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## Electric Drive Vehicles Workshop



April 5-6, 2011

9:00 am – 5:00 pm

Bethesda North Marriott

5701 Marinelli Road

Bethesda, MD 20852

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### Electric Drive Vehicles Workshop Overview

On behalf of the U.S. Department of Energy (DOE) and the Idaho National Laboratory, the American National Standards Institute (ANSI) convened a standards needs assessment workshop on the codes and standards needed to facilitate the successful introduction, and wide-spread acceptance and deployment of light-, medium-, and heavy-duty on-road electric drive vehicles (EDVs). These are vehicles that must be connected to the electric grid for recharging of their propulsion energy storage systems, which in most cases will be batteries.

The workshop considered current and future U.S. domestic, regional, and international standards, codes, conformity assessment activities, and education and training initiatives. The workshop provided a neutral environment where all interested stakeholders could engage in discussions to identify gaps in coverage and explore opportunities for collaboration and coordination. The input from the workshop will go into a report to be prepared in the coming weeks and posted on this website.

### Program

The first day of the workshop featured general sessions with high-level overviews of current work taking place and panel / audience discussions of what work remains to be done. Topics included:

Panel: U.S. Based Standards Activities

- ▶ vehicle hardware
- ▶ vehicle and grid communication and coordination
- ▶ battery and fire safety standards
- ▶ electric vehicle supply equipment (EVSE) standards
- ▶ code development

Panel: International Standards Landscape

- ▶ International Organization for Standardization (ISO)
- ▶ International Electrotechnical Commission (IEC)
- ▶ European Union
- ▶ Asia-Pacific region



Panel: Code, Conformance and Training Issues

- ▶ code installation and EVSE equipment issues
- ▶ qualifications / training of service technicians and first responders

Concurrent Breakout Sessions

The second day of the workshop featured concurrent breakout sessions in the morning. Attendees selected one of three breakout groups to participate in:

- ▶ Vehicle
- ▶ Infrastructure
- ▶ Support services / other

Focus questions and worksheets were provided to facilitate the discussions. After lunch, the breakout groups reported back to the general session. These findings will be included in the coming workshop report.

## Participants

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Interested U.S. and international persons that represent utility companies, vehicle manufacturers, battery manufacturers, vehicle component manufacturers, providers of EDV charging stations, battery switching station operators, service technicians, first responders, insurance companies, code officials, electrical inspectors, regulators, consumers, and standards developers.

## Venue Information

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[Bethesda North Marriott](#)

5701 Marinelli Road  
Bethesda, MD 20852

★ [Directions](#)

## Staff Contact

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