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Green Heart Action Plan

Problem Definition / Problem Statement

Georgia's food waste takes up a lot of the space in landfills, and wastes a lot of food and water, and emits CO2.

Root Cause of the Problem

Humans are the root cause of the problem.

List at Least Three Credible Resources that Support Your Problem Statement

US environmental protection agency.gov

Science for Georgia

Food print

Proposed Solution

To turn food waste into fuel for cars and energy.

How We Will Measure Our Success

If food waste percentages in landfills go down as well as CO2 emissions.



Who are Decision Makers We Need to Reach

Georgia power and Georgia garbage disposal.

Our 3-5 Step Plan for Change

1. anaerobic digestion to make biogas.
2. Make biomethane
3. use the biomethane to heat the steam reformer.
4. Create hydrogen with the steam reformer.
5. use the hydrogen in a hydrogen engine to create energy.

Impact & Equity

This will lower the price of hydrogen to fuel cars by a lot because of the extremely cheap way of making it.

What Help We Need to Be Successful

We need money to create a prototype of the biogas upgrader and anaerobic digester and the steam reformer.

