



Plug-In Electric Vehicles

Charging Station Installation Review

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About Advanced Energy

- An independent, non-profit organization established in 1980, headquartered in Raleigh, NC
- Mission: Create economic, environmental and societal benefits through innovative and market-based approaches to energy issues
- Provide **energy efficiency solutions** through **consulting, testing and training** for government, commercial and industrial markets, electric motors and drives, **plug-in transportation** and applied building science
- **Plug-in Transportation**
 - Help all members of a community understand, plan-for and implement **electrified transportation initiatives**





Driving the Future of Transportation

Understand Electric Transportation

- Public Outreach
- Customized Training
- Equipment Evaluation
- Vehicle Monitoring



Plan For Electric Transportation

- Community Planning
- Corporate Campus Planning
- Applied Research
- PEV Workforce Training
- Stakeholder Training and Outreach

Implement Electric Transportation

- Codes and Standards
- Permitting, Zoning and Compliance
- Incentives, Policies and Drivers
- Charging Stations (EVSE) Installation
- Grid and Electrical Load Management





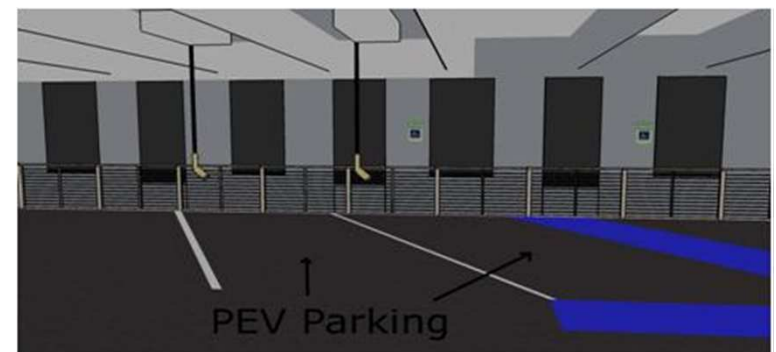
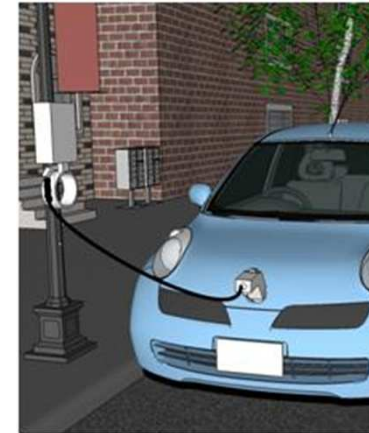
Installation Case Study



1919 Charging Station

Includes a review of:

- Site and parking space selection
- Power requirements and availability
- Walkways and cord management
- Charging station selection
- Americans with Disabilities Act (ADA) considerations
- Area lighting





Public Installation





Installation Review

- ✓ Site & parking space selection
- ✓ Power requirements & availability
- ✓ Walkways & cord management
- ✓ Charging station selection
- ✓ ADA considerations
- ✓ Area lighting





Key Lesson Learned

Lack of knowledge and understanding:

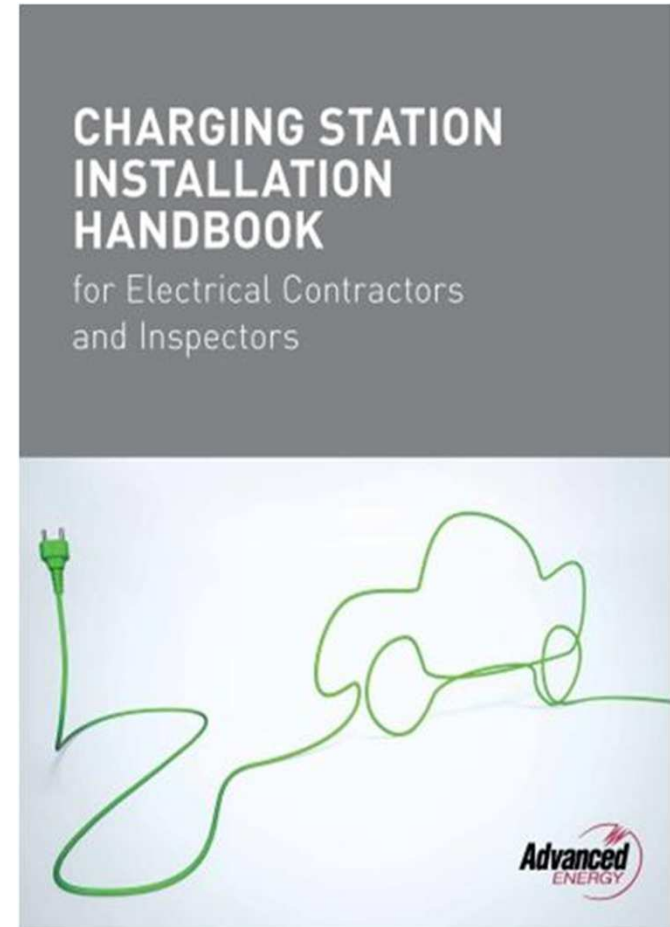
- Selection, installation and inspection difficult and time consuming
- Increases the likelihood of
 - Costly errors
 - Missteps and
 - Potential liabilities



Ramp Up Your Knowledge

Charging Station Installation Handbook v1.0

- Infrastructure Overview & Requirements
- Installation Locations (residential, workplace, public, etc.)
- Surveying Charging Station Locations and Site Assessments
- Applicable Codes and Standards
- Preparation, Installation and Inspection
- Step-by-step check lists



Thank You!

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