

Ethanol and fuel cells

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- *From:* Lazarus Cain <rspeaking@xxxxxxx>
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DEFC uses Ethanol in the fuel cell instead of the more toxic methanol. Ethanol is an attractive alternative to methanol because it comes with a supply chain that's already in place. Ethanol also remains the easier fuel to work with for widespread use by consumers.

Ethanol is a hydrogen-rich liquid and it has a higher energy density (8.0 kWh/kg) compared to methanol (6.1 kWh/kg). Ethanol can be obtained in great quantity from biomass through a fermentation process from renewable resources like from sugar cane, wheat, corn, or even straw. Bio-generated ethanol (or bio-ethanol) is thus attractive since growing crops for biofuels soaks up a fair amount of the carbon dioxide emitted into the atmosphere from fuel used to produce the biofuels, and from burning the biofuels themselves. This is in sharp contrast to the use of fossil fuels. The use of ethanol would also overcome both the storage and infrastructure challenge of hydrogen for fuel cell applications. In a fuel cell, the oxidation of any fuel requires the use of a catalyst in order to achieve the current densities required for commercially viable fuel cells, and platinum-based catalysts are some of the most efficient materials for the oxidation of small organic molecules

We do not intend to use ethanol ultimately as a gasoline replacement for combustion engines, but we had more in mind fuel cell technology. Obama wil encourage fuel cell development and his advisors have suggested that either natural gas or ethanol may be used as a fuel for the fuel cell, and we also get greater efficiency. I am not bullish on plug in electric vehicles.

Other biostock can be used to provide fiber to create ethanol or other hydrocarbon gas. preferably waste biomass.

Ethanol as a direct fuel replacement for gasoline will not work.

I had in mind the ethanol and fuel cell combination.

Solar energy can be immediately implemented as we already have industries seeking to sell their product tothe consumer.

Tax credits for soalr systems installation istrongly advised.

Obama WILL GRANT TAX CREDITS to individual families for iimplementing green energy devices and FEDERAL GUARANTEED LOANS WILL BE PROVIDED.

This is not a request,

it is my LORD's command.

Ethanol and fuel cells

He does love you all.

Follow HIS advice or exterminate yourselves.

With respect to the CO₂, do not GOD's plants thrive on this gas?

Combine light and the excess CO₂ and what can you make or grow?

HINT: Even a caveman knows that answer

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