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E-FUEL MICROFUELER FACT SHEET

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E-Fuel Corporation

E-Fuel was founded in 2007 by entrepreneur Tom Quinn and ethanol scientist Floyd Butterfield to create the world's first portable energy system for homes and businesses wanting to break their dependency on oil. E-Fuel's business model and product design makes home ethanol and electrical power generation practical and cost competitive against the corner gas station and local electrical power company. To achieve this, E-Fuel focused on the following:

1. Create a "produce where you consume" model of local ethanol production that completely removes the oil industry infrastructure from the process
2. Use local organic waste as a low cost primary source of convertible feedstock fuel
3. Introduce an online global network to provide end-to-end supply chain management of MicroFueler feedstock, service and support
4. Expand upon ethanol's versatility by using it to not only power vehicles but also to provide electrical power for homes and small businesses
5. Offer carbon credits directly to the consumer to offset the cost of E-Fuel100 ethanol
6. Stimulate ethanol demand through the low cost of production, beating prices at the pump and undercutting the electric bill

E-Fuel MicroFueler™

The MicroFueler is the earth's first home ethanol system – a non-combustion ethanol micro-refinery with online global management support-- that combines: (1) a fuel pump; (2) a direct electric power generator interface; and (3) an ethanol production unit. These three features make it possible to produce and manage fuel and power needs without any reliance upon the costly oil and electric industry infrastructures. Containing both the refinery and pump in the portable unit solves the ethanol transportation issue, as users can create the ethanol, pump it directly into their vehicles and reclaim the water used in the process. And it can be connected to the GridBuster™ generator for electricity production - one MicroFueler can produce over 300,000 kilowatts hours of electrical power, occupying 5 square feet, which is equivalent to 40,000 square feet of solar panels.

The MicroFueler is designed to be both environmentally sound and a money saving device for all consumers and business owners—two important characteristics not often found in the same product.

First of its kind

Safety

The MicroFueler's ethanol distillation system eliminates the dangerous combustion heating elements used in commercial ethanol production, making ethanol production safe for the layperson.

Ease of use

The inclusion of the pump system allows the production and consumption of ethanol to occur on the same spot. The pump station has a similar user-friendly LCD interface that can be found at any local gas station pump.

Size

Micro-sensors help house the MicroFueler in a household appliance-size unit suitable for any outdoor space. Using organic waste as opposed to starch (e.g. corn) keeps the unit size small and processing time short (this it also solves the negative impact of using only corn – a popular ethanol feedstock - which has the least amount of CO2 carbon reduction benefit when compared to other feedstocks).



The MicroFueler production unit includes two major components:

1. The distillation closet (42" x 24" x 75") houses the distillation apparatus, E-Fuel100 holding tank and pumping unit
2. The organic fuel tank (67" x 24" x 58"). Separating the organic fuel tank enabled E-Fuel to create a design where up to four tanks may be networked with a single distillation closet. The MicroFueler can subsequently produce up to 280 gallons of E-Fuel100 per week.

How it works

Step one: The MicroFueler needs to be placed on a near-level surface (the MicroFueler will self correct for minor deviations to a level plane to ensure perpendicular orientation of the distillation column) with water, an electrical supply and a drain – just like a washing machine. The feedstock tank may be placed adjacent to the MicroFueler or conveniently located nearby. Organic waste is added to the feedstock tank through an opening in the top of the tank.

Step two: The user activates the LCD micro control panel to initiate either the fermentation or distillation (for discarded liquor) mode to begin the MicroFueler ethanol (E-Fuel100) production process.

Step three: Load weight sensors measure and determine the appropriate amount of water to flow into the tank for proper fermentation. As the organic waste begins its natural ethanol conversion process, high tech ceramic cooler and heater devices under the micro control system maintain the temperature conducive for ethanol fermentation.

Step four: Once fermentation is completed, the dilutive ethanol mix is transferred to the MicroFueler distillation system for alcohol water separation. An innovative process of low temperature vaporization is used to separate the water from the alcohol. This method ensures safe operation in virtually any environment (i.e. no high temperature or open flame combustion is required) and the lowest possible power consumption.

Step five: After both purified water and alcohol exit, the distillation system sends the liquids to be cooled before entering their completed storage containers. The ethanol is now ready to be pumped into the customer's vehicle using the pump operation or routed directly to the E-Fuel Grid Buster generator through the power grid port. The MicroFueler will convert organic waste into ethanol in a few hours. Dealers will also deliver pre-fermented organic waste so the distillation process occurs immediately.

E-Fuel Global Network

The E-Fuel Global Network (EGN) is part of the MicroFueler total system solution. The EGN monitors the MicroFueler's vital signs 24x7, issuing alerts to all parties when necessary. For example, when the MicroFueler runs low on feedstock, the distributor is alerted and will schedule a timely refill. This means customers need only concern themselves with fueling their vehicles or generating electricity with E-Fuel100.

At any time, the customer, distributor and E-Fuel may access the MicroFueler's real-time information and complete historical data, via the EGN's MicroFueler Dashboard.

MicroFueler customers subscribe to the EGN for a nominal monthly fee (included at no cost for the first year). The EGN bills them monthly for the E-Fuel100 ethanol they pump at the agreed upon rate established between the customer and their servicing distributor.

Feedstock & the E-Fuel Distributor Network

Local organic waste is the primary and first source for MicroFueler E-Fuel100 ethanol. Organic waste has the advantage of being virtually free, plentiful and is readily available in large quantities in major population centers, and in need of disposal.

E-Fuel has identified organic waste producers worldwide. In conjunction with E-Fuel distributors, we identify and offer the waste producers a no-cost method to dispose of their waste. E-Fuel estimates that in the US alone, 55 billion gallons of waste is discarded each year. The local distributor retrieves the waste using liquid tank trailers or tanker trucks, which is either redistributed to MicroFueler customers or placed in holding tanks and enhanced through additional fermentation to augment the ambient alcohol level.

The distributor enters into a supply agreement with the customer to service the MicroFueler and replenish the feedstock where the customer is billed at a fixed rate per gallon of E-Fuel100 ethanol used. The price is established by the distributor and typically includes overhead costs associated with the organic waste sourcing and distribution. The agreed upon price is provided to E-Fuel, which in turn uses the EGN to appropriately bill the customer and credits the distributor less an E-Fuel royalty.

E-Fuel customers can choose from two types of feedstock:

- (A) Distilled Enhanced Feedstock which produces up to 280 gallons per week
- (B) Standard Feedstock which produces up to 70 gallons per week

The Distilled Enhanced Feedstock is derived from waste with high alcohol content, such as liquor, which produces a higher yield of E-Fuel100. This is ideal for fleet managers, for example, which require large volumes of fuel.

The Standard Feedstock is more suited to households that require E-Fuel100 for personal vehicles and for powering homes with the GridBuster.

Where to buy a MicroFueller and for how much

In the United States MicroFuelers are available for sale online at www.microfueller.com. Orders are being processed for an anticipated late summer delivery in the priority in which they are received. The list price is USD \$9,995. In the US, a 50% federal tax credit may be available to business owners, lowering the price to USD \$4,998; for individuals, a credit maximum of \$2,000 is available. International customers should contact E-Fuel at sales@efuel100.com.

Carbon Credit Coupon Program

E-Fuel is the only company in the world offering customers a discount program modeled on the Kyoto Protocol's "cap and trade" system. E-Fuel's exclusive Carbon Credit Coupon Program will reward MicroFueller owners for reducing their carbon footprint by allowing them to offset the cost of E-Fuel100 ethanol. By using E-Fuel100 ethanol, consumers can reduce their carbon emissions by 85% when driving.

Why ethanol?

1. It has a positive effect on your wallet: Ethanol is more efficient than gasoline because it burns slower, cooler and with 40% more octane. Since it's organic and taken from the local community waste stream E-Fuel100 ethanol is a 100% renewable fuel. Most current gasoline vehicles are compatible with E-Fuel100 ethanol and others, including diesels can be converted to run on E-Fuel100.
2. It helps the environment: It reduces our reliance on finite fossil fuels, particularly oil. MicroFueller creates ethanol from organic waste, such as discarded alcohol and beer yeast, of which US breweries and distilleries discard countless billions of gallons each year. Other sources of organic waste include sugary water from soft drink manufacturers. E-Fuel estimates that each year in the United States, 55 billion gallons of organic waste is discarded through our sewage treatment centers, polluting our planet. E-Fuel has established a database with over one million international organic waste sources that E-Fuel distributors and dealers can use for organic fuel.
3. It makes business sense: Restaurants, bars, wineries, breweries and distilleries discard tens of thousands of gallons of waste alcohol each year. The MicroFueller can be used to convert all

these organic fuels, which represents an unexplored goldmine of revenue. E-Fuel dealers will transfer waste from waste locations and prepare them for MicroFueller ethanol fuel conversions.

FACT SHEET

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