

Sent: Fri 10/21/2011 12:10 PM
Subject: Advice on Bio - fuels

Good day,

I looked at your questionnaire and felt it warranted a reply.

Firstly the main consideration is to free ourselves from the constraints of OPEC over our Military and our economy utilising their imported crude oil with all the cost and political ramifications.

Secondly our country has done amazingly well in a short space of time making Bio - fuels that work.

I refer to

- a) Bio - Diesel from its various sources.
- b) Bio Jet - fuel The military and civilian aero industry have done a lot of successful testing in fact they could switch over within 2 years , just converting existing plants to manufacture Bio - jet would save billions of dollars.
- c) Bio fuel Ethanol, Gasoline alternative, here the government is partially on the wrong track, sure Ethanol works but is difficult to transport, to store and to use ,harmful to gasoline engines over time . also lower energy outputs and a short shelf life.

What should be considered very quickly ...is converting existing Ethanol plants to BIO- BUTANOL , this product is much more stable ,easier to transport, less prone to evaporation, has similar energy outputs to gasoline, stores well.

Dow and BP have already converted some of their plants to Bio Butanol which has more uses as well from the end and from by- products. similar costs as gasoline to manufacture, safer to workers , public and servicing personnel.

With regard to the BIO MASS required to manufacture the above fuels enough has been said and tested i will however add that Algae is the non ending source of the future, now that low cost methods have been found to extract the oil from the algae cell. More R&D in this area will be money well spent.

I do hope that someone reads this note and that it helps .

Thank you