

Energy outlook: The impact of incoming change

Session Chair

Jo Butlin – EnergyBridge (UK)

Speakers

Kyle Martin – LCP

Rob Williams – BT/Energy Institute

Paul Sheffield – Haven Power

Caroline Bragg – ADE



A new energy era: It's time to act

Paul Sheffield

Chief Operating Officer, Drax Retail

May 1 2019





Drax CCUS Incubation Area

Enabling a zero carbon,
lower cost energy future

Enabling a
zero carbon,
lower cost
energy future



The changing market



Decarbonisation



Risk



New suppliers



Innovation



Data



Smart



Affordability

**Security of
supply**

**Sustainability
/ low carbon**



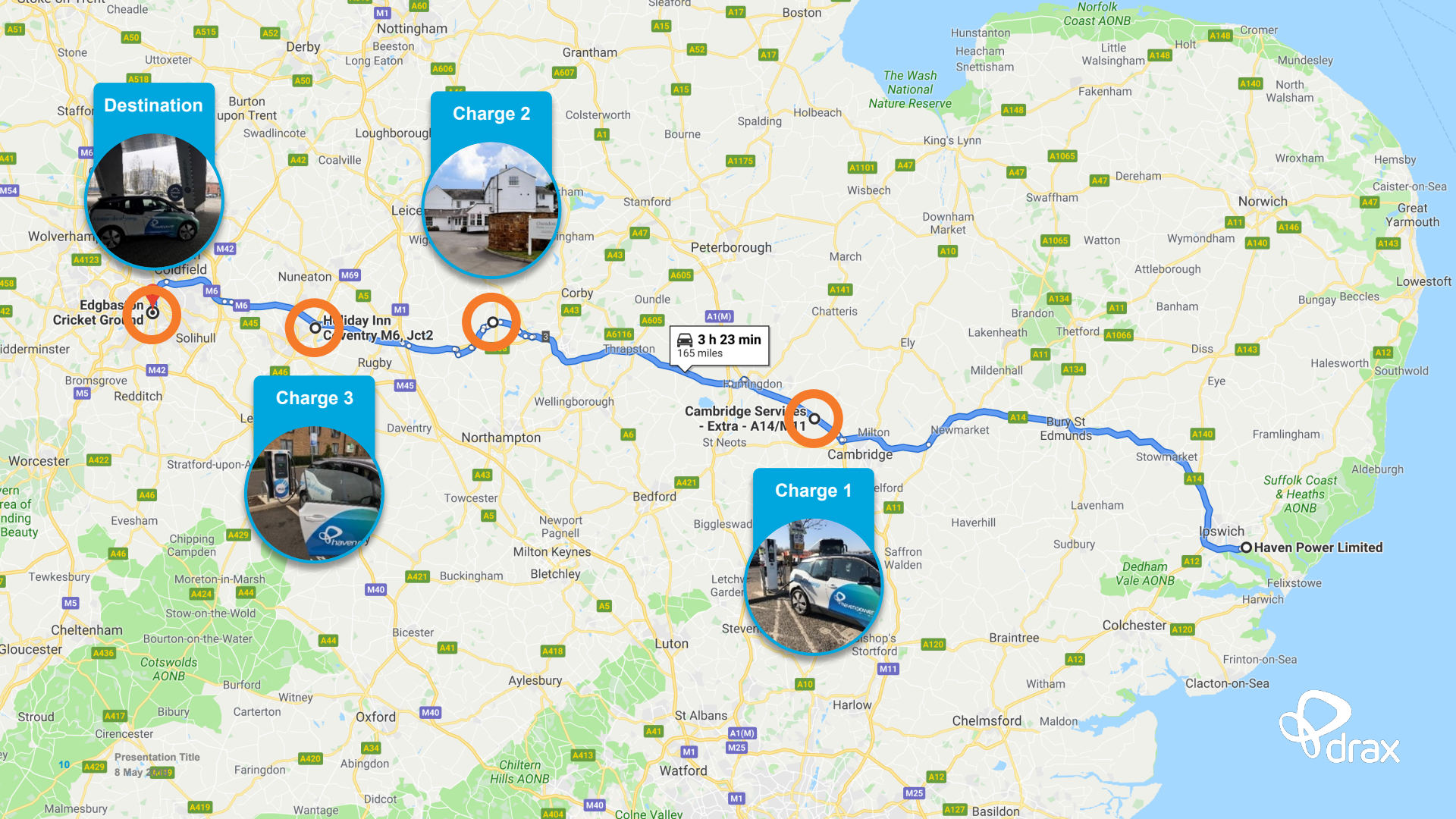
Energy
Efficiency

Battery

Solar Panel







Destination



Charge 2



Charge 3



Charge 1



3 h 23 min
165 miles

Cambridge Services
- Extra - A14/M11







Energy Outlook : the impact of coming change

Robert Williams

General Manager, Procurement, BT
and
Trainer, Energy Institute

Challenge to define 5-10yr strategic energy priorities in a changing market



Sustainability

- Deliver carbon reduction which meets global 1.5°C pathway
- Set Science Based Targets
- Report publicly to CDP and benchmark performance
- Achieve RE100
- 87% reduction by 2030
- Net Zero by 2045
- Support our customer's decarbonisation
- Meet shareholders expectations

Affordability

- Need med-term certainty in cost forecasts
- Commodity – OTC & PPA
- Non-commodity increases
- Impact of Targeted Charging Review
- Uncertainty in CM and CfD charges
- Improve billing transparency and reduce cost reconciliations
- Create demand flexibility
- On-site generation

Security of Supply

- 'Always On' telco network
- Customer expectations continue to grow
- 5G, FTTP, WiFi, IoT
- Interdependence of power & telecoms
- ESEC and Black start
- RiiO 2 – changes needed to support security of supply to telecoms infrastructure
- Back-up generation; MCPD, sustainability

Reduce energy consumption

Adapting to change through training and CPD

Full Core Courses and Qualifications

Level 1: Certificate in Energy Management Essentials – 5 days

A practical introduction to energy management, comprising 5 classroom days and a work-based project. This course is for those new to the energy management role, who want to gain confidence in carrying out essential day-to-day energy management tasks, such as conducting an energy audit.

Level 1: Certificate in Energy Management Essentials – online

An online option for the Level 1 Certificate in Energy Management Essentials qualification. As with the in-class course, students will learn everything they need to know to carry out essential day-to-day energy management tasks, such as conducting an energy audit.

Level 2: Energy Management Professional - online

A 200-hour online course and qualification providing all the knowledge and skills required of a professional energy manager. This is the EI's most extensive energy management training offer, covering more than 20 different topic areas.

Level 3: Advanced Energy Manager – 9 days

A 9-day course, providing the skills required to function successfully at a senior level and allowing delegates to demonstrably achieve the highest level of competence in energy management. It is designed for experienced energy managers, or those thinking of applying for Chartered Energy Manager status.

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The Association for
Decentralised Energy



ade

Bringing Energy
Together

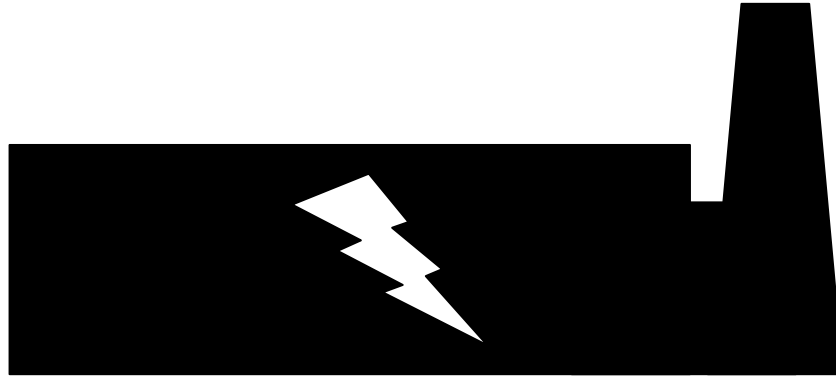
Combined Heat & Power
District Heating & Cooling
Demand Side Services

Caroline Bragg

Senior Policy Manager



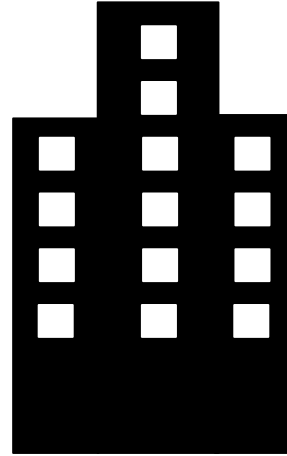
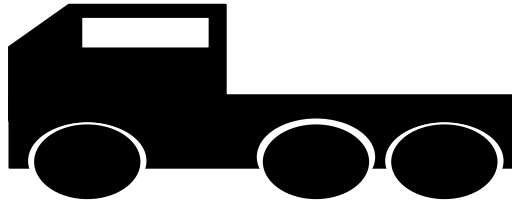
About the ADE



Bringing Energy
Together



About the ADE

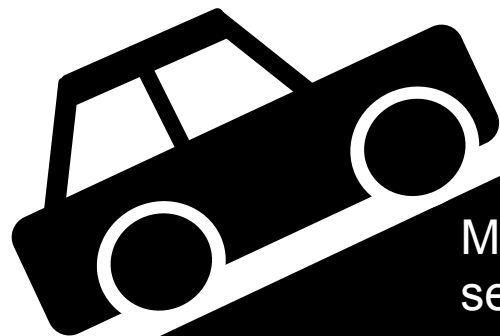


Bringing Energy
Together









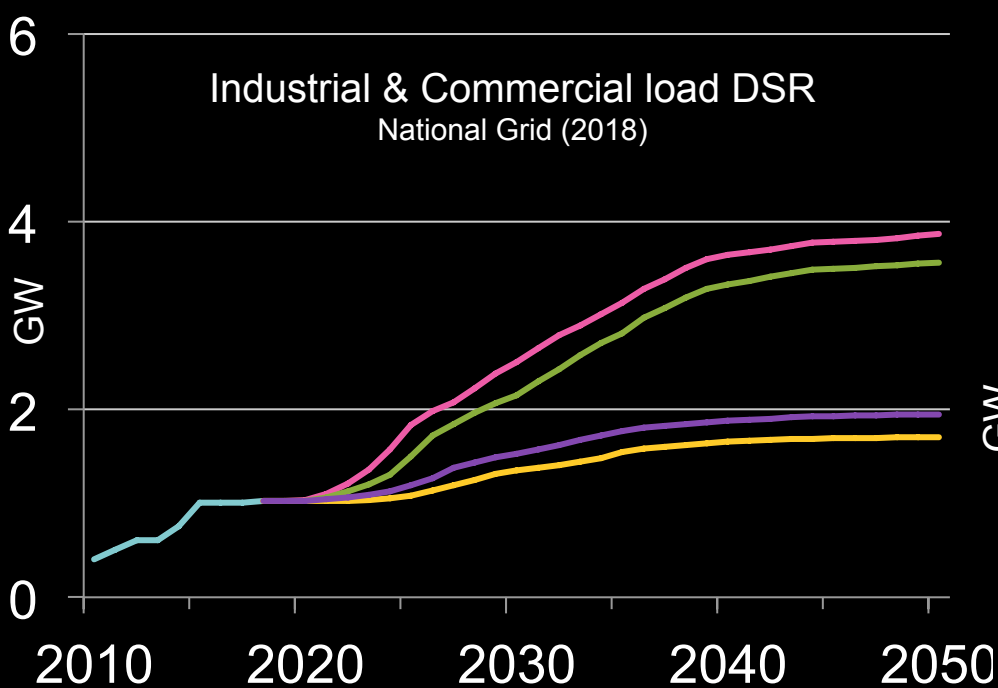
More stacking of
services?

More complex
services?

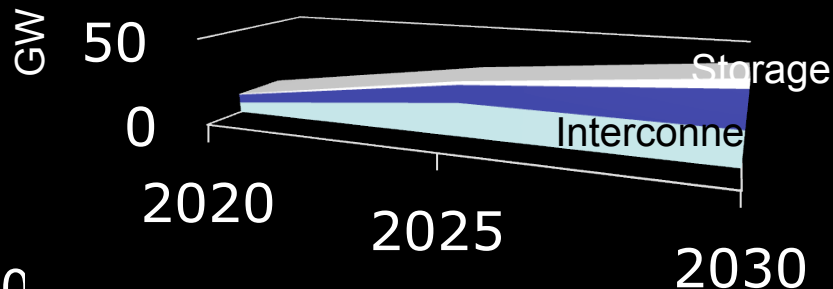
Short-term or even real-time
contracting?

Bringing Energy
Together





Flexibility with wind and
solar generation at 60%
by 2030
Vivid Economics and Imperial
College (2018) Thermal generation



Capacity
Market

Balancing
Mechanism

Balancing
Services

Pan-EU
TERRE

Inertia?