



vegawatt
ON - SITE WASTE
VEGETABLE OIL GENERATORS

Transportation vs Co-Generation

Greasecars and the Vegawatt

The technology behind the Vegawatt system gained inspiration from many industries. The automotive use of waste vegetable oil as a transportation fuel was a major inspiration, hence the many similarities between a greasecar and the Vegawatt.

Greasecar, (the generic name for many modification kits offered by Greasecar, Frybrid, ATG and Golden Fuel Systems), allow a modified diesel engine to utilize Waste Vegetable Oil (WVO) as a fuel. There are several well documented techniques and each technology utilizes a slightly different approach, with different mechanical modifications necessary to the platform vehicle.

The Vegawatt system is a simple to use, turnkey, renewable energy system with integrated oil processing that generates electricity and hot water, on-site, for foodservice operations by using waste cooking oil as a fuel source. This complete approach allows the Vegawatt to be optimized for standard foodservice procedures. No additional equipment is required to realize the benefit of the system.

The largest financial disadvantage to utilizing WVO for transportation is that the benefit is not easily captured by the restaurant. Few restaurants own diesel vehicles and have the knowledge or desire to install and maintain a greasecar system. Automotive WVO systems simply do not offer a viable method for a restaurant to reclaim the inherent value of their oil. The Vegawatt system is designed for use by the foodservice industry. Any restaurant can seamlessly integrate a Vegawatt system into their operations and realize over \$3.00 in energy savings for each gallon of WVO supplied to their system.

The largest ecological disadvantage to utilizing WVO for transportation is its efficiency. Most transportation diesel engines perform at 30% efficiency. The majority of the energy in the fuel is wasted as heat. A Vegawatt system captures both the electrical and thermal energy in the fuel, with a system efficiency of 92%. **A Vegawatt system extracts 3 times more energy from a gallon of WVO than an automobile can!**

A Vegawatt system provides to a restaurant both the ability and the financial incentive to convert their oil into energy. Fueling co-generation is more environmentally friendly and more financially viable than fueling transportation.



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