#1 in North America and Growing Internationally

REG Performance in 2018

- 649 Million gallons of fuel sold\(^1\)
- $2.4B Revenue
- 10.5 Billion miles driven
- 4.3M CO2 Reduction

Note: 1. Includes all bio-mass based diesel and petroleum gallons sold: domestic, international and third party gallons
Source: REG Analysis
REG Distribution Footprint

Seattle, WA
Tacoma, WA
Portland, OR

Redding, CA
Stockton, CA
Sacramento, CA
Fremont, CA

South Gate, CA
Long Beach, CA

Bakersfield, CA

Rancho Dominguez, CA

Caddo Mills, TX

Beaumont, TX

Hondo, TX

Pasadena, TX

REG Houston, TX

REG Clewos, NM

Alexandria, MN
Roseville, MN

Mankato, MN
Fargo, ND
Grand Forks, ND

Des Moines, IA
Mason City/Clear Lake, IA

Pleasant Hill, IA
St. Louis, MO

REG Emporia, KS
Ottumwa, IA

REG Emporia, KS

Fort Worth, TX
Dallas, TX
New Boston, TX

REG New Boston, TX
REG Geismar, LA
REG St. Rose, LA

REG Geismar, LA
REG St. Rose, LA

REG Houston, TX

Dayton, IL
REG Dayton, IL

Des Plaines, IL

Summit, IL
Bedford Park, IL
Lockport, IL

Fairfax, VA
Newark, NJ
Sewaren, NJ

Albany, NY
Portland, ME
Portsmouth, NH
Everett, MA
Braintree, MA
Providence, RI
New Haven, CT

REG Distribution Footprint

TERMINAL
POSITIONS

BIOREFINERIES
Operational Facilities

BIOREFINERIES
Growth Opportunities
DeForest, WI | Joined REG in 2016 | 20 mgy Nameplate Capacity
Biodiesel Production with Multi-Feedstock Capabilities

REG MADISON PURCHASED:
67.5 MILLION
POUNDS of FEEDSTOCK FROM WISCONSIN VENDORS resulting in $18.8 MILLION of added value to the state’s economy

NOTE: All data represents June 2016 through June 2017 production at REG Madison. Last updated: March 2018
A History of Success

2007
Facility built by Sanimax and co-located with a Sanimax grease facility.

2016
REG acquired the facility and continued production and operations.

2018
REG Madison, along with the entire company, will continue to grow into the future.

5,856 TRUCKS & 158 RAILCARS THROUGH THIS PLANT IN A YEAR

IN A YEAR
REG MADISON REDUCED:
150,702 METRIC TONS OF CO2 = 32,270 PASSENGER VEHICLES
Biodiesel

Transportation & Innovation Expo
U.S Retailers Selling Biodiesel Blends of B10 to B20
Quality for the Future

• ASTM D6751 provides biodiesel specification
  – 20 tests (currently)
• Certificate of Analysis
  – Should show complete list of specifications and be available on every lot of biodiesel
• BQ-9000 Accreditation
  – Rigorous, externally-monitored quality program
Efficiency for the Future

• Studies show no statistically significant difference between the fuel efficiency of B0 and B20
• Theoretical energy content of B20 is 1.3% less than petrodiesel
  – B20 performs better than theory suggests
  – Improved combustion and better lubricity
Benefits of Biodiesel

- Blends with petrodiesel in any percentage
- Once it’s blended it doesn’t separate back out
- Higher cetane (50 compared to 44)
- Smoother, more complete burn
- Higher lubricity
- High flash point makes it safer
- Zero aromatics reduces toxicity and burns cleaner
- Virtually zero sulfur
Biomass-based Diesel Emissions

Total Hydrocarbons (THC) | Particulate Matter (PM) | Carbon Monoxide (CO)

Note: All emissions data taken from 2006 Cummins ISM 370 on Federal Test Procedure driving cycle, as reported in Durbin, Thomas D., et al. "CARB Assessment of the Emissions from the Use of Biodiesel as a Motor Vehicle Fuel in California "Biodiesel Characterization and NOx Mitigation Study"." California Air Resources Board: Sacramento, CA (2011). Comparisons with Federal ULSD were conducted based on a linear comparison with CARB ULSD data. All biodiesel data shown is taken as an average of the means of high and low cloud point biodiesel emissions results, where available.
Steps to Implementing Biodiesel in Your Fleet
Step One: Consider your comfort level with blending

- Do it yourself – invest in dedicated biodiesel tank and blend yourself
- Buy blended product off the rack or direct from producer

Step Two: Confirm the quality of your biodiesel supply

- Meet ASTM D6751 standards
- Produced by a BQ-9000 accredited producer
- If purchasing fuel direct, always request a CoA
- Work with a producer that will provide technical support
Step Three: Determine your blend level
  - If you’re hesitant, start at a B2 and step up to B20 over time
  - If starting in winter, consider starting at a lower blend
  - If emission quality is a key driver, start at a higher blend

Step Four: Educate your employees
  - Make sure everyone understands the product and what to expect
  - Educate people about the sustainability benefits of biodiesel

Step Five: Reap the benefits
  - Reduced emissions
  - Increase lubricity and engine performance
  - Diverse fuel line-up
  - Positive impact for employees, customers and communities
Questions

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Biodiesel In The Winter

• Gelling an issue for all diesel fuel
• Use quality biodiesel
• Treat with same additives as B0 diesel
• Biodiesel successfully used in the winter
  – Iowa DOT
  – Minnesota biodiesel mandate
  – Yellowstone National Park
Biodiesel In The Tank

• Clean, inspect and repair your tanks before filling with biodiesel blends
• Keep tanks water-free
  – Water in a storage tank can happen with any fuel
  – Biodiesel does not attract water into the tank
• Monitor hoses, fills, vents and gaskets for leaks