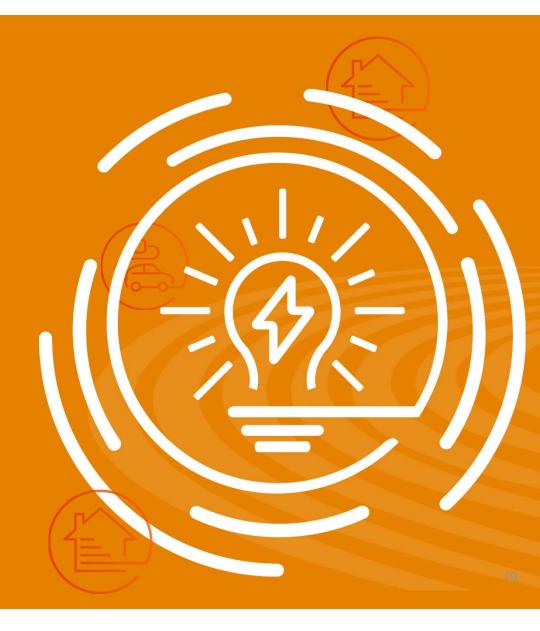




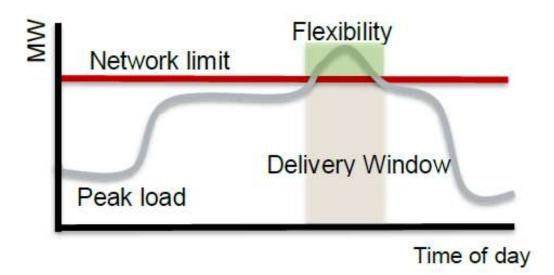
# **Flexibility Markets**



## Flexibility services

We buy **flexibility** from organisations that can **turn up** or **down** electricity **generation** or **consumption** as a service.

This allows us to avoid network constraints, and **optimise the utilisation** of our network assets, to **defer network reinforcement**.





## **Typical flexibility providers**

#### Thermal 'peakers'

A gas generator can turn up generation at times of peak demand



#### Renewable generation

A wind farm can ramp down at times of excess generation



#### **B2C aggregators - DSR**

Electric vehicles can charge when there is excess network capacity



#### **Grid scale batteries**

A large battery can change its generation and consumption



#### **B2B aggregators – large scale DSR**

A supermarket can schedule their operation based on network signal



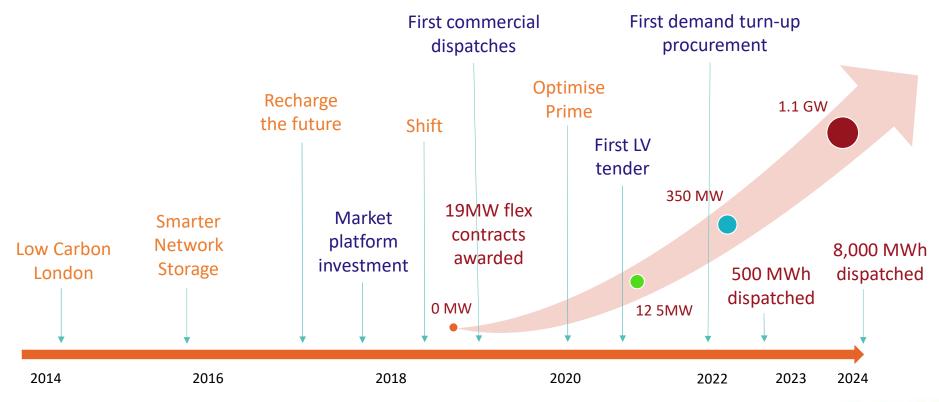
#### **Suppliers - DSR**

Energy suppliers are in a unique position to enable DSR





# The evolution of our flexibility market



We know it works, our next step is to grow the market further

## **Practical market participation**

We run long-term and day-ahead auctions

### **Long-term auctions**

- Run twice a year
- Informed by strategic forecasts of network utilisation
- Cover situations where demand is forecasted to exceed capacity
- Give us confidence in the availability of flexibility
- Allow providers to secure revenue in advance

## **Day-ahead auctions**

- Run daily, for delivery the next day
- Informed by automated short-term network forecasts
- Used for demand turn up and down
- Enable additional providers of flexibility to participate
- Timelines aligned with wholesale and transmission system market opportunities

**Day-ahead dispatch** 

Standard framework agreement

Full set of APIs, from registration to metering