

FRAI

Fuel Recycling & Artificial Intelligence



Who are We?

We are a bunch of tech enthusiasts aiming to create a Green Economy based on Carbon Capture to Carbon Neutral Fuels using Chemistry, AI and Automation.

What we want?

Creating a green, carbon neutral economy around Carbon Dioxide to Fuel Conversion and Hydrogen Fuel Cells Technology.

If you want to know how we plan create a Green Carbon Neutral Economy on a budget?
Please see this pitch.

***You can also skip to page 8 for a summary as well ...**



The Problems

4.6 Million

Deaths Per Year Due to
Air Pollution

37.1 Billion

Metric Tons of CO2
Released Each Year

159 Species

Of Marine Life might
be Lost by 2100

40% Decline

In Fossil Fuels Demand
by 2050

- Global temperatures have risen by about 1° Celsius already.
- Declining popularity of fossil fuels in favor of Electric and Hydrogen Energy Sources.
- Solutions like CO2 capturing to create fuel are expensive and not economical.
- Countries with Oil Centered Economy at Risk of Deflation by the 2070s.
- Increasing Oil Competition from Non OPEC Countries.



Our Solutions

Creating multiple use cases for the same CO2 to Fuel Conversion plant/setup to drive down costs as:

- Air Cleaner
- Fuel Generator
- Emission Controller
- Cheap Hydrogen Generator

These types of multiple use cases of our plant will offset the initial high costs of CO2 to Fuel and help us be cheaper than other companies and even actual gasoline fuels in some cases.

Thus, Removing the Negative Effects of Fossil Fuels cheaply and even opening up opportunities in the hydrogen energy sector.

We will also become a carbon neutral and even carbon negative in various scenarios.



The Business Plan

Because of our plants multi purposes we will have multiple revenue streams as:

1. **Setting up near or in high population areas** and **charging states some fees or tax breaks to clean their air** while producing fuel to sell in that high population area.
2. Creating **portable versions** that could be set up at **polluting factories** to help them:
 - **Minimize their Emissions Footprint**
 - **Avoid the Carbon Tax**
 - **Also providing fuel for the Factory itself**In a mostly **subscription based system**.

3. **Setting up Hydrogen Production Capable plants** as well where possible while **collaborating with** companies like **Toyota** to create a **hydrogen refueling stations network** as well.
4. We will also be **eliminating the need of long haul transportation** by **setting up our CO2 to Fuel Conversion plants near gas/fuel stations and pipelines** increasing profits even further.

Thus, we will be creating a chain of revenue streams that offset the somewhat high cost of converting CO2 to Fuel in a Greener Economy while **expanding** our reach in the **Hydrogen Fuels and Energy Sector** as well.



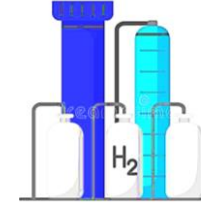
Note: T is Trillion, B is Billion & Fig. are Approx.

The Market Overview

Size of Various Industries that will be innovated by our CO₂ to Fuel and Cheap Hydrogen Production Technology.



\$3T
Global Oil Market



\$150B
Hydrogen Generation Market By 2050



\$33B
Fuel Cell Market By 2027



\$18B
Hydrogen Storage Market by 2024



\$10B
Carbon Capture Market By 2026



Timeline and Funding

Seed Amount we need:
\$870K (₹6.50 Crore) approx.

Our Expected Burn Rate:
\$6k- \$60K per Month
(Including First Month Initial Setup Costs)

We will be using this seed funding to recruit more talented people which will help us rapidly develop the prototypes for the CO2 to Fuel Systems as well as buying all the necessary tools required for the operation in a cost effective manner.

Our Expected Revenue in 3-7 Years:
\$1.3M - \$100M/Quarter at least.



Summarizing

Our main aim is to create a green, carbon neutral economy around **Carbon Dioxide to Fuel Conversion and Hydrogen Fuel Cells Technology** but we are lacking the funds required to even enter the industry.

Also, the cost to CO₂ to Fuel Conversion and Hydrogen Generation is quite high to solve which we have devised ways in which a single plant can have multiple uses as:

1. Air Cleaner

Modifying the Carbon Capture capabilities of the system to clean the Particulate Matter in the air.

2. Fuel Generator

Converting the CO₂ released by Fossil Fuels back into Fuel.

3. Emission Controller

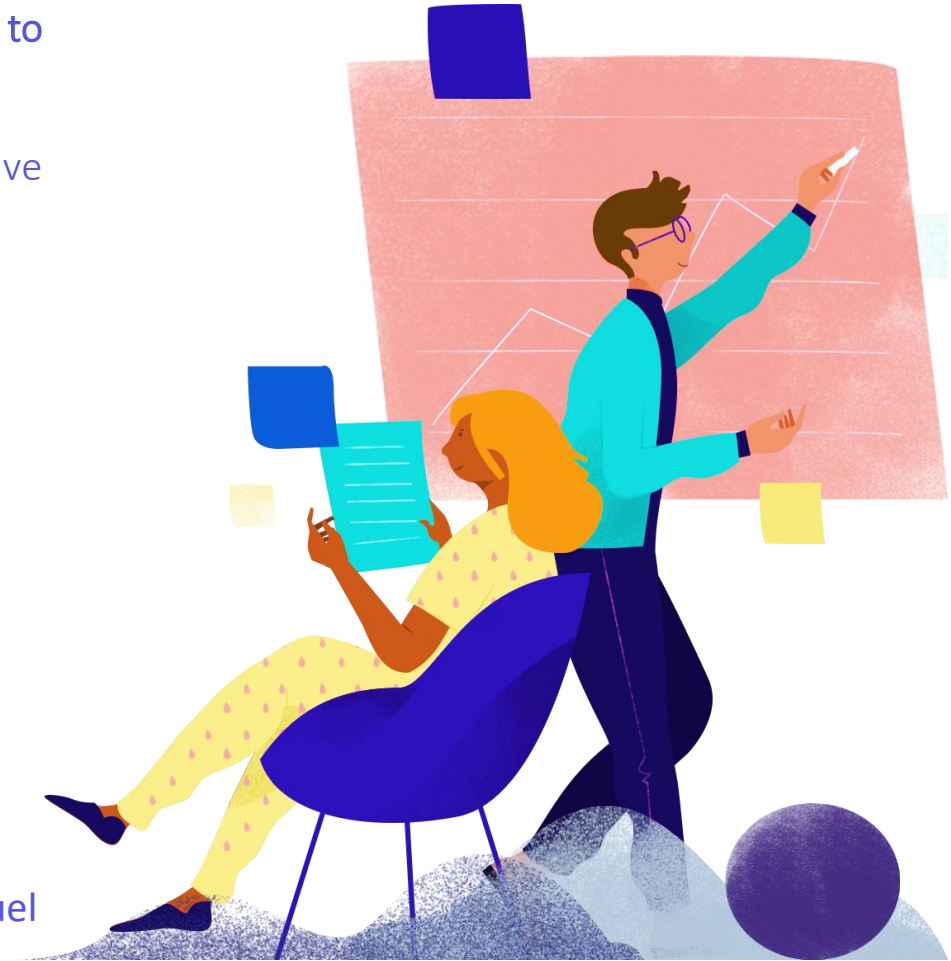
Providing portable plants that are used by factories to reduce their emissions while generating fuel.

4. Hydrogen Generator

Adding hydrogen generation capabilities to larger plants for future expansion.

These types of multiple use cases of our plant will offset the initial high costs of CO₂ to Fuel and help us be cheaper than other companies etc. providing us a clear edge.

Thus, Removing the Negative Effects of Fossil Fuels cheaply and even opening up opportunities in the hydrogen energy sector, while supporting the economies of oil reliant nations as well as the environment as well.





Thank You

For Your Valuable Time

Please contact us for any more details
feedback, particulars etc.

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