healthy nesting conditions.
- **Edutainment & Awareness:** Utilizing educational entertainment (edutainment) and participatory methods to actively engage community members in sustainable waste management practices.

4. IMPACT ANALYSIS & CONCLUSION

- **Resource & Waste Reduction:** Demonstrating a functional model for sustainable resource use and circular economy principles.
- **Socio-Ecological Impact:** Creating employment opportunities and economic prospects for vulnerable populations while protecting local ecosystems.
- **Sustainable Future Model:** The €6,500 seed funding from contribYOUte established a pioneering foundation for clean energy solutions in Ghana.