"EcoFrio circular Bakata · Clean Energy

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Country: ?? Colombia · Bogotá **Category:** Clean Energy **CT Taxonomy:** CT-EN-001 — Solar PV **Impact Areas:** Adaptation, Circular Economy, Nature-Based **Stage:** Sketches **Team Size:** 1.0 **Funded:** False

Elevator Pitch

We have developed a portable solar cooler made from recycled polymers to provide sustainable cooling in areas without access to the power grid. Our system uses advanced thermal efficiency technology and is protected by a green patent.

Climate Problem

We are tackling the climate crisis by transforming recycled polymers into clean energy solutions. This is vital for curbing global warming and reducing the industrial carbon footprint.

Solution

We offer a portable, solar-powered cooling system made from recycled polymers. In practice, we eliminate CO2 emissions and repurpose post-industrial plastic waste.

Revenue Model

My plan is to generate revenue through the direct sale and rental of solar-powered refrigeration units made from recycled polymers. We also offer maintenance contracts and services for sustainable logistics, thereby diversifying our cash flow.

Target Market

Our target audience includes small businesses, government agencies, and NGOs. We focus on clients who need energy independence and cost savings through solar cooling.

Social Impact

People of African Descent, Indigenous Peoples, Roma - Sinti and Travelers, Persons Belonging to National or Ethnic - Religious and Linguistic Minorities, Migrants, Refugees - Asylum-seekers and Internally Displaced People, People Living in Extreme Poverty, Women, LGBTQI+ People

Demand Evidence

Based on the 2026 Energy Transition Act, the need is real: there is a 40% shortfall in clean cooling in off-grid areas. My project addresses the government’s mandate to decarbonize the cold chain through the circular economy

Competitors

None of them use clean energy, recycled polymers, or autonomous cooling

Founder Expertise

Empirical researcher and technical developer. I have spent months teaching myself thermodynamics and polymers to create a unique solution. My knowledge comes from hands-on experimentation and the design of the green patent.

External Support

None

Team

Head of Research, Development, and Strategy: I oversee technical design, polymer stress testing, and management of the Green Patent. I supervise the commercial viability of the invention and its adaptation to the

regulations of the 2026 Treaty.

Founder

Edison David Afanador Carranza

Revisión #1
Creado 2026-05-29 03:20:04 UTC por Angelica Diaz
Actualizado 2026-05-29 03:20:04 UTC por Angelica Diaz