CIBSE Power Hour
Electricity Storage for Buildings

Opportunities in the Balancing Mechanism
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FLEXITRICITY OVERVIEW

1st, largest and most diverse demand response aggregator
> 9,000 demand response events
24-hour operations
<1s to 30m response
Capacity Market obligations 2016 – 2036
1st to develop Negative Reserve service
10 Years DSR delivery

100 % Reliable Capacity Market delivery

100 % Service delivery of frequency since 2012

100 % TRIAD avoidance since 2008
DEMAND RESPONSE AGGREGATION

INDUSTRIAL
COMMERCIAL
PUBLIC SECTOR
DEVELOPER

ANCILLARY SERVICES
TRADING
CAPACITY MARKET
DNO SERVICES
SUPPLY
THINGS ARE CHANGING

- Low system Inertia
- Increased volatility
- Reactive power
- New demands – Heat, Transport
- Network constraints
- Increasing renewable penetration
- Reduction of thermal fleet
CHANGING VALUE IN FLEXIBILITY

- Increasing value in real-time energy trades
- Ancillary services market over-subscribed
- Energy suppliers entering DSR market
- Value moves around and Flexitricity optimises it
- Experience, expertise and deep industry engagement is critical for success
TRADING IN THE BALANCING MECHANISM

Forward Curve Trading

Gate Closure – Trading Stops

60 Minutes

Settlement Period 30 mins

Balancing Mechanism

Wholesale Market
Day Ahead N2EX
SIP/NIV Chasing

Only NG able to make trades
>3000 trade per day Bid / Offer

- 48 half hourly opportunities / day
- System Actions
- Market is growing
- Thermal plant coming out
OPTIMISING VALUE FROM FLEXIBILITY

- Prioritise the “Day Job”
- Build flexibility into energy strategies
- Speed of response = increased value
- Respond to market changes
- Leverage value and risk mitigation from a Portfolio
- Factor in price erosion and market volatility
- Expertise and Experience
Thank you