



## Service Description Report

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**FUSION**

## Executive Summary

This report is a collaborative piece of work between Project FUSION and Project TRANSITION as part of the Joint Work Agreement. The report builds on the recently published “Flexibility Services Agreement<sup>1</sup>” by the ON-P in addition to the reports and ongoing work which form the Joint Work Agreement. It iterates the template for service description to define the requirements for all services being considered during the projects FUSION and TRANSITION trials. These Services are summarised in the table below.

*Services being considered for trialling during TEF projects*

Generic Services	Specific Services		
	TRANSITION	EFFS	FUSION
Sustain (DSO Service)	<ul style="list-style-type: none"> <li>Sustain Peak Management</li> <li>Sustain Peak Management Reactive</li> </ul>	<ul style="list-style-type: none"> <li>Sustain</li> </ul>	<ul style="list-style-type: none"> <li>Sustain Peak Management</li> <li>Sustain Peak Management Reactive</li> </ul>
Secure (DSO Service)	<ul style="list-style-type: none"> <li>Secure DSO Constraint Management (Pre-Fault)</li> </ul>	<ul style="list-style-type: none"> <li>Secure</li> </ul>	<ul style="list-style-type: none"> <li>Secure DSO Constraint Management (Pre-Fault)</li> <li>Secure Reactive Power</li> </ul>
Dynamic (DSO Service)	<ul style="list-style-type: none"> <li>Dynamic DSO Constraint Management (Post-Fault)</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>Dynamic DSO Constraint Management (Post-Fault)</li> <li>Dynamic Reactive Power</li> </ul>
Restore (DSO Service)	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>Restore Distributed ReStart</li> </ul>
Trading Services	<ul style="list-style-type: none"> <li>Offsetting</li> <li>Exceeding MIC / MEC</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>
Risk Management Services	<ul style="list-style-type: none"> <li>Short-Term Operating Reserve (STOR)</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>

<sup>1</sup> [https://www.energynetworks.org/assets/files/electricity/futures/Open\\_Networks/ONP-WS1A%20-%20Standard%20Flexibility%20Services%20Agreement%20-%20Final%20V1.1%20PUBLISHED.pdf](https://www.energynetworks.org/assets/files/electricity/futures/Open_Networks/ONP-WS1A%20-%20Standard%20Flexibility%20Services%20Agreement%20-%20Final%20V1.1%20PUBLISHED.pdf)

The report develops service descriptions for the services in the table below and categorises them using the service categories defined in the “Product Catalogue Report” developed through the Joint Work Agreement (Product Catalogue<sup>2</sup>). The generic services are; Sustain, Secure, Dynamic, Restore, Trading Services and Risk Management Services.

Service descriptions have been developed for the ten TRANSITION and FUSION services in the table above. The service descriptions align with and improve the service descriptions in Schedule 1 in the ON-P FSA and are intended to be included in the FSA to define services, replacing the current Schedule 1. The service description terms in the below table are used to describe the services above in Appendix 2.

*Service Description Terms (alphabetically ordered)*

Service Description Terms				
Aggregation	Availability Status	Baseline	Baseline Methodology	Contract End Date
Contract Start Date	Contracted Response Time	Contracted Service Capacity	Contracted Service Maximum Run Time	Contracted Service Minimum Run Time
Contracted Service Recovery Time	Flexibility Service	Location of DER	Maximum Utilisations	Pre-qualification Requirements
Purpose of Flexibility Service	Ramp Down Time	Ramp Up Time	Re-Bound Effect	Re-dispatch
Scaling Factor	Service Period	Service Stacking	Service Window	Settlement Period
Zone				

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<sup>2</sup> Product Catalogue is a report which has been developed as part of this FUSION and TRANSITION Joint Work Agreement as identified in Section 0.

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## Introduction

The Energy Networks Association (ENA) Open Network Project (ON-P) Flexibility Services Agreement (FSA)<sup>3</sup> and the standardisation of Distribution System Operator (DSO) Services (Sustain, Secure, Dynamic, Restore and Non-DSO Services) will reduce the barriers to entry and increase the level of flexibility available to deliver services to DSOs. There is an opportunity for ON-P to consider alignment and standardisation of services in the flexibility market to further reduce barriers to entry, facilitate cross-market trading which may increase the flexibility available and promote competition. All of these are vital to achieving a commoditised GB flexibility marketplace and achieving Net Zero.

A series of short reports have been jointly procured by FUSION and TRANSITION (unique for two Network Innovation Competition projects) that engages with EFFS which build on work already published by ON-P. The reports are aimed to inform the development of ON-P work, particularly in relation to flexibility services and creating a commoditised GB flexibility marketplace.

The reports focus on the following activities:

- **Product Catalogue** – to review the range of services that could exist in a facilitated market, across TRANSITION, EFFS and FUSION (TEF) and ON-P which will form the basis for standardisation of defining services and service categories across the industry;
- **Service Definitions** – to develop a template for defining services and apply this to services being considered by FUSION and TRANSITION and present to the ON-P for consideration in the FSA template;
- **Service Use Cases** – to develop a standardised use case template (consistent with work on EFFS), apply this to services to be delivered by FUSION and TRANSITION ;
- **Common Terminology** – to review service definitions terminology used across the industry and propose a standardised reference source;
- **TEF Service Alignment** – to review the objectives and proposed trials of the TEF Projects and determine how the projects can work collaboratively to maximise the learnings and advancement of ON-P;

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<sup>3</sup> [https://www.energynetworks.org/assets/files/electricity/futures/Open\\_Networks/ONP-WS1A%20-%20Standard%20Flexibility%20Services%20Agreement%20-%20Final%20V1.1%20PUBLISHED.pdf](https://www.energynetworks.org/assets/files/electricity/futures/Open_Networks/ONP-WS1A%20-%20Standard%20Flexibility%20Services%20Agreement%20-%20Final%20V1.1%20PUBLISHED.pdf)

This report focuses on service descriptions for the services considered for trial in the TEF projects and its outputs will be formally presented to the ON-P by FUSION and TRANSITION. The report considers the following areas;

- Flexible Services: identifies work undertaken for FUSION and TRANSITION on service descriptions to date;
- TEF Services: identifies the services being considered for trial under the TEF Projects with a focus on FUSION and TRANSITION;
- Service Template: identifies the iteration of the service descriptions for FUSION and TRANSITION and presents the service description template, consistent with the FSA;
- Conclusion and Future Work: identifies potential future work to advance the use case template and identified use cases;
- Appendix 1 - provides template for all services; and
- Appendix 2 – provides the service descriptions for the services beings considered within FUSION and TRANSITION.

## Flexibility Services

The FSA recently published by the ON-P complements the active power branding released during 2019. These are some of the first steps in creating standardisation across a growing flexibility market, vitally important in providing clarity and transparency but also for increasing competition through reducing barriers to entry. Competition will be further enhanced through standardisation of terminology across the Electricity System Operator (ESO) services, DSO services and the nascent peer-to-peer (P2P) services market (addressed in the Common Terminology Report submitted under the Joint Work Agreement). The main focus of this report is to consider how service descriptions can be developed in line with the FSA and standardised across the market.

Prior to the publication of the FSA, the FUSION and TRANSITION projects developed service descriptions to inform the project flexibility service trials. The work developed in these projects has informed the work undertaken in this report. The subsections below present an overview of previous work undertaken by each project, in chronological order, which has been developed and iterated since to derive the project status to date<sup>4</sup>.

### 1.1 TRANSITION Services in a Facilitated Market Report

The TRANSITION report 'Services in a Facilitated Market'<sup>5</sup> identified five services to be trialled under TRANSITION (at the time of the report) and developed initial service descriptions for each<sup>6</sup>. The service descriptions provided a high-level overview of each service, identifying the involved parties and creating a template for service requirements.

### 1.2 FUSION USEF Implementation Plan

FUSION further developed the TRANSITION<sup>5</sup> service description template during development of the USEF Implementation Plan report<sup>7</sup>. The service template was iterated and expanded to include specific terms to address the Universal Smart Energy Framework (USEF)<sup>8</sup> protocols and the USEF phases:

- Contract Phase - defining the flexibility service;

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<sup>4</sup> The services detailed in the subsections 1.1 and 1.2 do not represent the current services being considered by the projects that are detailed in section 0.

<sup>5</sup> <https://ssen-transition.com/wp-content/uploads/2019/08/TRANSITION-Task-4.5-Services-in-a-Facilitated-Market-v3.0.pdf>

<sup>6</sup> The Capacity Management service was divided into two; DSO Constraint Management (pre-fault); Secure and DSO Constraint Management (post-fault); Dynamic

<sup>7</sup> [https://www.spenergynetworks.co.uk/userfiles/file/FUSION\\_USEF\\_Implementation\\_Plan.pdf](https://www.spenergynetworks.co.uk/userfiles/file/FUSION_USEF_Implementation_Plan.pdf)

<sup>8</sup> <https://www.usef.energy/flexibility/>

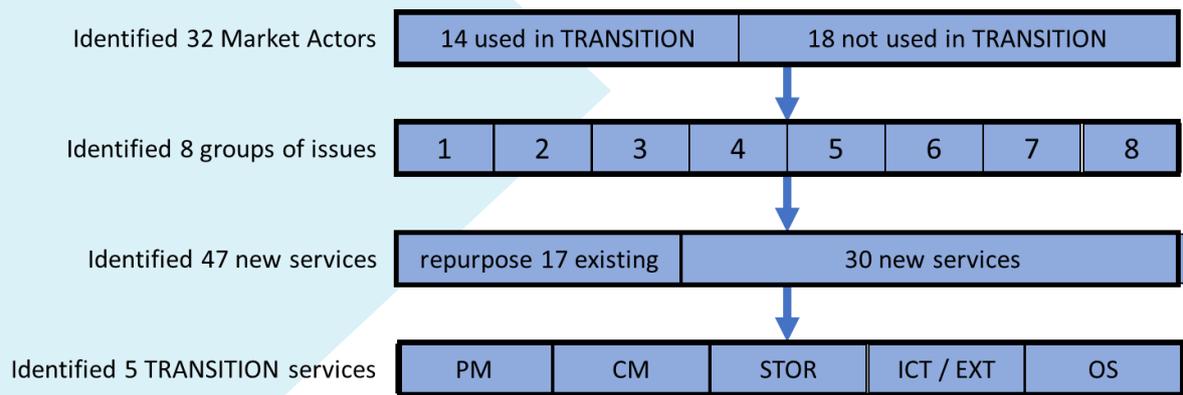
- Plan Phase - defining the congestion location and need;
- Validate Phase - defining and running the auction process to contract with flexibility;
- Operate Phase - the activation and delivery of flexibility; and
- Settle Phase - the proof of flexibility delivery and settlement.

The iterated service description template was applied to the services being considered by FUSION at the time of the report, see below<sup>9</sup>:

- Scheduled Peak Management.
- Post-Fault Constraint Management.

### 1.3 TRANSITION Use Case Report

The TRANSITION report 'Use Cases and Services to be Trialled – Phase-1'<sup>10</sup> developed aspects of the service template in redefining the service descriptions and summarises the process used to identify the services to be trialled by TRANSITION in the report (see Figure 1).



PM = Peak Management; CM = Capacity Management; STOR = Short Term Operating Reserve;  
ICT = Import Capacity Trading; EXT = Export Capacity Trading; OS = Offsetting;

Figure 1: Summary of the process used to identify the five services to be trialled by TRANSITION - taken from the TRANSITION use case report<sup>10</sup>.

<sup>9</sup> [https://www.spenergynetworks.co.uk/userfiles/file/FUSION\\_USEF\\_Implementation\\_Plan.pdf](https://www.spenergynetworks.co.uk/userfiles/file/FUSION_USEF_Implementation_Plan.pdf)

<sup>10</sup> <https://ssen-transition.com/wp-content/uploads/2020/05/Use-Cases-and-Services-to-be-Trialled-ase-1.pdf>

## TEF Services

The ON-P is leading the transition of the DNO to DSO that will transform the way GB energy networks operate, underpinning the delivery of the smart grid and facilitating the delivery of Net Zero. As part of the ON-P scope, it is developing the way flexibility services are defined and standardised for the DNOs under Workstream 1A – Flexibility Services (WS1A<sup>11</sup>). The objectives of WS1A include “standardising of processes and methodologies for flexibility procurement across network and system operators” and “providing clear information on current and future system needs” (as requested under Ofgem’s Open Letter to ON-P<sup>12</sup>). WS1A defines the service developments to date, including new DSO Services to be developed as the project progresses (WS1A - Products 3 and 5) and potential Non-DSO Service categories (WS1A - Product 6). The work undertaken by ON-P has led to standardisation of services across DNOs and will inform the development of future services for utilisation by DSOs. This has culminated in the development, publication and (by the end of 2020) adoption of the FSA as the de facto flexibility agreement for procuring DSO flexibility services.

The TEF projects have adopted the work undertaken by the ON-P and are continuing to develop and iterate the service descriptions to drive a fit-for-purpose and standardised template across the DNOs. This report focusses on the services being considered to be trialled under FUSION and TRANSITION and identifies how these services have been iterated from the work represented in Section 0 - Flexibility Services.

The services being considered by the two projects were compared to the ON-P active power services in the Product Catalogue<sup>13</sup> report. The Product Catalogue report took the service descriptions developed by ON-P and developed these into industry wide service categories based on service need. The developed categories align with the ON-P descriptions and are presented below:

- **Sustain:** The scheduled delivery of flexibility to mitigate against a forecast requirement or need;
- **Secure:** The scheduled real-time delivery of flexibility to mitigate against an actual requirement or need based on system conditions;

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<sup>11</sup><https://www.energynetworks.org/electricity/futures/open-networks-project/workstream-products-2020/ws1a-flexibility-services.html>

<sup>12</sup>[https://www.ofgem.gov.uk/system/files/docs/2019/07/ofgem-beis\\_joint\\_open\\_letter\\_to\\_the\\_ena\\_open\\_networks\\_project.pdf](https://www.ofgem.gov.uk/system/files/docs/2019/07/ofgem-beis_joint_open_letter_to_the_ena_open_networks_project.pdf)

<sup>13</sup> Deliverable 1 under the Joint Work Agreement with FUSION and TRANSITION and referenced in the introduction.

- **Dynamic:** The delivery of flexibility to recover from / respond to an incident driven requirement or need.
- **Restore:** Support the restoration of the network or system following a planned or unplanned outage;
- **Trading Services<sup>14</sup>:** Trading and / or sharing of energy, capacity, financial instruments and other commercial obligations for mutual benefit; and
- **Risk Management Services<sup>15</sup>:** Mitigating or reducing the effect of uncertainty on objectives, usually provided by financial or insurance products.

The work under the Product Catalogue and work undertaken in the projects led to the iteration of the services in the Use Case report<sup>16</sup>. The services for the TEF projects are shown in Table 1.

Table 1: Services being considered for trialling during TEF projects

Generic Services	Specific Services		
	TRANSITION	EFFS	FUSION
Sustain (DSO Service)	<ul style="list-style-type: none"> <li>▪ Sustain Peak Management</li> <li>▪ Sustain Peak Management Reactive</li> </ul>	<ul style="list-style-type: none"> <li>▪ Sustain</li> </ul>	<ul style="list-style-type: none"> <li>▪ Sustain Peak Management</li> <li>▪ Sustain Peak Management Reactive</li> </ul>
Secure (DSO Service)	<ul style="list-style-type: none"> <li>▪ Secure DSO Constraint Management (Pre-Fault)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Secure</li> </ul>	<ul style="list-style-type: none"> <li>▪ Secure DSO Constraint Management (Pre-Fault)</li> <li>▪ Secure Reactive Power</li> </ul>

<sup>14</sup> Trading Services were identified to address the services of parties outside of the license obligations and is typically undertaken to manage a position or need, e.g. trading maximum import / export capacity occurs on a P2P basis when one party needs more capacity when it is not being utilised to another party for financial gain.

<sup>15</sup> Risk Management Services were identified to address services that reduce the risk of one market actor, e.g. ensuring a market actor has a balanced position between purchases and sales prior to Gate Closure to avoid or mitigate imbalance penalties.

<sup>16</sup> Deliverable 2 under the Joint Work Agreement with FUSION and TRANSITION and referenced in the introduction.

Generic Services	Specific Services		
	TRANSITION	EFFS	FUSION
Dynamic (DSO Service)	<ul style="list-style-type: none"> <li>Dynamic DSO Constraint Management (Post-Fault)</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Dynamic DSO Constraint Management (Post-Fault)</li> <li>Dynamic Reactive Power</li> </ul>
Restore (DSO Service)	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Restore Distributed ReStart</li> </ul>
Trading Services	<ul style="list-style-type: none"> <li>Offsetting</li> <li>Exceeding MIC / MEC</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>
Risk Management Services	<ul style="list-style-type: none"> <li>Short-Term Operating Reserve (STOR)</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>	<ul style="list-style-type: none"> <li>N / A</li> </ul>

The above services have been developed in this report to the iterated service description template as detailed in Section 0 – Service Template.

## Service Template

The service description template presented in Appendix 2 – Service Descriptions has been developed from the TRANSITION and FUSION templates (detailed in Section 0) and has been further iterated to align with the FSA (Schedule 1, Service Description). The template details the service requirements and the service specific contract information to present a consistent format that enables stakeholder transparency. Table 2 provides the terms (in the same order as Appendix 2) from the template and the definitions.

Table 2: Service Description Terms and definitions

Term	Definition
Aggregation	the ability to deliver Flexibility Service from a portfolio of one or more DERs (within a specific geographic area)
Availability Status	the status of the DER being either available or unavailable to provide a flexibility service
Baseline <sup>1</sup>	the forecast of the Contracted Service Capacity submitted prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity; USEF uses the forecast provided as part of the D-prognosis process
Baseline Methodology <sup>2</sup>	method for determining the Flexibility delivered by a DER, the metered data compared to the baseline; USEF refers to this as D-prognosis
Contract End Date	the date specified in the Flexibility Services Agreement as the date the contract ends
Contract Start Date	the date specified in the Flexibility Services Agreement as the date the contract starts
Contracted Response Time	the maximum time for a DER to start delivering the Contracted Service Capacity. The Contracted Response Time is inclusive of the ramp up time
Contracted Service Capacity	the capacity of a DER that can be used to deliver a Flexibility Service during a Service Window (subject to the Availability Status)
Contracted Service Maximum Run Time	the maximum duration for the delivery of a Flexibility Service
Contracted Service Minimum Run Time	the minimum duration for the delivery of a Flexibility Service
Contracted Service Recovery Time	the period after the Ramp Down Time / the delivery of a flexible service and before the DER can be used to deliver the Flexibility Service.
Flexibility Service	a service that delivers Flexibility from a DER within a Zone
Location of DER	DER located within the area supplied from the Zone

Term	Definition
Maximum Utilisations	maximum number of uses of a DER to deliver a Flexibility Service over a given period
Pre-qualification Requirements	the requirements on the Provider to qualify for the delivery of the Flexibility Service
Purpose of Flexibility Service	summary of the Flexibility Service requirement
Ramp Down Time	the time for the DER to remove the Contracted Service Capacity at the end of the service run time
Ramp Up Time	the time for the DER to deliver the Contracted Service Capacity at the start of the service run time
Re-Bound Effect	a load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources and can occur outside the Zone
Re-dispatch	an action that neutralises the effect of a flexibility dispatch instruction within the constrained area within the Zone
Scaling Factor	the [increase or reduction] of the Service Meter Data for the delivery of a Flexibility Service based on the location of the DER relative to the Zone
Service Period	period in months during which a DER should deliver a Flexibility Service if Utilisation Instruction is received
Service Stacking	the ability to use a DER to deliver more than one flexibility service within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service
Service Window	the days and hours within the Service Period during which a DER should deliver a Flexibility Service if Utilisation Instruction is received
Settlement Period	a period of 30 minutes beginning on the hour or the half-hour
Zone	the location where the Flexibility Service is required to mitigate the identified Constraint on the Distribution Network

The ten distinct services, shown in Table 1, being considered under projects FUSION and TRANSITION are presented in Appendix 2 – Service Descriptions using the terms in Table 2:

- Service Description 1 – Restore Distributed ReStart
- Service Description 2 - Secure DSO Constraint Management (pre-fault)
- Service Description 3 - Dynamic DSO Constraint Management (post-fault)
- Service Description 4 – Exceeding MIC / MEC (Trading Services)

- Service Description 5 – Offsetting (Trading Services)
- Service Description 6 – Sustain Peak Management
- Service Description 7 – Sustain Peak Management Reactive
- Service Description 8 – Secure Reactive Power
- Service Description 9 – Dynamic Reactive Power
- Service Description 10 – Short Term Operating Reserve (Risk Management Services)

Additional services may be developed as trial planning for TRANSITION and FUSION progresses.

## Conclusions and Future Work

### 1.4 Conclusion

Standardised service descriptions are critical for the development of a commoditised flexibility marketplace and, together with standardised services and commercial contracts, will reduce barriers to entry, increase participation and increase competition.

This report, undertaken on behalf of TRANSITION and FUSION projects, has defined a service description template using terminology consistent with the FSA. Both projects plan to use the template to describe the services being considered by TRANSITION and FUSION.

The output of this report will be presented to ON-P and then further developed based on feedback provided to ensure it advances the latest ON-P thinking.

### 1.5 Future Work

The key areas that can be developed further include:

- **Review the Peer to Peer (P2P) services** to ensure they are consistent with the P2P FSA being developed by TRANSITION;
- **Identify additional services** for the four ON-P's principle service categories (Sustain, Secure, Dynamic, Restore);
- **Refinement of the service description template** for use in future projects / trials to aid market interaction;
- **Further Develop** the service descriptions and identify additional service terms which are required **as TRANSITION and FUSION progress**.

## Appendix 1 – Service Overview

Service to be Trialled	Summary of Service
<b>Restore Distributed ReStart</b>	A service to provide the ESO or DSO with planned generation support in order to create / support an electrical island and subsequently re-synchronise with the wider interconnected system to restore the network following a system or local blackout
<b>Secure DSO Constraint Management (pre-fault)</b>	A service to provide the DSO with an immediate reduction in demand or increase in generation during a planned outage of one or more critical assets / in the event of network disturbances to maintain security standards and avoid any customer minutes lost.
<b>Dynamic DSO Constraint Management (post-fault)</b>	A service to provide the DSO with an immediate reduction in demand or increase in generation following an unplanned outage of one or more critical assets to maintain security standards and avoid any customer minutes lost.
<b>Exceeding MIC / MEC</b>	A service where one Market Actor within a constrained area can increase the level of export or import at one of its MPANs through purchasing excess Authorised Supply Capacity for a period of time from another Market Actor in the same constrained area.
<b>Offsetting</b>	A service where one Market Actor in a constrained area agrees to increase its demand ahead of another Market Actor in the same constrained area increasing its generation by the same amount, all with appropriate fail-safe mechanisms.
<b>Sustain Peak Management</b>	A service to provide the DSO with a planned reduction in demand or increase in generation in advance of a forecast capacity constraints at peak time, e.g. to reduce the loading on a transformer during winter tea-time peak.
<b>Sustain Peak Management Reactive</b>	A service to provide the DSO with a planned reduction in demand or increase in generation in advance of a forecast capacity constraints at peak time, e.g. to reduce the loading on a transformer during winter tea-time peak.
<b>Secure Reactive Power</b>	A service to provide the DSO with an immediate or planned injection or consumption of reactive power following a change in system voltage which could result in a voltage event or breach of statutory limits in order to stabilise the voltage and maintain it within statutory limits.
<b>Dynamic Reactive Power</b>	A service to provide the DSO with an immediate injection or consumption of reactive power following a system voltage event in order to stabilise the voltage and return it within statutory limits.
<b>Restore Short-Term Operating Reserve (STOR)</b>	A service to provide the ESO with a planned reduction in demand or increase in generation in advance of a forecast system imbalance, e.g. to increase the margin of generation over demand following unplanned outages of generation at winter tea-time peak.

## Appendix 2 – Service Descriptions

### Restore Distributed ReStart<sup>17</sup>

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Restore Distributed ReStart	n/a
Purpose of Flexibility Service	To provide the Company with planned generation in order to create, or planned generation increase / demand decrease in order to support, an electrical island to restore customer supply and subsequently re-synchronise with the wider interconnected system to restore the network following a system or local blackout	n/a
Location of DER	<p>[Location of the DER]</p> <p>DER located within the area supplied from the Zone. To identify the potential benefits of a provider the following needs to be considered:</p> <ul style="list-style-type: none"> <li>Location – proximity of other stations and Black Start providers;</li> <li>Connectivity – location on the network and number of circuits;</li> <li>High block loading and charging capabilities.</li> </ul>	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kW and / or [XXXX] kVAr that the Provider commits to provide to the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO

<sup>17</sup> All information contained within square brackets [ ] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

<sup>18</sup> Indicates the party responsible for the initial population of the respective term (where applicable).

Proposed Title	Item	Initiating Party <sup>18</sup>
Baseline1	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [XXXX] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO

Proposed Title	Item	Initiating Party <sup>18</sup>
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Secure DSO Constraint Management (Pre-Fault)<sup>19</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Secure DSO Constraint Management (Pre-Fault)	n/a
Purpose of Flexibility Service	To provide the Company with an immediate reduction in demand or increase in generation during a planned outage of one or more critical assets or in the event of network disturbances to maintain security standards and avoid any customer minutes lost.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kW that the Provider commits to provide to the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline <sup>1</sup>	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider

<sup>19</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [XXXX] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Dynamic DSO Constraint Management (Post-Fault)<sup>20</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Dynamic DSO Constraint Management (Post-Fault)	n/a
Purpose of Flexibility Service	To provide the Company with an immediate reduction in demand or increase in generation following an unplanned outage of one or more critical assets to maintain security standards and avoid any customer minutes lost.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kW that the Provider commits to provide to the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline <sup>1</sup>	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO

<sup>20</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [30] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Exceeding MIC / MEC<sup>21</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Exceeding Maximum Import / Export Capacity (Trading Service)	n/a
Purpose of Flexibility Service	A service where one Market Actor (Buyer) within a constrained area can increase the level of export or import at one of its MPANs through purchasing excess Authorised Supply Capacity for a period of time from another Market Actor (Seller) in the same constrained area.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kW that the Provider commits to increase or reduce its Maximum Import / Export Capacity in agreement with the other participating Market Actor(s) and approved by the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	N/A	DSO
Baseline 1	N/A	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider

<sup>21</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The change in Maximum Import / Export Capacity will commence during the Service Window as approved by the Company (subject to the Availability Status).	DSO
Contracted Service Minimum Run Time	The change in Maximum Import / Export Capacity will apply during the Service Window in full.	DSO
Contracted Service Maximum Run Time	The change in Maximum Import / Export Capacity will apply within the Service Window only.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Offsetting<sup>22</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Offsetting (Trading Service)	n/a
Purpose of Flexibility Service	A service where one Market Actor in a constrained area agrees to increase its demand ahead of another Market Actor in the same constrained area increasing its generation by the same amount, all with appropriate fail safe mechanisms.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kW that the Provider commits to increase or reduce its import / export in agreement with the other participating Market Actor(s) and approved by the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	N/A	DSO
Baseline 1	N/A	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider

<sup>22</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The change in import / export will be coordinated between all the participating Market Actors during the Service Window as approved by the Company (subject to the Availability Status).	DSO
Contracted Service Minimum Run Time	The minimum delivery duration for the Flexibility Service will be coordinated between all the participating Market Actors.	DSO
Contracted Service Maximum Run Time	The maximum delivery duration for the Flexibility Service will be coordinated between the participating Market Actors and apply within the Service Window only.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Sustain Peak Management<sup>23</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Sustain Peak Management	n/a
Purpose of Flexibility Service	To provide the Company with a planned reduction in demand or increase in generation in advance of a forecast capacity constraints at peak time, e.g. to reduce the loading on a transformer during winter tea-time peak.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kW that the Provider commits to provide to the Company during the Service Windows (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline <sup>1</sup>	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO

<sup>23</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [60] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Sustain Peak Management Reactive<sup>24</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Sustain Peak Management Reactive	n/a
Purpose of Flexibility Service	To provide the Company with a planned reduction in demand or increase in generation in advance of a forecast capacity constraints at peak time, e.g. to reduce the loading on a transformer during winter tea-time peak.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kVAr that the Provider commits to provide to the Company during the Service Windows (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline <sup>1</sup>	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO

<sup>24</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [60] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Secure Reactive Power<sup>25</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Secure Reactive Power	n/a
Purpose of Flexibility Service	A service to provide the DSO with an immediate or planned injection or consumption of reactive power following a change in system voltage which could result in a voltage event or breach of statutory limits in order to stabilise the voltage and maintain it within statutory limits.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kVAr that the Provider commits to provide to the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline <sup>1</sup>	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO

<sup>25</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [30] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**Dynamic Reactive Power<sup>26</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Dynamic Reactive Power	n/a
Purpose of Flexibility Service	To provide the Company with an immediate injection or consumption of reactive power following a system voltage event or fault in order to stabilise the voltage and return it within statutory limits.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kVAr that the Provider commits to provide to the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline <sup>1</sup>	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period, provided it does not interfere with the delivery of the Flexibility Service. [Service stacking is allowed / not allowed under this service agreement]	DSO

<sup>26</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [30] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

**STOR<sup>27</sup>**

Proposed Title	Item	Initiating Party <sup>18</sup>
Flexibility Service	Short-Term Operating Reserve (Risk Management Services)	n/a
Purpose of Flexibility Service	To provide the Company with a planned reduction in demand or increase in generation in advance of a forecast system imbalance, e.g. to increase the margin of generation over demand following unplanned outages of generation at winter tea-time peak.  Used as a tool / service to develop the conflict management between the Market Actors if the Flexibility Service is required during the window of other flexibility services.	n/a
Location of DER	[Location of the DER] DER located within the area supplied from the Zone.	Provider
Zone	The location where the Flexibility Service is required to mitigate the identified constraint.	DSO
Contract Start Date	[Day] [Month] [Year]	DSO
Contract End Date	[Day] [Month] [Year]	DSO
Service Window	[Hours in Day] [Days in Week] during the Service Period.	DSO
Service Period	[Months in Year]	DSO
Contracted Service Capacity	The capacity in [XXXX] kVAr that the Provider commits to provide to the Company during the Service Window (subject to the Availability Status).	Provider
Baseline Methodology <sup>2</sup>	The baseline methodology used in respect of each Settlement Period will be the metered data compared to the Baseline.	DSO
Baseline 1	The forecast of the Contracted Service Capacity submitted to the Company by the Provider prior to the Settlement Period of delivery of the Flexibility Service, allowing for any changes to the Availability Status and / or the Contracted Service Capacity.	Provider
Settlement Period	A period of 30 minutes beginning on the hour or the half-hour.	n/a

<sup>27</sup> All information contained within square brackets [-] is indicative and to be replaced with contracted values as determined for the Flexibility Service Agreement.

Proposed Title	Item	Initiating Party <sup>18</sup>
Service Stacking	The ability of the Provider to use a DER to deliver more than one flexibility services within the same Settlement Period. Interfere of other flexibility services with the delivery of the Flexibility Service to inform conflict management procedures. [Service stacking is allowed / not allowed under this service agreement]	DSO
Aggregation	Aggregation of DERs to provide the Contracted Service Capacity.	Provider
Availability Status	The status of the DER (Available or Unavailable).	Provider
Contracted Response Time	The flexibility service required activation within [30] minutes	DSO
Contracted Service Minimum Run Time	[XXXX] minutes duration, being the minimum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Contracted Service Maximum Run Time	[XXXX] minutes duration, being the maximum time between the Accepted Start Time and Accepted End Time, within the Service Window.	DSO
Ramp Down Time	[XXXX] being the time for the DER to remove the Contracted Service Capacity at the end of the service run time.	Provider
Ramp Up Time	[XXXX] being the time for the DER to deliver the Contracted Service Capacity at the start of the service run time	Provider
Contracted Service Recovery Time	The period after the Ramp Down Time before the DER can be used to deliver the Flexibility Service. For the avoidance of doubt, delivery of the Flexibility Service includes the Contracted Response Time.	DSO
Maximum Utilisations	Maximum of [XXXX] per [XXXX]-hour period for this Flexibility Service.	DSO
Re-dispatch	The mechanism used to neutralise the impact on the overall system balance which may occur when the Company issues a Utilisation Instruction and can occur outside the Zone.	DSO
Re-Bound Effect	A load reduction (or increase) triggered by a demand response event, that is compensated partly or fully outside the period between the Requested Start Time and Requested End Time of a Utilisation Instruction or by other resources within the Zone.	Provider
Pre-qualification Requirements	The Provider certifies that the DER has passed (or is capable of passing) all Proving Tests and Testing and Commissioning Tests.	DSO
Scaling Factor	The [increase or reduction] of the Service Meter Data based on the location of the DER relative to the Zone.	DSO

