

EV INFRASTRUCTURE ENGINEERING

Institution of
**MECHANICAL
ENGINEERS**

Seminar

7 November 2018

Twickenham Stadium, London

KEY SPEAKERS INCLUDE:

Chris Brown, Head of EST Strategy and Emerging Issues,
Systems and Networks

Ofgem

Kotub Uddin, Head of Research

OVO Energy

Toby Butler, Head of Portfolio and Innovation

Shell Global Retail

Anthony Hinde, Director, Sales and Operations, E-Mobility,
InCharge Solutions

Vattenfall

Colin Herron CBE, Managing Director

Zero Carbon Futures



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SUPPORTING ORGANISATIONS:



EVENT PARTNERS:



EV INFRASTRUCTURE ENGINEERING

7 November 2018, Twickenham Stadium, London

WITH UK GOVERNMENT COMMITTING £400 MILLION OF THEIR CHARGING INFRASTRUCTURE INVESTMENT FUND INTO SUPPORTING THE INSTALLATION OF CHARGING POINTS NATIONWIDE, ENGINEERS ARE DEVELOPING STRATEGIES OF HOW TO MEET CONSUMER DEMANDS.

Clarifying government strategies, engineering investments, new technologies and the interaction with local authorities is vital in **delivering a robust charging network** that is fit for purpose.

Hear directly from **government** and **utility companies** on how they plan to develop the UK charging network to support the shift towards fully electric mobility, and the roadblocks they face. Learn about ongoing case studies from **local authorities** and the role of engineers in facilitating these infrastructure projects. Address the challenge of **reinforcing the grid** and meeting future charging demand, as well as the role of **Vehicle to Grid charging**.

Network with engineering thought leaders across **both infrastructure and vehicle engineering** to discuss the latest technological developments in this field. Connect with experts across the transport industry in our shared exhibition space alongside the International EV Batteries 2018 conference.

ATTEND THIS SEMINAR TO:

- Hear directly from **Ofgem** about government strategies for charging infrastructure nationwide
- **Meet key decision makers** and thought leaders across electric mobility infrastructure projects
- Understand about the interface between **charging point manufacturers, local government and utilities providers**
- Network with engineers working on electric vehicle development in our **exhibition space**

KEY PROGRAMME HIGHLIGHTS:

- Hear about government investment strategies in developing resilient infrastructure for charging
- Learn how utilities are preparing to meet charging demand from a grid perspective, including Vehicle to Grid Charging
- Hear about the progress of ongoing infrastructure projects being led by local authorities across the UK, and the role of engineers
- Gain insight into the vision of charge point developers for their new technologies
- Understand about how electric vehicles will interact with the grid, and strategies for ensuring the provision of electricity is reliable and robust

CO-LOCATED

INTERNATIONAL EV BATTERIES 2018, 6-7 NOVEMBER, LONDON

CONFERENCE AND NETWORKING DINNER

INTERNATIONAL EV BATTERIES 2018 WILL ADDRESS CORE DEVELOPMENTS IN BALANCING PERFORMANCE WITH COST, COMPONENTS AND SYSTEMS DESIGN, FAST CHARGING, THERMAL MANAGEMENT AND RANGE EXTENSION.

Learn about the emerging challenges across EV manufacturing and life cycles, including the cost and availability of materials, second life applications and recycling.

Prior to the EV Infrastructure Engineering seminar, extend your networking opportunities by attending the International EV Batteries Networking Dinner on 6 November 2018 with delegates from both events in attendance.

For more information, visit www.imeche.org/evbatteries

BOOK YOUR PLACE TODAY

WWW.IMECHE.ORG/EVINFRAStructure

TERMS AND
CONDITIONS
APPLY

PROGRAMME

WEDNESDAY, 7 NOVEMBER 2018	
08:30	REGISTRATION AND REFRESHMENTS
ROADMAP TO INCREASED ELECTRIC MOBILITY	
09:00	CHAIR'S WELCOME AND OPENING REMARKS
09:10	INSIGHTS FROM GOVERNMENT: SUPPORTING THE GROWING REQUIREMENT FOR ELECTRIC VEHICLES Chris Brown, Head of EST Strategy and Emerging Issues, Systems and Networks, Ofgem
09:40	THE NECESSITY AND CONDITION VIABILITY OF INTELLIGENT FLEXIBILITY PLATFORMS Kotub Uddin, Head of Research, OVO Energy
10:10	THRIVING IN THE EV REVOLUTION Toby Butler, Head of Portfolio and Innovation, Shell Global Retail
10:40	QUESTION AND ANSWER SESSION
10:55	NETWORKING REFRESHMENT BREAK
LOCAL AUTHORITY CASE STUDIES	
11:25	CASE STUDY: LESSONS LEARNT IN TRIAL CITY-WIDE EV CHARGE POINT NETWORK Colin Herron CBE, Managing Director, Zero Carbon Futures, Future Technology Centre
11:55	CASE STUDY: ENGINEERING CHALLENGES IN ROLLING OUT CHARGING NETWORKS Representative, Horizon Power and Energy
12:25	QUESTION AND ANSWER SESSION
12:35	PANEL: ELECTRIC MOBILITY AND THE CHANGING ROLE OF LOCAL AUTHORITIES <ul style="list-style-type: none">• Strategic development across town centres and key charging areas• Facilitating the deployment of EV charge points and the ongoing challenges• Developing approaches to aligning engineering capabilities with the needs of local government
13:05	NETWORKING LUNCH
MEETING CHARGING REQUIREMENTS	
14:05	AN EV FOR EVERYONE: BUT HOW WILL WE CHARGE THEM ALL? Stephen Voller, CEO, ZapGo Ltd
14:35	WHAT DOES THE FUTURE LOOK LIKE FOR EV CHARGING IN THE UK? Alan McCleave, General Manager UK, NewMotion
15:05	QUESTION AND ANSWER SESSION
15:15	NETWORKING REFRESHMENT BREAK
15:45	VEHICLE TO GRID: ADDRESSING THE CHALLENGES Anthony Hinde, Director, Sales and Operations, E-Mobility, InCharge Solutions, Vattenfall
16:15	QUESTION AND ANSWER SESSION
16:20	PANEL: THE INTERFACE BETWEEN ENGINEERS, LEGISLATORS AND CONSUMERS IN THE ROAD TOWARDS ELECTRIC MOBILITY <ul style="list-style-type: none">• Identifying future consumer requirements and how they will be met• Engineering and regulatory road-blocks to meeting requirements• Vision for the future of electric mobility
16:50	CHAIR'S CLOSING REMARKS
17:00	END OF SEMINAR

TECHNICAL ADVISORY COMMITTEE:

Paul McNamara, Technical Director
Williams Advanced Engineering

Michael Parkes, Project Lead Electric Mobility
Shell

Ernie Shelton, Director
Horizon Power and Energy Ltd

Rupert Blackstone, Managing Director
Wattcraft Ltd

Billy Wu, Senior Lecturer, Dyson
School of Design Engineering
Imperial College London

Mike Richardson, Former Chief Technical Specialist, Low Carbon Vehicles
Jaguar Land Rover (retired)

WITH THANKS TO:

Energy, Environment and Sustainability Group
Institution of Mechanical Engineers

For the most up-to-date and detailed programme for the event, please visit www.imeche.org/evinfrastructure

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

HOW TO BOOK YOUR PLACE

FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Seminar	Standard Rate
Member, Institution of Mechanical Engineers / Supporting Organisation	£299 + VAT = £358.80
Non-member	£399 + VAT = £478.80
Full-time Student/Retired	£129 + VAT = £145.80

Group booking discounts are available. Contact us for more information.

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/evinfrastructure
- 2 Email:
eventenquiries@imeche.org
- 3 Phone:
+44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

SPECIAL REQUIREMENTS

Please inform us of any special requirements, ie dietary or access, on the relevant section of this form.

CANCELLATION

For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full refund of the fee paid. The Institution is not responsible for any loss or damage as a result

of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

CONFERENCE VENUE

Twickenham Stadium
200 Whitton Rd
Twickenham
TW2 7BA

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OTHER EVENTS TO LOOK FOR



INTERNATIONAL EV BATTERIES 2018: COST-EFFECTIVE ENGINEERING FOR HYBRID AND ELECTRIC VEHICLES

6-7 November 2018, London

Benefit from this unique opportunity to hear from mechanical engineers on how they are cost-effectively increasing vehicle range, enhancing performance and improving battery durability.

www.imeche.org/evbatteries



FUEL SYSTEMS - ENGINES

4-5 December 2018, London

Focus on the latest technology for state-of-the-art system design, characterisation, measurement, and modelling, addressing all technological aspects of diesel and gasoline fuel injection systems. This will range from fundamental fuel spray theory, component design, to effects on engine performance, fuel economy and emissions.

www.imeche.org/fuelsystems2018

The Institution of Mechanical Engineers organises over 120 events a year, including free-to-attend lectures as well as conferences, seminars, annual luncheons and dinners. Please visit www.imeche.org/events for the complete list of events.

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