



Amr El Hoseini

CO₂ and the Environment

- Main Sources of CO₂:
 1. Combustion of Fossil Fuels.
 2. Production of Steel and Iron.
 3. Manufacturing of Cement.

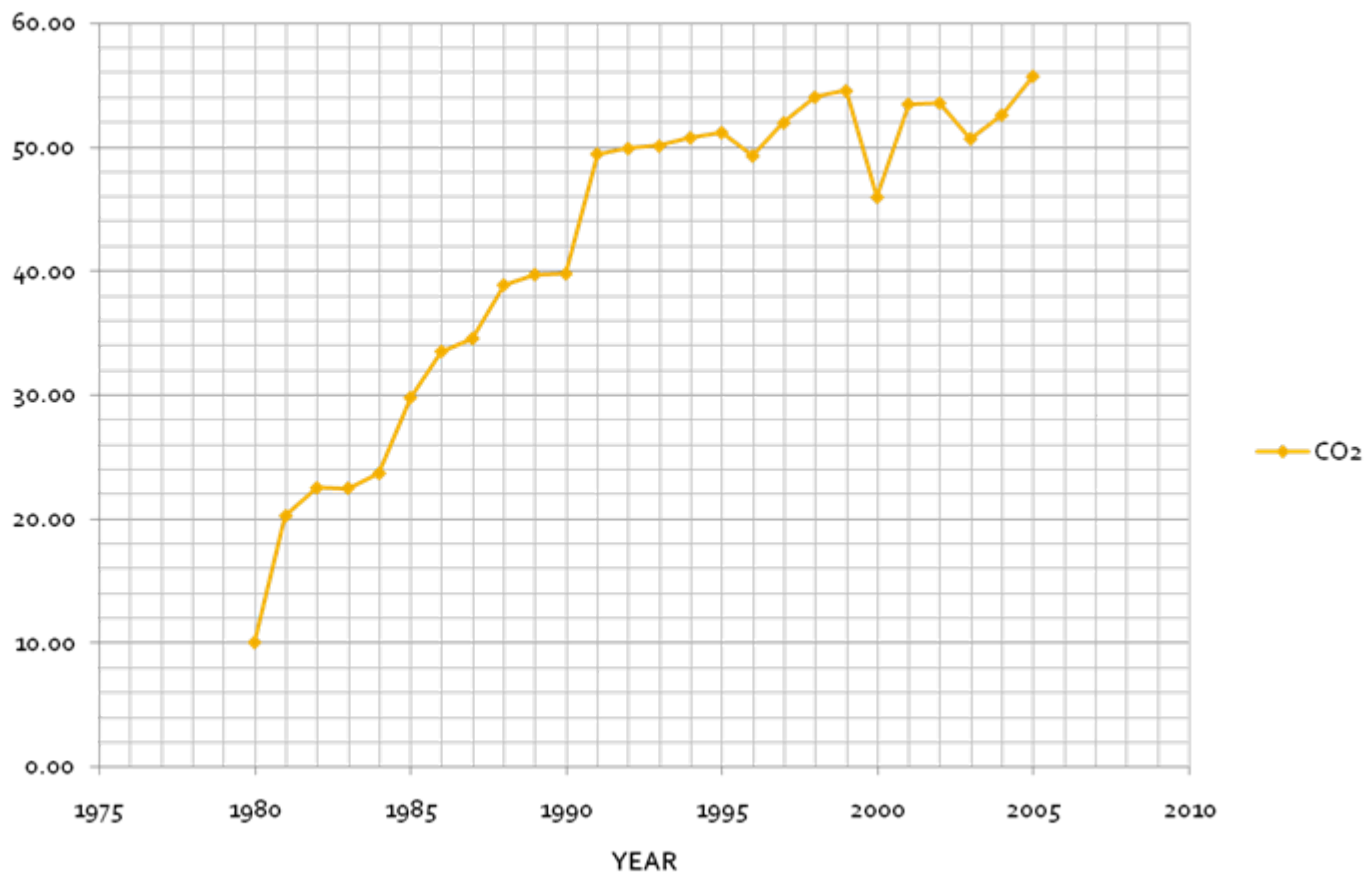
http://www.epa.gov/climatechange/emissions/co2_human.html



CO₂ Emissions due to Consumption of Petrol

U.A.E.

Millions of Metric Tons of CO₂



<http://www.eia.doe.gov/emeu/international/carbondioxide.html>

Water 4 Gas



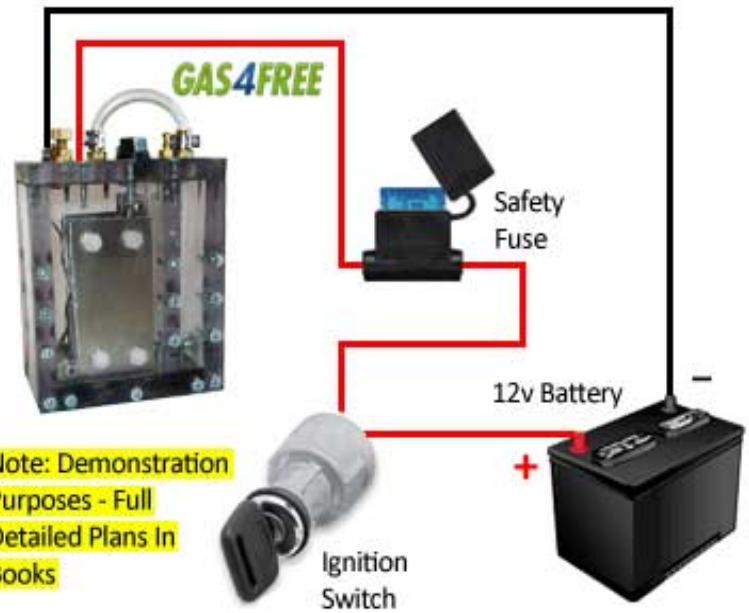
- Process:
 - Electrolysis of Water.
 - Hydrogen and Oxygen are split.
 - Brown's Gas (HHO) is produced.
 - The gas enters the engine through the air intake system.
 - Efficiency of Gasoline combustion is increased.

System Diagram

GAS4FREE



<http://carrunsonh2oreview.com/images/intake-diagram.jpg>



<http://carrunsonh2oreview.com/images/Electrical-diagram.jpg>

Electrolysis

HYDROGEN CELL



WATER CYCLE



\$ Cost \$

- Price of Oil: 6.25 AED/ Gallon
- An average SUV: 20 Gallons
- Consumption: 2 Full Gas Tanks/Week
- 11,000 AED / Yr.

- With Water₄Gas:
 - Around 20% savings = 2750 AED/ Yr.
 - CO₂ Emissions = Reduction of 20-35%

Water 4 Gas

- Cell Components:
 1. Stainless Steel Plates.
 2. Acrylic Container.
- System Main Components:
 1. Electrodes.
 2. Catalyst.
 3. MAP Sensor Enhancer.



Advantages

- Reduction of CO₂ Emissions.
- Increase Mileage Per Gallon (MPG).
- No change in the car operating system.
- Easy to install.
- Hydrogen is not stored.
- Low cost.
- Improved performance.



Advantages

- Sustainability.
- Can be used on a variety of engines.
- Brown Gas is not flammable.
- Easy to uninstall.



FAQs

- How is the Brown Gas Produced?
- Does Hydrogen damage engines with Aluminum heads?
- What is used as a Catalyst?
- Is this a new technology?

<http://www.water4gas.com/faq.htm>



U.A.E. Initiatives & Efforts

- Establishment of MASDAR.
- EAD documents air quality electronically.
- RTA enforces laws to regulate car emissions.
- Awareness Campaigns.

Think Green

- For inquiries:

alqudwah@hotmail.com

A Cleaner Green Place 4 All of Us