



*Pacific Gas and
Electric Company™*

Using Biodiesel to Meet Corporate Sustainability Goals

Odoardo Lopez-Yanes
PG&E Fleet Engineer



*Pacific Gas and
Electric Company™*

- **PG&E's Corporate Sustainability Mission**
- **Snapshot of PG&E**
- **Snapshot of PG&E's Fleet**
- **Biodiesel Fuel Purchasing, Storage and Quality Control Process**



“At PG&E we believe that the challenge of global warming is among the greatest challenges mankind has ever faced; therefore, it’s important that we take action.”

Peter Darbee, Chairman, CEO and President of PG&E Corp.

Corporations have the responsibility to undertake sustainability practices that help preserve the environment.

PG&E works with our customers, automakers, local governments, and others to deploy cleaner, more efficient motor vehicle technologies, that rely on alternative fuel sources and reduce our dependence on foreign oil.

By setting “alternative fuel” usage goals for their fleets, corporations are provided with a clear, effective strategy for preserving the environment

Biodiesel represents 25% of PG&E’s alternative fuel usage strategy, and we are looking to grow that number.

- **Founded in 1905 and is headquartered in San Francisco, CA**
- **Investor owned utility, provider of electricity and natural gas, with 5.1 million electric metered customers and 20,000 employees**
- **Service territory extends from Bakersfield, CA in the South to the Oregon border in the North. And from the Pacific Ocean in the West to the Nevada border in the East**



- **12,300 owned vehicles and equipment**
- **8,400 trucks of which 2,300 are light duty**
- **63 garages and 380 employees**
- **With over 1,200 vehicles, PG&E has one of the largest natural gas vehicle (NGV) fleet in the country. Natural gas has the second lowest emissions levels of all alternative fuels (electric being the lowest). Natural gas is a domestic fuel, 98% of it comes from North America.**
- **Biodiesel fuel utilization in 2007: 179,000 gals Biodiesel**



Process Overview

- Biodiesel Fuel Purchasing
 - OPIS/Spot Market versus Cost Plus Contract
 - Qualify Producers
 - Qualify Distributors
 - Contractual Requirements (Quarantine Deliveries, BQSR)
- Biodiesel Fuel Storage
 - Tank Audit/Characterization
 - Monitoring
 - Documentation
- Ongoing Quality Control