



40 Hobron Avenue
Kahului, Hawaii 96732
(808) 877-3144
www.biodiesel.com

FACT SHEET

10.22.19

About Pacific Biodiesel

- Pacific Biodiesel was founded on Maui in 1995, long before the state created the Hawaii Clean Energy Initiative and before Climate Change was a global issue.
- The company was created to alleviate the environmentally hazardous disposal of waste cooking oils at the Central Maui Landfill.
- Pacific Biodiesel is the nation's longest operating biodiesel producer; it established the first retail biodiesel pump in America – on Maui.
- Pacific Biodiesel is Hawaii's only commercial producer of liquid biofuels.
- With a nameplate production capacity of 5.5 million gallons annually, the company's refinery on Hawaii Island utilizes advanced distillation technology to produce premium biodiesel.
- On Earth Day 2016, Pacific Biodiesel was named the world's first biodiesel producer certified by the Sustainable Biodiesel Alliance.

About Biodiesel

- Biodiesel is a 100% renewable, non-toxic, biodegradable fuel.
 - It is less toxic than table salt
 - It reduces harmful emissions by 86% compared to petroleum diesel
- Designated an advanced biofuel by the U.S. Environmental Protection Agency, biodiesel is a cleaner and greener alternative to petroleum diesel.
- Biodiesel can be used in any diesel engine without modification, including cars, trucks, boats, buses, generators and heavy equipment for construction and farming.
- Biodiesel is a direct replacement to petroleum diesel – every gallon displaces a gallon of fossil fuel.
- Biodiesel contains no petroleum. However, it can be blended at any level with petroleum diesel. Even a blend of 10% biodiesel and 90% petroleum diesel will reduce harmful emissions that contribute to global warming.
- Fossil fuels are extracted from the earth, releasing CO₂ that has been damaging the environment for over a century. In contrast, Pacific Biodiesel's fuel is sustainably produced using renewable sources like plant oils, rendered animal fats and recycled cooking oil collected from restaurants and foodservice operations.
- Biodiesel is safer to store and handle compared to petroleum diesel fuel.
- Biodiesel quality is governed by ASTM International Standards. Pacific Biodiesel's renewable fuel exceeds the ASTM premium 1-B standards.
- Pacific Biodiesel recycles waste cooking oils from Hawaii's restaurants to produce its biodiesel.
 - Nearly one gallon of used cooking oil (UCO) yields one gallon of biodiesel
 - Recycling used cooking oil keeps this waste out of the landfills, extending the life of landfills and reducing ground water contamination

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Economic Benefits

- Today, Pacific Biodiesel has nearly 100 employees statewide. The company is a local business creating local “green energy” jobs, producing and selling its fuel in Hawaii to keep revenue and environmental benefits in the state’s economy.
- As a locally made renewable fuel, biodiesel supports Hawaii’s energy security by reducing reliance on imported fossil fuel.
- Biodiesel is helping the state achieve its 100% renewable energy mandate by 2045.
- Pacific Biodiesel has always focused on recycling with a zero-waste philosophy that incorporates development of value-added coproducts.
- In the past, Hawaii restaurants were paying \$1 to \$2 per gallon for proper removal and disposal of their used cooking oil; since 2010 Pacific Biodiesel has performed this service at no charge.

Sustainable Agriculture – Farming for Food Then Fuel

- The founders of Pacific Biodiesel, Bob and Kelly King, are currently farming sunflowers and other biofuel crops on Maui, showcasing a community-based model of sustainable agriculture, renewable fuel and food that is helping Hawaii achieve a clean energy future.
- This family farm is located on 115 acres in Maui’s Central Valley:
 - It is the state’s largest biofuel crop farm used to produce liquid biofuel
 - All farm equipment runs on locally made 100% biodiesel
 - No herbicides, no pesticides, no GMO crops
 - Sunflowers and other “high oil yield” crops:
 - 100 days “from soil to oil” (seed to harvest) = up to 3 harvests per year
 - Rotating different crop types to improve soil health
 - Crops sequester carbon from the atmosphere
 - Hawaiian Moon Calendar farming practices are incorporated
 - On Earth Day 2019, the Kings announced they are operating Maui’s first state-licensed industrial hemp farm on 10 acres within this farm site. A supercritical CO2 extractor will produce cosmetic-grade, full-spectrum hemp extract including CBD.
- Maiden Hawaiian Naturals, a wholly owned subsidiary of Pacific Biodiesel, is producing culinary oils and cosmetic oils from the sunflowers and other locally grown ingredients.
 - Premium culinary oils are sold to Hawaii’s chefs and used cooking oil is recycled to produce a 100% renewable fuel for a cleaner, greener Hawaii – full circle sustainability!
 - Its Kuleana® brand of natural cosmetic ingredients and beauty products includes Hawaiian Macadamia oil made from excess macadamia nuts from Hawaii Island processors and other locally grown ingredients.
 - The subsidiary utilizes a zero-waste production operation – meal remaining after the oil is crushed from nuts seeds is sold as a high-protein ingredient for livestock feed.

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#MauiSunflowers