



Biodiesel and Sustainability

West Coast Collaborative
Islands Partners Meeting



- Currently processing 1.5 million gals of biodiesel on Oahu and Maui
- Biodiesel sold at 5 retail pumps
- Product demand is greater than supply





- Used cooking oil is an excellent but finite source
- Oils currently collected from four islands
- We divert 4 million gallons of F.O.G a year from landfills and water treatment



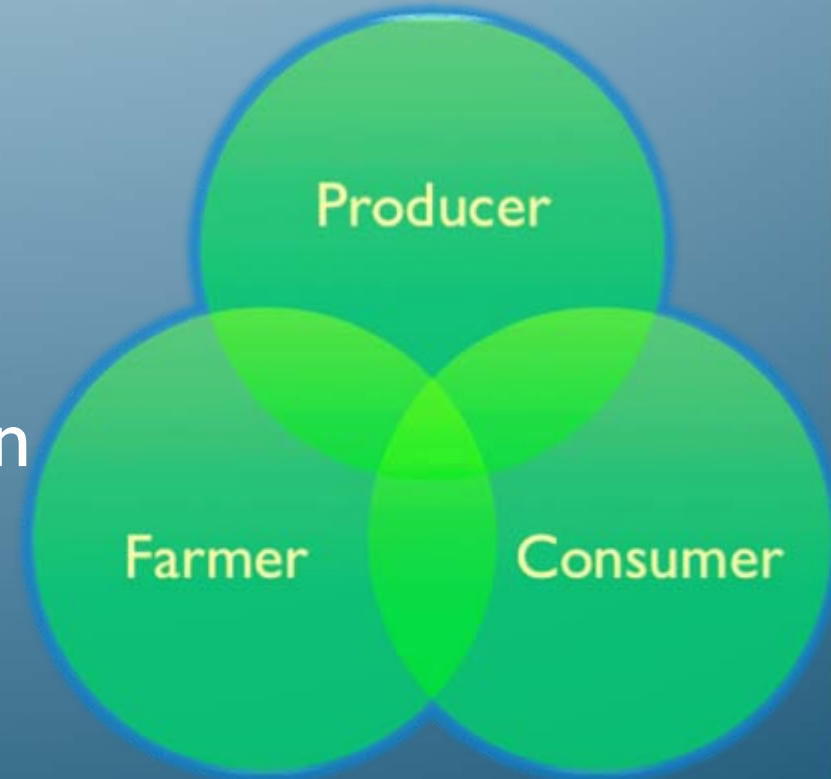
Benefits of Biodiesel

- Cleaner emissions
- Renewable resource
- Local economic benefits
- Waste stream reduction/reuse
- Energy security
- Supports agricultural industry
 - “Crops not Condos”



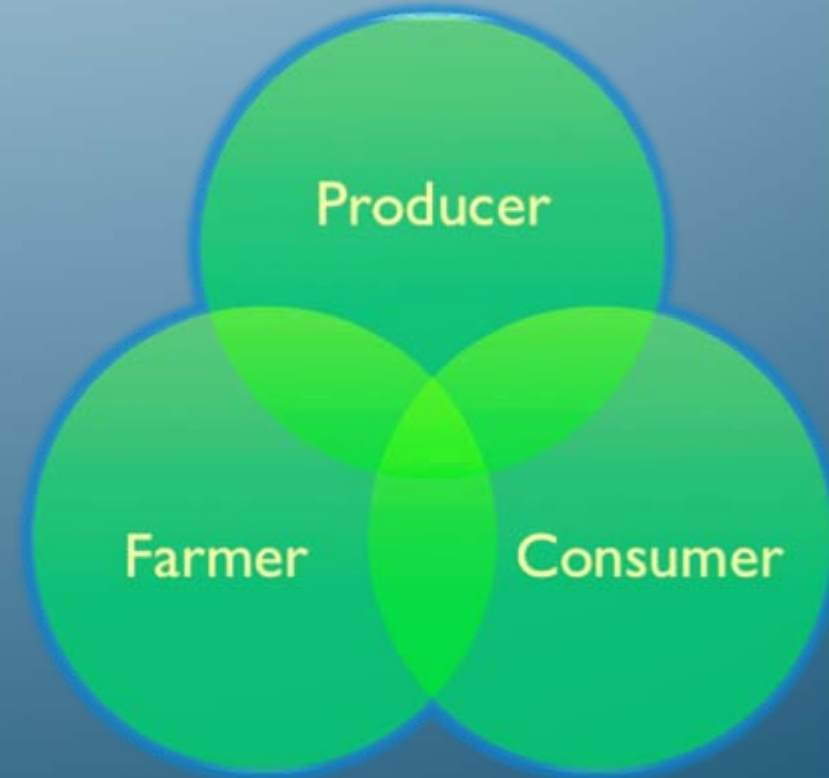
Community Based Biodiesel

- Biodiesel is grown, produced and sold in the same community
- Multiple, smaller production facilities
- Production capacity is scaled to match local feedstock availability



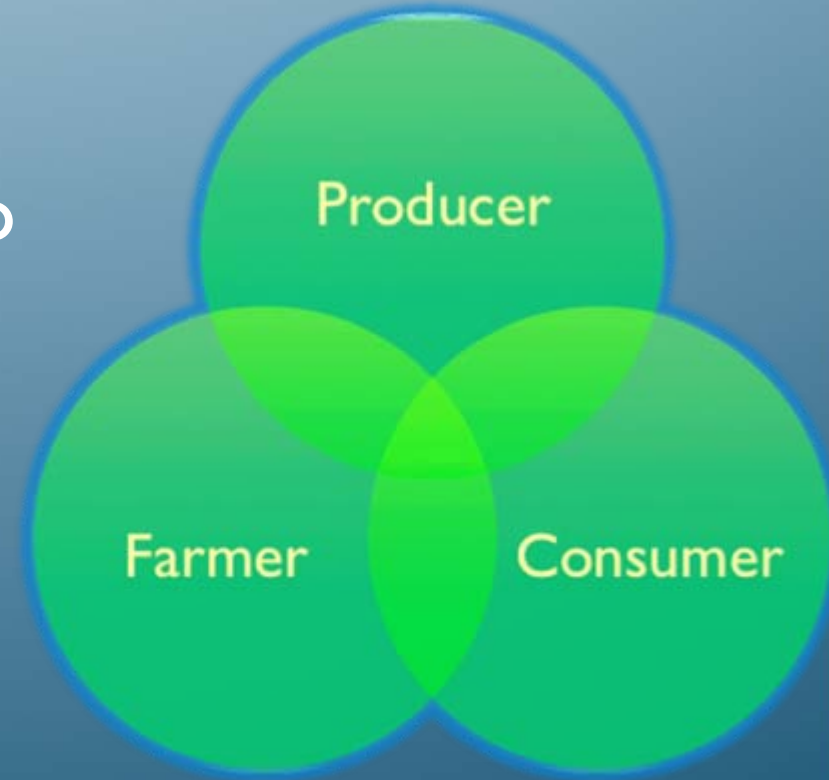
Community Based Biodiesel

- Environmental benefits of biodiesel are maximized
- Minimum transportation requirements
- More flexible and diverse feedstock options



Community Based Biodiesel

- Suppliers, producers and consumers all contribute to local economic base
- Operator is directly connected to community welfare
- Superior energy and food security





Sustainable Biodiesel Alliance

- Formed to address concerns about rapid industry expansion
- Environmental, economic and social sustainability paramount concerns
- Working to create Sustainable Biodiesel Principles and Criteria
- Identification program for participants



Food *and* Fuel

- Numerous Varieties
 - Jatropha, Kukui, Coconut, Castor, Peanut, Moringa, Sunflower, Palm...
- Properties to consider
 - Effects on food sustainability
 - Environmental impacts
 - Water requirements
 - Byproduct applications



Food *and* Fuel



- Rudolf Diesel's original vision
- Diesel Fuel is a major expense for most farmers
- Diesel equipment is required to grow food

A balance can be found





Renewable Energy for a Cleaner Tomorrow

Thank You