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On Track to Trade

HV Long Term Trades
LV Sustain Trades

Helen Sawdon
Flexibility Commercial Manager

Luke Boucher
Flexible Power Commercial Officer

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Webinar – On Track To Trade 18th January 2024

This webinar will start at 1:02pm

Please mute your microphones during the presentation.

There is time allocated for Q&A following the presentation.

Questions can be submitted via the Q&A function at any time.

This webinar will be recorded.

The slides from today and the recording will be available on our website
www.flexiblepower.co.uk

Agenda

01

Flexibility Requirements

- Overview
 - Long Term Trades
 - LV Sustain Trades
 - Where to access requirement information
-

02

Registration through Market Gateway

- Overview
 - Commercial Qualification
 - Overarching Contract Award
 - Asset Registration
-

03

Trade entry via spreadsheets

- Trade Responses
 - Pricing and Clearing process
 - Operation and settlement in Flexible Power Portal
-

04

Sources of information and help

- Key dates
 - Sources of information and help
 - Continued engagement
-

2023 Headlines

Launch of Market Gateway

Team growth;

Helen Sawdon, Flexibility Commercial Manager
Daria Wosko, Commercial Officer
Luke Boucher, Commercial Officer
Sarah Manning-Benson, Team Support

Introduction of ceiling prices

Evolution towards closer to real time procurement

First DNO to introduce an Overarching Contract

~63k assets registered in Market Gateway

~£7.2m worth of market potential

2024 Further Development

Entry Through Piclo Flex



National Grid and Piclo announce strategic partnership
to enhance local flexibility markets

Flexibility Providers can now chose to enter our LV Sustain Market via Piclo or direct through NGEDs Market Gateway.

Across all our markets we're looking to grow volumes by opening as many routes to market as possible

For more info visit [Piclo Flex](#)

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Flexibility Requirements

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Flexibility Requirements

From the 15th January we are looking to procure;

-
- **Long Term** Secure and Dynamic services to meet a peak of ~166MW
 - 56 HV locations
 - 12 month delivery periods
 - Potential value to market of £2.76m

-
- **LV Sustain** product to meet a peak of ~92MW
 - 1426 new LV locations
 - Coverage of 176,000 domestic customers with potential to participate
 - Delivery over Winter 24/25 Nov-Feb
 - Potential value to market of £2.2m

Long Term Trades

- We assign ceiling prices for flexibility for all of our Constraint Management Zones (CMZs)
- On average, our ceiling prices are 7 times higher than previous fixed price approach
- Our Long Term Trades are procuring 12 month windows, across multiple years.

Secure

Pre-Fault Constraint Management

Our Secure service is used to manage peak demand loading on the network and pre-emptively reduce network loading. It offers a higher availability payment and lower utilisation payment.

Dynamic

Post- fault Constraint Management

Our Dynamic service has been developed to support the network in the event of specific fault conditions, such as during maintenance work. It offers a low availability payment and higher utilisation payment.

Earnings

Secure

£3005/MWh max ceiling price
£1045/MWh average

Dynamic

£8584/MWh max ceiling price
£2936/MWh average

Low Voltage Sustain Trades

- Procuring through our Sustain product across 1426 LV locations
- Targeted at Domestic Participation from Nov'24 through to Feb'25
- Delivery window Mon – Fri, 4pm – 8pm
- Potential value to market of £2.2m

Sustain

Scheduled Constraint Management

Our Sustain service is used to manage peak demand loading on the network and pre-emptively reduce network loading.

Utilisation only with fixed delivery windows

Earnings

Sustain

£1079/kW/delivery period max
ceiling price

£68/kW/delivery period average

Requirement Data

We publish all our requirement data on National Grid's [Connected Data Portal](#)

Dataset	LV Zones	HV Zones
Postcode Data; to match your assets to our Zones	Click here	Click here
Ceiling prices; maximum price you can bid to		Click here
Requirement Volumes; how much we need	Click here	Click here
Requirement profiles; when we need it		Click here

Please be aware that matching assets to CMZ's with **Postcode Data** may not always be the most accurate method, this is due to the physical configuration of the electricity network, therefore it is advised that the **Polygons Dataset** is more accurate, and can be found [HERE](#)

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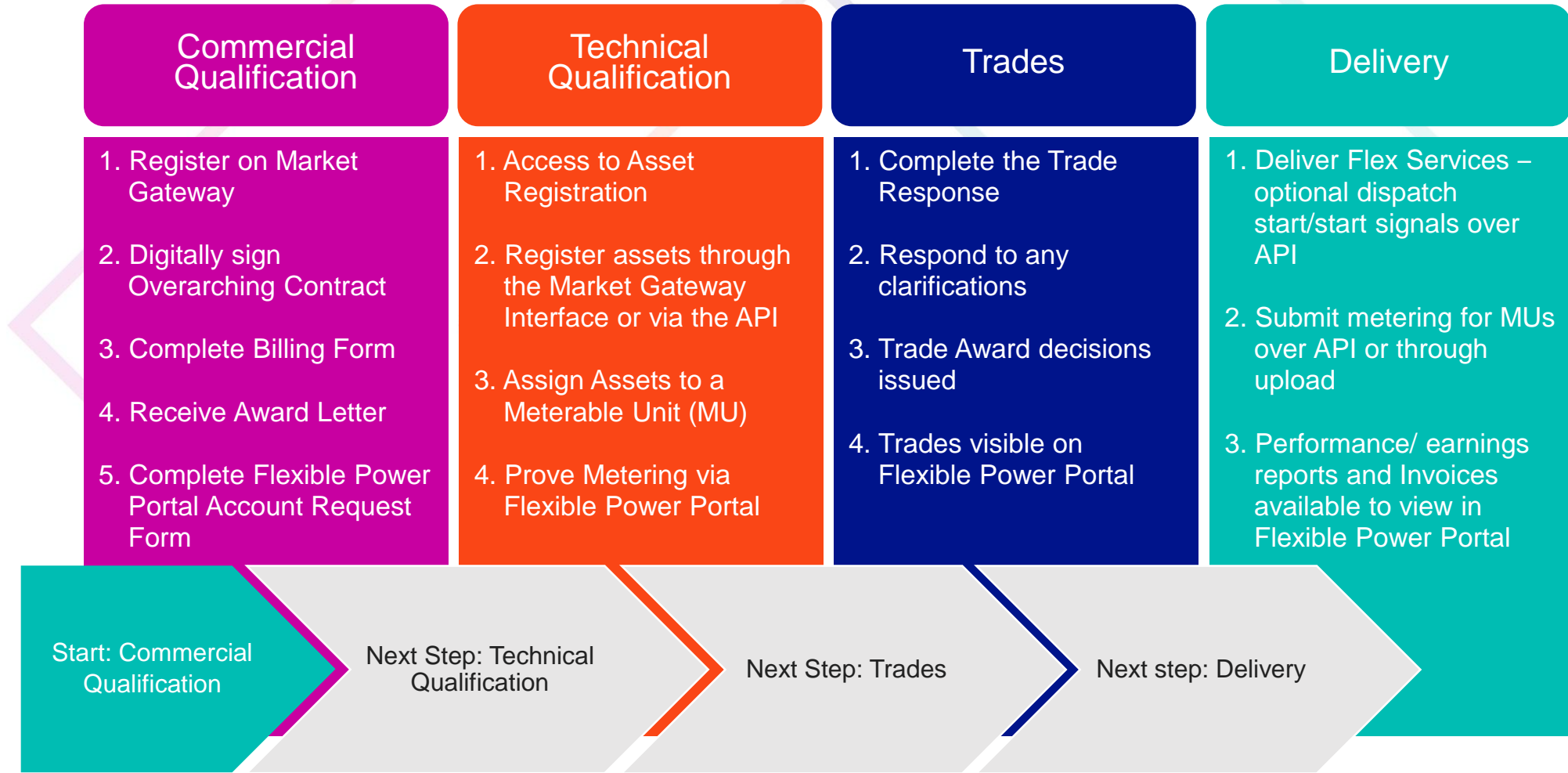
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Qualification & Market Gateway

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Market Gateway



Market Gateway - Commercial Qualification

Entry through Market Gateway

<https://marketgateway.nationalgrid.co.uk/>

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Home Commercial Qualification Contact Us Glossary

Commercial Qualification

PIN Response PQQ Qualification tender Contract

Commercial Qualification Home

For its electricity distribution flexibility programme, National Grid award qualifying Flexibility Service Providers with an Overarching Contract, enabling further participation in flexibility Trades.

Please complete the steps the required commercial qualification steps, starting with the PIN response.

Commence

- Introduction
- Step 1 of 2: Confirm company account Information
- Step 2 of 2: Declaration to Respond to PIN
- Thank you

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One Account per Organisation

One User per Organisation initially

Account requests approved within 1 working day

Market Gateway - Overarching Contract

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Home Commercial Qualification Contact Us Glossary

Commercial Qualifications

PIN Response PQQ Qualification tender Contract

Step 5 of 5: Supplier details form

Please download and complete the banking information form below.

Once done, please email or post the completed form to:

dsobilling.nged@nationalgrid.co.uk

DSO Billing
Pegasus Business Park
Castle Donington
Derbyshire
DE74 2TU

SUPPLIER REQUEST FORM

- ✓ Qualification Tender
- ✓ Step 1 of 5: Confirm company account information
- ✓ Step 2 of 5: Complete T&C Clause Groups
- ✓ Step 3 of 5: Complete T&C Schedules
- ✓ Step 4 of 5: Self billing agreement
- Step 5 of 5: Supplier details form

Upon receipt of the Billing Form, notification of Contract Award will be emailed to User along with a Flexible Power Portal Account Request Form.

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Home Commercial Qualification Contact Us Glossary

Commercial Qualifications

PIN Response PQQ Qualification tender Contract → Contract Award

Contract Award

Thank you for completing the Commercial Qualification process.

Following receipt of your billing form, National Grid will email you with your executed Contract Documents.

From receipt of your Contract Documents a 10 day standstill period will apply, after which you will be able to enter Trade Opportunities provided Technical Qualification is complete.

Market Gateway - Asset Registration

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Dashboard Assets Meterable Units

Latest Updates

Assets

Search: Search Name or ID

Filter: CMZ Status

Asset ID	Name	Version	MPAN / MSID	CMZ	Last Up
----------	------	---------	-------------	-----	---------

Dashboard Assets Meterable Units

Create a New Asset

New Assets and Meterable Units can be created through the UI, or; Through APIs available in the User Account area.

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Hello, User | View Account | Logout

Home Commercial Qualification Technical Qualification Contact Us Help & Guidance Glossary

Manage your account

Edit Details **API Credentials** Change Password Logout

Market Gateway - Asset Registration

Once submitted, we will approve assets and match them with a CMZ in around 48hrs.

Once approved, assets can be grouped into Meterable Units – the level at which you will provide metering for the assets. Once an MU is submitted, we allocate it a MUID within around 48hrs.

The MUID is used for the Flexible Power Portal communication.

For each MU, we will detect metering data and update the MU status to 'Ready for Trades'.

Latest Updates

Assets

Dashboard Assets **Meterable Units**

Search: Search Name or ID

Filter: cmz_3 Approved

Asset ID	Name	Version	MPAN / MSID	CMZ	Last Updated	Status	Action
35	Domestic House 2	1	1122334455667	cmz_3	Wed, 10 May 2023	Approved	View / Edit
39	Hydro Power Site 1	1	1156876532010	cmz_3	Wed, 10 May 2023	Approved	View / Edit
43	EV Fast Charger 4	1	1102013989875	cmz_3	Wed, 10 May 2023	Approved	View / Edit
47	PV Site 1	1	1125632478964	cmz_3	Wed, 10 May 2023	Approved	View / Edit
51	Domestic House 3	1	1111225569870	cmz_3	Wed, 10 May 2023	Approved	View / Edit
55	Domestic House 7	1	1125489863000	cmz_3	Wed, 10 May 2023	Approved	View / Edit

[Create a New Meterable Unit Request](#)

Market Gateway - Asset Registration

We use the Flexible Power Portal (FPP) for the operation of awarded Trades.

Only MUs with detectable metering to the FPP will be eligible to Trade.

Metering can be submitted through API or via upload

[Guidance on API build is available on the FPP.](#)

The screenshot shows a web browser window displaying the documentation for the Flexible Power Participant API. The URL is <https://flexiblepowerportal.co.uk/docs/public/participant.html>. The page title is "Flexible Power Participant API" with a version indicator "1.2 OAS3". The description states: "The API sending from and to a Participant. Includes sending readings data and receiving dispatch start/stop messages." The documentation is organized into sections:

- Dispatch Signals from Flexible Power to Participant**
 - PUT** `{participant_base_url}/dispatch/start` Flexible Power platform sends dispatch start signals to this endpoint
 - PUT** `{participant_base_url}/dispatch/stop` Flexible Power platform sends dispatch stop signals to this endpoint
- Data from Participant to Flexible Power**
 - PUT** `/v1/participant/readings` Participants submit minute-by-minute power meter readings in kW using this endpoint
 - PUT** `/v1/participant/readings/energy` Participants submit minute-by-minute or half-hourly energy meter readings in kWh using this endpoint
 - PUT** `/v1/participant/stop` Participant notification of emergency stop
- Flexible Power Data**
 - GET** `/v1/participant/invoices/zone/{zoneId}/year/{yearStr}/month/{monthStr}` Retrieve the data of a single invoice
- Schemas**
 - DispatchIdentifier** >
 - Programme** >

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Trade Entry Through Spreadsheets

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Trade Responses

We are still developing Trade functionality on the Market Gateway, until that is complete we will facilitate Trading through Excel

Partial manual process to accommodate Trades and Trade Awards

- Pre-populated with your MU data from Market Gateway.
- Emailed to MG Users post MU creation.
- A spreadsheet to complete for each HV Zone.
- A combined spreadsheet to complete for all Sustain Zones.

Trade Responses

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The screenshot shows an Excel spreadsheet with the following data:

Trade Opportunity Name	Winter 2023/24 - Dynamic - Llandrindod - Rhayader		
Trade Opening Date	23/06/2023		
Trade Closing Date	28/07/2023		
Trade Start Date	01/10/2023		
Trade End Date	24/03/2024		
Product	Dynamic		
Availability Ceiling Price	£15.50		
Utilisation Ceiling Price	£934.80		
Availability / Utilisation Price Ratio	0.0166		
Service Delivery Units	kW		
CMZ Code	CMZ_T4A_SWA_0001		
Validated MUs			
Meterable Unit	Maximum Qualified Capacity (in kW)	Include in Trade?	Baseline
V15FW7MER7CEHkskXkj SQ	34475.0		171.0
MUs in Trade Dispatch Group Total	0	Trade Baseline	0
Minimum Required Volume	0.0		
Maximum Required Volume	500.0		
Offered Capacity			
Minimum Offered Availability Price (£/MWh)	£0.00		
Minimum Offered Utilisation Price (£/MWh)			
Restore Price (£/MWh)	£0.00		
Are MUs Available for Restore?			

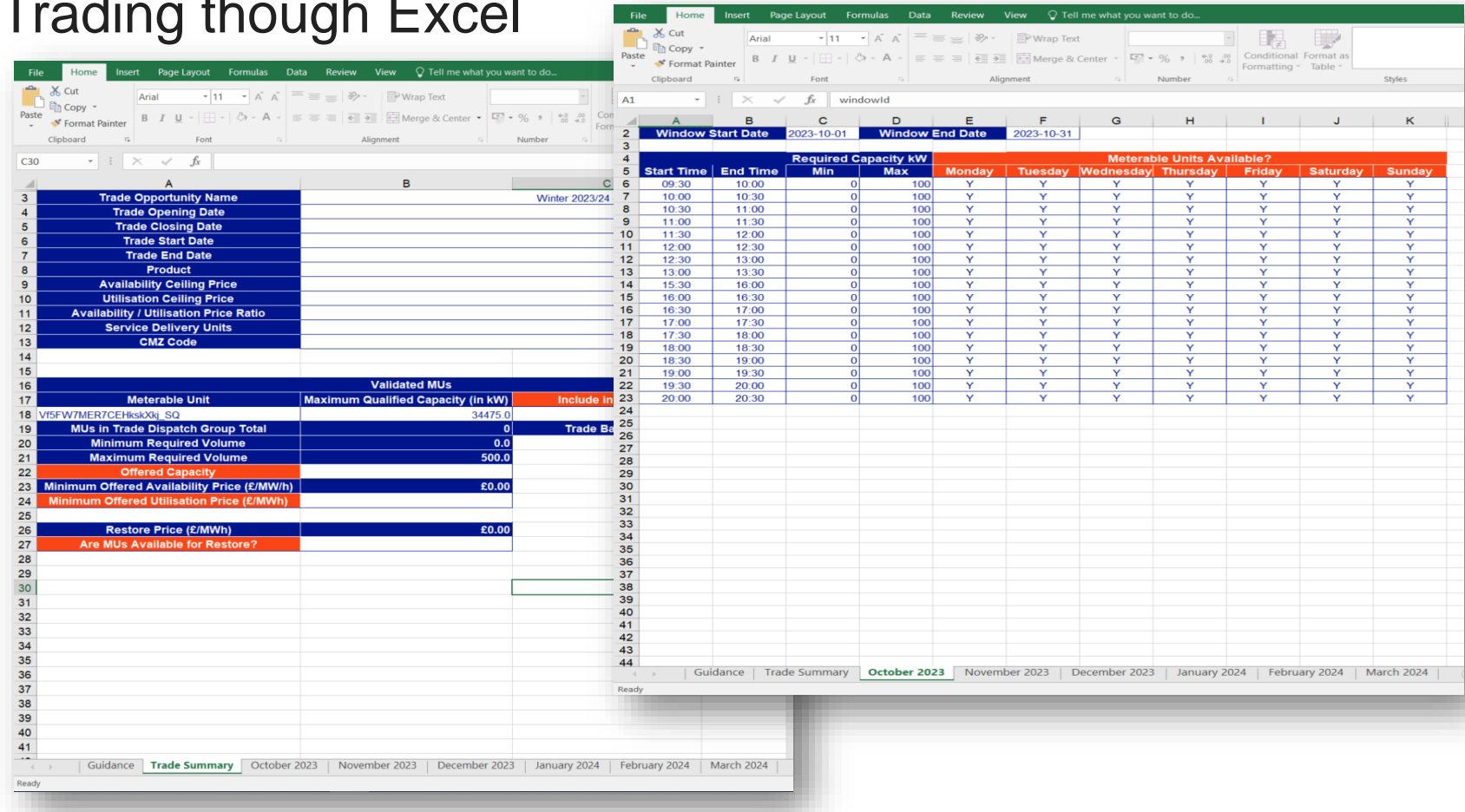
The spreadsheet also shows a navigation bar at the bottom with tabs for Guidance, Trade Summary, and months from October 2023 to March 2024.

Trade Responses

We are still developing Trade functionality on the Market Gateway, until that is complete we will facilitate Trading through Excel

Partial manual process to accommodate Trades and Trade Awards

- Pre-populated with your MU data from Market Gateway.
- Emailed to MG Users post MU creation.
- A spreadsheet to complete for each HV Zone.
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The screenshot shows two Excel spreadsheets. The left spreadsheet details trade opportunity information, and the right spreadsheet shows a capacity availability table for October 2023.

Trade Opportunity Name		Winter 2023/24	
3	Trade Opportunity Name	Winter 2023/24	
4	Trade Opening Date		
5	Trade Closing Date		
6	Trade Start Date		
7	Trade End Date		
8	Product		
9	Availability Ceiling Price		
10	Utilisation Ceiling Price		
11	Availability / Utilisation Price Ratio		
12	Service Delivery Units		
13	CMZ Code		
14			
15			
16	Validated MUs		
17	Meterable Unit	Maximum Qualified Capacity (in kW)	Include in
18	V15FW7MER7CEHkSkXkj SQ	34475.0	Trade Ba
19	MUs in Trade Dispatch Group Total	0	
20	Minimum Required Volume	0.0	
21	Maximum Required Volume	500.0	
22	Offered Capacity		
23	Minimum Offered Availability Price (£/MWh)	£0.00	
24	Minimum Offered Utilisation Price (£/MWh)		
25			
26	Restore Price (£/MWh)	£0.00	
27	Are MUs Available for Restore?		
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			

Start Time	End Time	Required Capacity kW		Meterable Units Available?							
		Min	Max	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
6	09:30	10:00	0	100	Y	Y	Y	Y	Y	Y	Y
7	10:00	10:30	0	100	Y	Y	Y	Y	Y	Y	Y
8	10:30	11:00	0	100	Y	Y	Y	Y	Y	Y	Y
9	11:00	11:30	0	100	Y	Y	Y	Y	Y	Y	Y
10	11:30	12:00	0	100	Y	Y	Y	Y	Y	Y	Y
11	12:00	12:30	0	100	Y	Y	Y	Y	Y	Y	Y
12	12:30	13:00	0	100	Y	Y	Y	Y	Y	Y	Y
13	13:00	13:30	0	100	Y	Y	Y	Y	Y	Y	Y
14	15:30	16:00	0	100	Y	Y	Y	Y	Y	Y	Y
15	16:00	16:30	0	100	Y	Y	Y	Y	Y	Y	Y
16	16:30	17:00	0	100	Y	Y	Y	Y	Y	Y	Y
17	17:00	17:30	0	100	Y	Y	Y	Y	Y	Y	Y
18	17:30	18:00	0	100	Y	Y	Y	Y	Y	Y	Y
19	18:00	18:30	0	100	Y	Y	Y	Y	Y	Y	Y
20	18:30	19:00	0	100	Y	Y	Y	Y	Y	Y	Y
21	19:00	19:30	0	100	Y	Y	Y	Y	Y	Y	Y
22	19:30	20:00	0	100	Y	Y	Y	Y	Y	Y	Y
23	20:00	20:30	0	100	Y	Y	Y	Y	Y	Y	Y

Trade Responses

We are still developing Trade functionality on the Market Gateway, until that is complete we will facilitate Trading through Excel

Trade Opportunity														Trade Response			Related Parameters
Trade Opportunity Name	CMZ Code	Trade Opening Date	Trade Closing Date	Trade Start Date	Trade End Date	Product	Relevant Days of week	PM Delivery Period Start Time	PM Delivery Period End Time	Minimum Required Volume	Maximum Required Volume	Service Delivery Units	Ceiling Price per Delivery Period	Minimum Offered Price	Available in PM Delivery Period?	Offered Capacity	Maximum Qualified Capacity
Dec 2023 - Feb 2024 - Sustain - 894272 Toadmoor Kiosk,Ambergate	CMZ_LV_T7A_EM_894272	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	236.0	354.0	kW	£6.40				3.0
Dec 2023 - Feb 2024 - Sustain - 925049 Raunds Hill Street	CMZ_LV_T7A_EM_925049	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	27.0	40.5	kW	£55.94				3.0
Dec 2023 - Feb 2024 - Sustain - 925244 Hove Rd.	CMZ_LV_T7A_EM_925244	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	21.0	31.5	kW	£71.92				3.0
Dec 2023 - Feb 2024 - Sustain - 933677 Patterdale	CMZ_LV_T7A_EM_933677	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	340.0	510.0	kW	£5.55				3.0
Dec 2023 - Feb 2024 - Sustain - 941064 Glebe Estate Brackley	CMZ_LV_T7A_EM_941064	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	74.0	111.0	kW	£20.41				3.0
Dec 2023 - Feb 2024 - Sustain - 552257 Spring Bank Abertillery	CMZ_LV_T7A_SWA_552257	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	26.0	39.0	kW	£72.61				3.0
Dec 2023 - Feb 2024 - Sustain - 731073 81 High Street - Albrighton	CMZ_LV_T7A_WM_731073	30/10/2023	19/11/2023	04/12/2023	01/03/2024	Sustain	Mon, Tue, Wed, Thu, Fri	16:00	20:00	15.0	22.5	kW	£100.68				3.0

- A combined spreadsheet to complete for all Sustain Zones.

Trade Awards

Our Trade Window is open for six weeks, from 15th January

We will communicate successful Trades four weeks post Trade Response Deadline

Trades Awards will include;

- The awarded MUs
- The awarded price
- The awarded Availability/Utilisation windows

Award data is linked automatically to the operational Portal – no week ahead declarations.

Operation post award – Dispatch & Settlement

Following the Award of an Overarching Contract, we provide all participants with access to our operational Portal, Flexible Power. The Portal facilitates;

Trade Windows

- Trade Award windows populated ahead of delivery

Operation

- Receive stop/start signals
- Submit event metering through API or upload

Settlement

- View performance and earning statements
- View and approve monthly invoices

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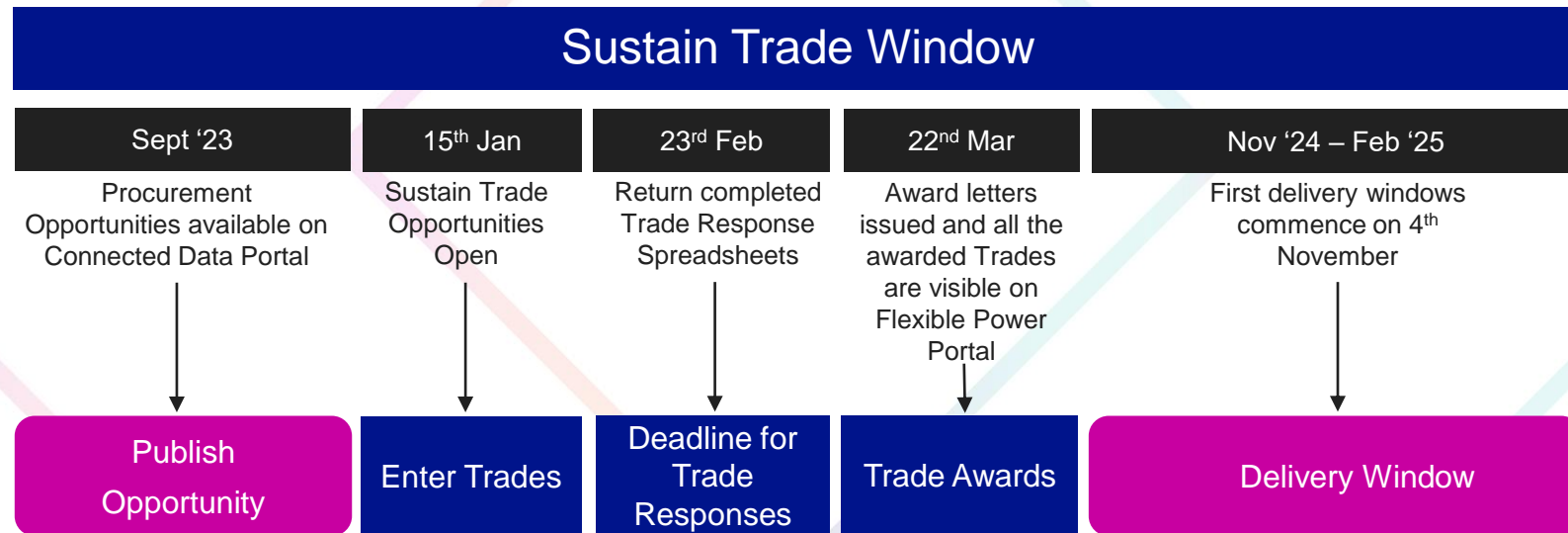
Information & Help

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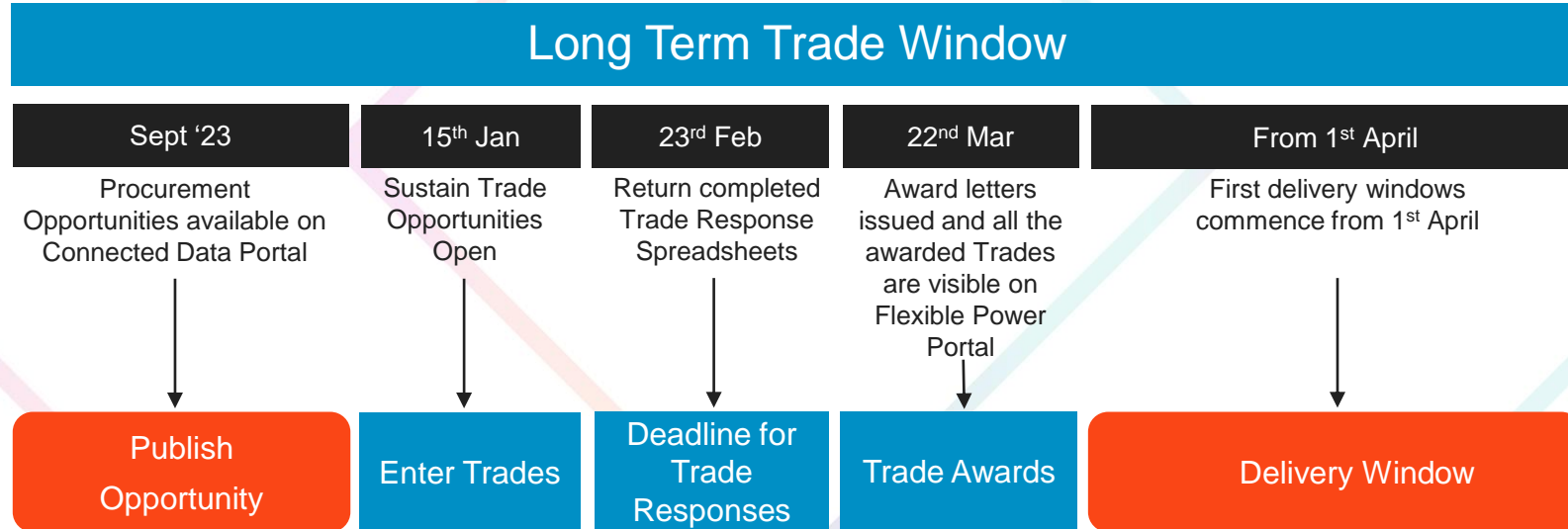
Key Dates

Low Voltage Sustain Trades Procurement Timeline



Key Dates

High Voltage Long Term Trades Procurement Timeline



Further help & guidance is available

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Market Gateway

- [Market Gateway](#)
- [User Guide](#)
- [FAQ's](#)

 **Flexible Power**
Portal

- [Flexible Power Portal](#)
- [Flexible Power Portal API documentation](#)
- [FAQ's](#)

 **Connected Data Portal**

- [Flexibility – Requirements](#)
- [Trades Data and Results](#)

 **Flexible Power**
Website

- [Guidance document](#)
- [Flex procurement End to End Process Map](#)
- [Procurement and Engagement timetable](#)
- [Tools and Documents](#)

Future Opportunities

Short Term HV

Continue to trade Short Term Trades every week in line with published requirements

Long Term HV

Trades open now until 23rd Feb and will be open annually

LV Sustain

Trades open now until 23rd Feb and will be open annually

We'll continue to publish opportunities on National Grid's [Connected Data Portal](#)

Continued Engagement

Keeping you up to date and informed on developments and opportunities

Our Procurement and Engagement Timetable is published [here](#) which includes upcoming events

Join our [mailing list](#)

Annual Stakeholder Consultation



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Q&A

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Thank You

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