

#### ANSI – ESO Conference

Transatlantic Standardization
Partnerships on E-Mobility/Electric
Vehicles, Energy, and Security

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# eMobility – the CEN/CENELEC perspective

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## What are our European issues?

- We've tried to understand:
  - Commercial initiatives from global players -> conflicts
  - Differences in regional electrical supply requirements (Japan/US/Europe) → options
  - Differences in <u>national</u> wiring rules in Europe 
     interoperability issues
  - Different needs for home charging, fast charging, types of vehicle, etc. 

     technical detail
- Europe is a large market and large producer we don't want to re-invent the international wheel
- Some standards issues are more developed than others
- "Chicken and egg"- lack of standards may deter roll-out, implementation may be needed to standardise









#### The vehicle standards mandate

- Mandate = Commission/EFTA request to the European Standards Organizations (ESOs), endorsed by Member States
- Mandate on electric vehicle standards asks us to:
  - Ensure interoperability and connectivity between the electricity supply and on-board chargers of electric vehicles
  - Ensure interoperability and connectivity between "off-board" chargers and the electric vehicle and removable batteries
  - Consider any smart-charging issues
  - Consider safety risks and electromagnetic compatibility of the charger of electric vehicles in the field of relevant Directives
- Mandate issued in mid-2010, report now published









#### **Our report**

- CEN-CENELEC Report first published in June
- 69 recommendations (!) covering:
  - Future organization, links with regulation in Europe
  - Charging parameters (AC, DC, domestic, public, etc)
  - Connectors, plugs and sockets
  - Communications
  - Batteries
  - EMC
- Standards in this domain are and have to be international
- We will only work ourselves where we need urgent European issues covered









## Which are the report's critical issues?

- Complexity large number of standards activities relevant, different stakeholder communities that have evolved separately and in different organizations
- Need for better collaboration to drive the work forward
- Domestic installations may not be adequate for charging
- Need to reduce options in chargers/connector standards
- Work on smart charging and on vehicle-to-grid communication is not yet mature (even business model issues)
- New standards needed for batteries, detailed adjustments needed for EMC









#### What we propose to do

- We're establishing a European-level Co-ordination Group needed to ensure that the recommendations are being implemented
- Participation of interested stakeholders but accompanied by more detailed technical co-ordination between standards committees
- □ ISO and IEC need a similar approach: global effort also including Asian vehicle producing countries is needed to ensure smooth market introduction
- We're happy for our Co-ordination Group to work closely with ANSI EVSP on these issues
- □ Collaboration on activities for the global level, seeking common stakeholder approaches to the work, etc.?









## Thank you for your attention

Our report: <a href="https://www.cen.eu/go/eMobility">www.cen.eu/go/eMobility</a>

Questions/comments: <a href="mailto:innovation@cencenelec.eu">innovation@cencenelec.eu</a>







