



Hydro Fuel



Problem: The Impact of Fossil fuel

*Ever increasing **cost of Fuel***

*Environmental, **high carbon** emissions*

***Adapting** solution to current technology*

A decorative graphic in the top-left corner consisting of a network of interconnected nodes and lines, resembling a molecular or digital structure. The nodes are represented by circles of varying sizes, some solid and some hollow, connected by thin lines.

1.4 BILLION

Carbon Emission Vehicles on the world's roads today

6.44 BILLION Metric Tons

Amount of Carbon Emissions released into our environment per year

1.288 BILLION Metric Tons

Hydrogen Fuel will decrease Vehicles emissions by

What do we do with the old?

Just throw them away?



Recycle?





Our Mission

Creating H₂ Fuel

Our Enviropreneur is developing an On Demand Hydrogen generator.

Adapt H₂ Fuel to Current Technology

The system needs to work with current technology.

Including :

Vehicles, Generators,
Electricity generation

Growth Opportunities

Using the Just Transition model of job creation During all our processes.

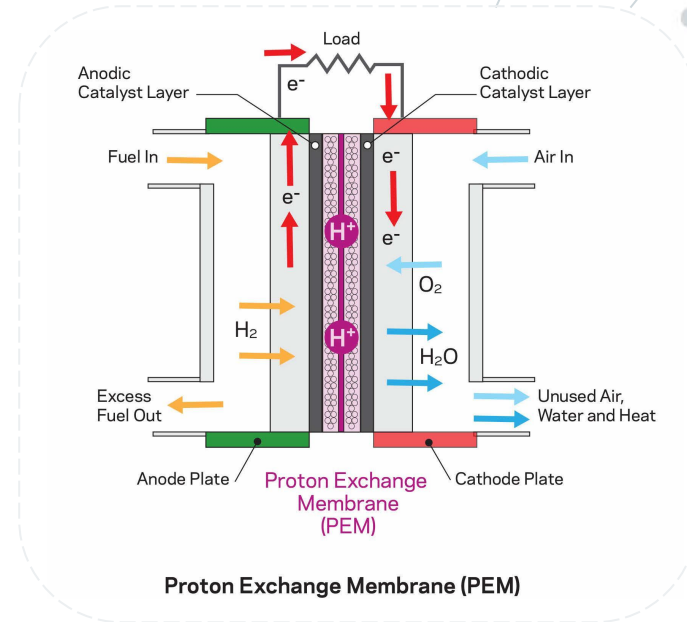
Creating Hydrogen Fuel

H₂ fuel will be created by using Electrolysis.

This process separates water(H₂O) into Oxygen(O₂) and Hydrogen(H₂).

Our PEM Electrolyzer will create a small On Demand Hydrogen that is stable and safe to use.

Additive Free



Adapt H₂ Fuel to Current Technology

The H₂ Fuel machine
is compact
will be easily installed into
motor vehicles and generators
where this will help
lower the fossil fuel consumption
between 15-50%.

Without needing to replace the
entire vehicle.



Adapt H₂ Fuel to Current Technology

Disadvantages

Infrastructure

Because fossil fuels have been used for decades, the infrastructure for this power supply already exists.

Large scale adoption of hydrogen fuel cell technology for automotive applications will require new On Demand H₂ system to support it

Regulatory Issues

There are also barriers around regulatory issues concerning the framework that defines commercial deployment models.

Without clear regulatory frameworks to allow commercial projects to understand their cost and revenue basis, commercial projects can struggle to reach a financial investment decision (FID).

Hydrogen Extraction

Despite being the most abundant element in the Universe, hydrogen does not exist on its own so needs to be extracted from water via electrolysis or separated from carbon fossil fuels. Both of these processes require a significant amount of energy to achieve.

Adapt H₂ Fuel to Current Technology

Advantages

Decreases Emissions

Unlike fossil fuel sources
Hydrogen fuel cells do not
generate greenhouse gas
emissions,

As a result reducing pollution and
improving air quality.

**Greatly Reducing Carbon
Footprints**

Long Usage Times

Hydrogen fuel cells offer greater
efficiencies with regard to usage times.

A hydrogen adapted vehicle uses

Avg. **1lt (H₂O)/1000km**

Drastically increasing the range of
those that use just fossil fuels .

This is superior to that currently
offered by electric vehicles (EVs),
which are increasingly being
developed with fuel cell power units as
'range-extenders'

Hydrogen Extraction

The PEM system uses reduced
amounts of energy to
efficiently create

On Demand H₂

Ensuring that low amounts of H₂
is kept on hand to avoid volatile
containment requirements.

Growth Opportunities

Growth Opportunities exist in these key areas.
Requiring Enviropreneur, Engineers, Hydrologist, Business
Management amongst others.

Development & Manufacture



Installation & Maintenance



Water Purification & Footprint



Our Team



Thabang



Maison



Monique



Keeno



Orrabile



**Cleaner
Future**