

Space Heating from *Untreated* Used Vegetable Oil Can Slash Carbon Emissions, Cut Costs Dramatically: Massachusetts Inventor Receives Patent

ASHFIELD, MA: Less pollution and carbon emission, 2/3 lower cost, and access to enormous quantities of fuel that companies now pay to dispose of. Those are three of the many benefits inventor Tom Leue sees for his Yellow Heat™ Burner system. Others include:

- Zero toxicity, and not subject to hazardous waste requirements
- 93 percent reduction in carcinogenic nPAH compared with diesel
- Possibility of zero fuel cost if sourced from companies currently paying for disposal

And the US Patent Office agrees, awarding Leue Patent 9033698 in May, 2015. Leue's modification of conventional oil burner—for the first time—allows burning of waste vegetable oil (for example, from restaurant fryolators) *without pretreatment, preheating, or even filtering*. The complete system invented by Leue includes oil storage, cleaning, combustion and controls. It can burn any type of oil, untreated—but Leue sees the big opportunity in diverting over a hundred million gallons of wasted or exported frying oils each year that could instead replace expensive imported petroleum.

Until now, reusing waste vegetable oil has required several energy- and time- consuming, polluting processes that add cost and decrease reliability. Yellow Heat's efficient method of directly reusing the vegetable oil just as it comes out of the restaurant eliminates those extra steps. The heating system is suitable for agricultural (for example, greenhouses, grain dryers, and space heating), auto repair shops, and other commercial uses, but is not certified for residential systems. Many users will see a payback of just one year (based on burning a thousand gallons or more per year).

The compostable residues left over, Leue says, are “more biodegradable than white sugar, less toxic than table salt.”

Leue has been involved with energy conservation, biodiesel, and related areas for decades. His company, Homestead Inc., has started building affordable turnkey Yellow Heat units at a manufacturing facility in Ashfield, Massachusetts. Those with do-it-yourself skills can lower the cost significantly by buying and assembling the components.

Journalists: Leue is available for interviews and willing to provide technical specifications and patent details.

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For Immediate Release

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