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Background

- Partners
- Education
 - Internal
 - External
- Permitting Procedures
- Future Educational Efforts
- Infrastructure
- Partners

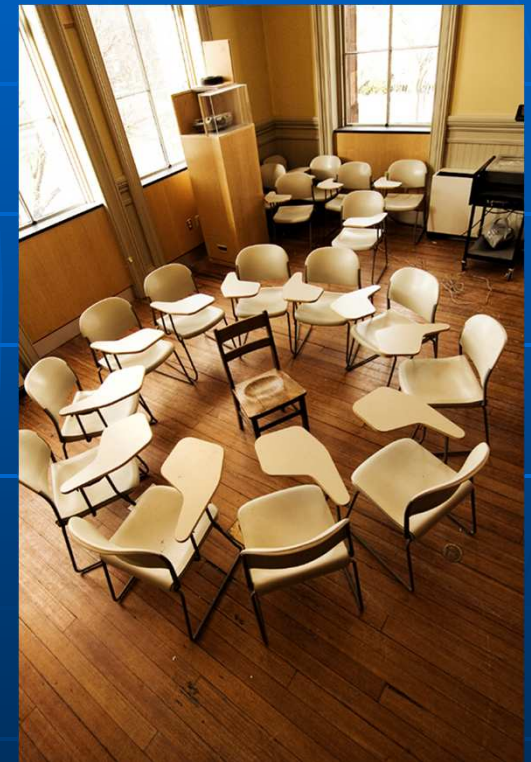


Partners



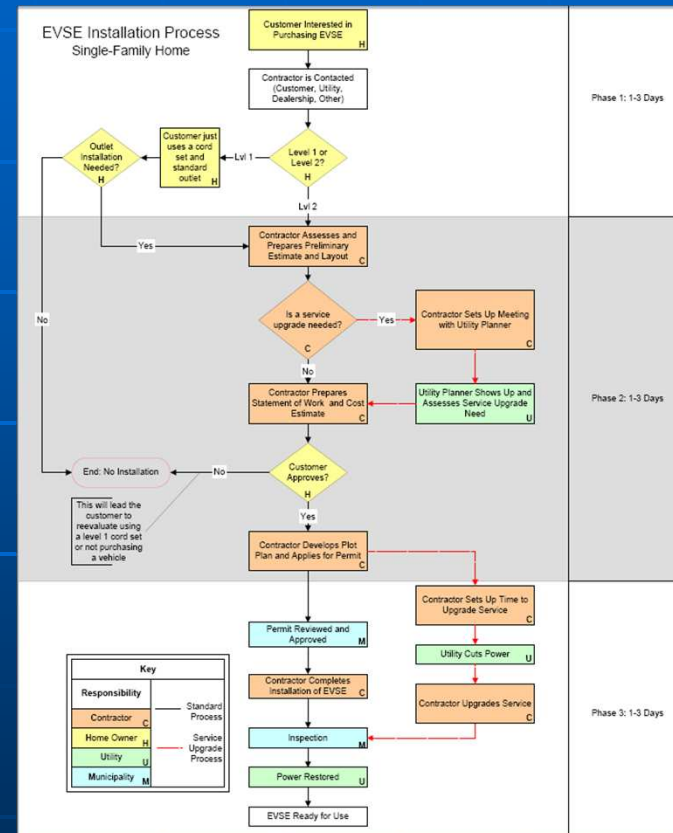
Installation Education & Awareness Efforts

- City of Raleigh Electrical Inspectors
- Greater Wake County Electrical Contractors Association
- Wake County Building Officials Association – Electrical Code Work Shop



Installation Flow Charts

- Residential
- Multi-Family
 - Apartments
 - Condominiums
- Office/Institutional
- Other Public Places



COR Permit Application Process Guidelines for EVSE Installation



Inspections Department

City of Raleigh Permit Application Process for Electrical Vehicle Service Equipment (EVSE) Installation: Residential and Commercial.

If you own an *electric car*, where will you charge it? At home, at the mall, at the office or at your favorite restaurant? To ensure a path for the emerging technology and enable the installation of *Electric Vehicle Service Equipment (EVSE)* in the City of Raleigh, the City of Raleigh's Office of Sustainability and the Inspections Departments would like to provide you with some tips to ensure your charging station is installed with minimal effort.

Vehicles with internal charging units that plug into existing 120 volt receptacles do not require modification to your electrical system. The installation of a charging station directly wired to the electrical system *will require* a permit. Single unit installations will be processed through the stand alone permit process. Multiple unit installations will be processed through the Commercial Review process and will require additional plans and documentation. The following information is to help ease the permitting process.

Information required for the Permit Application:

- Proposed Work ("*Install electric vehicle service equipment.*")
- Project Address (street #, PO Box NOT ALLOWED)
Note: each charging station (unless located inside a structure or attached to a structure) needs an independent address. Contact the Planning Department prior to applying for a permit to obtain the appropriate address.
- Plot plan (showing location & proposed work/identify station or stations)
- Contractor Information
 - Licensed Contractor – needs
 - [City of Raleigh Business License](#)
 - [Contractor License #](#)
 - Homeowner (listed as contractor) – needs
 - [Contractor License Exemption Form](#)

Residential EVSE Installation (Single Unit Only) The installation of a residential **single unit EVSE** will be issued as a stand alone electrical permit. This is to help ease the permit process. The homeowner can opt to install the station or have an

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electrical contractor to install it. If the homeowner is listed as the contractor, then a **Contractor License Exemption Form** must be filled out.

Commercial EVSE Installation

Licensed electrical contractors are required for commercial installations. The installation of a commercial **single unit EVSE** may be issued as a stand alone electrical permit. However, the installation of Multi-Unit EVSE will be issued through the Commercial Review process. Units installed on the right of way will require an encroachment agreement from the Public Works Department.

Additional Information for Commercial Multi-Unit EVSE Installation:

- Proposed Work ("*Install multiple-unit electric vehicle service equipment.*")
- Engineer Design of *Multiple* System (Information required)
 - Manufacturer data sheet
 - Third party listing
 - # of units to be installed
 - Load calculation with details back to the power source
- Americans with Disabilities Act must be considered in all design submissions

Steps to obtaining a permit:

- Fill out all the required information on the permit application
- Fees are due when the permit is issued
- Submit the application

Common Permit Application Oversight

- Address problems (must match)
- Incomplete application
- Contractor data incomplete
- Total cost not included or incorrect
- No signature
- Lot needs recombination
- Plot plan not sized to scale
- No proof of Workman's Compensation
- Need City of Raleigh [Business License](#)

Contact information or questions:

- ⇒ Inspections Litchford Office: (919) 713-4200
- ⇒ Inspections Department (One Exchange Plaza): (919) 516-2495
- ⇒ Public Works Department: (919) 516-2559
- ⇒ Planning Department: (919) 516-2626

Or visit raleighnc.gov -- Click on *Departments*, migrate down and click on *Inspections*

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Video: How to Install a Charging Station

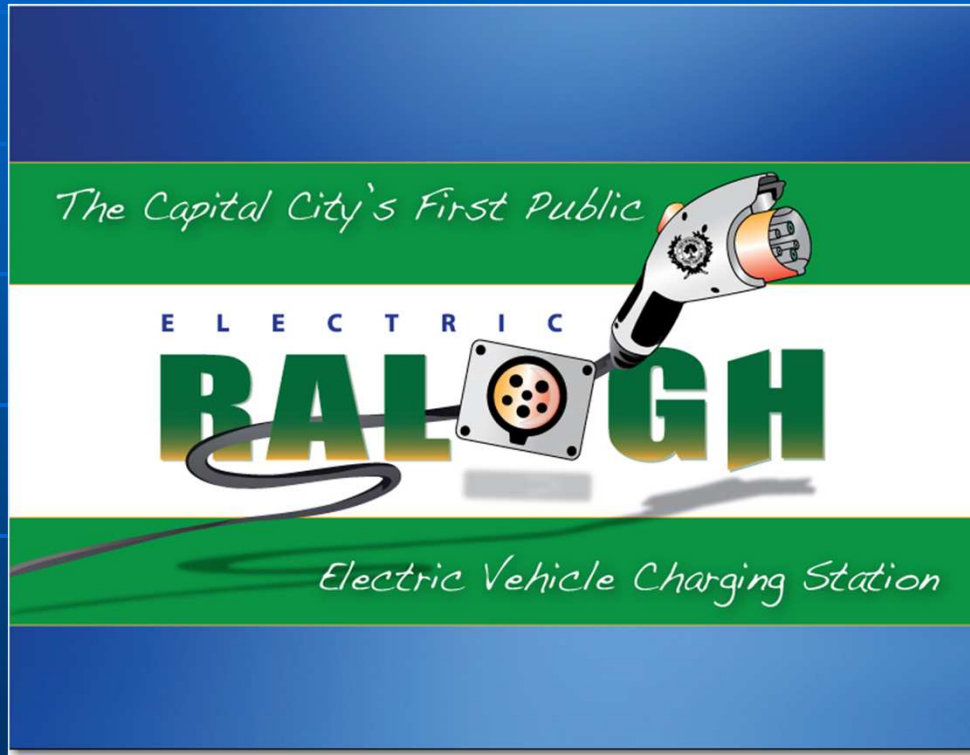


www.RaleighNC.gov

Search: Home Improvements



Getting Ready Infrastructure



November 23, 2010

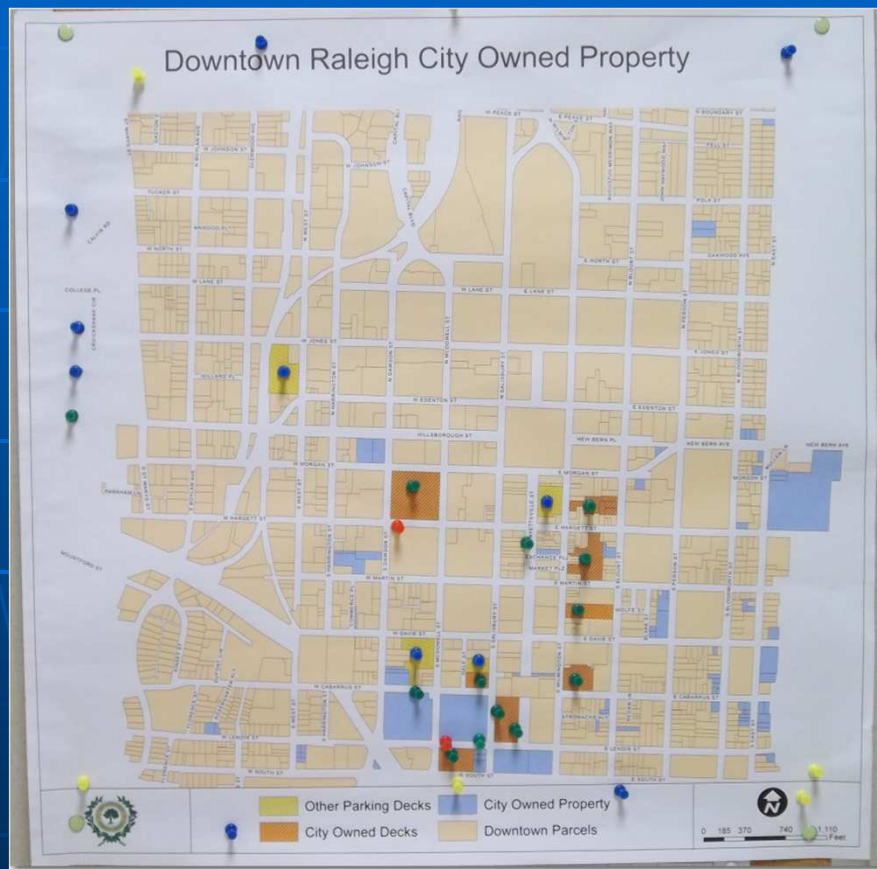


Raleigh Convention Center

City Hall



Site Selection for Raleigh's Future Electric Vehicle Charging Stations



Site Criteria

- Visibility/Accessibility/Convenience
- Proximity to Electrical Utility
- Potential Hazards
- Cable Management
- Signage
- Cost Efficient

City Properties Include:

- Office buildings
- Parking decks
- Parks
- Fire
- Police
- Service yards



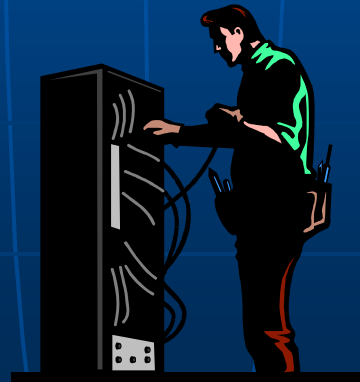
- GOAL:
 - 20-25 charging stations by July 2011

- National EPRI Conference
 - Raleigh Convention Center
 - July 17-21, 2011

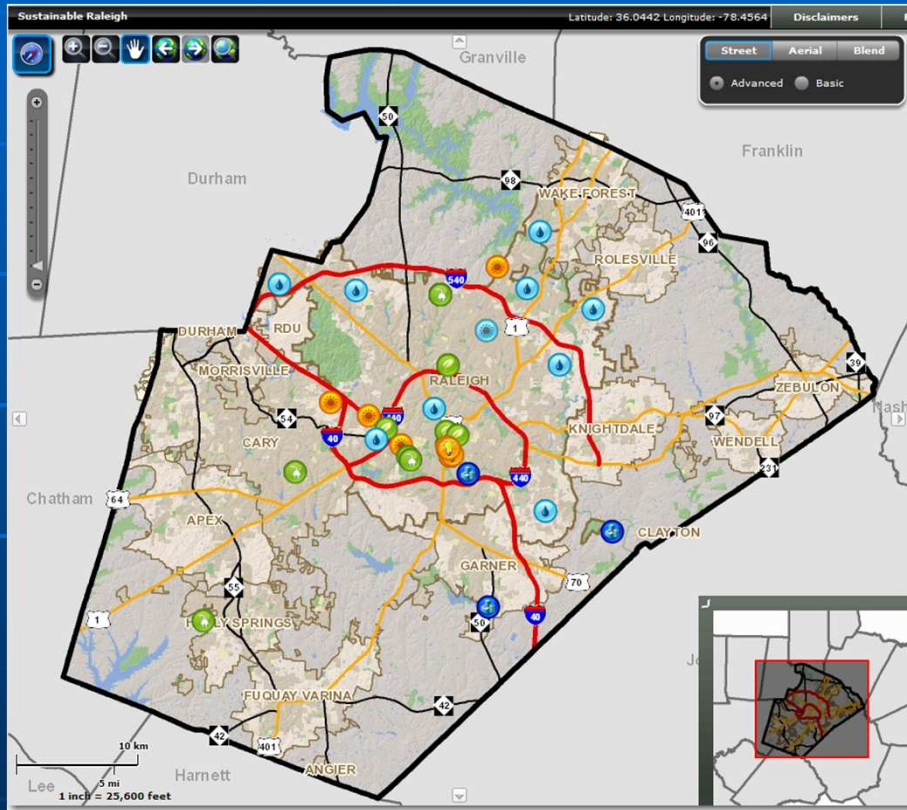


Future Educational/Certification Programs (Wake Technical College)

- First Responder Training for EV accidents
- EVSE Installer Certification Program
- EV Mechanic Certification Program



Sustainable Raleigh Mapping



Sustainable

SUSTAINABLE
Raleigh

Legend

	Electronic Vehicle Charging Station		Rainwater Harvesting
	Green Roofs		Solar Water Heaters
	LED Projects		Solar Photovoltaic
	LEED Certified Buildings		



Partners

