Meet ISO 15118 in the context of smart charging.

Smart Charging Webinar Series

26th November 2019
EV Policy developments in the UK

Closed consultation

Electric vehicle smart charging

Published 15 July 2019
Last updated 19 July 2019 — see all updates
From: Department for Transport and Office for Low Emission Vehicles

We are analysing your feedback

Visit this page again soon to download the outcome to this public feedback.

Summary

Proposals for regulations to ensure that electric vehicle chargepoints sold or installed in the UK have smart charging functionality included. This consultation ran from 15 July 2019 to 18:45pm on 7 October 2019

Consultation description

Consultation on proposals for electric vehicle chargepoint smart technology regulations. The proposed regulations would require that electric vehicle chargepoints sold or installed in the UK have smart charging functionality included.

https://www.gov.uk/government/consultations/electric-vehicle-smart-charging
1.46 It is proposed that smart chargepoints will ordinarily be required to comply with British Standards Institution (BSI) standards, which are currently under development for smart chargepoints and smart appliances (see BSI Standards), before they can be installed. Chargepoints will need to undergo an independent testing and assurance regime that refers to the BSI standards and we propose to appoint the Office for Product Safety and Standards as the enforcement body.

2.16 These standards will include an ESA classification PAS, which will describe device requirements relating to the smart device, and a Demand Side Response (DSR) framework PAS, which will describe the smart services. The aim of these is to address the Government's policy principles relating to effective smart operation of ESAs: grid stability, cyber security, interoperability and data privacy. They will also provide the basis for certification in accordance with these principles.
EV ecosystem for smart charging-communication protocols

- EV charging management strategies is key.
- Energy and mobility entities involved.
- Information and control objects exchange.
- Communication protocols provide a set of rules and guidelines to facilitate the communication and data exchange between two or more entities.
Landing Page - Smart Charging Webinar series

- YouTube Recordings
- Slides
- Details for future events

https://www.ncl.ac.uk/cesi/events/webinars/v2gwebinars/
Upcoming events

- **3rd December 2019.** Noel Crisostomo, [California Energy Commission](#). Smart Charging Electric Vehicles in California

- **10th December 2019.** Peter Bach Andersen, [Danmarks Tekniske Universitet (DTU)](#). A sufficient and intelligent charging infrastructure - examples from Denmark

- **Date TBC.** Paul Bertrand. IEC 63110-Management of Electric Vehicles charging and discharging infrastructures
Apply and develop data science methods and tools to help in the transformation of electricity and transport infrastructure.

Contribute to open communication protocols for vehicle grid integration.

Assess security of communication, hardware and software of grid-integrated EV charging infrastructure.
Topics discussed will include:

- ISO 15118 as a key communication protocol for the EV ecosystem.
- How does it enable smart charging?
- How does ISO 15118-20 enable bidirectional charging?
- Some of the cyber-security provisions in place;
- Some information on the resources available (Knowledge Base, Blog)