



Duke Energy and Plug-in Electric Vehicles

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Duke Energy Support Activities

Goals

- Provide safe, reliable, affordable and increasingly clean electricity to power the movement of people and goods
- Advance the infrastructure and technology to facilitate transportation electrification
- Support our customers as the new fuel provider

Focus Areas

Utility Readiness



Customer Support



Fleet Integration



Education, Outreach & Collaboration



Duke Energy is a National Leader in Fleet Vehicle Electrification



Value Proposition of Fleet Electrification

- Significantly reduced fuel and maintenance costs
- Improved working environment (less noise, vibration, exhaust, etc.)
- Improved worksite functionality (exportable power, no idling)
- Reduced environmental impact



Current Fleet Status

- 57 plug-in electric vehicles
- 28 Chevy Volts, 4 Nissan LEAFs, 2 Ford Fusion Energi, 1 Tesla, 1 THiNK
- 13 Odyne class 6-8 PHEV trucks (tankers, step vans, bucket trucks)
- 3 VIA Chevy Express PHEV passenger vans
- 5 VIA Silverado PHEV pick up trucks (42 more pending)
- Over 400,000 electric miles and counting!



Industry Support and Commitment

- DE a member of the Edison Electric Institute (EEI) Utility Fleet Working Group
- Fleet Electrification Roadmap released in June 2014
- DE joined with other utilities to pledge 5% fleet capital spend on electrification



- VIA Series PHEV system w/ 30-40 m EV range
 - 47 VIA Silverado Pick-Up
 - 3 VIA Express Vans



- 13 Utility Application Trucks (Class 6-8)
- Bucket trucks, step vans, fueling tankers
- Odyne parallel PHEV system providing 3 hours on-site electric operation or 10 miles electric

Duke Energy Workplace Charging

- Duke Energy founding pledge member in the DOE workplace charging initiative
- ~200 charging points across 40+ facilities
- Initial focus to support fleet vehicles; however, employees also able to utilize if not reserved
- Completed employee survey, posted policy, and assessing new deployments and test cases



Questions?