Trumpington Park & Ride
Smart Energy Grid

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Agenda

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Introductions

Miles Messenger  Engineering Manager
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Cherie Gregoire  Special Project Manager
Sheryl French  Programme Director
Context

• Drive towards a low-carbon economy
• Address challenges with embedded renewable generation
• Benefit the local community
• Facilitate the electrification of transport
To ‘maximise use’ of the Park & Ride space
To create a positive long-term legacy
To generate revenues to the Council
Concept

- One of the largest solar PV car ports in the UK
- ‘Smart grid’ that manages energy demand & supply
- Solar serves 95%+ of Park & Ride demands
- Serves Electric Vehicle chargers (present & future)
- Serves local major energy consumers
Concept
Solar PV Car Ports
Concept

Electric Vehicle Chargers
Concept

Site LED Lighting & Controls
Concept

Surplus Energy
Outcomes

- Generates 1,907,729kWh each year (equivalent to 500 homes)
- Avoids 10,800 Tonnes CO$_2$ emissions over 25 year life
- Expected to provide power to the equivalent of 100,000+ miles of EV car journey each year
Why Trumpington?

• Major transport hub for Cambridge City Centre
• Links to the Guided Busway (future electrification potential)
• Local major energy consumers
• Site is owned by Cambridgeshire
• Scale and topology of site
Impacts to Residents

- Visual impact
- Construction noise & traffic
- Disruption to car park users
- Glint and glare
- Any other concerns?
Thank you!
Questions & Answers