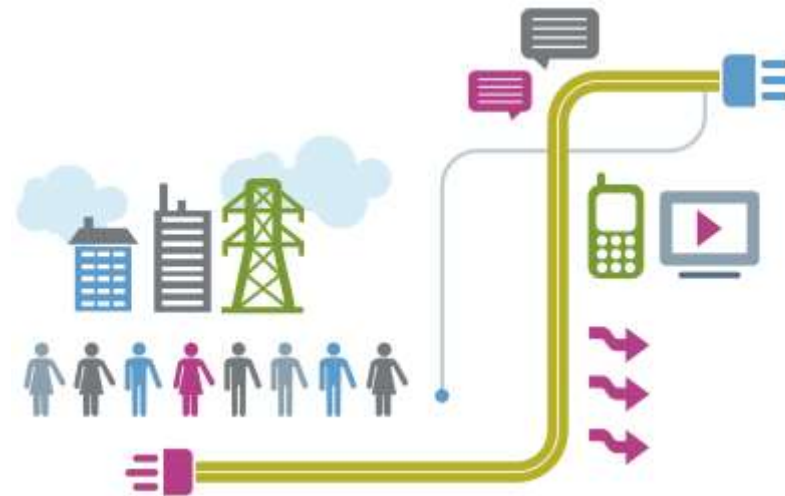


TRANSPORT ELECTRIFICATION AND FLEXIBILITY: A VIEW FROM THE SUPPLY CHAIN

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Who are we?

The UK trade association for the electrical supply chain.

- Manufacturers of products
- Providers of related services
- Network infrastructure to electrical products in buildings
- Transition to a flexible and low-carbon energy system
- Development of smart homes, grids and cities.
- Appropriate standards, policy and legislation

In a nutshell

- Understanding Markets
- Maintaining Markets
- Developing Markets



Challenges

- Policy and market design imperatives
- Routes to market:
supply chain investment, finance and market growth
- Energy storage implications:
for buildings, streets, cities and networks
- Engaging consumers in the EV revolution

Policy and market design

- Role of regulation: leading or following?
- Role of the regulator
- Simple solutions or complex ones?
- Customer-centric models
- The role of data
- Valuing flexibility

Routes to market

Customer proposition: the supply chain is the service

How do customers want to pay for infrastructure?

How should we amortise and apportion costs?

What is the path of least regret?

- Generic vs specific products
- Interoperability
- Scalability
- Integration with smart systems
- Planning

Energy storage and flexibility

- Buildings

domestic, industrial & commercial

data

- Streets

smart charging

- Cities

regional approaches to flexibility

- Networks

a flexible network is a robust network

Engaging consumers

Operational excellence

- The right mix of charge points:

high, medium, low voltage; fast or slow charging
controlled charging

- Charge points in the right places

homes, workplaces, streets, forecourts

Ways of charging now and into a changing future

Customer segments

Efficient and planned distribution of infrastructure

What we are doing

EV Energy Taskforce

Mayor of London EV Infrastructure Taskforce

What new services and outcomes are required?

Implications for buildings and the local grid

Alignment with Europe: directives, regs and standards

- New Energy Performance in Buildings Directive (EPBD)
- Smart Readiness Indicator (SRI)

New GB building regulations:

- Circuit protection, safety, others

THANK YOU

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