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The Worcester Hydro-Station

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ABSTRACT
Gasoline is an unsustainable fuel source. Current processes of harvesting renewable resources are inefficient. Hydrogen is a cleaner fuel that can be collected from recycled plants with 100% efficiency. The purpose of this project is to examine the feasibility of implementing a Hydro Station in Worcester, MA.[4]

BACKGROUND
Trends in CO₂ Concentrations (Past 1000 Years)

Since the 1800s, carbon dioxide emissions have increased exponentially.

Greenhouse Gas Emissions of Various Automobile Fuels (g/mile)[12]

Wells-to-Wheels Greenhouse Gas Emissions

METHODS
Catalyze photosynthesis of biomass (corn stover).[9]

Compress gas in high pressure, flame-resistant tanks at Hydro Station.[9]

Monitor hydrogen fuel sales for 15 consecutive years.

PREDICTED RESULTS
Increasing Trend of Customers Using Worcester Hydro Station

Each year, approximately 21 more people accessed the Worcester Hydro Station.[10, 11]

CONCLUSIONS
- Hydrogen is a feasible replacement for gasoline.
- Environment benefits from the reduction of carbon dioxide emissions.
- Number of people accessing Hydro Station directly relates to increase in sales.
- More people continue to switch to renewable fuel, proving customer satisfaction.

REFERENCES