Scaling Global South Climate Solutions | ZeroSmoke Stove - Nigeria





ZeroSmoke Ventures manufactures and distributes energy-efficient, clean-burning ZeroSmoke Stoves to eliminate indoor air pollution and reduce biomass fuel consumption for low-income households.

Challenge

Over 4 billion people globally rely on traditional biomass and inefficient stoves for daily cooking, causing severe respiratory health issues, particularly among women and children, and driving rapid deforestation and greenhouse gas emissions across the Global South.

Solution

The ZeroSmoke Stove utilizes advanced airflow design and efficient combustion technology to dramatically reduce smoke emissions and biomass fuel requirements. Its durable, locally adapted construction offers an accessible, scalable alternative to traditional cooking methods without disrupting local cooking practices.

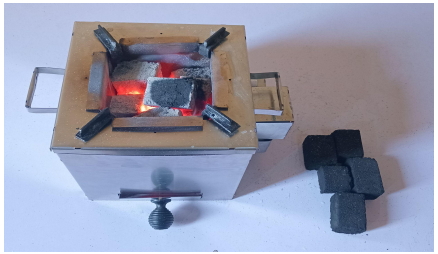
Impact

- Health & Safety: Reduces toxic indoor smoke emissions by up to 80%, decreasing respiratory illnesses among primary cooks and household members.
- Environmental: Decreases household wood fuel consumption by up to 50%, reducing localized pressure on forests and cutting carbon emissions.
- Economic: Saves households up to 30% of their monthly income previously spent on fuel purchases

Partners

Ayetoro Local Community Cooperatives: Distribution and end-user onboarding





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