

Transportation Initiatives

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National Clean Cities Program

- Clean Cities advances the energy, economic, and environmental security of the United States by supporting local actions to deploy alternative fuel technologies and efficiency measures
- U.S. Department of Energy's (DOE) flagship alternativetransportation deployment initiative, sponsored by the Vehicle Technologies Office. Clean Cities has saved more than 8.5 billion gallons of petroleum since its inception in 1993
- Hosted by UCF and FSEC



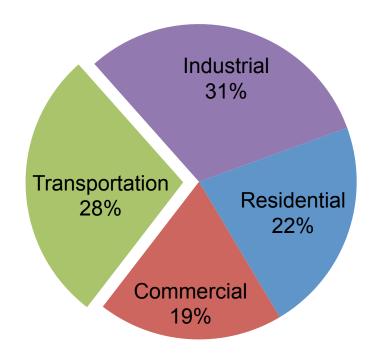
National Clean Cities Program

- Nearly 100 coalitions with 15,000 stakeholders across U.S.
- Has awarded nearly \$400 million to fund hundreds of transportation projects nationwide, which have leveraged more than \$740 million in matching funds
- With MotorWeek, has helped produce over 100 national TV segments on transportation success stories
- Biodiesel, Ethanol, Electric Drive (EVs, PHEVs, HEVs), Propane, Natural Gas, & Fuel Conservation



Why Transportation?

U.S. Energy Use by Sector





Initiatives

- Annual National Clean Cities Training Workshop
- Drive Electric Orlando
- E-School Bus Emergency Energy System
- Drive Electric Florida
- Volkswagen Mitigation Funding
- Alternative Fuel Corridors
- Alt Fuel First Responder Training
- Other Initiatives
 - LYNX Electric Paratransit
 - Orlando Greenworks and Smart Cities
 - UCF/SWAT
 - UCF/Duke Park & Plug
 - FSEC/FPL/DEF STEM Electrathon
 - iREV
 - NAFA, FLAGFA, FDOT, SunTrax, Florida AV Summit



- Annual National Clean Cities Training Workshop
 - Central Florida Clean Cities Coalition hosting the annual the workshop at the FSEC, November 6–8
 - Coalition coordinators representing nearly 100
 Clean Cities Coalitions, representatives from U.S.
 DOE and National Labs
 - Collaborate on best practices, review the latest advancements in affordable domestic transportation fuels and technologies



Central Florida Clean Cities Space Coast Reception

When: Tuesday, November 6th, 6:30-8:30 Where: <u>Exploration Tower</u>, Port Canaveral

Our coalition will host a special reception to welcome workshop attendees to the Space Coast. The Central Florida Clean Cities Coalition is independently hosting the event with support from our stakeholders, and Port Canaveral is sponsoring the event location. Heavy hors d'oeuvres will be served and a cash bar is planned.

Exploration Tower has been reserved for the exclusive use of our guests, who will have full access to all seven stories of the tower. Transportation between the host hotels in Cocoa Beach and Exploration tower will be provided from 6:00 PM until 9:00 PM.



There is no cost for this event, but registration is required. Please register here.

















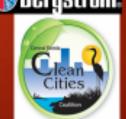
















Key Project Partners

- U.S. Dept. of Energy (\$400K Award)
- Florida Office of Energy

















Going to Orlando? RENT AN EV!



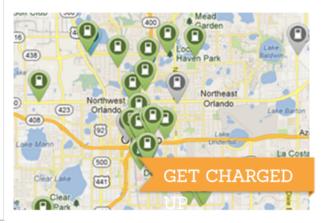


Approach

- Theme Park and Hotel Incentives
- Competitive Price for Volt Rental
- National Marketing Campaign
- Driver Training
- Metrics for Success

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Find a Charging Station







Impact

- 1,500+ rentals in 3 years
- 420,000+ miles driven
- Positive EV Rental Experiences
- Increased Consumer EV Awareness
- Successful Partnerships





- E-School Bus Emergency Energy System
 - Utilized at existing SunSmart School Emergency Shelters
 - Use E-Bus to provide more and longer duration power than existing battery storage
 - Develop interfaces and equipment
 - Develop resource management protocols for emergency planning and deployment
 - Partners: FDACS OOE, CFCCC, NREL, FMEA,
 FDEM and others



- E-School Bus Emergency Energy System
 - SunSmart Schools (118 PV systems in 46 counties)







Drive Electric Florida



- Promote electric transportation and infrastructure
- Focused on legislative initiatives
- Deeply involved in Volkswagen funding
- CFCCC are board members
- Broad spectrum of stakeholders



















































- Volkswagen Settlement—Florida Mitigation Fund
 - Florida Department of Environmental Protection has lead on developing \$167 million plan
 - Draft plan expected at the end of October, followed by public comment period
 - Submit plan to federal Trustee by year's end, funding available 1st quarter of 2019*
 - Plans are being approved on their merit as long as they adhere to guidelines
 - Structure of plan is not known and can be changed if need arises



Alternative Fuel Corridors

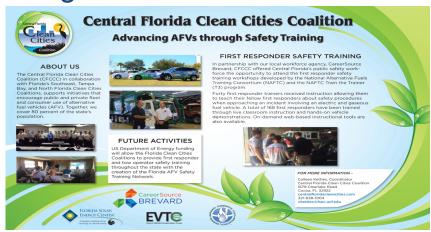




- Establishes a national network of alternative fueling and charging infrastructure along the national highway system
- The Central Florida Coalition is working with the State, multi-state Clean Cities Coalitions, the Federal Highway Administration, Drive Electric Florida and alternative fuel providers on a designation submission
- Designation submission will include all of Florida's Interstates and the Turnpike.



- Alternative Fuel 1st Responder Training
 - Provides alternative fuel vehicle training for first responders and tow and salvage operators
 - Includes Train the Trainer for public safety instructors
 - Central Florida Coalition led imitative that includes collaboration with other Florida Coalitions
 - Conducted six workshops with other Coalitions and the State Fire College in Ocala





- Other Initiatives
 - Working with LYNX on EV paratransit
 - Participate with City of Orlando on Greenworks and Smart Cities
 - Member of UCF's Sustainability Working Advisory Team (SWAT Transportation)
 - UCF/Duke Energy Park & Plug EV charging
 - FSEC/FPL/DEF Electrathon STEM program
 - Initiative for Resiliency in Energy through Vehicles (iREV) Florida Office of Energy and NASEO
 - Work with NAFA, FLAGFA, FDOT, SunTrax, NASA, Port Canaveral and Florida AV Summit