What's the BioBox All About?

It's about Biodiesel for a buck while reaffirming American innovation. The business model of Pacific Natural Energy is quite simple: allow people to produce biodiesel with a turnkey, all-inclusive mini-factory. What has emerged will be known as the standard for biodiesel production: the BioBox Factory. BioBox factories will be strategically located near all the current collection sources of Americas' waste vegetable oil. These BioBoxes can then easily and efficiently convert this waste vegetable oil into high quality biodiesel.

After identifying the reasons as to why biodiesel hasn't been utilized to its potential, I narrowed it down to the following issues:

1) Locations and amounts of waste vegetable oil
2.) Sizing of current biodiesel plant production
3.) What does it take to be a biodiesel producer, bottom-line?

The BioBox offers a revolutionary design and footprint to allow factories to be located directly by the sources of oil. The current supply of waste vegetable oil is something that is mostly spread throughout large geographical regions and needs to be collected continuously. A BioBox can easily accommodate large and small geographical regions by its footprint. All that is required to operate a BioBox factory is about 10,000 sq/ft of raw land. Also, BioBoxes are only available in standard cargo shipping containers for easy mobility and building plants to the scale required. A region or business can take stock of exactly how much waste vegetable oil they have, and then convert that to biodiesel to fuel a fleet of trucks and reduce fuel expense by up to 2/3's, greenhouse gasses by ½, and foreign imports by 100% of biodiesel produced.

By having BioBoxes with small to very large capabilities, we can then place the biodiesel production at the most efficient locations, thus eliminating most of the logistical issues of a large centrally located production plant. Before the BioBox, biodiesel production only took place on two levels, small-scale hobbyist in a garage etc., or by becoming an oil conglomerate company and building as large of a manufacturing plant as possible. These two options left me cold; what about a mid-market where people and businesses dispose of a substantial amount of oil but not enough to consist of the millions of gallons necessary to supply a major manufacturing facility. The BioBox offers a solution for the world by allowing anyone to convert their own waste vegetable oil into biodiesel for around 1 dollar per gallon. THE REAL GROWTH FOR BIODIESEL WILL BE NOT TO GROW CROPS FOR FUEL, BUT RATHER TO CREATE FUEL FROM WASTE.

The BioBox factory ties it all together, methanol storage, waste vegetable oil storage, refined biodiesel storage, the reactor that does the conversion and everything in between. We are the first to tie it all together in one neat easy to use package. All you would need with a BioBox are the raw materials.

People are starting to realize that all the waste vegetable oil can be recycled into biodiesel. This would reduce foreign oil dependence for diesel fuel by approximately 5% while recycling tons of unused waste material. This is one of the greatest opportunity costs- oversights that can save America 5% of billions of dollars and at the same time create thousands of domestic jobs by doing so. Now with the BioBox we have no more excuses. Let's help the environment and save money, a win-win.

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