

Understanding Consumer-led Flexibility Opportunities

Learning and development objectives:

- Understanding what consumer led flexibility encompasses and why there is a growing need for it
- How the different flexibility services available in GB work for consumers
- How end users can engage in flexibility
- An understanding of what potential changes on the horizon that could impact the GB flexibility markets

Day 1 – Introduction to Consumer-led Flexibility Markets

Introduction & welcome	
10 am	<ul style="list-style-type: none"> • Tech check! • Aim and objectives
Introduction to consumer-led flexibility fundamentals	
Module 1	<ul style="list-style-type: none"> • Defining end user flexibility <ul style="list-style-type: none"> ○ Market (aka 'implicit') vs. 'system' (aka 'explicit') flexibility ○ Role of NESO and DNOs • Why end user flexibility markets are expected to grow <ul style="list-style-type: none"> ○ End user flexibility examples – EV charging, Demand Side Response, on-site generation, on-site Battery Energy Storage Systems • Key considerations for end user system flexibility <ul style="list-style-type: none"> ○ Competing with other flexibility providers ○ Metering, comms and delivery times ○ Workstreams to support end user flexibility
Discussion and Q&A	
Break	
Consumer-led market flexibility choices	
Module 2	<ul style="list-style-type: none"> • Electricity supply contract structures <ul style="list-style-type: none"> ○ What makes up the end user electricity bill and which elements could be subject to time of use charging? ○ 'Flexi' contracts ○ Overview of the supply market – who's offering what
Case study – business electricity contract with time of use charges	
	<ul style="list-style-type: none"> ○ Typical business vs business with on-site flexible assets (e.g., EV charging, BESS)
	<ul style="list-style-type: none"> • Introducing system flexibility for Day 2 <ul style="list-style-type: none"> ○ Role of aggregators and optimisers
Discussion and Q&A	
11.45	Q&A
12.00	What we will cover off in future sessions and close

Session 2 – Consumer-led engagement in system flexibility

Introduction & welcome		
10 am	<ul style="list-style-type: none"> • Tech check! • Aim and objectives 	
Consumer-led system flexibility		
Module 1	<ul style="list-style-type: none"> • What are the flexibility services and what are their roles in keeping a stable system? <ul style="list-style-type: none"> ○ Balancing Mechanism ○ Balancing Services (aka ‘ancillary services’) contracts ○ How does the System Operator decide which flexibility service to use? ○ System flexibility market timings • Overview of how system flexibility services are opening up to end users • Current and future flexible market sizing and potential value 	
	<i>Discussion and Q&A</i>	
	Break	
	System flexibility services and routes to market	
Module 2	<ul style="list-style-type: none"> • Introducing Virtual Lead Parties (VLPs) and Virtual Trading Parties (VTPs) <ul style="list-style-type: none"> ○ End-users offering services in the Balancing Mechanism – volumes and prices <ul style="list-style-type: none"> ▪ NIV chasing • Key balancing services with potential for end user participation <ul style="list-style-type: none"> ○ Response ○ Reserve ○ Local Constraint Markets ○ Demand Flexibility Service • Routes to system flexibility markets <ul style="list-style-type: none"> ○ Aggregators and optimisers 	
	<i>Discussion and Q&A</i>	
	11.45	Q&A
	12.00	Close

Session 2 – Sources of system flexibility value for Consumer Led Flexibility

Introduction & welcome	
10 am	<ul style="list-style-type: none"> • Tech check! • Aim and objectives
What are the flexibility services and what are their roles in keeping a stable system?	
Module 1	<ul style="list-style-type: none"> • Balancing Mechanism • Balancing Services (aka ‘ancillary services’) contracts • Capacity Market • How does the System Operator decide which flexibility service to use?

- System flexibility market timings
- Where and what is the opportunity for end user participation?
 - Balancing Mechanism
 - Capacity Market
 - Response
 - Reserve
 - Local Constraint Markets
 - Demand Flexibility Service

Discussion and Q&A

Break

Accessing value for Consumer Led Flexibility

- Introducing Virtual Lead Parties (VLPs) and Virtual Trading Parties (VTPs)
 - End-users offering services in the Balancing Mechanism – volumes and prices
- Routes to system flexibility markets

Module 2

- Suppliers, aggregators and optimisers
- Impacts on available value streams
- Key players and trends

Case study: Current market activity in consumer led flexibility markets

Discussion and Q&A

11.45 Q&A

12.00 Close

Session 3 – Consumer-led engagement in capacity markets and bringing it all together

Introduction & welcome

10 am

- Tech check!
- Aim and objectives

Capacity market

- What is Capacity Adequacy
- The Capacity Market
 - How it is works
 - Consumer engagement – Demand Side Response
 - Timelines – qualification through to securing a CM Agreement
- Recent Capacity Market auction results
 - Clearing prices
 - How consumer (DSR) involvement has increased
- Workstreams in play for CM change

Module 1

Discussion and Q&A

Break

Bringing it altogether

Module 2

- How flexibility market revenues can be ‘stacked’
- Key workstreams impacting on consumer-led flex over the coming years

- Enabling Demand Side Flexibility
- Flexibility Market Facilitator
- Clean Flexibility Roadmap
- Smart Secure Electricity Systems Programme

- *Discussion and Q&A*

11.45 Q&A

12.00 Close