PyroGreen Solutions · Air & Environment

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Country: Peru · Lima **Category:** Air & Environment **Impact Areas:** Circular Economy **Stage:** Ideation **Team Size:** 0 **Website:** —

Elevator Pitch

Install a pyrolysis plant to process end-of-life tires (ELTs) and produce pyrolytic oil, pyrolytic carbon, and recoverable gas, with emissions control and environmental compliance.

Climate Problem

It addresses GHG and black carbon emissions from tire burning and dumping and reduces demand for fossil fuels by recovering oil and gas. It is important because it mitigates climate change, improves air quality, and promotes the circular economy.

Solution

I offer a pyrolysis plant that converts tires into oil, gas, and carbon. In practice, it prevents burning and landfilling, replaces fossil fuels, controls emissions, and generates revenue from the sale of byproducts.

Revenue Model

Revenue from the sale of pyrolytic oil and carbon, savings/sales from natural gas (energy use), tipping fees, offtake agreements, management/recycling services, and potential incentives/green financing.

Target Market

Market: refineries and chemical plants (oil), rubber/plastics manufacturers (carbon), power plants (gas), municipalities/operators (NFU). Local/regional focus ?300 km; export depending on quality.

Social Impact

People Living in Extreme Poverty

Demand Evidence

There is demand for the REP framework, which requires the management of NFUs, imposes penalties for burning or abandonment, and provides buyers for oil, coal, and gas.

Competitors

Competitors: pyrolysis plants, mechanical recyclers (carbon black), waste management/disposal companies, exporters/traders, and municipal companies. There are no known competitors in the area, but there is a presence in the city of Arequipa.

Founder Expertise

I have experience in administrative management.

External Support

None,

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