

Electric Vehicle Charging for Sustainable Developments

The future of whether the automotive industry is going to turn electric is not in the hands of the government policy makers, or at least not to the extent that is suggested by many. The future lies, as in most business, between the supplier and the consumer; therefore it is these combined goals, which will determine whether electric vehicles will constitute a high percentage of vehicles on Irish, European and World roads.

This time has come.

Overview

As we prepare for a landmark change in the way we commute as citizens, we must also take more than a cursory glance at the enablers for this new (revived) technology. To this end, sustainable building developments need to prepare for Electric Vehicles in a sustainable way. A visible pitfall is the tendency to 'Google' a solution, however this method is rife with outdated information, likely to get the end user in a bind.

In order to assist those specifying solutions to design for a sustainable future and a happy client, Eninserv Ltd., has prepared this course to assist engineers and developers to get the job right. *One size doesn't fit all!*

The course will consider the technologies, standards and use case specific design. It will offer an opportunity for discussion as well as practical specification writing.



Syllabus

- Introduction
 - Safety, and Comfort
 - Who are Eninserv Ltd.
- The driving forces behind electro-mobility
 - Is it now.....and why now?
- A brief history of EV time.
 - A review of the last 10 years of electric vehicles
- What the Driver Needs
 - A practical view of charging requirements from a drivers perspective
- The State of the Art of EV Technology
 - Vehicles today
 - Charging Technology today
- Standards
 - IEC
 - ETCI
 - OCPP/OCA
- Who needs charging
 - Use case building
 - Specifying use case requirements
- Electrical considerations
 - The charge points
 - Distribution boards
 - Cabling & protection devices
- ICT
 - Energy metering
 - Authentication
 - Communications
 - Usage reporting
 - Environmental reporting
 - Payment systems
- Energy management
 - Protocols
 - Specification
 - Comms & Cables
- Future proofing
 - Planning for 'beyond 2020'
- Specification Design & Writing
 - Fixed Components
 - Variable Components
 - Examples
 - Now it's your turn!