



EV CHALLENGE FACT SHEET

WHAT: The EV Challenge is the nation's premier electric vehicle education program, providing a holistic approach to the use of alternative fuel and environmental education. The year-long comprehensive curriculum spans nearly all disciplines, including math, science, auto mechanics, physics, engineering, electronics, language arts and more. The highlight of the program is the design and construction of street-legal electric vehicles that high school students enter into a national contest called the Final Event held annually in Wake County during a two-day rally. In 2007, the Final Event will be held March 23-24. Locations are posted on our website. Middle school students design and build model solar cars that are also entered into a special competition during the Final Event.

The Challenge is the education program of the Carolina Electric Vehicle Coalition, Inc., a nonprofit organization based in Wake County that is devoted to raising awareness about the use of alternative, clean-fuel technologies.

WHO: The program has both high school and middle school components, with curricula geared to each age group. Thousands of students from 10 states (North Carolina, Virginia, West Virginia, South Carolina, Georgia, Indiana, Maryland, Nevada, Rhode Island and Florida) have participated in the program over the last decade. Schools are currently committing for the 2006-2007 school year. Attached is a list of past years' participants from North Carolina.

WHEN: The program began in 1995 as an energy education program of Carolina Power & Light Company, now Progress Energy.

SPONSORS: The program is funded by the State Energy Office of the North Carolina Department of Administration. Other major sponsors over the years have included: Progress Energy; Advanced Energy Corp and the North Carolina Department of Environment & Natural Resources.

HIGH SCHOOL PROGRAM REQUIREMENTS:

- Identify operating issues associated with conventional and alternative fuels
- Design and convert a gasoline vehicle to street-legal electric power
- Identify local community partners and sponsors
- Develop a web page and create an oral presentation
- Demonstrate diagnostic and trouble-shooting skills
- Enter electric vehicles in events across the Southeast
- Compete in range and autocross events

If you have questions or would like to learn more about getting involved, please contact Jennifer G. Whitley, Executive Director, Carolina Electric Vehicle Coalition, Inc. at 919-818-2377; evchallenge@nc.rr.com or check out our website at www.evchallenge.org



MIDDLE SCHOOL PROGRAM PARTICULARS:

- Centered around nationally recognized Junior Solar Sprint (JSS) program, sponsored by the U.S. Department of Energy
- Build and race small solar race cars
- Apply math, science, solar energy, electrical vehicle construction and creativity
- Judged on creativity, technical innovation and speed

PROGRAM STRENGTHS:

- Real-world applications of environmental and energy issues that face our world today
- Fosters teamwork among students, faculty and community
- Involves, excites and challenges students who may not have traditionally excelled in academia

PROGRAM KUDOS:

- Nationally recognized in 2003 by the U.S. Environmental Protection Agency with the Clean Air Excellence Award for outstanding commitment to preventing air pollution and improving air quality
- EV Challenge coverage and recognition in scores of local news media outlets and several national outlets including the *Wall Street Journal* and *Parade Magazine*

SELECTED METRICS:

- Number of schools participating has grown from three in 1995 to more than 45 in recent years (registration for '06-'07 is currently underway)
- Full-size electric vehicles built by high school students since program began: 72
- Number of schools participating in middle school program since program began in 2001 has grown from four to 14 in recent years (registration underway for this year)
- Students involved in the program since 1995: approximately 22,134
- Citizens exposed to alternative fuel vehicles via EV Challenge each year: more than 250,000

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**PAST NORTH CAROLINA EV CHALLENGE SCHOOL PARTICIPANTS
(REGISTRATION CURRENTLY UNDERWAY FOR 2006-2007 SCHOOL YEAR)**

Ahoskie: Hertford County HS
Angier: Harnett Central High
Apex: Lufkin Road Middle
Barco: Currituck High School
Cary: Davis Drive Middle
Conway: Northampton-East High School; Conway Middle School
Dudley: Southern Wayne
Durham: Southern Durham High School
Edenton: John Holmes High School
Garner: East Garner Middle School; Garner High School
Graham: Southern Middle School
Hampstead: Topsail High School
Henderson: Northern Vance High School
Kenly: North Johnston High School
Lincolnton: Lincoln County School of Technology
Lillington: Western Harnett High School
Lumberton: Robeson County Career Center
McLeansville: Northeast-Guilford High School
Monroe: Union County Career Center
Mooresville: Lakeshore Middle School
Morehead City: West Carteret High School
Mount Holly: East Gaston High School
Roanoke Rapids: Chaloner Middle; William R. Davie Middle; Roanoke Rapids High
Raleigh: Enloe High School; Martin Middle School; Leesville Road Middle School
Roxboro: Person County High School
Southport: South Brunswick Middle School
Sylva: Smoky Mountain High School
Wake Forest: Wake Forest-Rolesville High School
Wendell: East Wake High School
Wilmington: New Hanover High School
Winston-Salem: Winston-Salem/Forsyth Career Center

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