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FACT SHEET

6-2-22

About Pacific Biodiesel

- Locally made biodiesel by Maui-based Pacific Biodiesel creates local jobs, helps diversify the state's economy, and reduces reliance on imported fuel thereby enhancing Hawaii's energy security.
- Pacific Biodiesel was founded on Maui in 1995, long before the state created the Hawaii Clean Energy Initiative and before the Climate Crisis 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.
- Pacific Biodiesel annually produces 5.5 million gallons of biodiesel, equal to 220 MWh PER DAY of 100% renewable energy for Hawaii. The company's refinery on Hawaii Island utilizes advanced distillation technology to produce premium distilled biodiesel.
- Local biodiesel is produced from used cooking oil recycled from Hawaii's restaurants and from locally grown oil crops like sunflowers – supporting diversified agriculture, clean energy and food security in Hawaii.
- The company's founders are sustainably farming sunflowers and other "high oil yield" biofuel crops with the aim for 100% local feedstock production as demand for local biodiesel continues to increase.

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
- 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 designated an advanced biofuel by the U.S. Environmental Protection Agency.
- Biodiesel quality is governed by ASTM International Standards. Pacific Biodiesel's renewable fuel exceeds the ASTM premium 1-B standards.
- Biodiesel is safer to store and handle compared to petroleum diesel fuel. It eliminates risk from environmentally hazardous fossil fuel spills.
- In Pacific Biodiesel's production process:
 - For each gallon of used cooking oil (UCO) recycled, nearly one gallon of biodiesel is produced
 - Recycling used cooking oil keeps this waste out of the landfills (extending the life of landfills and reducing ground water contamination)

(continued)

PACIFIC BIODIESEL

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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.
- Locally made 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, Face & Fuel

- The founders of Pacific Biodiesel, Bob and Kelly King, are currently farming sunflowers, hemp and other crops on Maui, showcasing a community-based model of sustainable agriculture, renewable fuel and food that is helping Hawaii achieve a clean energy future.
- The farm is located on 115 acres in Maui’s Central Valley.
 - It is Hawaii’s only “carbon negative” agriculture operation – all farm equipment runs on locally made 100% biodiesel while crops sequester CO2 from the atmosphere.
 - The farm utilizes only natural farming practices; no GMO crops
 - Efficient irrigation by ¼-mile-long center pivot irrigator; provides accurate and variable water irrigation to crops; irrigation overnight when there’s less wind
 - 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
 - Hawaiian Moon Calendar farming practices are incorporated
- Maiden Hawaiian Naturals, LLC, a company created by Pacific Biodiesel, is producing culinary oils and cosmetic oils from the sunflowers and other locally grown ingredients.
 - Maiden Hawaii Naturals premium culinary oils are sold to Hawaii’s chefs and the used cooking oil is later recycled to produce a 100% renewable fuel for a cleaner, greener Hawaii.
 - Kuleana® natural cosmetic ingredients and beauty products includes Hawaiian Macadamia oil made from macadamia nuts from Hawaii Island processors and other locally grown ingredients. Now offering Kuleana Full-Spectrum Hemp Extract as an ingredient for beauty brands and Kuleana CBD beauty oils and massage oils for consumers. A supercritical CO2 extractor produces cosmetic-grade, full-spectrum hemp extract including CBD.
- The company 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.

www.biodiesel.com

www.maidenhawaiinaturals.com

www.kuleanacbd.com

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