City of Concord

Contact: Daniel Nuckolls, Fleet Director

- The City of Concord has over 800 vehicles in its fleet and has been right-sizing its fleet for 12 years to ensure a newer, more efficient fleet.
- Replaced their transit buses with diesel hybrids buses.
- Close to 50% of all the fuel they use is B20 biodiesel.
- Approximately 5% of the city’s light-duty fleet consists of hybrid-electric vehicles.
- The city has installed 6 electric vehicle charging stations for both city use and public use.
- The City of Concord (and Daniel Nuckolls specifically) has been named one of the top 100 Best Fleets in the U.S. multiple times by the national 100 Best Fleets program.

EPES, Transport Inc.

Contact: David Leik, Vice President of Maintenance

- EPES is a Greensboro NC based truckload van carrier that serves the Eastern U.S. with over 1100 long-haul tractor-trailers.
- They are currently conducting a pilot program with both liquefied natural gas (LNG) and compressed natural gas (CNG) trucks.
- EPES is dedicated to improving efficiency and is successful at continually improving fuel economy, through a variety of techniques, including monitoring tire pressure, mandating speed limits, purchasing trucks that are more aerodynamic, and using telematics.
Fayetteville Public Works Commission

Contact: Tony Eakins, Fleet Management Manager

- Fayetteville Public Works Commission (FPWC) is a public utility that oversees both the fleet for the utility and the City of Fayetteville. FPWC has over 1000 vehicles in their fleet.
- FPWC has a written smart fleet plan that calls for replacing gasoline vehicles with more fuel-efficient vehicles and replacing diesel vehicles with lower emitting diesel vehicles. This plan is part of the utility’s larger conservation efforts.
- The utility has been right-sizing their fleet to improve their overall fuel efficiency.
- FPWC has 15 hybrid vehicles (12 gasoline, 3 diesel).
- The utility uses telematics software to reduce idling and conserve fuel use. In 2015, FPWC received a Clean Fuel Advanced Technology award for four electric vehicle charging stations to be located in publicly accessible locations, such as county parks.

Town of Cary

Contact: Juan Vega, Fleet Division Manager

- The Town of Cary has close to 800 vehicles. A multi-departmental team oversees the fleet and its sustainability goals, which are tied to a strategic energy action plan approved by the Town Council.
- The town purchasing policies promote the purchase of fuel-efficient vehicles based on full life-cycle costs.
- The majority of the diesel used by the town consists of B20 biodiesel.
- 52 of the town’s vehicles use telematics. These telematics systems have helped reduce idling and keep speeding down.
- The Town of Cary has been recognized several times by the national organization 100 Best Fleets.
Contact: Ricky Capps, Fleet Mechanic Supervisor

- More than 70% of the fuel used in 2014 was alternative fuels.
- Town council passed a Green Fleets policy in 2005. The Green Fleets Committee continues to review progress on fleet sustainability every year.
- Chapel Hill started using GPS and telematics software in 2015 in their solid waste program and construction dump trucks.
- Ricky Capps is an ASE and EVT Master Certified Technician, with certifications in Hybrid/Electric and CNG.
- The Town’s Fleet Manager, Barry Lowry, was recently awarded the American Public Works Association, National Professional Manager of the Year in Public Fleet.

Contact: Chris Facente, Automotive Supervisor

- UNC Charlotte (UNCC) is a public university with over 28,000 students and 3000 staff. The university fleet includes close to 500 vehicles.
- UNCC has replaced many of their pickup trucks with neighborhood electric vehicles. Overall, the fleet currently operates 135 electric vehicles.
- 100% of the diesel fuel used is B20, a blend of 20% biodiesel with conventional diesel.
- All of the motor pool vehicles are flex-fuel vehicles, which are filled with E85 at the beginning of each trip.
- The university has taken other steps to reduce fuel use, such as dividing the campus into maintenance zones to reduce vehicle miles traveled. They’ve also took the initiative to educate drivers on eco-driving techniques.
- This year, UNC Charlotte was named #24 in Green Fleets among government fleets by the national 100 Best Fleets program.
Leaders

BuildSense

Contact: Randall Lanou, President
- Based in Durham, BuildSense is a green architecture company dedicated to designing and building sustainable, energy-efficient buildings. They have won many awards recognizing their efforts in sustainability, which has also extended to their fleet.
- Buildsense uses compressed natural gas in 7 out of 8 of their vehicles and B99 biodiesel in one diesel vehicle.

Charlotte-Mecklenburg School District Building Services Department

Contact: Dan Collins, Manager, Environmental, Health and Safety
- The Charlotte-Mecklenburg School District Building Services Department has over 230 vehicles.
- The Building Service Departments owns 10 propane powered vans and heavy duty trucks. These vehicles reduce about 14,000 kgs of CO₂ and over 1,900 kgs of criteria air pollutants each year.
- They recently conducted a right-sizing exercise on their fleet to reduce emissions and fuel use. This right-sizing ensures that the school district is using the most efficient vehicles to do the required job. The department has also been working to reduce idling through the establishment of idle reduction policies.

Elon University

Contact: Keith Dimont, Automotive Services Manager
- Elon University is a private university with over 6000 students and a fleet of over 200 vehicles.
- Elon has been using B20 biodiesel since 2006 in their transit system. They have also expanded the use of B20 to other diesel equipment as well.
- Approximately 37% of the fleet is comprised of alternative fuel vehicles.
• Elon has tracked their fuel use as part of a campus sustainability plan since 2007.

**Gaston County**

**Contact: Michael Lee, Contracts and Projects Coordinator**

• Gaston County has over 500 vehicles in their fleet.
• The county uses propane in their paratransit and Sheriff’s Office vehicles.
• With 27 hybrid-electric vehicles and 31 vehicles using propane, 11% of the fleet is comprised of alternative fuel vehicles.

**Greenleaf Nursery**

**Contact: Stanley Foster, General Manager**

• Located in Edgecombe County, Greenleaf Nursery uses its fleet of 30 vehicles for running the operations of its nursery and delivering plants to wholesalers.

• With support from a Clean Fuel Advanced Technology (CFAT) grant, Greenleaf has converted 6 Ford F150 pick-up trucks to propane and is converting another 5 more. Last quarter each truck averaged about 4,000 miles on the cleaner burning fuel.

**Orange County**

**Contacts: William Russell, Fleet Supervisor and Brennan Bouma, Sustainability Coordinator**

• Orange County has implemented propane this year in 19 vehicles that serve the Sheriff’s Office, Emergency Services and Orange County Public Transit.

• Seven of the ambulances have brand-new battery pack auxiliary power units. All of Orange County’s ambulances can plug into Shoreline electrified parking spaces, which have been installed near the hospital to reduce ambulance idling.

• This past year, the county added two new fast-charge electric vehicle charging stations to supplement the 16 level two chargers the county had already installed in 2012.
Town of Apex

Contact: Michael Deaton, Environmental Programs Manager

- The Town of Apex has 240 vehicles.
- In 2015, Apex replaced three meter-reading, Ford Ranger trucks (Avg. 18 mpg), with all-electric Nissan Leafs, averaging 98 mpg.
- The town also replaced a conventional motor pool vehicle with a new plugin range-extended hybrid-electric Chevrolet Volt.
- Additionally, the town has installed two dual level two electric vehicle chargers at town hall to recharge the new EV/PHEV vehicles.

Town of Kernersville

Contact: Jenny Halsey, Operations Manager

- The Town of Kernersville has a fleet of over 50 vehicles.
- Kernersville has installed auxiliary power units (APUs) to reduce idling and create an idle reduction policy.
- The town uses GPS units to more efficiently route their solid waste trucks.

Supporters

City of Charlotte

Contact: Gerald Lopez, Fleet Management Operations Manager

- The City of Charlotte operates a fleet of over 3000 vehicles (including solid waste and fire department). The Fleet and Motorized Vehicle Asset Management policy helped them become a NC Smart Fleet by requiring the purchase of fuel-efficient vehicles. This policy led to the evaluation of vehicle purchases based on the total cost of ownership and prohibited excessive idling.
- The City of Charlotte has installed 10 electric vehicle charging stations for public use.
- The city owns 10 electric vehicles, 30 hybrid-electric vehicles and over 900 flex-fuel vehicles that use E85 (85% ethanol/15% gasoline).
City of Greensboro

Contact: Jerry Gunter, Manager, Equipment Services

- The City of Greensboro has over 1400 vehicles. In 2012, Greensboro built a compressed natural gas station, which is used to fill 5 CNG solid waste trucks.
- The police department and fire department have GPS units in their vehicles to efficiently map out routes.

City of Raleigh

Contact: Travis Brown, Vehicle Fleet Services Superintendent

- The City of Raleigh operates a fleet of over 1900 vehicles.
- The city created an Office of Sustainability in 2007. Since then, the city has tracked vehicle emissions as part of its larger sustainability efforts.
- The vast majority of the diesel used by Raleigh is B20 biodiesel.
- The city uses every type of alternative fuel, including compressed natural gas, propane, B20 biodiesel, and electric/hybrid-electric vehicles.

City of Winston-Salem

Contact: Ben Rowe, Assistant City Manager

- The City of Winston-Salem operates close to 1700 vehicles. They use telematics and auxiliary power units to help reduce idling in police vehicles.
- In other vehicles, telematics have been utilized to right-size the fleet and make the most efficient use of vehicles.
- The city owns 18 hybrid-electric vehicles, one fully electric vehicle (Nissan LEAF), and an extended range plug-in electric vehicle (Chevrolet Volt).
Davidson County

Contact: David Elliott, Fleet Manager
- Davidson County operates over 280 vehicles.
- The county uses six propane vehicles, seven CNG vehicles, and five hybrid-electric vehicles.

Forsyth County

Contact: Kevin Rogers, Fleet Manager
- Forsyth County has 580 vehicles.
- Forsyth County has used motor pool software to more accurately track the utilization of their fleet. They also conducted a one-time right-sizing of their fleet, which has led to approximately $800,000 in savings.

NC Department of Administration

Contact: Kathryn Johnston, Deputy Secretary of Operations
- The North Carolina Department of Administration (NC DOA) Motor Pool includes over 7000 vehicles.
- By lending vehicles to state employees, the state motor pool helps improve the efficiency of state agencies with regards to the overall number of vehicles needed.
- For well over a decade, the North Carolina Department of Administration has been on the forefront of the use of E85 ethanol. NC DOA used over 220,000 gallons of E85 (85% ethanol) last year in the motor pool. The state motor pool also includes 52 hybrid-electric vehicles.

Piedmont Natural Gas

Contact: Joe O’Neill, CNG Account Representative, Piedmont Natural Gas
- Piedmont Natural Gas distributes natural gas to residential, industrial and commercial customers in the Carolinas and Tennessee. They have built and currently operate 6 publicly available natural gas fueling stations in North Carolina.
• Approximately 30% of the vehicles in their fleet operate using CNG.

**Piedmont Triad Regional Council**

**Contact:** Elizabeth Jernigan, Regional Planner

- Piedmont Triad Regional Council (PTRC) has 26 vehicles, 11% of which are hybrid-electric vehicles.
- PTRC is working to reduce the average MPG of its fleet by purchasing more fuel-efficient vehicles.
- They have also installed electric vehicle charging stations at their Kernersville office.

**The Produce Box**

**Contact:** Jake Rabon, Logistics & Operations Manager

- The Produce Box is a brand new business in Raleigh that began delivering farm fresh produce directly to customers at their homes this spring.
- They have converted 6 of their 18 vehicles to operate using propane.

**Town of Knightdale Police Department**

**Contact:** Brent Quick, Purchasing Agent

- Uses propane in 8 of their police vehicles (23% of their fleet)