

Appendix 6 - Services Market and Facilitation (March 2021)

Structure of the Appendix

This Appendix provides an initial overview of the Function, including the snapshot of the roadmap of the Function and some key statistics.

We then go through each activity and the unique steps that sit under the activity. With the term “unique” we indicate all Common Steps aggregated at organisation level, where possible, as well as steps which aggregate Individual Steps (see section 2.7.2 of the main document for reference).¹

We provide a summary table of each step which includes all the associated information as of the date of this publication. The fields of the table are explained below:

Step	Name of the step as included in the DSO Roadmap
Step type:	<i>Development / definition activity or network action or code change process or enabler/dependency.</i>
Description:	<i>Description of the step as included in the DSO Roadmap</i>
ENA ONP Product:	<i>Only relevant for steps which are associated to an ENA ONP Product.</i>
Timeline:	<i>Start date and completion date of the step. For aggregated steps, start date shows the earliest start date of the responses and completion date the latest completion date of the responses.</i>
Organisation type:	<i>Involved organisations who are responsible for delivering this step. If the step type is “Code change process”, then a delivery body which consists of a number of stakeholders (DNOs, Ofgem, TOs, ESO), is responsible for the code change process. In this case the step is allocated to the “Delivery body”.</i>
Progress:	<i>This field shows the number of organisations in each implementation level.</i>
Additional information:	<i>Additional information such as barriers, dependencies, good practices and links to public information is included in this field.</i>

Table 1 – Step table template, definition of the fields

Function 6

Function 6 – Services Market and Facilitation consists of 91 unique steps, some of which are common across DNOs, T.E.F. projects and TOs or duplicated across different activities of this function. We received in total 546 contributions by the involved stakeholders (i.e. 546 steps by all organisations, which were aggregated to 150 unique steps, where possible).

As of March 2021, Figure 1 shows that the roadmap of the “Services Market and Facilitation” Function will be completed by 2040. Please note that timescales are only relevant to steps that have been planned or being implemented by the involved organisations. There are no dates for steps that are at conceptual level, meaning that the organisations plan to implement the step, but they do not know the timescale of the implementation (please refer to section 2.7.3 of the main document for reference).

¹ If a step is relevant to the wider industry, it is called Common Step. A step which is required for individual organisation to implement DSO functionality is called Individual Step. Individual steps are aggregated into a single generic step combining all individual network actions and described only at a high-level, anonymised basis.

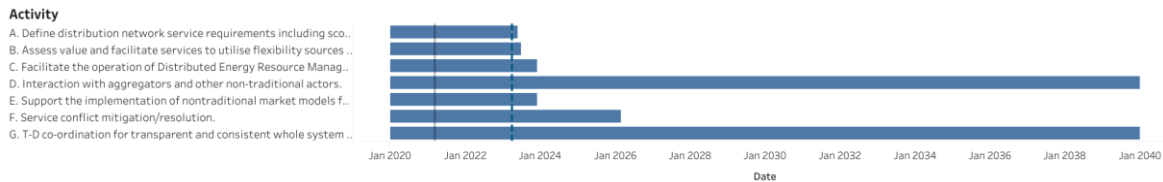


Figure 1 Services Market and Facilitation Roadmap

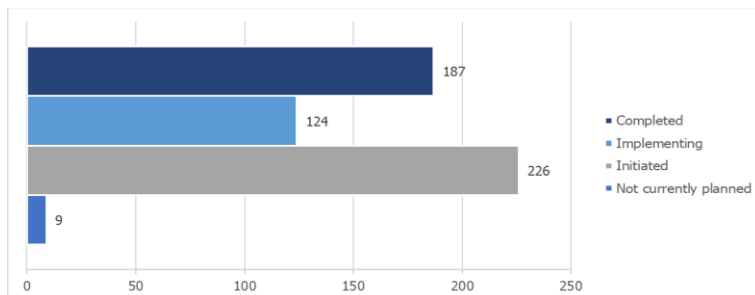


Figure 2 shows the total number of organisations' contributions to the unique steps. As of March 2021, Function 6 has the highest number of unique steps and organisations' contributions.

Just under 35% of contributions have already been completed and over ~40% of the steps is in the organisations' pipeline to implement but have not started yet ("Initiated"). 22% of the steps is being implemented. Whilst 9 (~2%) responses indicate that organisations are not currently planning to implement the step.

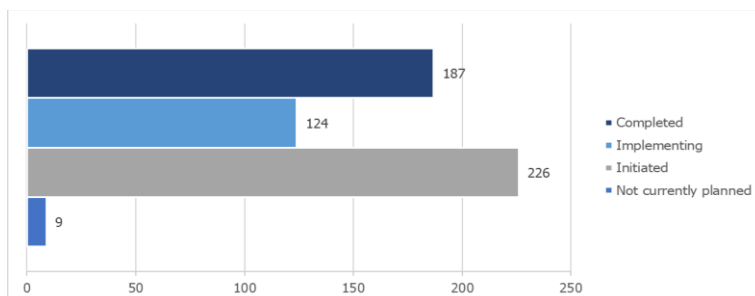


Figure 2 Progress against implementation of "Services Market and Facilitation" Function (No. of steps-contributions of each organisation)

Figure 3 shows the number of unique steps that are led by each organisation type in the "Services Market and Facilitation" Function. Most steps are led by DNOs, whilst ENA ONP contribution is also significant for this Function with 30% of the steps, reflecting ENA ONP development activities. There is also a high number of steps that involve multiple organisations (e.g. TOs, ESO, DNOs), particularly in the T-D coordination activity. T.E.F. projects are also active in this function with 10 steps. 4 code change processes are relevant to this DSO functionality.

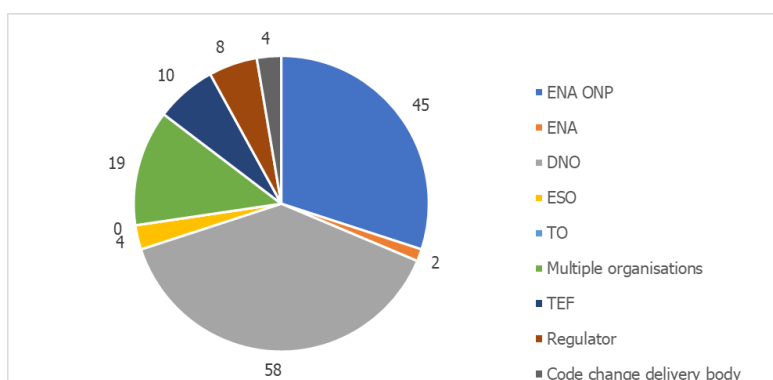


Figure 3 Number of steps led by organisation type in Function 6

Activity A: Define distribution network service requirements including scope, timescale and locational aspects.

Description: Establish the principles behind the planning, contracting and despatch of services to support distribution network operation. Sign post requirements for services through information provision. Define service requirements including scope, location, timescales and technology aspects.

Figure 4 displays the roadmap for activity A which consists of 24 unique steps:

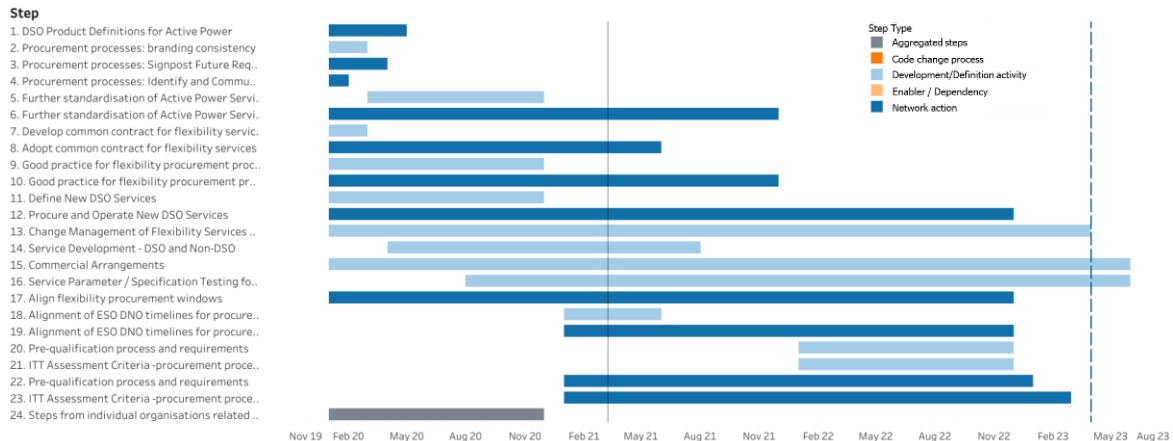


Figure 4 Services Market and Facilitation – Activity A roadmap

Figure 5 shows the total number of organisations' contributions to the unique steps. As of March 2021, most steps (~45%) of this activity are in the organisations' pipeline to implement but have not started yet ("Initiated"). A high number of steps has also been completed and only a few are under implementation.

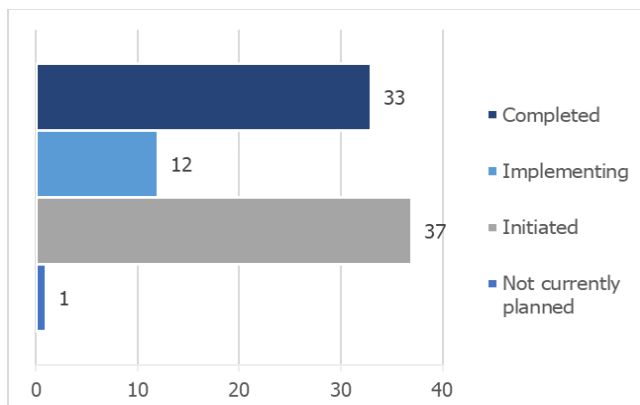


Figure 5 Progress against implementation of "Services Market and Facilitation" – Activity A (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity A.

Step 1

Step:	DSO Product Definitions for Active Power
Step type:	Network actions
Description:	DNOs procuring services are utilising the active power product definitions developed by ONP. Following further work by ENA ONP Workstream 1A, DNOs have now standardised the branding and titles for all of the services.
ENA ONP Product:	2018 WS1 P2
Timeline:	January 2019 - May 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	This is a DNO-led step, informed by ENA ONP products under WS1. More information on the ENA ONP definition outcomes can be found below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2018-ws1-p2-workstream-1-product-definitions.pdf

Step 2

Step:	Procurement processes: branding consistency
Step type:	Development / definition activity
Description:	DNO implementation of consistent branding (ENA ONP Workstream 1 Product 2) across flexibility products to be aligned with delivery of standard flexibility contract under ENA ONP Workstream 1A P4 (2020) allow for a seamless transition between contracts and product brands. As the DNO flexibility market is still developing, new flexibility products will continue to emerge over the coming years. As these products develop, work within Product 2 will ensure branding consistency across flexibility products on offer from DNOs.
ENA ONP Product:	2019 WS1A P2
Timeline:	January 2019 - March 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This ENA ONP product has been now completed and will inform further steps for DNOs. The full updated presentation of ENA ONP on product definitions can be found below: https://www.energynetworks.org/assets/images/Resource%20library/ON19-WS1A-P2%20DSO%20Services%20Procurement%20Processes%20Dec%2019%20Update%20(PUBLISHED).pdf

Step 3

Step:	Procurement processes: Signpost Future Requirements
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 2 (2019) good practice: Good practice is to provide information in good faith, based on the best information known at the time, however it would be important for users of the data to recognise its inherent limitations. DNOs would make clear at the time of publication that they would accept no liability for loss that may arise from use of such data.
ENA ONP Product:	2019 WS1A P2
Timeline:	September 2018 - December 2019
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	This is a DNO-led step dependant on ENA ONP outcomes and good practice. Link to the document with the good practice below: https://www.energynetworks.org/assets/images/Resource%20library/ON19-WS1A-P2%20DSO%20Services%20Procurement%20Processes%20Dec%2019%20Update%20(PUBLISHED).pdf

Step 4

Step:	Procurement processes: Identify and Communicate Procurement Requirements
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 2 (2019) good practice: DNOs continue to use the fullest possible range of outlets when communicating requirements in a simplified and accessible way. It is noted that DNOs need to look beyond those registered with formal procurement platforms to ensure the broadest possible reach for service provision – particularly where smaller providers are concerned.
ENA ONP Product:	2019 WS1A P2
Timeline:	April 2018 - February 2020
Organisation type:	DNO(6)
Progress:	Initiated(1), Completed(5)
Additional information:	This is a DNO-led step dependant on ENA ONP outcomes and good practice. DNOs have different processes in place to communication procurement requirements. Link to the ENA ONP document with the good practice below: https://www.energynetworks.org/assets/images/Resource%20library/ON19-WS1A-P2%20DSO%20Services%20Procurement%20Processes%20Dec%2019%20Update%20(PUBLISHED).pdf

Step 5

Step:	Further standardisation of Active Power Service Parameters.
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 3 (2020) takes forward work from Workstream 1A Product 2 (2019) common operational, commercial & technical service parameters for four active power services for DNOs to further align on operational, commercial and technical parameters. Over the course of RIIO-ED1, the ENA ONP will monitor and broaden the suite of active power services as required.
ENA ONP Product:	2020 WS1A P3
Timeline:	March 2020 - December 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This is an ENA ONP-led step which will further inform step 6 below. More information on this step can be found in the 2020 implementation plan: https://www.energynetworks.org/assets/images/Resource%20library/ON-WS1A-P3%20Active%20Power%20Services%20-%20Final%20Implementation%20Plan-PUBLISHED.23.12.20.pdf

Step 6

Step:	Further standardisation of Active Power Service Parameters.
Step type:	Network actions
Description:	Introduce new processes to further align on operational, commercial and technical parameters of active power services with all the other DNOs, as per ENA ONP Workstream 1A Product 3 (2020) outcomes.
ENA ONP Product:	2020 WS1A P3
Timeline:	January 2019 - December 2021
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(1), Completed(3)
Additional information:	This is a step linked to step 5 and ENA ONP product outcomes. More information on this step can be found in the 2020 implementation plan: https://www.energynetworks.org/assets/images/Resource%20library/ON-WS1A-P3%20Active%20Power%20Services%20-%20Final%20Implementation%20Plan-PUBLISHED.23.12.20.pdf

Step 7

Step:	Develop common contract for flexibility services
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 4 delivered in 2020 a flexibility Services Standard Agreement to be adopted by all DNOs (for all Flexibility Services).
ENA ONP Product:	2020 WS1A P4
Timeline:	January 2019 - March 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	<p>This step has informed step 8 for DNOs and the ESO. Working with law firm CMS, the ENA product team produced a standard contract for the procurement of flexibility and an associated implementation plan. The contract has been drafted by all of Britain's DNOs and takes into account vital input from the industry. The contract will be used by all of Britain's DNOs for procuring flexibility, as it seeks to improve the customer journey and ease engagement with the energy system. The standard contract and implementation plan can be accessed and downloaded at the ENA website. Network companies and the ENA have highlighted that a second version of the contract may be released, following ESO Alignment work.</p> <p>Link to ENA ONP's relevant documents: Summary</p>

Step 8

Step:	Adopt common contract for flexibility services
Step type:	Network actions
Description:	DNOs to adopt the first version of Flexibility Services Standard Agreement that was developed by ENA ONP in 2020. This agreement is common across all DNOs and used for all flexibility services.
ENA ONP Product:	2020 WS1A P4
Timeline:	January 2019 - June 2021
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(1), Completed(3)
Additional information:	<p>This step is dependent on Step 7 (above).</p> <p>Link to ENA ONP's relevant documents: Standard Contract ; Summary</p>

Step 9

Step:	Good practice for flexibility procurement processes
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 2 (2020) seeks to enable further alignment on flexibility service procurement processes (including pre-qualification) across DNOs, as well as plan for these to complement ESO processes where possible.
ENA ONP Product:	2020 WS1A P2
Timeline:	January 2020 - December 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	<p>This is an ENA ONP-led step which will inform step 10 below. See: https://www.energynetworks.org/assets/images/Resource%20library/0N20-WS1A-P2%20Procurement%20coordination%20implementation-PUBLISHED.23.12.20.pdf</p>

Step 10

Step:	Good practice for flexibility procurement processes
Step type:	Network actions
Description:	Adopt good practice to develop aligned processes between DNOs and the ESO for the end to end processes, as per recommendations from ENA ONP Workstream 1A Product 2 (2020).
ENA ONP Product:	2020 WS1A P2
Timeline:	January 2020 - December 2021
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(5), Implementing(1), Completed(1)
Additional information:	This is a step linked to step 9 and ENA ONP product outcomes. See: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P2%20Procurement%20coordination%20implementation-PUBLISHED.23.12.20.pdf

Step 11

Step:	Define New DSO Services
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 5 (2020) aims to deliver new flexibility products that have been developed consistently across DNOs. This activity will cover new flexibility products only, and seek to ensure that all operational, commercial and technical parameters are aligned across DNOs, insofar as practicable. Over the course of RIIO-ED1, the ENA ONP will monitor and broaden the suite of new services as required.
ENA ONP Product:	2020 WS1A P5
Timeline:	January 2020 - December 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This step will inform step 12 below. Outcomes from T.E.F. projects will inform this ENA ONP development activity (see steps 14 and 16). See: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P5%20Webinar%20Slides%20(16%20June%202020)%20(PUBLISHED).pdf

Step 12

Step:	Procure and Operate New DSO Services
Step type:	Network actions
Description:	Procure and operate new DSO flexibility services in line with outcomes from ENA ONP Workstream 1A Product 5 (2020).
ENA ONP Product:	2020 WS1A P5
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	This step will inform step 12 below. Outcomes from T.E.F. projects will inform this ENA ONP development activity (see steps 14 and 16). See: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P5%20Webinar%20Slides%20(16%20June%202020)%20(PUBLISHED).pdf

Step 13

Step:	Change Management of Flexibility Services Standard Agreement
Step type:	Development / definition activity
Description:	ENA ONP over the course of RIIO-ED1 to maintain, update and enhance the Flexibility Services Standard Agreement as required.
ENA ONP Product:	2020 WS1A P4
Timeline:	January 2020 - April 2023
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	This is an ENA ONP – led activity. See: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P4%20CMS%20Updated%20Contract%20Summary%20(PUBLISHED).pdf

Step 14

Step:	Service Development - DSO and Non-DSO
Step type:	Development / definition activity
Description:	The three projects have developed services to trial, with details available for TRANSITION and EDFS on their project websites. Work completed in mid 2019 advanced the broader service thinking, but it was clear some alignment and further collaborative development in 2020 would greatly benefit the industry. TRANSITION and FUSION have commissioned work to align the services on Trial with outputs feeding related ENA ONP Workstream 1A activities.
ENA ONP Product:	N/A
Timeline:	April 2020 - August 2021
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	This is a step added by TRANSITION and will inform development of new and non DSO services. It is linked to ENA ONP step 11. For more information on project TRANSITION, please see the link below: https://ssen-transition.com/

Step 15

Step:	Commercial Arrangements
Step type:	Development / definition activity
Description:	The "Commercial Arrangements" cover a number of aspects being considered by the TEF projects. It includes contract templates, market rules, bid decision making criteria alongside the services on trial.
ENA ONP Product:	N/A
Timeline:	January 2019 - June 2023
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	This is a step added by TRANSITION and will inform ENA ONP development activities (e.g. 2020 WS1A P4). It is linked to steps 11 and 14. For more information on project TRANSITION, please see: https://ssen-transition.com/

Step 16

Step:	Service Parameter / Specification Testing for DSO and Non-DSO Services
Step type:	Development / definition activity
Description:	Tests out various DSO and Non-DSO Services, some of which are being offered today as part of BaU activities. The focus for those currently offered is a broader range of providers, higher numbers of participants / actors, value stacking, etc. The specification of each service is on test, understanding how these are impacted by variables such as the number of participants or technology types.
ENA ONP Product:	N/A
Timeline:	August 2020 - June 2023
Organisation type:	TEF(1)
Progress:	Initiated(1)
Additional information:	This is a step added by TRANSITION and will inform ENA ONP development activities (e.g. 2020 WS1A P4). It is linked to steps 11 and 14. See: https://ssen-transition.com/

Step 17

Step:	Align flexibility procurement windows
Step type:	Network actions
Description:	In 2020 (under ENA ONP Workstream 1A) DNOs consulted stakeholders on the benefits of converging on procurement windows. In 2021, DNOs will implement processes to align the assessment stages and milestones in the flexibility procurement cycle.
ENA ONP Product:	2020 WS1A P2
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(2), Completed(2)
Additional information:	See the 2020 procurement coordination implementation document: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P2%20Procurement%20coordination%20implementation-PUBLISHED.23.12.20.pdf

Step 18

Step:	Alignment of ESO DNO timelines for procurement
Step type:	Development / definition activity
Description:	In previous years, this product has defined common flexibility services, delivered alignment across DNOs on procurement activities including how and when tenders are assessed by DNOs. In 2021, this product focuses on delivering further alignment on procurement timescales between the DNOs and the ESO (including consideration of the Capacity Market).
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - June 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	See the 2021 Project Initiation Document (PID): https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 19

Step:	Alignment of ESO DNO timelines for procurement
Step type:	Network actions
Description:	DNOs and ESO to implement changes to align with the ESO on procurement timescales which will be informed by ENA Open Networks' work. This step only covers the alignment across ESO and DNOs.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(4), Implementing(3)
Additional information:	See the 2021 Project Initiation Document (PID): https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 20

Step:	Pre-qualification process and requirements
Step type:	Development / definition activity
Description:	Based on work done in 2020, DNOs are now aligned on the use and timing stages of Pre-Qualification Questionnaires. Building on this work the product will undertake further work to deliver alignment on the prequalification requirements across both T & D and simplify them where possible.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 21

Step:	ITT Assessment Criteria -procurement processes
Step type:	Development / definition activity
Description:	Refine assessment criteria identified in 2020 to make it more inclusive of all technologies (as per feedback from Jul 20 Consultation) and utilise the WS1A P1 Common Evaluation Methodology tool.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	See the 2021 Project Initiation Document (PID): https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 22

Step:	Pre-qualification process and requirements
-------	--

Step type:	Network actions
Description:	Implement pre-qualification process and requirements as per deliverables of ENA ONP's work which will take place in 2022.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	More information on this step can be found in the 2021 Project Initiation Document (PID), link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 23

Step:	ITT Assessment Criteria -procurement processes
Step type:	Network actions
Description:	Implement process to use the ITT assessment criteria for procurement processes as per deliverables of ENA ONP's work which will take place in 2022.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	More information on this step can be found in the 2021 Project Initiation Document (PID), link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 24

Step:	Steps from individual organisations related to this activity
Step type:	Aggregated steps
Description:	This step aggregates steps required for individual DNOs or TOs to implement DSO functionality, but which have no wider industry relevance.
ENA ONP Product:	N/A
Timeline:	February 2019 - December 2020
Organisation type:	DNO(3)
Progress:	Not currently planned(1), Completed(2)
Additional information:	

Activity B: Assess value and facilitate services to utilise flexibility sources to support distribution network operation

Description: Assess the value of flexibility for distribution network operation and sign post requirements. Facilitate services and markets to provide flexibility.

Figure 6 displays the roadmap for activity B which consists of 14 unique steps:

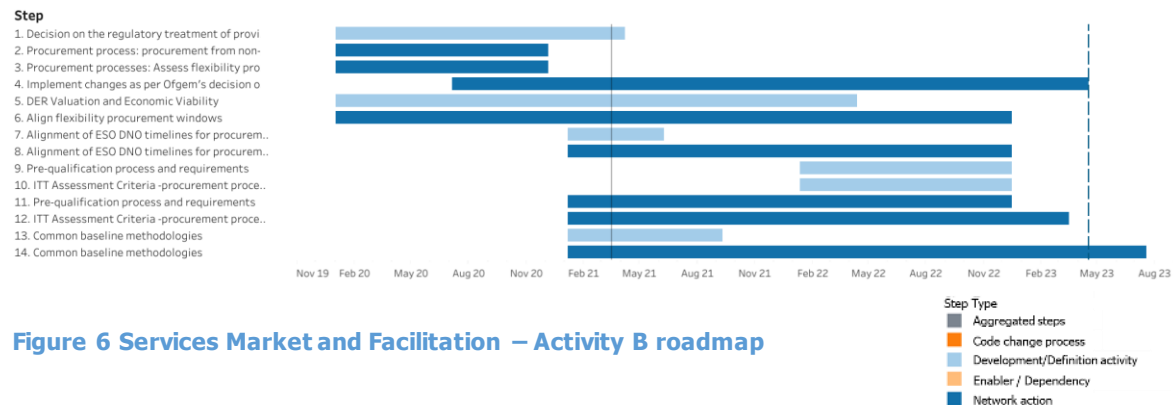


Figure 6 Services Market and Facilitation – Activity B roadmap

Figure 7 shows the total number of organisations' contributions to the unique steps. As of March 2021, a fifth of organisations contributions has been completed, just over 15% is under implementation and over 60% is in the organisations' pipeline to implement but have not started yet ("Initiated").

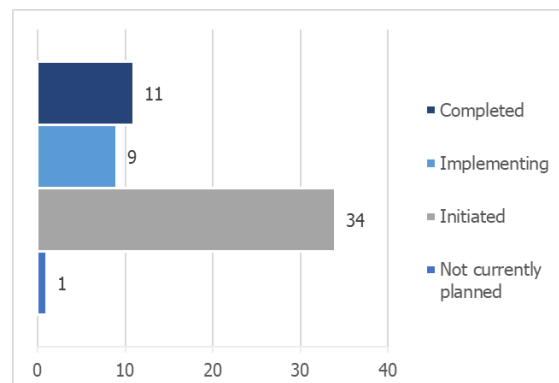


Figure 7 Progress against implementation of "Services Market and Facilitation" – Activity B (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity B.

Step 1

Step:	Decision on the regulatory treatment of provision of flexibility services from DNOs' network assets.
Step type:	Development / definition activity
Description:	Ofgem's decision on the regulatory treatment in RIIO ED2 of DNOs providing network voltage control and network management services, via the remote management of deployed network assets, to the ESO for its balancing services activity. This service is commonly known as CLASS.
ENA ONP Product:	N/A
Timeline:	January 2019 - April 2021
Organisation type:	Regulator(1)
Progress:	Implementing(1)
Additional information:	As per Ofgem, the position consulted on would not take effect until 2023 (and the minded-to position would only represent a continuation of an existing regulatory regime). Step 1 will inform step 4 for the DNOs. More information on the CLASS consultation can be found below: https://www.ofgem.gov.uk/publications-and-updates/regulatory-treatment-class-balancing-service-riio-ed2-network-price-control

Step 2

Step:	Procurement process: procurement from non-firm DER
Step type:	Network actions
Description:	DNOs to adopt principles published under ENA ONP Workstream 1A Product 2 (2019) to ensure that the procurement of flexibility services from assets without a firm connection to the network will be carried out in a just manner.
ENA ONP Product:	2019 WS1A P2
Timeline:	April 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Implementing(2), Completed(4)
Additional information:	This is a step for DNOs that was recommended as a good practice in the ENA ONP document below: https://www.energynetworks.org/assets/images/Resource%20library/ON19-WS1A-P2%20DSO%20Services%20Procurement%20Processes%20Dec%2019%20Update%20(PUBLISHED).pdf One barrier to testing the procurement methodology and to full implementation of the step is the lack of flexible provider within some of the DNOs' licenced areas.

Step 3

Step: Procurement processes: Assess flexibility procurement approaches	
Step type:	Network actions
Description:	<p>ENA ONP Workstream 1A Product 2 (2019) good practice: Available market information should improve as procurement experience is accumulated, and it will be important for DNOs to balance provision of information that helps potential providers, with maintaining the ability for competitive procurement to put downward pressure on prices. Some DNOs have been taking an approach of fixing prices for flexibility services to give certainty to the market as an alternative to running auctions. DNOs need to assess through experience the relative merits of the different approaches to procurement to understand good practice.</p>
ENA ONP Product:	2019 WS1A P2
Timeline:	April 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Implementing(1), Completed(5)
Additional information:	<p>This is a step for the DNOs that was recommended as a good practice in the ENA ONP document below: https://www.energynetworks.org/assets/images/Resource%20library/ON19-WS1A-P2%20DSO%20Services%20Procurement%20Processes%20Dec%2019%20Update%20(PUBLISHED).pdf DNOs have flagged some obstacles to this development such as lack of market liquidity, procurement legislation and interpretation across DNOs which apply stringent rules on the value of procurement exercise, EU procurement legislation complaint systems and deviation across organisations on the use of Dynamic Purchasing System (DPS), formal tender process. Nearly all of the DNOs have already completed the step and will continue monitor further updates from ENA ONP 2021 products.</p>

Step 4

Step: Implement changes as per Ofgem's decision on the provision of flexibility from funded assets	
Step type:	Network actions
Description:	<p>Following Ofgem's decision on the regulatory treatment of the provision of flexibility services to funded assets (CLASS consultation), DNOs must implement changes to make the position effective. Any related changes will be effective within the RIIO-ED2 price control period.</p>
ENA ONP Product:	2020 WS1A P2
Timeline:	July 2020 - April 2023
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	<p>This step is dependent on Ofgem's CLASS consultation (step 1). As per Ofgem, the position consulted on would not take effect until 2023 (and the minded-to position would only represent a continuation of an existing regulatory regime). More information on this step can be found in the Procurement coordination implementation report link below: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P2%20Procurement%20coordination%20implementation-PUBLISHED.23.12.20.pdf</p>

Step 5

Step:	DER Valuation and Economic Viability
Step type:	Development / definition activity
Description:	TEF are considering the value of services. TRANSITION (alongside the other two projects in the Oxfordshire Programme, Project LEO and MERLIN) is exploring the willingness to pay versus willingness to accept for both DSO and Non-DSO Services. Use of a service is very different from a typical reinforcement, with the value of any contract continuously varying. MERLIN explores ways in which economic viability can be ensured as the market grows alongside supporting the industry make informed investments, hopefully reducing the risk of stranded investment.
ENA ONP Product:	N/A
Timeline:	December 2019 - April 2022
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	This is a step added by TRANSITION. For more information on the project please see link below: https://ssen-transition.com/

Step 6

Step:	Align flexibility procurement windows
Step type:	Network actions
Description:	In 2020 (under ENA ONP Workstream 1A) DNOs consulted stakeholders on the benefits of converging on procurement windows. In 2021, DNOs will implement processes to align the assessment stages and milestones in the flexibility procurement cycle.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(4), Implementing(1), Completed(1)
Additional information:	More information on this step can be found in the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 7

Step:	Alignment of ESO DNO timelines for procurement
Step type:	Development / definition activity
Description:	In previous years, this product has defined common flexibility services, delivered alignment across DNOs on procurement activities including how and when tenders are assessed by DNOs. In 2021, this product focuses on delivering further alignment on procurement timescales between the DNOs and the ESO (including consideration of the Capacity Market).
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - June 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	See the 2021 Project Initiation Document (PID): https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 8

Step:	Alignment of ESO DNO timelines for procurement
Step type:	Network actions
Description:	DNOs and ESO to implement changes to align with the ESO on procurement timescales which will be informed by ENA Open Networks' work. This step only covers the alignment across ESO and DNOs.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(5), Implementing(2)
Additional information:	See the 2021 Project Initiation Document (PID): https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 9

v	Pre-qualification process and requirements
Step type:	Development / definition activity
Description:	Based on work done in 2020, DNOs are now aligned on the use and timing stages of Pre-Qualification Questionnaires. Building on this work the product will undertake further work to deliver alignment on the prequalification requirements across both T & D and simplify them where possible.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	See the 2021 Project Initiation Document (PID): https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 10

Step:	ITT Assessment Criteria -procurement processes
Step type:	Development / definition activity
Description:	Refine assessment criteria identified in 2020 to make it more inclusive of all technologies (as per feedback from Jul 20 Consultation) and utilise the WS1A P1 Common Evaluation Methodology tool.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	More information on this step can be found in the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 11

Step:	Pre-qualification process and requirements
Step type:	Network actions
Description:	Implement pre-qualification process and requirements as per deliverables of ENA ONP's work which will take place in 2022.
ENA ONP Product:	N/A
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	

Step 12

Step:	ITT Assessment Criteria -procurement processes
Step type:	Network actions
Description:	Implement process to use the ITT assessment criteria for procurement processes as per deliverables of ENA ONP's work which will take place in 2022.
ENA ONP Product:	N/A
Timeline:	January 2021 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	

Step 13

Step:	Common baseline methodologies
Step type:	Development / definition activity
Description:	2021 WS1A 07 will develop a common baseline methodology for adoption by all DNOs. This product is a continuation of the 2020 WS1A P7 product which sought to assess existing UK and international baselining methodologies and recommend suitable methodologies for adoption by the UK distribution flexibility market. This product will seek to further consult with stakeholders to refine and agree baseline approaches which will be adopted by DNOs for their operation of flexibility products, following which a robust implementation and governance plan will be defined and support tools developed.
ENA ONP Product:	N/A
Timeline:	January 2021 - September 2021
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	

Step 14

Step:	Common baseline methodologies
Step type:	Network actions
Description:	2021 WS1A P7 will provide an implementation plan and governance strategy for DNOs to adopt common baseline methodologies for flexibility services. DNOs to implement associated changes and processes to adopt this methodology, based on ENA ONP's implementation plan.
ENA ONP Product:	N/A
Timeline:	January 2021 - July 2023
Organisation type:	DNO(6)
Progress:	Not currently planned(1), Initiated(4), Completed(1)
Additional information:	

Activity C: Facilitate the operation of Distributed Energy Resource Management systems (DERMs) and Local Energy Markets (LEMs) that are transparent

Description: Put in place the infrastructure / platforms that enable network operators to access the technical capability of DER and to commercially optimise and settle payments for DER services.

Figure 8 displays the roadmap for activity C which consists of 36 unique steps:

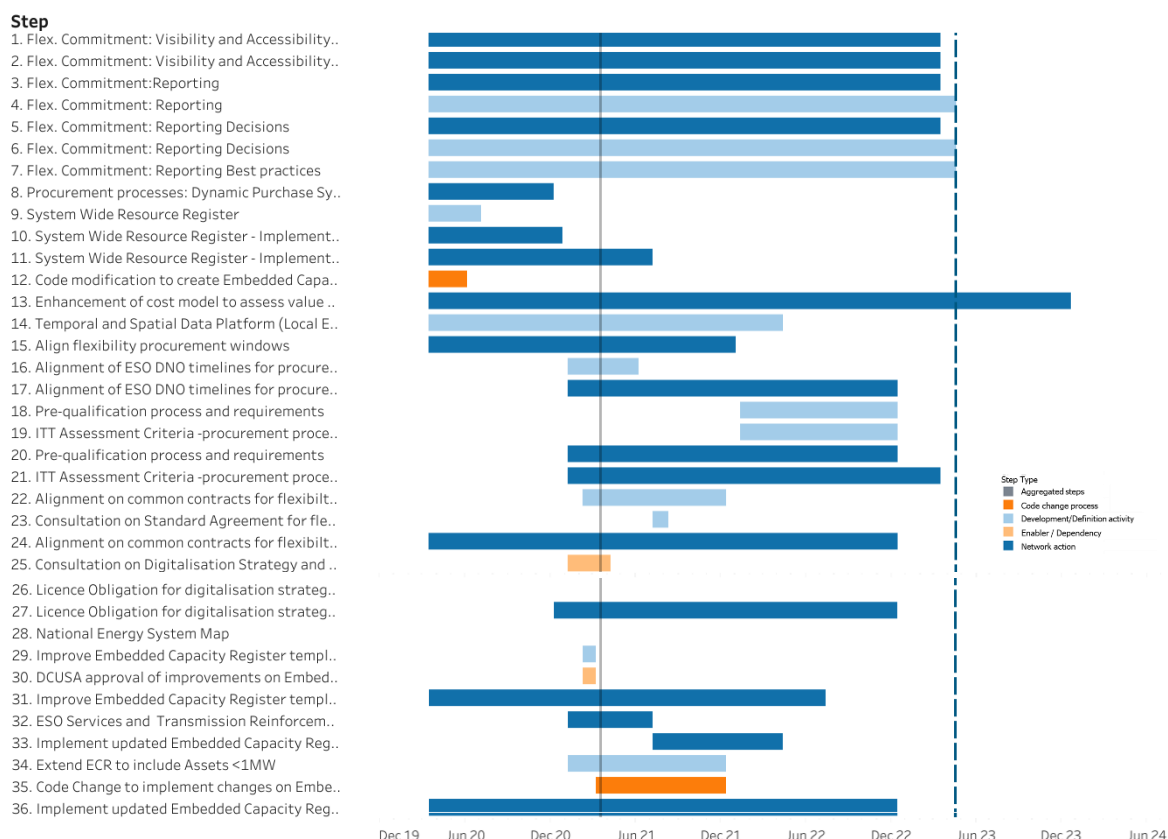


Figure 8 Services Market and Facilitation – Activity C roadmap

Figure 9 shows the total number of organisations' contributions to the unique steps. As of March 2021 most contributions (~46%) to this activity are in the organisations' pipeline to implement but have not started yet ("Initiated"). Almost an equal number have been completed (~26%) as have are being implemented (25%). A few steps currently have not been planned (~2%).

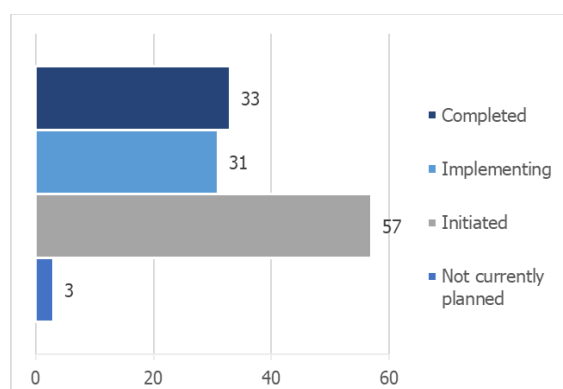


Figure 9 Progress against implementation of "Services Market and Facilitation" – Activity C (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity C.

Step 1

Step:	Flex. Commitment: Visibility and Accessibility - Opportunities
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 2 (Visibility and Accessibility), to highlight where and when opportunities exist for flexibility services to play a role in ensuring a secure, consistent energy supply via electricity networks.
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Implementing(1), Completed(5)
Additional information:	Most DNOs have already completed this step but they are also planning for ongoing enhancements. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 2

Step:	Flex. Commitment: Visibility and Accessibility - Consistency
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 2 (Visibility and Accessibility), DNOs to undertake consistent review of where and when opportunities exist for flex. services and share data with flexibility service providers to develop transparent markets.
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Implementing(2), Completed(4)
Additional information:	Most DNOs have already completed this step but they are also planning for ongoing enhancements. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 3

Step:	Flex. Commitment: Reporting
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 5 (Provide regular, consistent and transparent reporting) to provide regular, consistent and transparent monitoring and reporting to provide confidence to the public and ensure all parties learn from what flexibility is used, why and how this contributes to running energy networks in a smarter, more efficient way.
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(3), Completed(2)
Additional information:	<p>Most DNOs have already completed this step but they are also planning for ongoing enhancements.</p> <p>This step is also subject to scale and frequency of stakeholder engagement and data reporting.</p> <p>Reporting and publication of services is also depending on network needs.</p> <p>Lack of flexible providers has been mentioned as a barrier to testing the methodology that has already been developed by one DNO.</p> <p>Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf </p>

Step 4

Step	Flex. Commitment: Reporting
Step type:	Development / definition activity
Description:	As part of ENA Flexibility Next Step 5 (Provide regular, consistent and transparent reporting) to provide regular, consistent and transparent monitoring and reporting to provide confidence to the public and ensure all parties learn from what flexibility is used, why and how this contributes to running energy networks in a smarter, more efficient way.
ENA ONP Product:	Flex. Commitment
Timeline:	June 2019 - April 2023
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	<p>This step refers to ENA ONP's contribution through development activities and ENA ONP deliverables to this particular Flex. Commitment.</p> <p>Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf </p>

Step 5

Step:	Flex. Commitment: Reporting Decisions
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 5 (Provide regular, consistent and transparent reporting) all decisions and reasoning, such as traditional reinforcement compared to flexibility services options and cost-benefit analysis, will be clear and readily available.
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(3), Completed(1)
Additional information:	Lack of flexible providers has been mentioned as a barrier to testing the methodology that has already been developed by one DNO. One DNO also mentioned that full implementation of this step is dependent on performance, following dispatch of services. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 6

Step:	Flex. Commitment: Reporting Decisions
Step type:	Development / definition activity
Description:	As part of ENA Flexibility Next Step 5 (Provide regular, consistent and transparent reporting) all decisions and reasoning, such as traditional reinforcement compared to flexibility services options and cost-benefit analysis, will be clear and readily available.
ENA ONP Product:	Flex. Commitment
Timeline:	June 2019 - April 2023
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	This step refers to ENA ONP's contribution through development activities and ENA ONP deliverables to this specific Flex. Commitment. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 7

Step:	Flex. Commitment: Reporting Best Practices
Step type:	Development / definition activity
Description:	As part of ENA Flexibility Next Step 5 (Provide regular, consistent and transparent reporting) share best practice across the wider industry
ENA ONP Product:	Flex. Commitment
Timeline:	June 2019 - April 2023
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	This step refers to ENA ONP's contribution through development activities and ENA ONP deliverables to this specific Flex. Commitment. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 8

Step:	Procurement processes: Dynamic Purchase Systems (DPS)
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 2 (2019) good practice: It is good practice that DNOs explore more dynamic routes and engage through Dynamic Purchase Systems (DPS) provided for under UCR 2016.
ENA ONP Product:	2019 WS1A P2
Timeline:	November 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Not currently planned(2), Completed(4)
Additional information:	This is a step driven by 2019 WS1A P2 recommendations. Link to the ENA ONP publication below: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P2%20Procurement%20coordination%20implementation-PUBLISHED.23.12.20.pdf

Step 9

Step:	System Wide Resource Register
Step type:	Development / definition activity
Description:	ENA ONP Workstream 2 Product 1 (2020) will continue to support the individual DNOs with the rollout of the agreed System Wide Resource Register (SWRR) to provide visibility of resources >1MW that are connected to their network as well as the reinforcement queue. This product will also consider any further enhancements to the SWRR to improve information provision including future work from any output of the Data Working Group or Data Task Force outputs (e.g. any Office of National Statistics resource register).
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2020 - July 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This is an ENA ONP activity that started in 2019 and completed in 2020. This step will inform steps 10 and 11 below. For more information on this step please see the link below: https://www.energynetworks.org/assets/images/ON20-WS2-P1 ECR - Inclusion of Smaller Assets-PUBLISHED.23.12.20.pdf

Step 10

Step:	System Wide Resource Register - Implementation Phase 1
Step type:	Network actions
Description:	Implementation Phase 1 of the implementation of the SWRR relates involves population of consistent templates. Informed by ENA ONP Workstream 2 Product 1 (2020).
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2019 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	<p>This step refers to the first phase of the System Wide Resource Register (SWRR) implementation.</p> <p>The step is also linked to a code modification (see step 12 below).</p> <p>Barriers flagged by DNOs include GDPR compliance, Commercial Sensitivities, low quality of historic data.</p> <p>For more information on this step please see the link below: https://www.energynetworks.org/assets/images/ON20-WS2-P1 ECR - Inclusion of Smaller Assets-PUBLISHED.23.12.20.pdf</p>

Step 11

Step:	System Wide Resource Register - Implementation Phase 2
Step type:	Network actions
Description:	Implementation Phase 2 of the implementation of the SWRR requires DNOs to develop methodologies to report on reinforcement works and publish reinforcement tables. Informed by ENA ONP Workstream 2 Product 1 (2020).
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2019 - July 2021
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(3), Completed(1)
Additional information:	<p>This step is dependent on step 10 and ENA ONP outcomes and recommendations regarding the SWRR. The step is also linked to a code modification (see step 12 below).</p> <p>The link below provides more information on this step: https://www.energynetworks.org/assets/images/ON20-WS2-P1 ECR - Inclusion of Smaller Assets-PUBLISHED.23.12.20.pdf</p>

Step 12

Step:	Code modification to create Embedded Capacity Registers
Step type:	Code change process
Description:	This step refers to the DCUSA modification DCP350 to implement embedded capacity registers and place obligations on DNOs to provide relevant data. This will place legal obligation on DNOs and IDNOs to publish data including customer name and site. The modification is also relevant for the implementation of the System Wide Resource Register.
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2020 - June 2020
Organisation type:	
Progress:	Completed(1)
Additional information:	<p>This code modification was raised to support implementation of the SWRR.</p> <p>It will inform DNOs actions (step 10 and 11).</p> <p>The link below provides more information on this step:</p> <p>https://www.energynetworks.org/assets/images/ON20-WS2-P1 ECR - Inclusion of Smaller Assets-PUBLISHED.23.12.20.pdf</p>

Step 13

Step:	Enhancement of cost model to assess value of flexibility alongside market development and other variables.
Step type:	Network actions
Description:	Enhance existing DNO cost models to price flexibility reflecting the unique characteristics of flexibility services and assets and the risk profile, alongside alternative options.
ENA ONP Product:	N/A
Timeline:	July 2018 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(3), Completed(1)
Additional information:	<p>This is a common step for all DNOs, being developed outside ENA ONP workstreams. DNOs flagged that outputs and learnings from the 2020 WS1A P1 could be relevant to this step.</p> <p>DNOs mentioned that this step will be further enhanced when DNOs gain more experience using flexibility services.</p>

Step 14

Step:	Temporal and Spatial Data Platform (Local Energy Market focus)
Step type:	Development / definition activity
Description:	A Temporal and Spatial Data Platform with API is being created with a Local Energy Market focus, facilitating operation of LEMs. Such datasets will also be available to the network owners and operators, thus it could aid operation on DERM's too. Project LEO is leading development with TRANSITION feeding the local data through forecasting functions and coordination system.)
ENA ONP Product:	N/A
Timeline:	October 2019 - April 2022
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	This is a step led by TRANSITION. For more information on the project, please see the link below: https://ssen-transition.com/

Step 15

Step:	Align flexibility procurement windows
Step type:	Network actions
Description:	In 2020 (under ENA ONP Workstream 1A) DNOs consulted stakeholders on the benefits of converging on procurement windows. In 2021, DNOs will implement processes to align the assessment stages and milestones in the flexibility procurement cycle.
ENA ONP Product:	2020 WS1A P2
Timeline:	January 2020 - December 2021
Organisation type:	DNO(6)
Progress:	Initiated(4), Completed(2)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P2%20Procurement%20coordination%20implementation-PUBLISHED.23.12.20.pdf

Step 16

Step:	Alignment of ESO DNO timelines for procurement
Step type:	Development / definition activity
Description:	In previous years, this product has defined common flexibility services, delivered alignment across DNOs on procurement activities including how and when tenders are assessed by DNOs. In 2021, this product focuses on delivering further alignment on procurement timescales between the DNOs and the ESO (including consideration of the Capacity Market).
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - June 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 17

Step:	Alignment of ESO DNO timelines for procurement
Step type:	Network actions
Description:	DNOs and ESO to implement changes to align with the ESO on procurement timescales which will be informed by ENA Open Networks' work. This step only covers the alignment across ESO and DNOs.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(5), Implementing(2)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 18

Step:	Pre-qualification process and requirements
Step type:	Development / definition activity
Description:	Based on work done in 2020, DNOs are now aligned on the use and timing stages of Pre-Qualification Questionnaires. Building on this work the product will undertake further work to deliver alignment on the prequalification requirements across both T & D and simplify them where possible.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 19

Step:	ITT Assessment Criteria -procurement processes
Step type:	Development / definition activity
Description:	Refine assessment criteria identified in 2020 to make it more inclusive of all technologies (as per feedback from Jul 20 Consultation) and utilise the WS1A P1 Common Evaluation Methodology tool.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 20

Step:	Pre-qualification process and requirements
Step type:	Network actions
Description:	Implement pre-qualification process and requirements as per deliverables of ENA ONP's work which will take place in 2022.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6)
Progress:	Not currently planned(1), Initiated(5)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 21

Step:	ITT Assessment Criteria -procurement processes
Step type:	Network actions
Description:	Implement process to use the ITT assessment criteria for procurement processes as per deliverables of ENA ONP's work which will take place in 2022.
ENA ONP Product:	2021 WS1A P2
Timeline:	January 2021 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(6)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 22

Step:	Alignment on common contracts for flexibility services
Step type:	Development / definition activity
Description:	ENA Open Networks is working towards improving the Standard Agreement that was developed in 2020 and adopted by DNOs. Within 2021 ENA ONP Workstream 1A Product 4 will seek to include in the DNOs' agreement liability, indemnity and insurance (L, I & I) elements resultant from the Ofgem/BEIS workshop in 2020 and release an updated Version 1.2. ENA ONP is also aiming to commence alignment between the Standard Contract and ESO's general Terms and Conditions document to produce Version 2 of the industry Standard Agreement for full consultation before implementation.
ENA ONP Product:	2021 WS1A P4
Timeline:	February 2021 - December 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-WS1A-P4%20Common%20Contract%20V1.2%20Supporting%20Slides%20(01%20March%202021).pdf

Step 23

Step:	Consultation on Standard Agreement for flexibility services
Step type:	Development / definition activity
Description:	2021 WS1A P4 will produce 2 updated versions of the Standard Agreement within 2021. ENA ONP will run an external consultation on version 2 which will align Standard Agreement with ESO T&Cs documents.
ENA ONP Product:	2021 WS1A P4
Timeline:	July 2021 - August 2021
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-WS1A-P4%20Common%20Contract%20V1.2%20Supporting%20Slides%20(01%20March%202021).pdf

Step 24

Step:	Alignment on common contracts for flexibility services
Step type:	Network actions
Description:	DNOs and the ESO to adopt the updated Flexibility Services Standard Agreement which will provide alignment between the Standard DNO Contracts and ESO general Terms and Conditions.
ENA ONP Product:	2021 WS1A P4
Timeline:	January 2019 - December 2022
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(4), Implementing(1), Completed(2)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-WS1A-P4%20Common%20Contract%20V1.2%20Supporting%20Slides%20(01%20March%202021).pdf

Step 25

Step:	Consultation on Digitalisation Strategy and Action Plan guidance
Step type:	Enablers / Dependencies / Barriers
Description:	Ofgem is planning to carry out a consultation on the Digitalisation Strategies and Action Plan guidance to update their draft guidance and propose licence obligations for network companies.
ENA ONP Product:	N/A
Timeline:	January 2021 - April 2021
Organisation type:	Regulator(1)
Progress:	Implementing(1)
Additional information:	

Step 26

Step:	Licence Obligation for digitalisation strategy and action plan
Step type:	Enablers / Dependencies / Barriers
Description:	Ofgem to introduce licence obligation for network companies' digitalisation strategy and action plans as part of the processes on designing the RIIO-2 and RIIO-ED2 price controls
ENA ONP Product:	N/A
Timeline:	N/A
Organisation type:	Regulator(1)
Progress:	Initiated(1)
Additional information:	

Step 27

Step:	Licence Obligation for digitalisation strategy and action plan
Step type:	Network actions
Description:	Networks Companies to implement processes and changes in order to prepare for comply with Ofgem's licence conditions on digitalisation strategy and action plan.
ENA ONP Product:	N/A
Timeline:	December 2020 - December 2022
Organisation type:	DNO(6), ESO(1), TO(3)
Progress:	Initiated(8), Implementing(1), Completed(1)
Additional information:	

Step 28

Step:	National Energy System Map
Step type:	Development / definition activity
Description:	The ENA Data Working Group carries out ongoing work to develop the National Energy System Map (NESM) that is being developed as a platform/tool to share data with non-network organisations.
ENA ONP Product:	N/A
Timeline:	N/A
Organisation type:	ENA(1)
Progress:	
Additional information:	

Step 29

Step:	Improve Embedded Capacity Register template
Step type:	Development / definition activity
Description:	2021 WS2 Product 1 will progress and complete recommendations from December 2020 ENA's report which will improve the templates of Embedded Capacity Registers including data fields and definitions.
ENA ONP Product:	2021 WS2 P1
Timeline:	February 2021 - March 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 30

Step:	DCUSA approval of improvements on Embedded Capacity Register
Step type:	Enablers / Dependencies / Barriers
Description:	DCUSA process to present and approve changes identified by ENA ONP Workstream 2 Product 1 related to Embedded Capacity Register (ECR) template
ENA ONP Product:	2021 WS2 P1
Timeline:	February 2021 - March 2021
Organisation type:	Regulator(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 31

Step:	Improve Embedded Capacity Register template
Step type:	Network actions
Description:	DNOs to update new template as per developments of ENA ONP WS2 Product 1 which will improve the templates of Embedded Capacity Registers including data fields and definitions.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2020 - July 2022
Organisation type:	DNO(6)
Progress:	Initiated(4), Implementing(1), Completed(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 32

Step:	ESO Services and Transmission Reinforcement information in Embedded Capacity Registers (ECRs)
Step type:	Network actions
Description:	2021 WS2 Product 1 will implement proposals to include ESO Services and Transmission Reinforcement information in ECRs. Work to link to Tx reinforcements (e.g. Transmission Work Registers) and include ESO balancing Services information.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2021 - July 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 33

Step:	Implement updated Embedded Capacity Register
Step type:	Network actions
Description:	2021 WS2 Product 1 will implement proposals to include ESO Services and Transmission Reinforcement information in ECRs. TOs will support and implement these changes.
ENA ONP Product:	2021 WS2 P1
Timeline:	July 2021 - April 2022
Organisation type:	TO(3), ESO(1)
Progress:	Initiated(4)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 34

Step:	Extend ECR to include Assets <1MW
Step type:	Development / definition activity
Description:	2021 WS2 Product 1 will finalise proposals to include further DER resources including DNO costs to implement. Develop and enact proposals to source ECR data for additional assets.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2021 - December 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 35

Step:	Code Change to implement changes on Embedded Capacity Register
Step type:	Code change process
Description:	Further code changes relating to the extension of the ECR to include assets smaller than 1MW will take place.
ENA ONP Product:	2021 WS2 P1
Timeline:	March 2021 - December 2021
Organisation type:	Delivery Body
Progress:	Initiated(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 36

Step:	Implement updated Embedded Capacity Register
Step type:	Network actions
Description:	DNOs to implement updates on the Embedded Capacity Register as per developments under ENA ONP WS2 Product 1 and code changes.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(5), Completed(1)
Additional information:	For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Activity D: Interaction with aggregators and other non-traditional actors.

Description: Enable the operation of new market roles (e.g. aggregators) within the GB energy systems. This may include commercial and regulation requirements and the provision of information/data exchange.

Figure 10 displays the roadmap for activity D which consists of 14 unique steps:

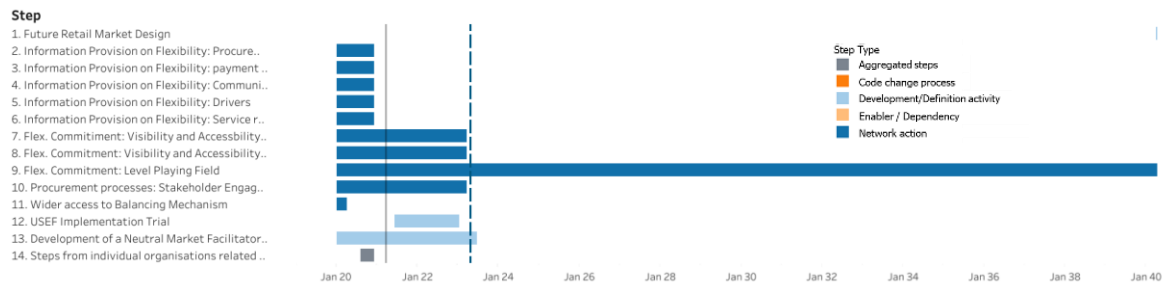


Figure 10 Services Market and Facilitation – Activity D roadmap

Figure 11 shows the total number of organisations' contributions to the unique steps. As of March 2021 most steps (~70%) of this activity have been completed, particularly steps that are driven by ENA ONP Good Practices. A few steps (~13%) are in the organisations' pipeline to implement but have not started yet ("Initiated"). Approximately 16% of organisations' contributions are under implementation.

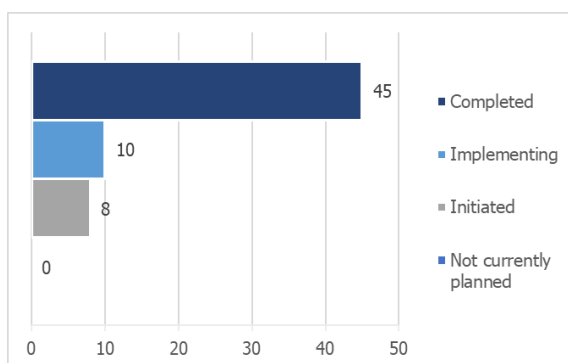


Figure 11 Progress against implementation of "Services Market and Facilitation" – Activity D (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity D.

Step 1

Step:	Future Retail Market Design
Step type:	Development / definition activity
Description:	Under Future energy retail market review, Government and Ofgem are considering changes to the future retail market design to mitigate the risk of network operators relying on multiple, unregulated third-party intermediaries to source flexibility, who may prioritise their own commercial interests over customer outcomes
ENA ONP Product:	N/A
Timeline:	N/A
Organisation type:	Regulator(1)
Progress:	Initiated(1)
Additional information:	The design of Future Retail Market is led by Ofgem. Under ENA ONP WS3 Conflicts of Interest and Unintended Consequences, this step was identified as a mitigation action against the risk of network operators, as described.

Step 2

Step:	Information Provision on Flexibility: Procurement
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on procurement method including (a) Chosen method e.g. competitive tender vs fixed price, (b) Timeline for procurement exercise, (c) Assessment criteria for procurement exercise.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	All DNOs have completed the step. Some of them are now considering optimisation processes to determine the most effective approach based on learnings and stakeholder engagement. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 3

Step:	Information Provision on Flexibility: payment approach, structure and contract length
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on payment approach, structure and possible contract lengths, including (a) Types of payments the provider can expect to receive for being on standby and delivering a service, (b) Whether the prices paid are set or can be specified by potential providers, (c) Behaviour that would constitute an Event of Default and the associated penalty.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Implementing(1), Completed(5)
Additional information:	Most DNOs have completed the step, one of them is validating the process. Some of them are now considering optimisation processes to determine the most effective approach based on learnings and stakeholder engagement. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-pri-monitoring-implementation-(q4-2019).pdf

Step 4

Step:	Information Provision on Flexibility: Communication
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: (a) Information on maps/graphical representations should be similar if not identical across networks, (b) depending on service type, flag visibility of services both at an early stage (~18 months) and in advance (~6 months), (c) offer one to one meetings to potential providers and allow for more detailed and tailored engagement, and (d) Set Service Level Agreements (SLA) for response time to queries.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Initiated(1), Completed(5)
Additional information:	Most DNOs have completed the step. DNOs have mentioned that there is lack of standardisation among DNOs which is related to mapping of flexible services and communication. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-pri-monitoring-implementation-(q4-2019).pdf

Step 5

Step:	Information Provision on Flexibility: Drivers
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on the drivers for the service/the network requirement including whether the needs are a short or long term requirement.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	All DNOs have completed the step. Some of them are now optimising their processes. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 6

Step:	Information Provision on Flexibility: Service requirements
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on service requirements including (a) The characteristics required by assets to deliver the service (as described in Workstream 1 Product 2 (2018)), (b) Minimum MW thresholds if applicable, (c) Locational requirements, (d) Specified service windows – whether requirements vary within the day, week, month, season etc.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	All DNOs have completed the step. Some of them are now optimising their processes. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 7

Step:	Flex. Commitment: Visibility and Accessibility - Highlight Opportunities
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 2 (Ensure visibility and accessibility), DNOs to highlight where and when opportunities exist for flexibility services to play a role in ensuring a secure, consistent energy supply via electricity networks. This will be undertaken consistently and easily and include sharing data with flexibility service providers to develop transparent markets
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(1), Completed(4)
Additional information:	Joint co-ordination between ESO and DSO parties could further optimise this step, as per DNO's comments. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 8

Step:	Flex. Commitment: Visibility and Accessibility - Enable Market Access
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 2 (Ensure visibility and accessibility), DNOs to remove barriers and enable all customers to access multiple markets to provide services, for example where they can earn revenue from both the national balancing services market and local flexibility services markets. This will be undertaken consistently and easily and include sharing data with flexibility service providers to develop transparent markets.
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(2), Completed(3)
Additional information:	Some of the barriers raised by DNOs include the lack of experience on ANM systems with real time network calculations, data security concerns related to sharing information about critical national infrastructure, and limited monitoring capabilities in certain DNOs' regions. Developments under the Energy Data Taskforce (EDTF) could provide further learnings and recommendations for DNOs to compete this step. This step is linked to work associated with open data sharing. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 9

Step:	Flex. Commitment: Level Playing Field
Step type:	Network actions
Description:	<p>ENA Flexibility Next Step 1 (Champion a level playing field) identifies market neutrality as a fundamental principle of operating Britain's energy network infrastructure. As part of this commitment, DNOs are to procure flexibility services in a way that creates a level playing field for all energy technologies and services. ENA's electricity network members (i.e. all DNOs, TOs, the ESO and GTC) will facilitate and provide convergence and standardisation for customers in order to support this. The level playing field allows everyone access to these new markets, and for all connected resources.</p>
ENA ONP Product:	Flex. Commitment
Timeline:	January 2018 - December 2050
Organisation type:	DNO(6), ESO(1), TO(3)
Progress:	Initiated(2), Implementing(5), Completed(3)
Additional information:	<p>All network companies contribute to this flexibility commitment. Some barriers raised by DNOs to fully implement this step is related to technical and economic restrictions of providing communications to smaller sites, so that smaller service providers participate without the need of aggregators.</p> <p>The flex. commitment will be further enhanced, as the number of flexibility providers increase (for some DNOs lack of DER providers means that they rely on single service providers).</p> <p>As per DNOs, level playing field needs to consider the impact of different technology types on providing the service, whilst regulatory/government steering in this area would be useful.</p> <p>Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf </p>

Step 10

Step:	Procurement processes: Stakeholder Engagement
Step type:	Network actions
Description:	<p>ENA ONP Workstream 1A Product 2 (2019) good practice: DNOs to undertake structured stakeholder engagement throughout the service procurement process, with potential providers given the support necessary to meet their needs. Post-tender, it would be good practice to review and gain feedback, so that improvements can be identified, shared and implemented.</p>
ENA ONP Product:	2019 WS1A P2
Timeline:	July 2018 - March 2023
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	<p>All DNOs have completed the step. As per DNOs, stakeholder engagement will be ongoing, so that processes are optimised. For more information on this step please see the link below: https://www.energynetworks.org/assets/images/Resource%20library/ON19-WS1A-P2%20DSO%20Services%20Procurement%20Processes%20Dec%2019%20Update%20(PUBLISHED).pdf </p>

Step 11

Step:	Wider access to Balancing Mechanism
Step type:	Network actions
Description:	Going forwards the ESO will deliver a plan which sets out proposals and timescales for widening access to the web-based API and any associated code and policy modifications which will be required to facilitate this. This will allow providers choice of which communications system they use, and improve the provider experience.
ENA ONP Product:	N/A
Timeline:	January 2019 - December 2019
Organisation type:	ESO(1)
Progress:	Completed(1)
Additional information:	This is an ESO-led step which has now been completed.

Step 12

Step:	USEF Implementation Trial
Step type:	Development / definition activity
Description:	As the USEF framework is aggregator focused, the FUSION project is looking at aggregator and other actors. This is also reviewing a universal plug in that should enable easier aggregator access.
ENA ONP Product:	N/A
Timeline:	June 2021 - December 2022
Organisation type:	TEF(1)
Progress:	Initiated(1)
Additional information:	This step is led by project FUSION and is related to this DSO activity. Some barriers for further implementation are the market liquidity and aggregators' participation in the trial. More information on project FUSION can be found below: https://www.spenergynetworks.co.uk/pages/fusion.aspx

Step 13

Step:	Development of a Neutral Market Facilitator testbed.
Step type:	Development / definition activity
Description:	Across the TEF projects, market facilitation functionality will be developed, built and tested. Non traditional models such as Non-DSO services shall be trialled, with TRANSITION (in partnership with Project LEO) investigating local energy market drivers.
ENA ONP Product:	N/A
Timeline:	January 2019 - June 2023
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	This step is led by project TRANSITION and is related to this DSO activity. More information on TRANSITION can be found below: https://ssen-transition.com/

Step 14

Step:	Steps from individual organisations related to this activity
Step type:	Aggregated steps
Description:	This step aggregates steps required for individual DNOs or TOs to implement DSO functionality, but which have no wider industry relevance.
ENA ONP Product:	N/A
Timeline:	August 2020 - December 2020
Organisation type:	DNO(1)
Progress:	Initiated(1)
Additional information:	One DNO has added a step related to internal processes that will improve their webpage for flexibility provision.

Activity E: Support the implementation of nontraditional market models for local energy supply.

Description: Enable the operation of non-traditional business models within the GB energy systems (e.g. local energy markets, peer to peer trading). This may include commercial and regulation requirements and the provision of information/data exchange. Provide information to enable settlement of these markets.

Figure 12 displays the roadmap for activity E which consists of 28 unique steps:

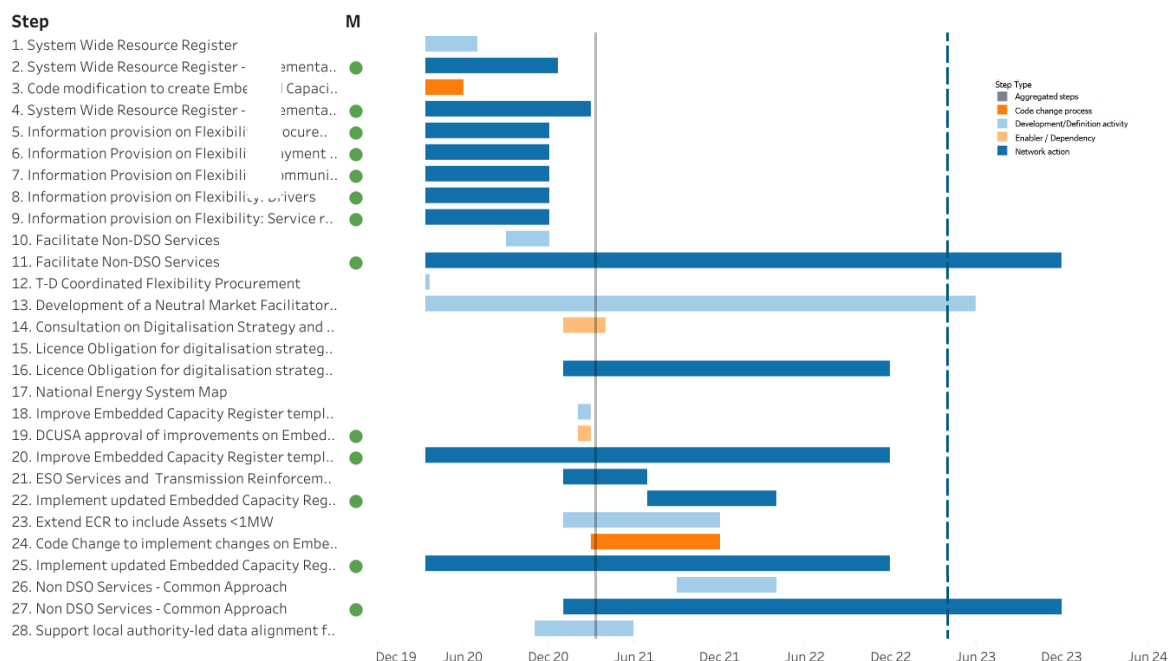


Figure 12 Services Market and Facilitation – Activity E roadmap

Figure 13 shows the total number of organisations' contributions to the unique steps. As of March 2021 a large proportion (~44%) of this activity have been completed, particularly steps that are driven by ENA ONP Good Practices. The same proportion (~44%) is in the organisations' pipeline to implement but have not started yet ("Initiated"). Approximately 11% of organisations' contributions are under implementation and 1% of this activity is not started yet.

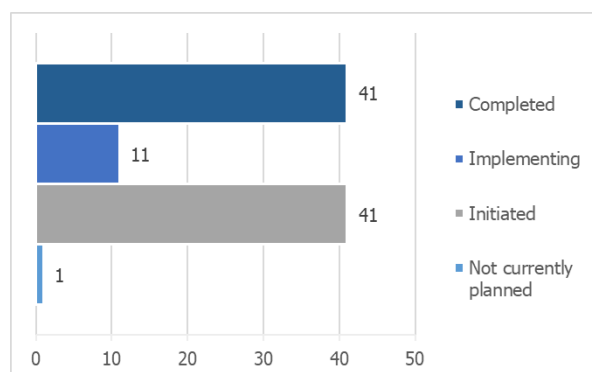


Figure 13 Progress against implementation of "Services Market and Facilitation" – Activity E (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity E.

Step 1

Step:	System Wide Resource Register
Step type:	Development / definition activity
Description:	ENA ONP Workstream 2 Product 1 (2020) will continue to support the individual DNOs with the rollout of the agreed System Wide Resource Register (SWRR) to provide visibility of resources >1MW that are connected to their network as well as the reinforcement queue. This product will also consider any further enhancements to the SWRR to improve information provision including future work from any output of the Data Working Group or Data Task Force outputs (e.g. any Office of National Statistics resource register).
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2020 - July 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	<p>This is an ENA ONP activity that started in 2019 and continues within 2020. This step will inform steps 2 and 4 below.</p> <p>Link to the 2020 document below:</p> <p>https://www.energynetworks.org/assets/images/ON20-WS2-P1%20ECR%20-%20Indusion%20of%20Smaller%20Assets-PUBLISHED.23.12.20.pdf</p>

Step 2

Step:	System Wide Resource Register - Implementation Phase 1
Step type:	Network actions
Description:	Implementation Phase 1 of the implementation of the SWRR relates involves population of consistent templates. Informed by ENA ONP Workstream 2 Product 1 (2020).
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2019 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	<p>This step refers to the first phase of the System Wide Resource Register (SWRR) implementation.</p> <p>The step is also linked to a code modification (see step 3 below).</p> <p>Some of the barriers flagged by DNOs include GDPR compliance, Commercial Sensitivities, low quality of historic data.</p> <p>Link to the 2020 document below:</p> <p>https://www.energynetworks.org/assets/images/ON20-WS2-P1%20ECR%20-%20Indusion%20of%20Smaller%20Assets-PUBLISHED.23.12.20.pdf</p>

Step 3

Step:	Code modification to create Embedded Capacity Registers
Step type:	Code change process
Description:	This step refers to the DCUSA modification DCP350 to implement embedded capacity registers and place obligations on DNOs to provide relevant data. This will place legal obligation on DNOs and IDNOs to publish data including customer name and site. The modification is also relevant for the implementation of the System Wide Resource Register.
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2020 - June 2020
Organisation type:	
Progress:	Completed(1)
Additional information:	<p>This code modification was raised to support implementation of the SWRR.</p> <p>It will inform DNOs actions (step 2 and 4).</p> <p>Link to the 2020 document below:</p> <p>https://www.energynetworks.org/assets/images/ON20-WS2-P1%20ECR%20-%20Indusion%20of%20Smaller%20Assets-PUBLISHED.23.12.20.pdf</p>

Step 4

Step:	System Wide Resource Register - Implementation Phase 2
Step type:	Network actions
Description:	Implementation Phase 2 of the implementation of the SWRR requires DNOs to develop methodologies to report on reinforcement works and publish reinforcement tables. Informed by ENA ONP Workstream 2 Product 1 (2020).
ENA ONP Product:	2020 WS2 P1
Timeline:	January 2019 - March 2021
Organisation type:	DNO(6)
Progress:	Initiated(4), Implementing(1), Completed(1)
Additional information:	<p>This step is dependent on step 1 and ENA ONP outcomes and recommendations regarding the SWRR. The step is also linked to a code modification (see step 3).</p> <p>Link to the 2020 document below:</p> <p>https://www.energynetworks.org/assets/images/ON20-WS2-P1%20ECR%20-%20Indusion%20of%20Smaller%20Assets-PUBLISHED.23.12.20.pdf</p>

Step 5

Step:	Information provision on Flexibility: Procurement
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on procurement method including (a) Chosen method e.g. competitive tender vs fixed price, (b) Timeline for procurement exercise, (c) Assessment criteria for procurement exercise.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	All DNOs have completed the step. Some of them are now considering optimisation processes to determine the most effective approach based on learnings and stakeholder engagement. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 6

Step:	Information Provision on Flexibility: payment approach, structure and contract length
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on payment approach, structure and possible contract lengths, including (a) Types of payments the provider can expect to receive for being on standby and delivering a service, (b) Whether the prices paid are set or can be specified by potential providers, (c) Behaviour that would constitute an Event of Default and the associated penalty.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Implementing(1), Completed(5)
Additional information:	Most DNOs have completed the step, one of them is validating the process. Some of them are now considering optimisation processes to determine the most effective approach based on learnings and stakeholder engagement. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 7

Step:	Information Provision on Flexibility: Communication
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: (a) Information on maps/graphical representations should be similar if not identical across networks, (b) depending on service type, flag visibility of services both at an early stage (~18 months) and in advance (~6 months), (c) offer one to one meetings to potential providers and allow for more detailed and tailored engagement, and (d) Set Service Level Agreements (SLA) for response time to queries.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Initiated(1), Completed(5)
Additional information:	Most DNOs have completed the step. DNOs have mentioned that there is lack of standardisation among DNOs related to mapping of flexible services and communication. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 8

Step:	Information provision on Flexibility: Drivers
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on the drivers for the service/the network requirement including whether the needs are a short or long term requirement.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	All DNOs have completed the step. Some of them are now optimising their processes. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 9

Step:	Information provision on Flexibility: Service requirements
Step type:	Network actions
Description:	ENA ONP Workstream 2 Product 4 (2018) good practice: Share information on service requirements including (a) The characteristics required by assets to deliver the service (as described in Workstream 1 Product 2 (2018)), (b) Minimum MW thresholds if applicable, (c) Locational requirements, (d) Specified service windows – whether requirements vary within the day, week, month, season etc.
ENA ONP Product:	2018 WS2 P4
Timeline:	January 2018 - December 2020
Organisation type:	DNO(6)
Progress:	Completed(6)
Additional information:	All DNOs have completed the step. Some of them are now optimising their processes. More details on the previous DNOs' update on this step can be found in the link below: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-prj-monitoring-implementation-(q4-2019).pdf

Step 10

Step	Facilitate Non-DSO Services
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 6 (2020) tests the principles/rules of engagement for market participants to trade energy locally or exchange capacity and curtailment obligations within the context of the TEF projects and the BEIS Flexibility exchange demonstration competition (Flex) and Power Forward projects. It also tests the data sets that were identified by 2019 WS1A P6 to enable neutral facilitation of these new markets both pre & post transaction to ensure there is no detrimental impact on the network. Over the course of RIIO-ED1, the ENA ONP will monitor and facilitate the development of new non-DSO services as required.
ENA ONP Product:	2020 WS1A P6
Timeline:	September 2020 - December 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This step will use information and outcomes from project TRANSITION (see steps 13 below). For more information on this step please see the final report below: https://www.energynetworks.org/assets/images/ON20-WS1A-P6%20Non%20DSO%20Services-PUBLISHED.23.12.20.pdf

Step 11

Step	Facilitate Non-DSO Services
Step type:	Network actions
Description:	Implement outcomes from ENA ONP Workstream 1A Product 6 (2020) to facilitate local energy trading or exchange capacity and curtailment obligations. IT/infrastructure changes may be required to provide data for the facilitation of new markets and identification and management of potential conflicts.
ENA ONP Product:	2020 WS1A P6
Timeline:	March 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(5), Implementing(1)
Additional information:	<p>High complexity related to enabling trades of capacity has been raised as a potential barrier.</p> <p>In addition, as per DNOs, the implementation of this step will require a trading platform to facilitate real time trading actions and a process that will consider whether participant trade energy or transfer contractual capabilities to other participants.</p> <p>DNOs are waiting for outputs from ENA ONP 2020 WS1A P6 (step 10) and TEF projects (step 13).</p> <p>For more information on this step please see the final report below: https://www.energynetworks.org/assets/images/ON20-WS1A-P6%20Non%20DSO%20Services-PUBLISHED.23.12.20.pdf </p>

Step 12

Step:	T-D Coordinated Flexibility Procurement
Step type:	Development / definition activity
Description:	NGESO and WPD are trialling coordinated flexibility procurement for transmission and distribution through a common platform in the Cornwall Energy Market project. This innovation project will further inform next steps on T-D coordinated flexibility procurement.
ENA ONP Product:	N/A
Timeline:	September 2019 - March 2020
Organisation type:	ESO(1)
Progress:	Completed(1)
Additional information:	<p>This is a step that will be informed by ESO and WPD coordination on the Cornwall Energy Market project.</p> <p>More details on the project can be found below: https://www.centrica.com/innovation/cornwall-local-energy-market </p>

Step 13

Step:	Development of a Neutral Market Facilitator testbed.
Step type:	Development / definition activity
Description:	Across the TEF projects, market facilitation functionality will be developed, built and tested. Non traditional models such as Non-DSO services shall be trialled, with TRANSITION (in partnership with Project LEO) investigating local energy market drivers.
ENA ONP Product:	N/A
Timeline:	January 2019 - June 2023
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	This is a TRANSITION-led step. It will inform ENA ONP development activities (step 10). For more information please see link below: https://ssen-transition.com/ https://ssen-transition.com/dso/leo/

Step 14

Step:	Consultation on Digitalisation Strategy and Action Plan guidance
Step type:	Enablers / Dependencies / Barriers
Description:	Ofgem is planning to carry out a consultation on the Digitalisation Strategies and Action Plan guidance to update their draft guidance and propose licence obligations for network companies.
ENA ONP Product:	N/A
Timeline:	January 2021 - April 2021
Organisation type:	Regulator(1)
Progress:	Implementing(1)
Additional information:	

Step 15

Step:	Licence Obligation for digitalisation strategy and action plan
Step type:	Enablers / Dependencies / Barriers
Description:	Ofgem to introduce licence obligation for network companies' digitalisation strategy and action plans as part of the processes on designing the RIIO-2 and RIIO-ED2 price controls
ENA ONP Product:	N/A
Timeline:	N/A
Organisation type:	Regulator(1)
Progress:	Initiated(1)
Additional information:	

Step 16

Step:	Licence Obligation for digitalisation strategy and action plan
Step type:	Network actions
Description:	Networks Companies to implement processes and changes in order to prepare for comply with Ofgem's licence conditions on digitalisation strategy and action plan.
ENA ONP Product:	N/A
Timeline:	January 2021 - December 2022
Organisation type:	DNO(6), ESO(1), TO(3)
Progress:	Initiated(9), Implementing(1)
Additional information:	

Step 17

Step:	National Energy System Map
Step type:	Development / definition activity
Description:	The ENA Data Working Group carries out ongoing work to develop the National Energy System Map (NESM) that is being developed as a platform/tool to share data with non-network organisations.
ENA ONP Product:	N/A
Timeline:	N/A
Organisation type:	ENA(1)
Progress:	
Additional information:	

Step 18

Step:	Improve Embedded Capacity Register template
Step type:	Development / definition activity
Description:	2021 WS2 Product 1 will progress and complete recommendations from December 2020 ENA's report which will improve the templates of Embedded Capacity Registers including data fields and definitions.
ENA ONP Product:	2021 WS2 P1
Timeline:	February 2021 - March 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 19

Step:	DCUSA approval of improvements on Embedded Capacity Register
Step type:	Enablers / Dependencies / Barriers
Description:	DCUSA process to present and approve changes identified by ENA ONP Worskstream 2 Product 1 related to Embedded Capacity Register (ECR) teplate
ENA ONP Product:	2021 WS2 P1
Timeline:	February 2021 - March 2021
Organisation type:	Regulator(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 20

Step:	Improve Embedded Capacity Register template
Step type:	Network actions
Description:	DNOs to update new template as per developments of ENA ONP WS2 Product 1 which will improve the templates of Embedded Capacity Registers including data fields and definitions.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(5), Completed(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 21

Step:	ESO Services and Transmission Reinforcement information in Embedded Capacity Registers (ECRs)
Step type:	Network actions
Description:	2021 WS2 Product 1 will implement proposals to include ESO Services and Transmission Reinforcement information in ECRs. Work to link to Tx reinforcements (e.g. Transmission Work Registers) and include ESO balancing Services information.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2021 - July 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 22

Step:	Implement updated Embedded Capacity Register
Step type:	Network actions
Description:	2021 WS2 Product 1 will implement proposals to include ESO Services and Transmission Reinforcement information in ECRs. TOs will support and implement these changes.
ENA ONP Product:	2021 WS2 P1
Timeline:	July 2021 - April 2022
Organisation type:	TO(3), ESO(1)
Progress:	Initiated(4)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 23

Step:	Extend ECR to include Assets <1MW
Step type:	Development / definition activity
Description:	2021 WS2 Product 1 will finalise proposals to include further DER resources including DNO costs to implement. Develop and enact proposals to source ECR data for additional assets.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2021 - December 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 24

Step:	Code Change to implement changes on Embedded Capacity Register
Step type:	Code change process
Description:	Further code changes relating to the extension of the ECR to include assets smaller than 1MW will take place.
ENA ONP Product:	2021 WS2 P1
Timeline:	March 2021 - December 2021
Organisation type:	
Progress:	Initiated(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 25

Step:	Implement updated Embedded Capacity Register
Step type:	Network actions
Description:	DNOs to implement updates on the Embedded Capacity Register as per developments under ENA ONP WS2 Product 1 and code changes.
ENA ONP Product:	2021 WS2 P1
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(5), Completed(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 26

Step:	Non DSO Services - Common Approach
Step type:	Development / definition activity
Description:	Drawing on learning from market simulations and shared and traded capacity trial, ENA ONP will establish a common methodology across DNOs
ENA ONP Product:	2021 WS1A P6
Timeline:	September 2021 - April 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 27

Step:	Non DSO Services - Common Approach
Step type:	Network actions
Description:	Based on outcomes of the work that will be delivered by ENA ONP through WS1A P6 (in 2021 and 2022), DNOs to adopt a common approach to sharing and trading capacity (e.g. rules and requisite datasets that enable facilitation of these markets by DNOs).
ENA ONP Product:	2021 WS1A P6
Timeline:	January 2021 - December 2023
Organisation type:	DNO(6)
Progress:	Not currently planned(1), Initiated(5)
Additional information:	For more on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 28

Step:	Support local authority-led data alignment for coordinated gathering of regional data.
Step type:	Development / definition activity
Description:	Under 2021 WS4 Product 3 ENA ONP will continue to liaised with Ofgem/BEIS to support progress on Local Authority led data alignment approach to regional data gathering .
ENA ONP Product:	2021 WS1A P6
Timeline:	November 2020 - June 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Activity F: Service conflict mitigation/resolution

Description: Identify, manage and mitigate service conflicts (e.g. GBSO and DSO use of resources). Enable sharing of services where feasible.

Figure 14 displays the roadmap for activity F which consists of 6 unique steps:

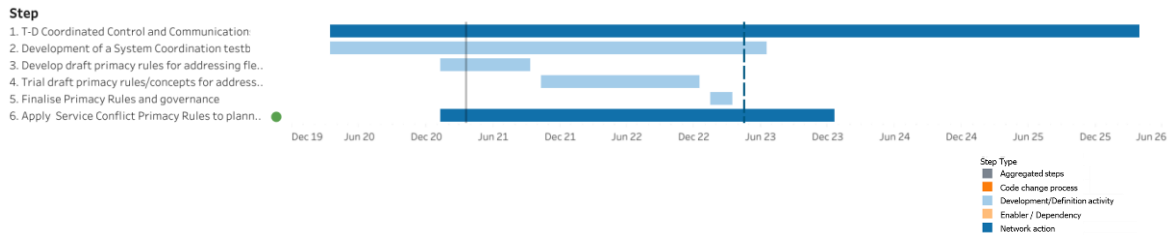


Figure 14 Services Market and Facilitation – Activity F roadmap

Figure 15 shows the total number of organisations' contributions to the unique steps. As of March 2021 just under half (~47%) of the steps is in the organisations' pipeline to implement but have not started yet ("Initiated"). A large number of steps is being implemented (~43%), whilst one organisation has already completed one step and one organisation has responded that they are not currently planning for implementation.

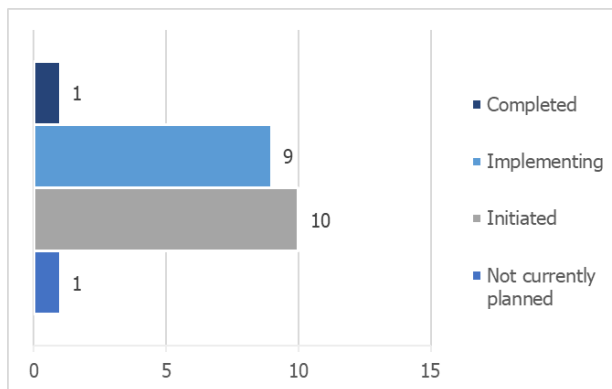


Figure 15 Progress against implementation of "Services Market and Facilitation" – Activity F (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity F.

Step 1

Step:	T-D Coordinated Control and Communications Systems Architecture
Step type:	Network actions
Description:	Roll-out of architecture of control/comms systems between transmission and distribution to achieve whole system coordination that allows managing conflicts of services, N-3 (operational tripping scheme) and Connect & Manage. Informed by outcomes from ENA ONP Workstream 1 P13 (2018).
ENA ONP Product:	2018 WS1 P13
Timeline:	January 2019 - March 2026
Organisation type:	DNO(6), TO(3), ESO(1)
Progress:	Not currently planned(1), Initiated(1), Implementing(7), Completed(1)
Additional information:	<p>The implementation of this step involves all network companies. Timings vary between DNOs, TOs and the ESO.</p> <p>One DNO is not currently planning to implement this step, although they mentioned that this is subject to future requirements.</p> <p>DNOs have also mentioned that this step will be progressed and further informed by the regional development programmes (RDPs) and other projects with the ESO (e.g. UKPN-ESP trialling the provision of reactive power services).</p> <p>TOs highlighted that this is BAU operation for them; implementation dates reflect further improvements, such as smart grid solutions.</p> <p>The step will be also informed by TEF projects (see step 2)</p> <p>This step was originally informed by the following ENA ONP document: https://www.energynetworks.org/assets/images/Resource%20library/ON18-WS1-P13%20Interim%20Report%20(PUBLISHED).pdf</p>

Step 2

Step:	Development of a System Coordination testbed.
Step type:	Development / definition activity
Description:	Across the TEF projects, coordination functionality will be developed, built and tested. These functions will manage congestion and mitigate (or at least fully understand) conflicts. There is an opportunity to test using DSO Services, Non-DSO Services and ESO Services.
ENA ONP Product:	N/A
Timeline:	April 2019 - June 2023
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	<p>Step added by TRANSITION. It is linked to step 1.</p> <p>For more information on project TRANSITION please see link below: https://ssen-transition.com/</p>

Step 3

Step:	Develop draft primacy rules for addressing flexibility service conflicts.
Step type:	Development / definition activity
Description:	2021 WS1A P5 will develop a draft set of principles and primacy rules (Version 1) for addressing flexibility service conflicts (T-D). These rules will look to balance: the local networks' technical requirements; the risks to the overall operability of the whole system; the value for Flexibility Service Providers (FSPs) through the facilitation of market / price driven actions; the needs of emerging market based platform developers; and ultimately the end consumer.
ENA ONP Product:	2021 WS1A P5
Timeline:	January 2021 - September 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 4

Step:	Trial draft primacy rules/concepts for addressing flexibility services conflicts.
Step type:	Development / definition activity
Description:	Following the publication of draft set of principles and primacy rules for addressing flexibility service conflicts (T-D), ENA ONP will trial the draft Primacy Rules / concepts and review impacts [in the Regional Development Programme Areas where the use cases can be accommodated in the live environment].
ENA ONP Product:	2021 WS1A P5
Timeline:	October 2021 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 5

Step:	Finalise Primacy Rules and governance
Step type:	Development / definition activity
Description:	ENA ONP will update principles and primacy rules for addressing flexibility service conflicts (T-D) based on trial learnings and will publish an roll-out implementation plan for network companies.
ENA ONP Product:	2021 WS1A P5
Timeline:	January 2023 - March 2023
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Step 6

Step:	Apply Service Conflict Primacy Rules to planning and operational processes
Step type:	Network actions
Description:	DNOs and the ESO to develop and sign off a full roll out programme to accommodate the Primacy Rules, agree change process and governance of Primacy Rules. Depending on the solution(s) identified likely to require major changes to operational processes , enhanced data exchanges / systems. This implementation plan will most likely take place in ED2.
ENA ONP Product:	2021 WS1A P5
Timeline:	January 2021 - December 2023
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(7)
Additional information:	For more information on this step please see the Project Initiation Document (PID) link below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-2021%20Project%20Initiation%20Document%20Pre%20Consultation-PUBLISHED.02.02.21.pdf

Activity G: T-D co-ordination for transparent and consistent whole system outcomes

Description: Enable a more co-ordinated approach to the operation of services and markets and enable consistent whole system outcomes through enhanced Transmission and Distribution visibility, co-ordination and control.

Figure 16 displays the roadmap for activity G which consists of 28 unique steps:

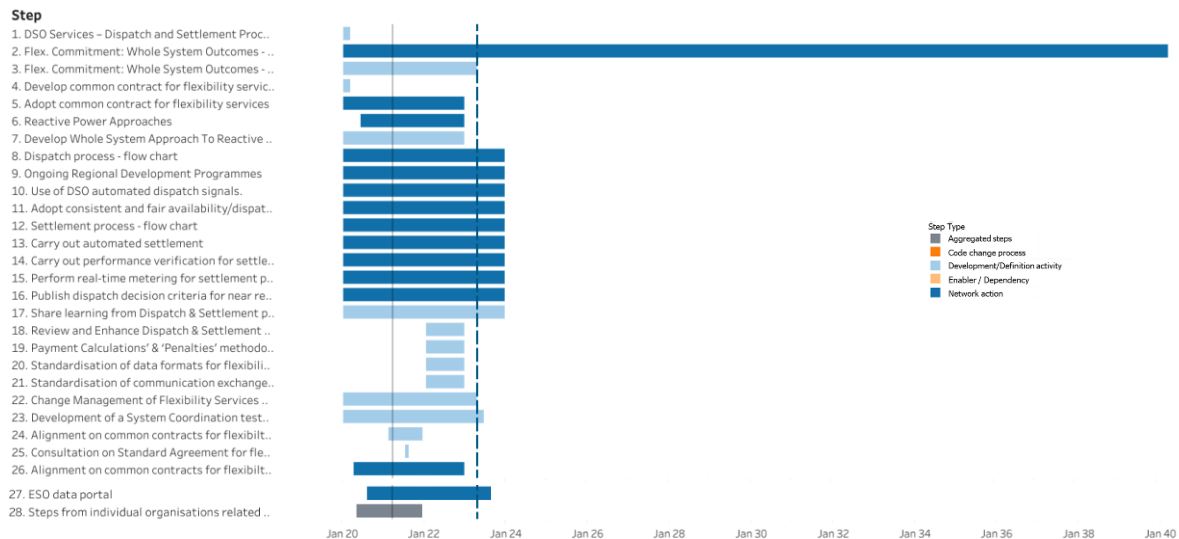


Figure 16 Services Market and Facilitation – Activity G roadmap

Figure 17 shows the total number of organisations' contributions to the unique steps. As of March 2021 approximately 37% of the steps in this activity are in the organisations' pipeline to implement but have not started yet ("Initiated"). Just over 20% of them have been completed and roughly 40% of the steps are being implemented.

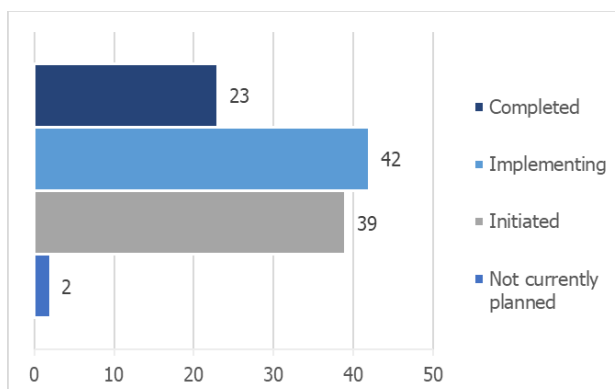


Figure 17 Progress against implementation of "Services Market and Facilitation" – Activity G (No. of steps-contributions of each organisation)

The tables on the following pages provide detailed information for each step under Activity G.

Step 1

Step:	DSO Services – Dispatch and Settlement Processes
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 3 (2019) reviews current activation, dispatch and settlement processes and develops good practice for activation and dispatch and identify what DNO capabilities are required to support this. This good practice includes alignment of DSO and NG ESO services in terms of procurement, timescales, service windows and contract terms as much as possible.
ENA ONP Product:	2019 WS1A P3
Timeline:	January 2019 - March 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This ENA ONP development activity has now been completed and has produced a number of good practice and implementation actions for DNOs (see steps 9, 11, 13 - 23) https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 2

Step:	Flex. Commitment: Whole System Outcomes - coordination
Step type:	Network actions
Description:	As part of ENA Flexibility Next Step 6 (Work together towards whole systems outcomes): Facilitate coordinated and efficient arrangements which benefit households and businesses, including activities relating to the decarbonisation of heat and transport.
ENA ONP Product:	Flex. Commitment
Timeline:	January 2009 - January 2050
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(2), Implementing(5)
Additional information:	As per DNOs, this step covers a wide range of topics, including joint planning with local authorities, improving business processes relating to LCT connections and improved stakeholder information. Government policy regarding low carbon technologies and public willingness to change can enable the implementation of this action. Barrier to this step include lack of resourcing to deliver required work and lack of ability to make targeted investment in this area of whole system coordination. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 3

Step:	Flex. Commitment: Whole System Outcomes - coordination
Step type:	Development / definition activity
Description:	As part of ENA Flexibility Next Step 6 (Work together towards whole systems outcomes): Facilitate coordinated and efficient arrangements which benefit households and businesses, including activities relating to the decarbonisation of heat and transport.
ENA ONP Product:	Flex. Commitment
Timeline:	June 2019 - April 2023
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	This step reflects ENA ONP contribution to the specific flex. commitment. Link to flexibility commitment document: https://www.energynetworks.org/industry-hub/resource-library/open-networks-2019-implementation-of-flexibility-next-steps.pdf

Step 4

Step:	Develop common contract for flexibility services
Step type:	Development / definition activity
Description:	ENA ONP Workstream 1A Product 4 delivered in 2020 a flexibility Services Standard Agreement to be adopted by all DNOs (for all Flexibility Services).
ENA ONP Product:	2020 WS1A P4
Timeline:	January 2019 - March 2020
Organisation type:	ENA ONP(1)
Progress:	Completed(1)
Additional information:	This step has informed step 5 for the DNOs and the ESO. Working with law firm CMS, the ENA product team produced a standard contract for the procurement of flexibility and an associated implementation plan. The contract has been drafted by all of Britain's DNOs and takes into account vital input from the industry. The contract will be used by all of Britain's DNOs for procuring flexibility, as it seeks to improve the customer journey and ease engagement with the energy system. The standard contract can be accessed and downloaded at the ENA website . Link to ENA ONP's relevant documents: Summary

Step 5

Step:	Adopt common contract for flexibility services
Step type:	Network actions
Description:	DNOs to adopt the first version of Flexibility Services Standard Agreement that was developed by ENA ONP in 2020. This agreement is common across all DNOs and used for all flexibility services.
ENA ONP Product:	2020 WS1A P4
Timeline:	January 2020 - December 2022
Organisation type:	DNO(6)
Progress:	Initiated(4), Implementing(1), Completed(1)
Additional information:	<p>This step is dependent on Step 4 (above). Working with law firm CMS, the ENA product team produced a standard contract for the procurement of flexibility and an associated implementation plan. The contract has been drafted by all of Britain's DNOs and takes into account vital input from the industry. The contract will be used by all of Britain's DNOs for procuring flexibility, as it seeks to improve the customer journey and ease engagement with the energy system. The standard contract can be accessed and downloaded at the ENA website.</p> <p>Link to ENA ONP's relevant documents: Summary</p>

Step 6

Step:	Reactive Power Approaches
Step type:	Network actions
Description:	Develop a strategy outlining how to integrate learnings from all reactive power projects (pathfinders, Power Potential, DNO boundary investigations) to create a coherent plan for the development for the future of reactive power.
ENA ONP Product:	N/A
Timeline:	June 2020 - December 2022
Organisation type:	ESO(1)
Progress:	Implementing(1)
Additional information:	<p>This is an ESO-led step. This step is also included in the ESO's forward plan (Role 2 priorities): https://www.nationalgrideso.com/document/166441/download</p>

Step 7

Step:	Develop Whole System Approach To Reactive Power Services
Step type:	Development / definition activity
Description:	The ESO and the DNOs to work together to increase system flexibility by using more DER (Distributed Energy Resources) capabilities and provide network support at a distribution and transmission level, including new reactive power markets. As part of that, the ESO is working with UKPN on the Power Potential (NIC project) to understand how reactive power services can be co-ordinated for both transmission and distribution needs. Through this the ESO will generate additional capacity on the whole electricity system.
ENA ONP Product:	N/A
Timeline:	January 2017 - December 2022
Organisation type:	ESO(1), DNO(6)
Progress:	Not currently planned(1), Initiated(4), Implementing(2)
Additional information:	This step is currently implemented by the ESO and UKPN, who are working together on the Power Potential project. DNOs are monitoring outcomes of this project for further implementation of the step. DNOs' reactive power tenders will also inform this step. Link to the project below: https://www.nationalgrideso.com/future-energy/innovation/projects/power-potential https://innovation.ukpowernetworks.co.uk/projects/power-potential/

Step 8

Step:	Dispatch process - flow chart
Step type:	Network actions
Description:	DNOs produced Good Practice flow charts for the dispatch process as part of the ENA ONP Workstream 1A Product 3 (2019). DNOs to ensure that they adhere to the process defined in the flow chart in relation to dispatch.
ENA ONP Product:	2019 WS1A P3
Timeline:	July 2018 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(2), Completed(3)
Additional information:	This step is linked to the ENA ONP development activity (step 1). For more details on this step, please see the document below: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 9

Step:	Ongoing Regional Development Programmes
Step type:	Network actions
Description:	Development of Regional Development Programmes with industry partners as and when required. Objective is to inform protocols for short-term contingency planning between DSO & ESO utilising ancillary services. Implement new commercial contracts that optimise use of existing network assets by allowing DER to connect and provide transmission constraint management services to help manage their impact. ESO/ DNOs/ TOs collaboration to develop enhanced ways of working that facilitate active DER management for transmission system needs. DNOs and ESO to develop a process that facilitates proactive identification of future RDPs.
ENA ONP Product:	N/A
Timeline:	August 2016 - December 2023
Organisation type:	ESO(1), DNO(6), TO(3)
Progress:	Not currently planned(1), Initiated(2), Implementing(7)
Additional information:	Currently most companies are in discussion with the ESO or already implementing a regional development programme. One DNO is not currently planning an RDP, on the basis that current needs/requirements do not drive such an action. Most information can be found on the ESO's website: https://www.nationalgrideso.com/research-publications/regional-development-programmes

Step 10

Step:	Use of DSO automated dispatch signals.
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 3 (2019) good practice: Long term, automated dispatch systems offer the greatest level of efficiency, accuracy and reliability. Where increased flexibility activity makes manual signalling in-efficient due to resource intensity, the DNO should adopt an automated system.
ENA ONP Product:	2019 WS1A P3
Timeline:	April 2018 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(2), Implementing(3), Completed(1)
Additional information:	This step is linked to the ENA ONP development activity (step 1). To implement this step DNOs need to have sufficient need to dispatch contracted flexible service. Also one DNO has mentioned that the delivery of ANM system will facilitate automated dispatch. For more details on this step, please see the document below: https://www.energynetworks.org/assets/images/Resource library/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 11

Step:	Adopt consistent and fair availability/dispatch criteria.
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 3 (2019) good practice: Where multiple flexibility providers could provide a service in excess of the requirement, a DNO should adopt consistent and fair criteria to assess which flexibility providers will be secured for capacity availability and/or utilisation. The ENA product team has developed Guiding Principles for the application of decision criteria.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(3), Implementing(1), Completed(2)
Additional information:	This step is linked to the ENA ONP development activity (step 1). For DNOs that do not over procure flexible services, there is no requirement for this action yet. For more details on this step, please see the document below: https://www.energynetworks.org/assets/images/Resource library/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 12

Step:	Settlement process - flow chart
Step type:	Network actions
Description:	DNOs produced Good Practice flow charts for the settlement process as part of the ENA ONP Workstream 1A Product 3 (2019). DNOs to ensure that they adhere to the process defined in the flow chart in relation to settlement.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(3), Completed(2)
Additional information:	This step is linked to the ENA ONP development activity (step 1). As per DNOs, investment in automated settlement can be justified if there are sufficient volumes of flexible services. For more details on this step, please see the document below: https://www.energynetworks.org/assets/images/Resource library/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 13

Step:	Carry out automated settlement
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 3 (2019) good practice: As volumes of flexibility requirements increase, DNOs not already using a system to automated settlement should consider the cost effectiveness of doing so.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(3), Implementing(2), Completed(1)
Additional information:	This step is linked to the ENA ONP development activity (step 1). As per DNOs, investment in automated settlement can be justified if there are sufficient volumes of flexible services. See: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 14

Step:	Carry out performance verification for settlement processes
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 3 (2019) good practice: As volumes of flexibility requirements increase, DNOs not already using a system to automated verification should consider the cost effectiveness of doing so.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(2), Completed(3)
Additional information:	This step is linked to the ENA ONP development activity (step 1). As per DNOs, investment in automated settlement can be justified if there are sufficient volumes of flexible services. See: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 15

Step:	Perform real-time metering for settlement processes
Step type:	Network actions
Description:	ENA ONP Workstream 1A Product 3 (2019) good practice: As DNOs develop into real time operation of active products, the ability to receive and verify metering data in real time is advantageous.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(2), Completed(3)
Additional information:	This step is linked to the ENA ONP development activity (step 1). As per DNOs, investment in automated settlement can be justified if there are sufficient volumes of flexible services. See: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 16

Step:	Publish dispatch decision criteria for near real time
Step type:	Network actions
Description:	All DNOs to publish their decision criteria for near real-time dispatch as this has been advised by the ENA ONP Workstream 1A Product 3 dispatch guiding principles.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(1), Implementing(3), Completed(2)
Additional information:	This step is linked to the ENA ONP development activity (step 1). See: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 17

Step:	Share learning from Dispatch & Settlement processes
Step type:	Development / definition activity
Description:	DNOs to share learning on Dispatch & Settlement from developing and operating flexibility within 2020. This step is linked to the 2019 ENA ONP Workstream 3 Product 1.
ENA ONP Product:	2019 WS1A P3
Timeline:	December 2019 - December 2023
Organisation type:	DNO(6)
Progress:	Initiated(3), Implementing(2), Completed(1)
Additional information:	This step is linked to the ENA ONP development activity (step 1). DNOs will share learnings of implementing all the associated steps (see steps 8, 10, 12 - 17). DNOs who will not procure flexibility within 2020 will not contribute to this step. See: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 18

Step:	Review and Enhance Dispatch & Settlement processes
Step type:	Development / definition activity
Description:	DNO representatives will re-group to share learning and experience on Dispatch and Settlement Processes. This shared learning will inform what activity the Open Networks project might want to undertake in Dispatch & Settlement in 2021. This step is linked to the 2019 ENA ONP Workstream 3 Product 1.
ENA ONP Product:	2019 WS1A P3
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	This step is dependent on step 19 and the lessons learnt from the dispatch and settlement processes within 2020. This step will inform ENA ONP 2021 plan (steps 8, 10, 12 -18). See: https://www.energynetworks.org/assets/images/ResourceLibrary/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 19

Step:	Payment Calculations' & 'Penalties' methodologies for flexibility services
Step type:	Development / definition activity
Description:	The ENA ON product team will further develop 'Payment Calculations' & 'Penalties' methodologies to identify good practice and identify commonality opportunities. ENA ONP Workstream 1A Product 3 has highlighted this area for further development.
ENA ONP Product:	2019 WS1A P3
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	This is an ENA ONP-led step. As per ENA ONP, this step is highly likely to be part of 2021 ENA ONP activities. For more details, please see: https://www.energynetworks.org/assets/images/Resource library/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 20

Step:	Standardisation of data formats for flexibility services
Step type:	Development / definition activity
Description:	The ENA ON product team will Determine and employ strategy to achieve standardisation of published flexibility requirement data and flexibility post requirement data. ENA ONP Workstream 1A Product 3 has highlighted this area for further development.
ENA ONP Product:	2019 WS1A P3
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	This is an ENA ONP-led step. As per ENA ONP, this step is highly likely to be part of 2021 ENA ONP activities. For more details, please see: https://www.energynetworks.org/assets/images/Resource library/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 21

Step:	Standardisation of communication exchange and protocols for flexibility services
Step type:	Development / definition activity
Description:	The ENA ON product team will determine and employ strategy to achieve standardisation of communication exchanges and protocols. ENA ONP Workstream 1A Product 3 has highlighted this area for further development.
ENA ONP Product:	2019 WS1A P3
Timeline:	January 2022 - December 2022
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	This is an ENA ONP-led step. As per ENA ONP, this step is highly likely to be part of 2021 ENW ONP activities. For more details, please see: https://www.energynetworks.org/assets/images/Resource library/ON19-WS1A-P3 Dispatch Settlement Processes (PUBLISHED).pdf

Step 22

Step:	Change Management of Flexibility Services Standard Agreement
Step type:	Development / definition activity
Description:	ENA ONP over the course of RIIO-ED1 to maintain, update and enhance the Flexibility Services Standard Agreement as required.
ENA ONP Product:	2020 WS1A P4
Timeline:	January 2020 - April 2023
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	This step is linked to step 5S of this activity. More information on the ENA ONP planned ongoing review process can be found here: https://www.energynetworks.org/assets/images/Resource%20library/ON20-WS1A-P4%20CMS%20Updated%20Contract%20Summary%20(PUBLISHED).pdf

Step 23

Step:	Development of a System Coordination testbed.
Step type:	Development / definition activity
Description:	Across the TEF projects, coordination functionality will be developed, built and tested. These functions will manage congestion and mitigate (or at least fully understand) conflicts. There is an opportunity to test using DSO Services, Non-DSO Services and ESO Services.
ENA ONP Product:	N/A
Timeline:	April 2019 - June 2023
Organisation type:	TEF(1)
Progress:	Implementing(1)
Additional information:	Step added by TRANSITION. It is linked to step 1. See: https://ssen-transition.com/

Step 24

Step:	Alignment on common contracts for flexibility services
Step type:	Development / definition activity
Description:	ENA Open Networks is working towards improving the Standard Agreement that was developed in 2020 and adopted by DNOs. Within 2021 ENA ONP Workstream 1A Product 4 will seek to include in the DNOs' agreement liability, indemnity and insurance (L, I & I) elements resultant from the Ofgem/BEIS workshop in 2020 and release an updated Version 1.2. ENA ONP is also aiming to commence alignment between the Standard Contract and ESO's general Terms and Conditions document to produce Version 2 of the industry Standard Agreement for full consultation before implementation.
ENA ONP Product:	2021 WS1A P4
Timeline:	February 2021 - December 2021
Organisation type:	ENA ONP(1)
Progress:	Implementing(1)
Additional information:	https://www.energynetworks.org/assets/images/Resource%20library/ON21-WS1A-P4%20Common%20Contract%20V1.2%20Supporting%20Slides%20(01%20March%202021).pdf

Step 25

Step:	Consultation on Standard Agreement for flexibility services
Step type:	Development / definition activity
Description:	2021 WS1A P4 will produce 2 updated versions of the Standard Agreement within 2021. ENA ONP will run an external consultation on version 2 which will align Standard Agreement with ESO T&Cs documents.
ENA ONP Product:	2021 WS1A P4
Timeline:	July 2021 - August 2021
Organisation type:	ENA ONP(1)
Progress:	Initiated(1)
Additional information:	For more information on this step please see the standard agreement document below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-WS1A-P4%20Common%20Contract%20V1.2%20Supporting%20Slides%20(01%20March%202021).pdf

Step 26

Step:	Alignment on common contracts for flexibility services
Step type:	Network actions
Description:	DNOs and the ESO to adopt the updated Flexibility Services Standard Agreement which will provide alignment between the Standard DNO Contracts and ESO general Terms and Conditions.
ENA ONP Product:	2021 WS1A P4
Timeline:	April 2020 - December 2022
Organisation type:	DNO(6), ESO(1)
Progress:	Initiated(5), Completed(2)
Additional information:	For more information on this step please see the standard agreement document below: https://www.energynetworks.org/assets/images/Resource%20library/ON21-WS1A-P4%20Common%20Contract%20V1.2%20Supporting%20Slides%20(01%20March%202021).pdf

Step 27

Step:	ESO data portal
Step type:	Network actions
Description:	ESO to develop a data portal to provide the highest level of transparency and easy access to data. Through the developed data portal, the ESO will publish its data list and schedule of actions taken in timescales prior to the Balancing Mechanism
ENA ONP Product:	N/A
Timeline:	August 2020 - August 2023
Organisation type:	ESO(1)
Progress:	Implementing(1)
Additional information:	

Step 28

Step:	Steps from individual organisations related to this activity
Step type:	Aggregated steps
Description:	This step aggregates steps required for individual DNOs or TOs to implement DSO functionality, but which have no wider industry relevance.
ENA ONP Product:	N/A
Timeline:	May 2020 - December 2021
Organisation type:	TO(1), DNO(1)
Progress:	Initiated(1), Implementing(1)
Additional information:	