

T.G.I.F. – Turn Grease Into Fuel

Presentation to the Westerly School Committee



by the Westerly Innovations Network



<http://www.youtube.com/watch?v=UrCgtUzflt4&feature=related>

How we have helped the community so far

- Set up 8 public WCO recycling locations in four towns and cities in two states
- Lobbied 95 restaurants from 9 towns and cities to participate in TGIF
- Converted 75,000 gallons of WCO into 60,000 gallons of biodiesel, we currently contract Newport Biodiesel as our refiner
- Drafted a WCO recycling law in the state that will be voted on by lawmakers this year
- Distributed 9,200 gallons of biofuel to 92 families who needed emergency heat
- Won many awards including \$3,000 from the Lexus Eco Challenge Awards, which was directly given to Westerly Middle School (potentially \$10,000 more if we win the grand prize).

TGIF contributed a total of **\$35,200** (including \$3,600 for flood recovery funds) to our community in less than 2 1/2 years!

Here is the homework for the school committee



1. Please consider using biodiesel blends (B5 – B20) in Westerly school buses.
2. Please ask the school lunch catering company (Chartwells) to participate in TGIF.
3. Please help us recruit more restaurants.

Why should we use biodiesel blends in our school buses?



1. It's Safe and Reliable:

- The flashpoint for biodiesel is 300°F, comparing to diesel of 140°F. B20 is in-between.
- B20 will not stall the bus engines in the cold winter.
- Many schools in NJ, IL, NV have been using B20 for years (We are not the first!) Their track records are promising!

Case study- Medford School District, NJ

- Medford School district is about the same size as Westerly (3,300 students and 35 buses) and has similar weather patterns.
- Started using B20 fuel in all buses in 1997, no buses have broken down because of fuel problems in 14 years.
- Joe Biluck, Director of Operations and Technology, and Jim Howell, maintenance mechanic, told us there were no fuel filter or storage tank issues while using B20 in buses.



**Medford Township
Public Schools**

You may call Mr. Biluck @ 609-953-5841 ext. 1507 for questions

Why should we use biodiesel blend in our school buses?



2. It's Cleaner and Healthier:

- 78.5% reduction in carbon dioxide emissions from the production and use of biodiesel, compared to petroleum diesel
- Biodiesel contains 0% sulfur
- B20 generates less soot which helps cut particulate matter, the number one source of asthma in children.

Why should we use biodiesel blend in our school buses?



3. It's Cheaper:

- No modification is needed for school buses
- The rack rates (wholesale prices) of diesel and biodiesel are extremely similar year round.
- Rhode Island General Laws exempts biodiesel from the motor fuel tax. The biodiesel has to be made in RI and has to meet ASTM D6751 standards.
- If the diesel fuel is replaced by B100 (100% biodiesel), this will save 32 cents per gallon.
- Westerly school buses use 50,000 gallons a year. B20 will save taxpayers \$3,200 on the tax alone!

4. The biodiesel is local!

Thank You and please support TGIF!



**Now we would like to present
2,500 gallons of Bioheat©
to WARM, MASH and the Bradford Jonnycake Center**