



Service and Product Provider Partner
Southwestern Petroleum Corporation
(SWEPCO)

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Customer

City of Lake Alfred, Florida.

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Southwestern Petroleum Corporation helped the City of Lake Alfred, Florida to reduce energy use and meet conservation goals with SWEPCO's high performance lubricants.

Project Scope

SWEPCO supported the City of Lake Alfred, Florida in meeting its energy conservation goals by conducting energy audits on wastewater treatment plant industrial rotating equipment and recommending strategies to reduce equipment inefficiency.

Project Summary

SWEPCO analyzed three problematic blowers, which were over-heating and tripping circuits due to amperage overload. The three large Dresser rotary blowers are run constantly throughout the year and are critical equipment in the water reclamation process for the city. SWEPCO evaluated the system and found that electrical consumption could be reduced by changing the original equipment manufacturer gear oil in two blowers to SWEPCO's high performance gear oil, which reduces the friction, wear, and operating temperatures on the gears so that the machinery operates more efficiently and uses less energy. SWEPCO continues to monitor and track energy performance for the City's wastewater plant blowers through their internal tracking system.

- **Energy Savings**

Through SWEPCO's assistance in tracking energy performance, the City of Lake Alfred reduced their wastewater treatment plant blower energy costs by 21%, a savings of \$4,043.

- **Communication and Education**

The City of Lake Alfred wastewater treatment plant is one of the first wastewater treatment facilities to sign on for the ENERGY STAR Challenge to improve energy efficiency by 10 percent or more. SWEPCO held a meeting with the City of Lake Alfred and introduced the ENERGY STAR program to staff, defined the ENERGY STAR commitment and sent out a press release.

- **Other Benefits**

In addition to significant energy reductions, SWEPCO 201 Multi-Purpose Gear Lube reduces waste oil, promotes longer equipment and part life, and requires less maintenance.

Monitoring & Verifying Energy Savings

SWEPCO performed an on-site energy audit to verify the energy savings. SWEPCO continues to monitor amperage readings and ensures that the gear oil is working effectively.

Distinguishing Value

The City of Lake Alfred not only saved energy, but is extremely satisfied with the professionalism and service that SWEPCO provides. The Deputy City Clerk said that "through this achievement, we have and will continue to demonstrate our commitment to environmental stewardship while lowering energy costs." The City of Lake Alfred recommends the ENERGY STAR program to any city, municipality or company that is concerned with lowering their energy costs and wants to achieve greater energy efficiency.

