

# Alternative Fuels



## Waste Energy Continuous Flow Alternative Fuels System

The production of alternative fuels from liquid wastes is the focus of the latest TMD Technologies Group product. The Continuous Flow Alternative Fuels System will revolutionize the way sugared liquid wastes are treated.

Alternative Fuels are no longer the experimental products that *may* help the oil crisis that exists today, they are the answer to the renewable energy issue plaguing the world. The scientists at TMD Technologies Group have always focused their designs around solving environmental issues that effect the global community, and the latest patent-pending technology focuses on the energy crisis. The Waste Energy Continuous Flow Alternative Fuels System harnesses the proven IMBR technology (the basic building block of the company for over 10 years) to solve the fuel issue.

Unlike conventional ethanol processes that have large plants that primarily utilize crop production as the source, the WE Continuous Flow System utilizes small modular plants and converts once waste products (liquid wastes from the soft drink and fruit juice bottling industry) into a usable energy source, such as ethanol. Other characteristics of the Waste Energy Continuous Flow System that are unlike anything in the market are the following:

- Able to permanently immobilize very specific organisms, whether they are fermentation, yeast producing, or enzyme producing organisms, the IMBR is able to take the specific organisms and attach the organism to the patented engineered surface designed by TMD.
- Once the organism is immobilized, it can be grown at cell density rates only discussed by conventional technology

- The system continually produces the exact organism on a 24 hour a day, seven day a week basis for an unlimited period of time.
- Significant reduction in operational & maintenance costs due to the regenerative properties of the system, no microbial additions are necessary, and less labor is needed.
- Improvement up to 24% in production rates by not having to mix and start batch processes for the organisms.
- Time and size of fermentation of stock material to ethanol is significantly reduced as compared to traditional fermentation systems not utilizing the process.
- Process retention time is significantly shortened, which provides higher yields of ethanol.
- No toxicity issues and no pH issues.

## Contact Us Today! 1.888.803.0103

Call the professionals at TMD Technologies Group, LLC to learn more about the Continuous Flow Alternatives Fuel System and our entire line of patented Products.

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