

Sustainable Energy Infrastructure

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Accelerating E-Mobility

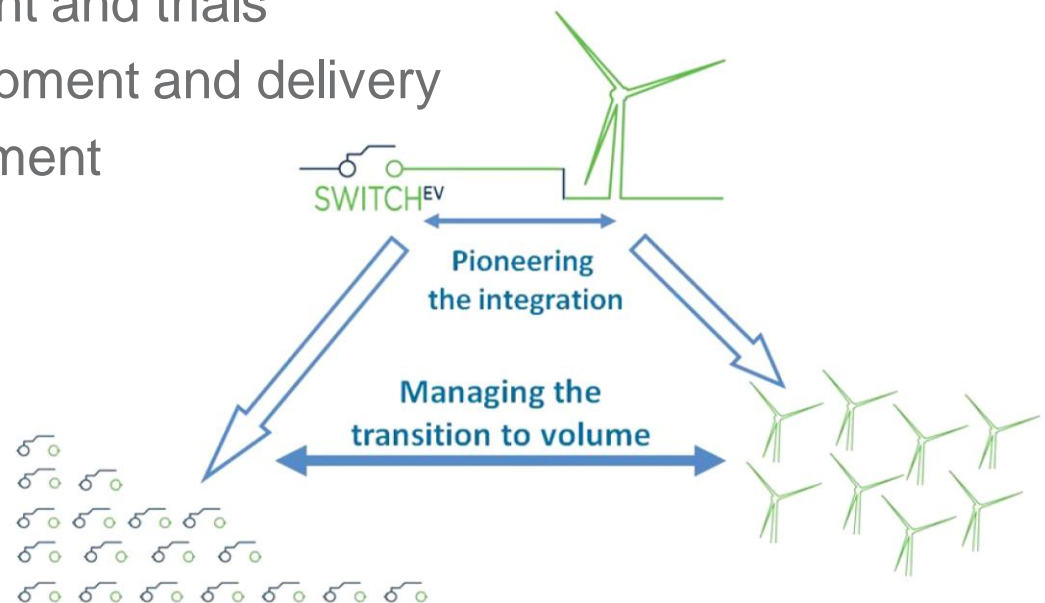
Agenda

- Future Transport Systems & Projects
- Issues identified through ENEVATE research
- The ENEVATE EV Infrastructure Tool Kit
- Further development with the Institute of Engineering & Technology (IET)
- Summary

Future Transport Systems

Technical and strategic consultancy

- Vehicle development & trials
- Infrastructure development and trials
- Regional strategy development and delivery
- Business model development



Project examples

- EV strategy for the North East, Yorkshire & Humber and East of England – 3 major regions within the UK
- Technical lead on the East of England Plugged in Places EV infrastructure pilot (www.sourceeast.net)
- Project managers for the SWITCH EV electric vehicle trial 43 EVs over 3 years (www.switchev.co.uk)
- Technology development and trialling
- ENEVATE – EV Infrastructure development tool kit (www.enevate.eu)
- Successfully Implementing a Plug-in Electric Vehicle Infrastructure - A Technical Roadmap for Local Authorities and their Strategic Partners (IET) (<http://www.theiet.org/resources/standards/ev-report.cfm>)

Infrastructure development issues

Research Approach

- Hypothesis
 - Much is being learned but not always shared
- Data collection structure
 - What should we be asking people about?
- Detailed data collection from EV infrastructure project teams
- Structured presentation of information in a practical Toolkit
- Trial and finalise with ongoing projects

Strategy & design

- Interoperability
- Exit strategies
- Relationships with the private sector
- Other projects
- EVs in isolation

Project planning

- Delivery and operating processes
- Technology types
- Market led locations
- Misinformation
- Technology development

Project implementation

- Equipment failure
- Supplier stability
- Stakeholder management
- Awareness raising
- Revenue costs

Infrastructure operation

- Customer experience
- Sustainability
- Expansion

The ENEVATE Tool Kit

- Develop a practical tool
- Focus on process – i.e. what needs to be done, when, by whom and why
- Less emphasis on definitive answers – these will evolve and can be sought elsewhere
- Greater emphasis on considering the key issues at the best time.

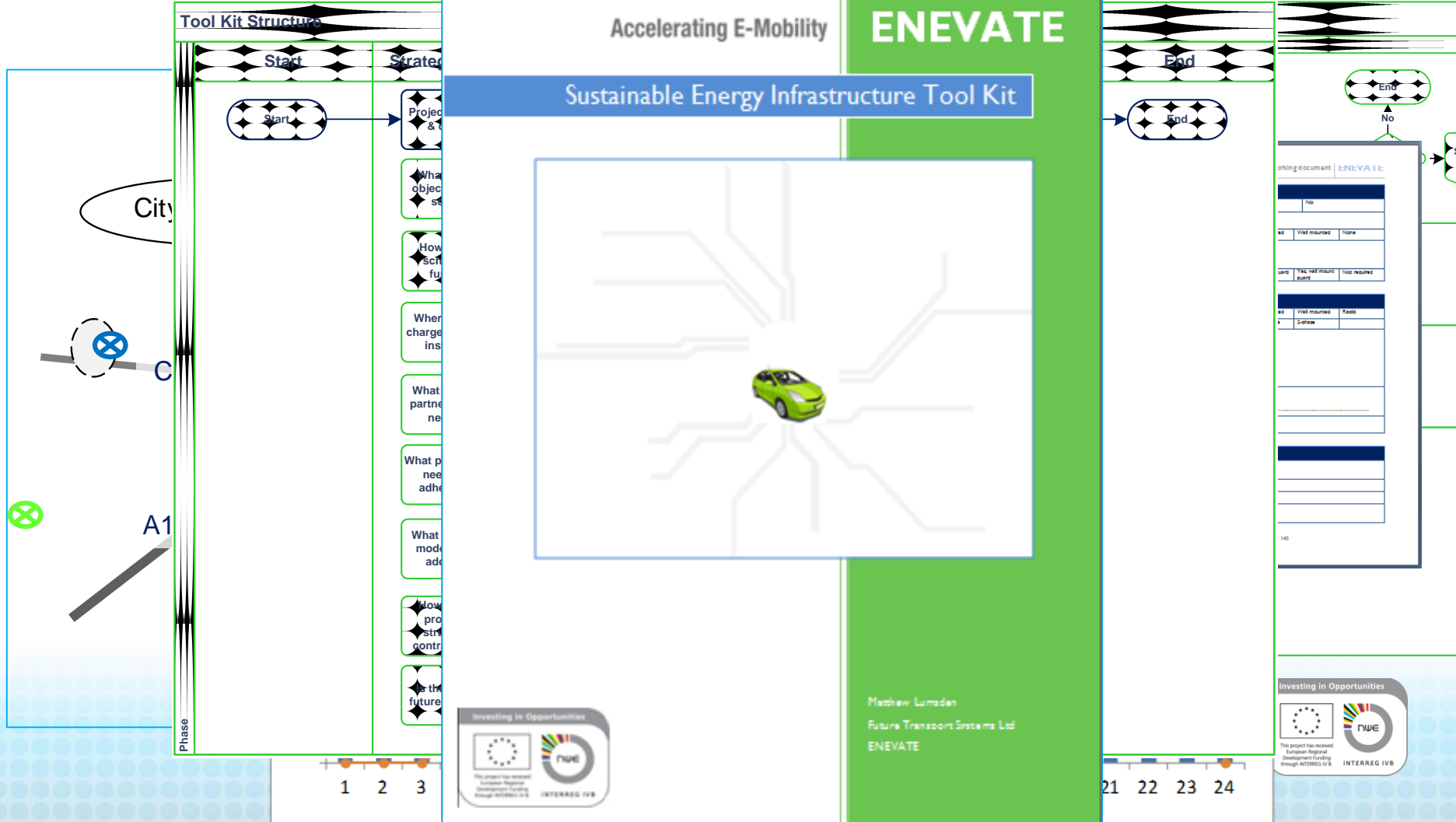
Sustainable Energy Infrastructure Tool Kit



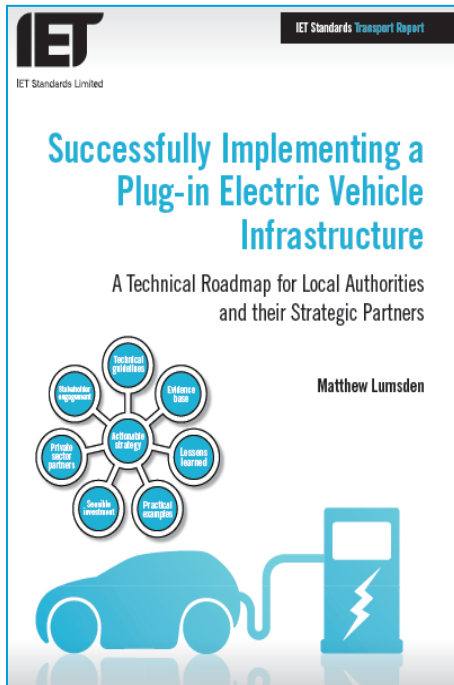
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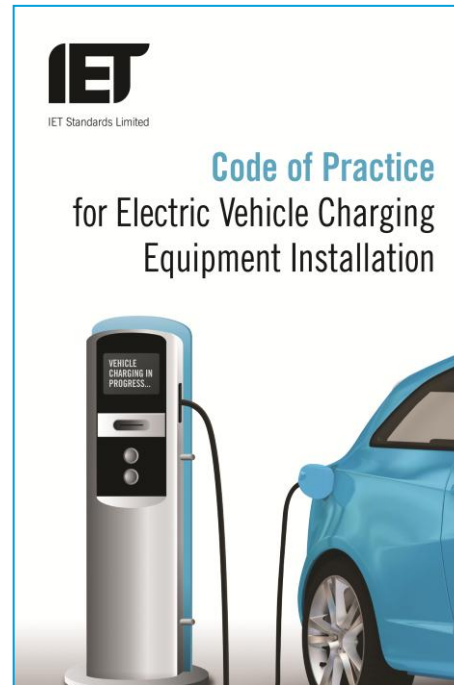
the ENEVATE Tool Kit



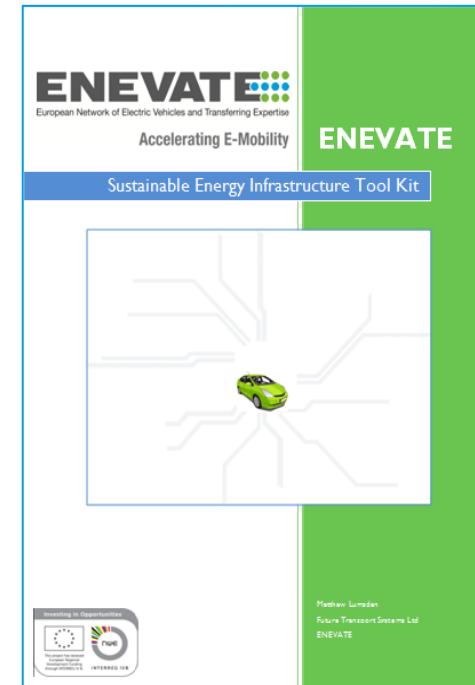
Technical & strategic background information



Detailed technical guidance on charge point installation



Key components of the development and implementation process



Bespoke workshops

In summary

- Much has and is being learned
- But it is not necessarily being shared or joined up
- We are in the process of developing an approach that might help

Thank you

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