



RALEIGH

LEADING THE CHARGE.
Electric Vehicles in Raleigh.



Raleigh is Ready.

The City of Raleigh, in partnership with Progress Energy and Advanced Energy, was named one of the first three Project Get Ready locations in the nation. Developed by the Rocky Mountain Institute, Project Get Ready is designed to prepare cities—and ultimately the nation—for the transition to electric vehicles. Raleigh was selected in part because it has been working to accelerate the adoption of electric vehicles and is willing to share lessons learned with other communities.

“The Triangle area is proud to be the leader on the East Coast in preparing for the plug-in electric and hybrid-electric revolution.”

Charles Meeker, Mayor
City of Raleigh



DRIVING INNOVATION

North Carolina State University is a recognized leader in the field of electric transportation and other clean technologies. It directly oversees or plays a significant role in the following organizations:

Advanced Transportation Energy Center

The Advanced Transportation Energy Center (ATEC) is located on NC State's Centennial Campus and is comprised of faculty from several engineering disciplines. Funded by the State of North Carolina and industry partners including Progress Energy and Duke Energy, ATEC has three main objectives:

1. Develop fundamental and enabling technologies to allow the electric power industry to actively manage and control the large number of plug-in hybrid vehicles (PHEV) and plug-in electric vehicles (PEV) coming online in the next few years.
2. Develop battery and power electronics technologies to help the auto industry create better and more efficient PHEVs and PEVs.
3. Educate the public about the advantages of PHEVs and PEVs.

Future Renewable Electric Energy Delivery and Management (FREEDM) Systems Center

The FREEDM Systems Center, headquartered on NC State's Centennial Campus and funded by the National Science Foundation, will partner with universities, industry, and national laboratories in 28 states and nine countries to develop technology to revolutionize the nation's power grid and speed renewable electric-energy technologies into every home and business.

North Carolina Solar Center

Founded in 1981, the North Carolina Solar Center has expanded from its primary focus on solar power into all types of renewable energy. It has created teams dedicated to areas such as distributed generation, high performance buildings and clean transportation. The Solar Center is operated by NC State's College of Engineering.

Advanced Energy

Founded in 1980 as an independent non-profit corporation, Advanced Energy has established itself as a leader in the electric vehicle industry. For more than 30 years, they have been developing innovative programs, conducting cutting-edge research and analyzing real-world effectiveness for energy issues. Advanced Energy's Transportation team provides three core services: 1) technology verification and demonstration; 2) education and outreach; and, 3) consulting services related to planning and the implementation of electrified transportation.

Research Triangle Energy Consortium

The Research Triangle Energy Consortium is a collaborative effort of its four founding members: Duke University, NC State University, the University of North Carolina at Chapel Hill, and RTI International. The electrification of transportation is one of its current focus areas.

GAINING TRACTION

The Greater Raleigh area has a well-deserved reputation for embracing new technologies and bringing pioneering products to market. Local companies excel in the areas of electric motors, batteries, power generation, distribution and smart grid technologies.

Local Industry Case Studies

Advanced Vehicle Research Center

The Advanced Vehicle Research Center's commercial division has converted more hybrid vehicles into plug-in hybrid electric vehicles (PHEVs) than any other company on the east coast.

Buehler Motor

Buehler Motor pumps are found in innovative technology vehicles like the Chevrolet Volt and Opel Ampera, as well as the first completely electric vehicles in the sub-compact category, made by CODA Automotive, an environmental pioneer in the United States.

Eaton Corporation

Eaton is a Fortune 200 company with more than 2,100 employees in the Triangle. Their involvement in the EV industry ranges from hybrid technologies and charging stations to circuit protection components and power distribution. All with an overarching goal of increasing the quality and efficiency of power.

Elster Solutions

Elster Solutions provides electric utilities with innovative technologies designed to increase efficiencies and enable components in the electric supply chain to communicate with one another. A leader in smart grid technologies, Elster is revolutionizing power distribution management.

Progress Energy

Progress Energy has one of the most advanced utility electric vehicle programs in the nation. The company's test fleet includes two Ford Escape PHEVs, seven Toyota Prius PHEVs and the Southeast's first plug-in hybrid electric bucket truck. For more information on Progress Energy's PHEV initiatives, please visit progress-energy.com/environment.



SHIFTING INTO HIGH GEAR

As the nation begins the transition from internal combustion engines to electric drive vehicles, it is essential that the workforce is ready. Raleigh has an excellent track record of engaging and educating citizens of all ages, providing them with the essential skills required for an ever-changing marketplace.

SMARTT Challenge—Reaching Our Children

Founded as the EV Challenge in 1993, the SMARTT Challenge is the nation's premier alternative fuel education program for middle and high school students. SMARTT, which stands for Students Making Advancements in Renewable Transportation Technology, has enrolled more than 23,000 students since 1995 and currently exposes over 250,000 people to alternative fuel vehicles every year. Based in Raleigh, the highlight of the high school program is the design and construction of street-legal electric vehicles. More than 100 have been created since the program's inception.

Training Tomorrow's Technicians

Wake Technical Community College is in the business of training industry's next generation workforce. In addition to their renowned customized training, EV workshops—as many as four per year—are already in place, and planning is underway to develop formal curriculum to teach technicians to maintain, diagnose and repair hybrids, PHEVs and PEVs.

It's Happening Here. The electrification of transportation is underway and momentum is building quickly. Thanks to a history of investing in an innovation infrastructure, Raleigh is emerging as a center of excellence in the EV industry. Bright people, exciting research, industry leadership and a supportive public sector combine to make this region a strategic location. Great opportunities exist for those prepared to accept, nurture and advance this technology. Raleigh is ready—and leading the charge. **Are you?**





RALEIGH

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