

OCEA

# **Biodiesel on the Bay**

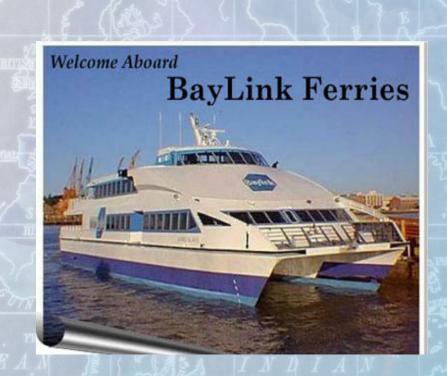
Harborcraft Opportunities and Obstacles San Francisco Biodiesel Task Force

Teri Shore, Bluewater Network — a division of Friends of the Earth September 21, 2006

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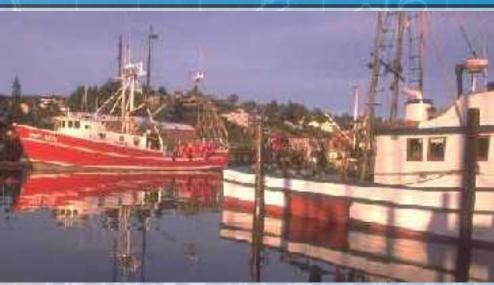
#### Harborcraft

- Commercial vessels:4,000 in California
- Mostly fishing 2,500;
  ferries 400, tugboats
  128
- •Bay Area about 20 ferries for commuter and charter service
- Also fishing, tugs, crew boats, others?
- All use diesel fuel



### Harborcraft annual diesel use





- California:
  - Commercial: 82 million gallons
  - Recreational: 5 million gallons
- Bay Area:
  - •Commercial: 27 million gallons per year
  - •Recreational: 400,000 gallons per year
- By January 1, 2007, all must use California formulated ultra-low sulfur onroad diesel
- Red-dyed for off-road use, no federal highway tax

### **Biodiesel and California diesel**



- Biodiesel is considered an alternative diesel fuel
- •B20 is considered the same as California diesel as long as it meets specifications
- •B21 to B49 is allowed but not recommended by Air Resources Board due to lack of specifications and air quality concerns
- •B50 to B100 exempt from ARB diesel regulations cannot be substituted
- ARB reviewing biodiesel policy not clear
- Governor's bio-fuels directive could help

## New CA harborcraft regulations

- Public process now under way for new engine standards for existing harborcraft fleet in California
- Discussions include use of biodiesel as a way to comply
- Uncertain due to ARB's lack of a formal policy
- Proposal goes to board in February 2007, new standards begin in 2008 to 2014 for engine emissions

## Ferry operators and biodiesel

- Red and White Fleet: using B20, trucked in and pumped "over the water"
  - Advocates need for marine fueling station for ferries and other harborcraft
- Hornblower: will use B20 in generators on Alcatraz, possibly vessels in future
  - Water Transit Authority: committed to using B20 on one route, no timeline
  - Golden Gate Ferry –
    reviewing, possible use of B5 to improve lubricity in diesel
  - Blue and Gold no biodiesel, Oski study



#### **West Coast Maritime use**

- Channel Island State Park, research vessel and generators
- Ventura Harbor, 100 percent biodiesel at pump
- US Navy at Port Hueneme making biodiesel for fleet
- Washington State ferries suspended B20 pilot project due to clogging of filters; possibly due to growth in biodiesel holding tanks
- Hawaii charter vessels, research vessels

#### **Marine Biodiesel Obstacles**

- Biodiesel air emissions profile and concerns – increases in NOx, benefits over ultra-low sulfur not clear
- ARB regulations uncertain policy
- Availability no marine fueling station, trucking is costly and could increase potential for spills
- Operations no fuel specification standards, power loss, engine operations (minor but sometimes a problem)

### **Marine Biodiesel Opportunities**

- Costs: B20 now selling for the same as CA diesel for maritime
- More pressure for harborcraft to clean up
- City of SF commitment to biodiesel
- High visibility, great press
- •Good for the environment not just emissions but reduce dependence on fossil fuels
- •Create renewable fuels jobs in SF, CA



Red, White and Bluewater Biodiesel Golden Gate Bay Cruise





#### World Environment Week San Francisco 2005

Schedule a one-hour Golden Gate Bay Cruise® or a California Sunset Cruise on board Red and White's Harbor Queen and support clean-burning biodiesel. Biodiesel is made from renewable soybean and other vegetable oils or recycled grease from restaurant fries. It cuts air pollution, reduces dependence on foreign oil and is made in the USA.

This one-week pilot project is part of a cooperative effort between Red and White Fleet and Bluewater Network to establish a marine biodiesel fueling station for all ferries, fishing boats, yachts and other harborcraft along the San Francisco Waterfront.

BOOK A CRUISE ON SAN FRANCISCO'S ONLY BIODIESEL VESSEL JUNE 1 TO JUNE 6, 2005 415-673-2900 or www.redandwhite.com

### **Next steps**

- Next steps
  - Explore marine biodiesel fueling station
  - Pier J10? Golden Gate Petroleum could provide tanks and biodiesel; General Petroleum could sell and pump
- Biodiesel Days on the Waterfront truck in biodiesel one day or several days to promote and test market
- Pass City Resolution to Reward Harborcraft that use B20 or more
  - preferential docking? Green award? Listing on City website? Proclamation from mayor?
- Establish maritime subcommittee with port, ferry operator, biodiesel distributor, fisher, yachtsman, enviros

### **Contact info**

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