



Proof of Concept Flexibility Opportunity Summary

We've developed this proof of concept in order to gather feedback from stakeholders on the level of information they would like to see when engaging with our flexibility market opportunities.

Following feedback, we will develop these summaries to be easily accessible via our Market Gateway platform. These summaries support the more detailed data we have published to date on our [Connected Data Portal](#).

March 2025

V0.1

nationalgrid

Introduction

Why we need Flexibility Services

Flexibility is about reducing loads on the network by using customers' ability to change their usage patterns by either reducing consumption, changing their electricity habits, or (at a larger commercial scale) switching on generators.

We use flexibility to manage peak load in defined geographic locations where the network is constrained; Constraint Management Zones (CMZs). This helps reduce costs to all customers because it means we don't have to invest in a permanent network upgrade to meet a temporary spike in demand.

CMZ's require different types of flexibility responses from Flexibility Service Providers (FSPs):

- Demand Turn Down / Generation Turn Up (DTD/GTU): FSPs reduce demand or increase generation.
- Demand Turn Up / Generation Turn Down (DTU/GTD): FSPs increase demand or reduce generation.

We procure different flexibility solutions to cover these requirements, and the solutions vary depending on the specific network needs;

- SAOU_DA (Scheduled Availability + Operational Utilisation – Day Ahead): Availability is scheduled in advance, and usage is confirmed the day before.
- OU-15 (Operational Utilisation – 15 minutes): Usage is confirmed just 15 minutes before real-time.
- SU-SPP / SU-SEP (Scheduled Utilisation – Specific Period/Settlement Period): Usage is scheduled the week before delivery.

We procure Flexibility in advance, across two timelines;

- Long Term – This is where Flexibility is procured annually for delivery over an extended period of months or years depending on CMZ requirement. This is useful if you know you have static assets that will not change and can provide a consistent commitment to provide flexibility. (examples of assets/commercial example)
- Short Term – This is procured every week for delivery the following week. This is useful if you need the ability to add and remove assets at short notice or if you will be expanding your asset portfolio (examples EV chargers)

Next Steps

Do you have assets connected to the network and want to participate in Flexibility?

- 1. Register your company on our [Market Gateway Platform](#).
- 2. Register your assets to identify if they match with a flexibility Zone – use our handy revenue calculator [here](#).
- 3. Enter bids into either the Long Term or Short Term market
- 4. Provide flexibility when called upon in exchange for financial reward

Exeter-CMZ_T2A_SWE_0002 Data

Response Type
DTU/GTD

Constraint Season
Winter

Revenue Calculator

To help FSP's understand which responses are available in CMZ's and to provide an estimate of potential revenue, you can utilise our [Revenue Calculator](#)

CMZ Parameters

NGED Area	South West
Maximum Connection Voltage	33KV
Trade Opportunity Period	T9A – 2025/2026
Long Term Trade Opening Date	23/09/2024
Long Term Trade Closing Date	13/01/2025

	SAOU_DA	OU_15
Peak Required Volume (MW)	6.15	50
Availability Ceiling Price (£/MW/hr)	48.55	0
Utilisation Ceiling Price (£/MW/hr)	2913.28	1200



Estimated Flexibility MWh requirement per month based on Long Term Trades

	Nov.25	Dec.25	Jan.26	Feb.26	Mar.26	Apr.26	May.26	Jun.26	Jul.26	Aug.26	Sep.26	Oct.26	Nov.26	Dec.26
SAOU_DA	363.6	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need
OU_15	19,200	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need	No Need

•Monthly MWh Requirement: The total volume needed for each CMZ over time.

Tiverton-CMZ_T4A_SWE_0010 Data



Response Type
DTU/GTD



Constraint Season
Winter, Summer

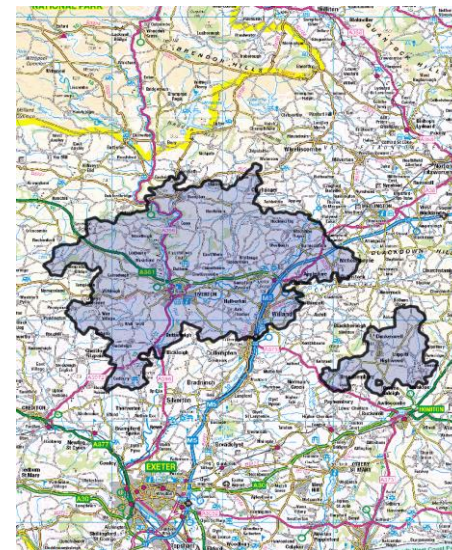
Revenue Calculator

To help FSP's understand which responses are available in CMZ's and to provide an estimate of potential revenue, you can utilise our [Revenue Calculator](#)

CMZ Parameters

NGED Area	East Midlands
Maximum Connection Voltage	33KV
Trade Opportunity Period	T9A – 2025/2026
Long Term Trade Opening Date	23/09/2024
Long Term Trade Closing Date	13/01/2025

	SAOU_DA	OU_15
Peak Required Volume (MW)	100	50
Availability Ceiling Price (£/MW/hr)	2.73	0
Utilisation Ceiling Price (£/MW/hr)	164.04	1200



Estimated Flexibility MWh requirement per month based on Long Term Trades

	Apr.25	May.25	Jun.25	July.25	Aug.25	Sep.25	Oct.25	Nov.25	Dec.25	Jan.26	Feb.26	Mar.26	Apr.2026	May.26
SAOU_DA	56	No Need	No Need	No Need	No Need	No Need	949.05	3577.5	No Need	No Need	No Need	75.25	No Need	No Need
OU_15	16,800	No Need	No Need	No Need	No Need	No Need	32,400	36,000	6,000	No Need	No Need	6,000	No Need	No Need

•Monthly MWh Requirement: The total volume needed for each CMZ over time.