TOMORROW'S ENERGY. MANUFACTURED TODAY.

VALVE CHALLENGES

- Handling fluids like vegetable oil.
- Corrosion resistance due to vegetable oil contains free fatty acids.
- Catalyst concerns due to feedstock contaminants.

LADISH SOLUTIONS

- Proper selection of materials
- Our engineers are application specialists ready to help with new biofuel projects and biofuel plant conversions and expansions.

API 624

API 641

ISO-15848

TA-LUFT

LOW EMISSIONS

ARE A BASIS, NOT AN AFTERTHOUGHT

SUSTAINABLE SOLUTIONS, FOR A CLEANER FUTURE

REDUCTION OF **GREENHOUSE GAS** EMISSIONS

LESS POLLUTION WHICH IMPROVES AIR QUALITY

Contact us for your biorefinery needs!

281.880.8560

sales@ladishvalves.com

7603 Bluff Point Dr.
Houston, TX 77086

ladishvalves.com

LADISH VALVES FOR RENEWABLE FUELS

Renewable fuels are an important source of energy due to their sustainability, low contributions to the carbon cycle, and reduced greenhouse gases. Ladish is uniquely positioned to manufacture valves for renewable energy including **biofuels**. Biofuels are made from biomass which is derived from waste products such as used cooking oils, fats, greases, and soybean oil. The most common types of biofuels used today are **ethanol, biodiesel & renewable diesel.**

ETHANOL

- Made from feedstocks such as corn, barley, sugarcane and trees
- Fermentation is the most common method for fuel ethanol production
- Used as a blending agent with gasoline to increase octane & cut down emissions

BIODIESEL

- Made from any feedstock containing free fatty acids; soybean oil, grease and fats
- Cleaner alternative to petroleum based diesel
- Blended with petroleum diesel to fuel diesel engines

RENEWABLE DIESEL

- Made from waste products such as animal fats, grease and cooking oils
- Drop-in substitute for petroleum diesel engines
- Requires no modifications to pipelines

EVERYDAY APPLICATIONS

POWER / HEAT

RAIL TRANSPORTATION

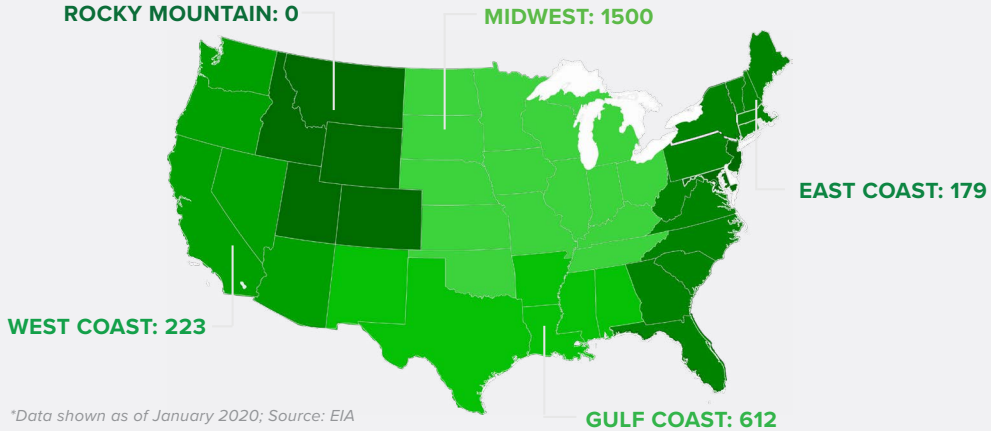
MARINE FUELS

DIESEL FUEL

SUSTAINABLE AVIATION FUEL

REGIONAL BIODIESEL PRODUCTION

CAPACITY SHOWN IN MILLION GALLONS PER YEAR AS OF JANUARY 2020



*Data shown as of January 2020; Source: EIA

SALES@LADISHVALVES.COM