



Flexibility workshop

Wednesday 6th November 2019

Stay connected...



www.enwl.co.uk

Domestic Arrangements



Don't forget to sign in



Please keep your phones
on silent



No planned fire alarms



Facilities are in the foyer



Emergency assembly point



Your feedback is important

Meet the Team



Lois Clark



Lois works within the Capacity Strategy team. Her role is centred around flexible services and contracted capacity, helping to find innovative alternatives to traditional reinforcement solutions.

Keith Evans



Keith works in the DSO transition team. He is responsible for, and leads activities to identify, the business processes that will change as a result of the transition to Distribution System Operation (DSO).

Lucy Penketh



Lucy works within the Capacity Strategy team. She acts as a customer liaison for flexible services, IDNO networks and local authorities, and manages any changes to contracted capacity.



Background



A brief overview



Our process from
start to end



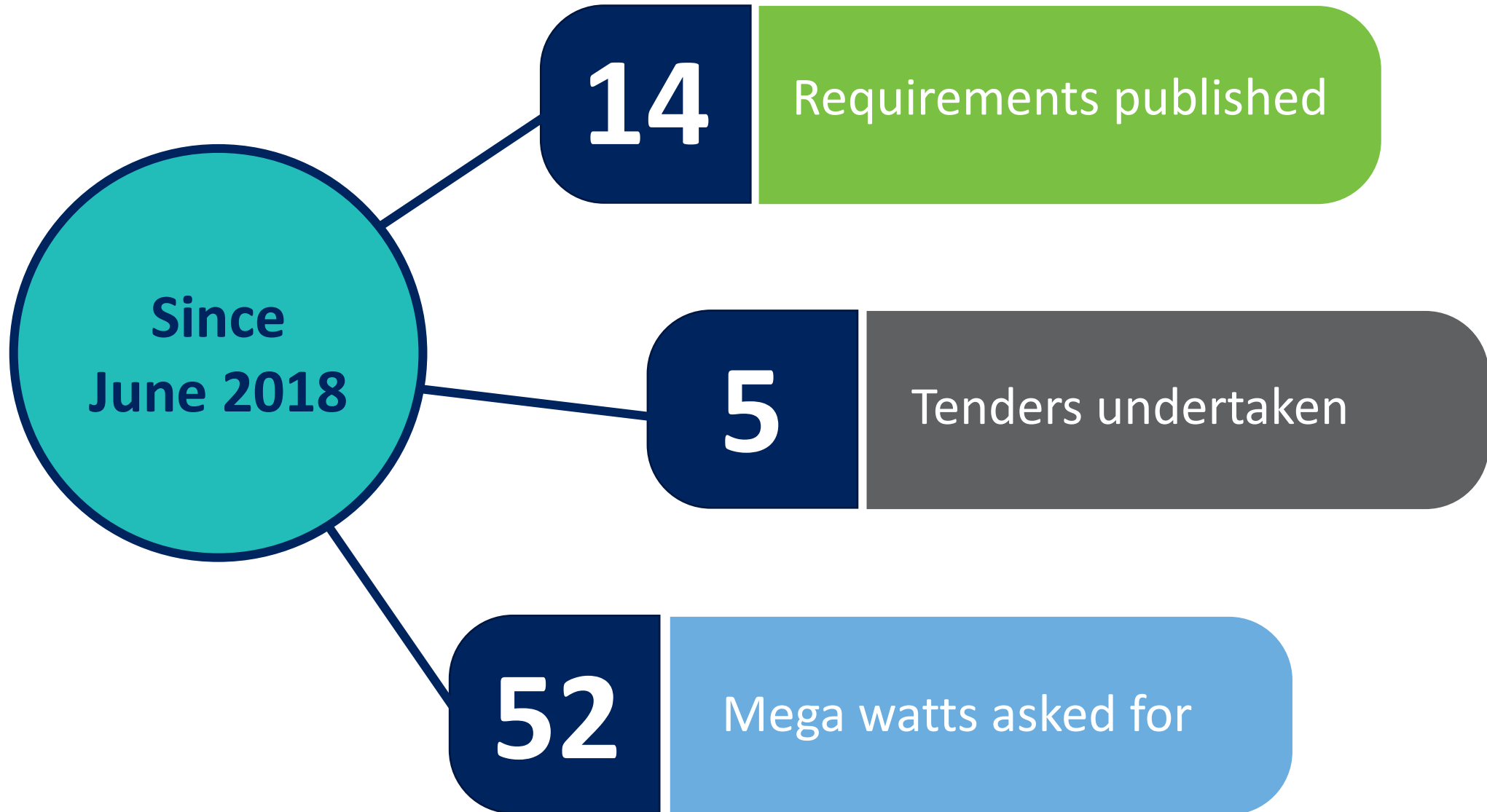
Our current
requirements



Flexibility in the
future



Lunch & networking





You said

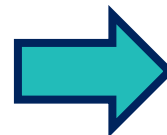
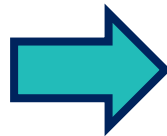
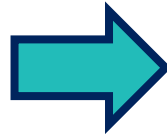
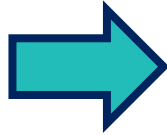
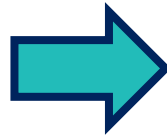
The minimum size for participation is too high

The requirement for minute by minute metering is a deterrent

More transparency is needed with documentation

More notice is needed of future requirements

The requirements and associated processes aren't clear



We did

We reduced the minimum size for directly connected customers to 50kW and aggregated resources to 100kW

We changed the metering requirement to half-hourly metering

We created the additional information section on our website which includes the template contract and T&Cs

We now sign post our future requirements on our flexibility map on our website

We have extended the clarification window at the beginning of each RfP going forward and have introduced bi-annual workshops

So what do we want from you?



One word – **Feedback!**

This is an interactive workshop and we'll be opening up the conversation to you at various points throughout the morning.

We really do value any feedback you may have on our approach to flexibility and we encourage you to get in touch at any time via any of the below means.



Our email address – flexible.contracts@enwl.co.uk

A brief overview

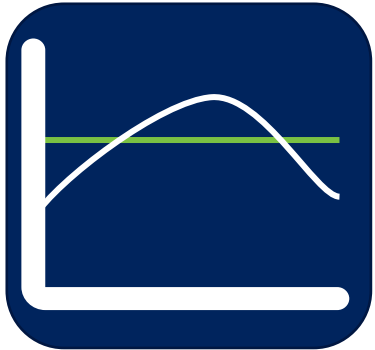


What are Flexible Services?



Flexible Services is the term given to the act of reducing consumption or increasing generation following receipt of a signal, due to a network constraint.

In simple terms, it means a customer generating more or using less electricity after we've asked them to.



A network constraint is when safe network operating limits are breached.

This means the requirement for electricity in the area is greater than the amount that the local network is capable of providing.

In return for providing Flexible Services a customer will **receive payment**



What are the benefits?



Cheaper bills for customers



Reduces CO₂ emissions



Reduction in supply interruptions



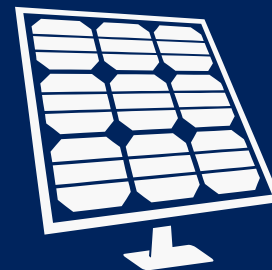
Supports community energy groups



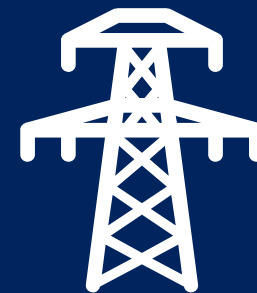
Less disruption



Supports local businesses



Encourages low carbon technologies

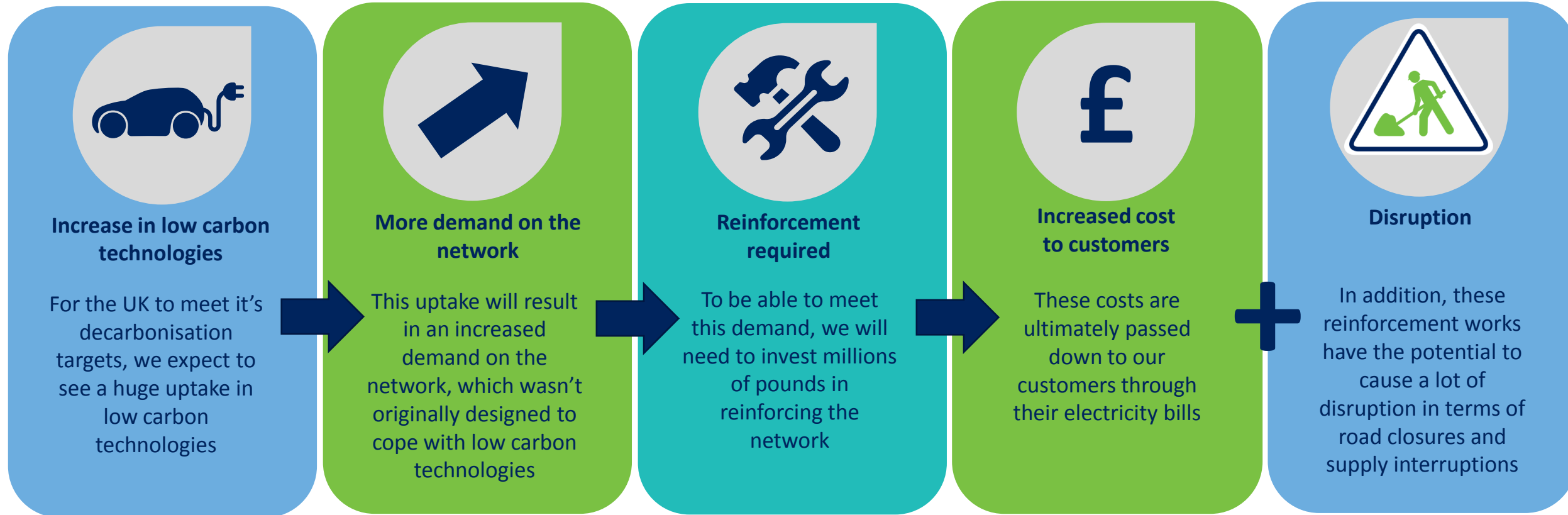


Utilises existing assets

So why now?



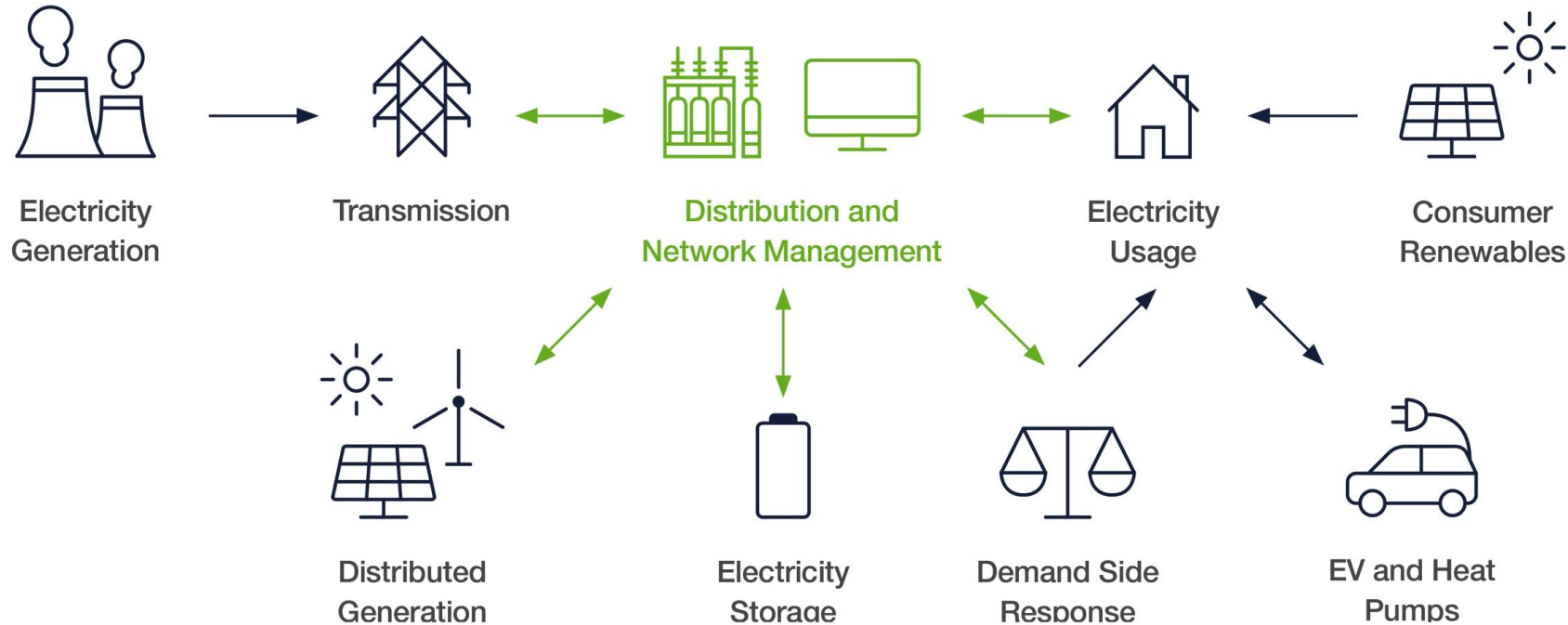
A revolution is currently underway as the UK embraces a zero carbon future, and the way energy is generated, stored, consumed and traded is all evolving at a significant pace. The electricity industry is facing one of it's biggest challenges yet.



It's our responsibility to find smarter, more flexible ways to meet future needs, and procuring Flexible Services is one of the ways in which we plan to tackle this challenge.



The facilitation of flexible services will play a crucial role in our job as a Distribution System Operator



"A DSO balances capacity on the distribution network to enable new connections and meet the requirements of existing customers through the use of flexible distributed energy resources, network investment and commercial services ensuring security and quality of supply standards are delivered"

Before



How we identify our requirements



On an annual basis, we forecast what we expect the demand to be on our network in both the near and distant future



We then take a look at each of our substations, and compare the firm capacity with the forecasted demand



Where a constraint is identified which can be alleviated by Flexible Services, we publish a Request for Proposal

Our three requirement types



The requirement will fall into one of the below types

Each type has a different driver and represents a different kind of response



RESTORE

Provide an immediate response following an unplanned network event



SUSTAIN

Flex your supply up or down at peak times to help manage network constraints



CONTINUOUS

Fulfil a continuous capacity requirement

How we publish our requirements



All of our requirements are published on our [website](#).

Whenever we publish a requirement we send an email out to let people know.

We publish a requirement document which includes....



Location



Size and type

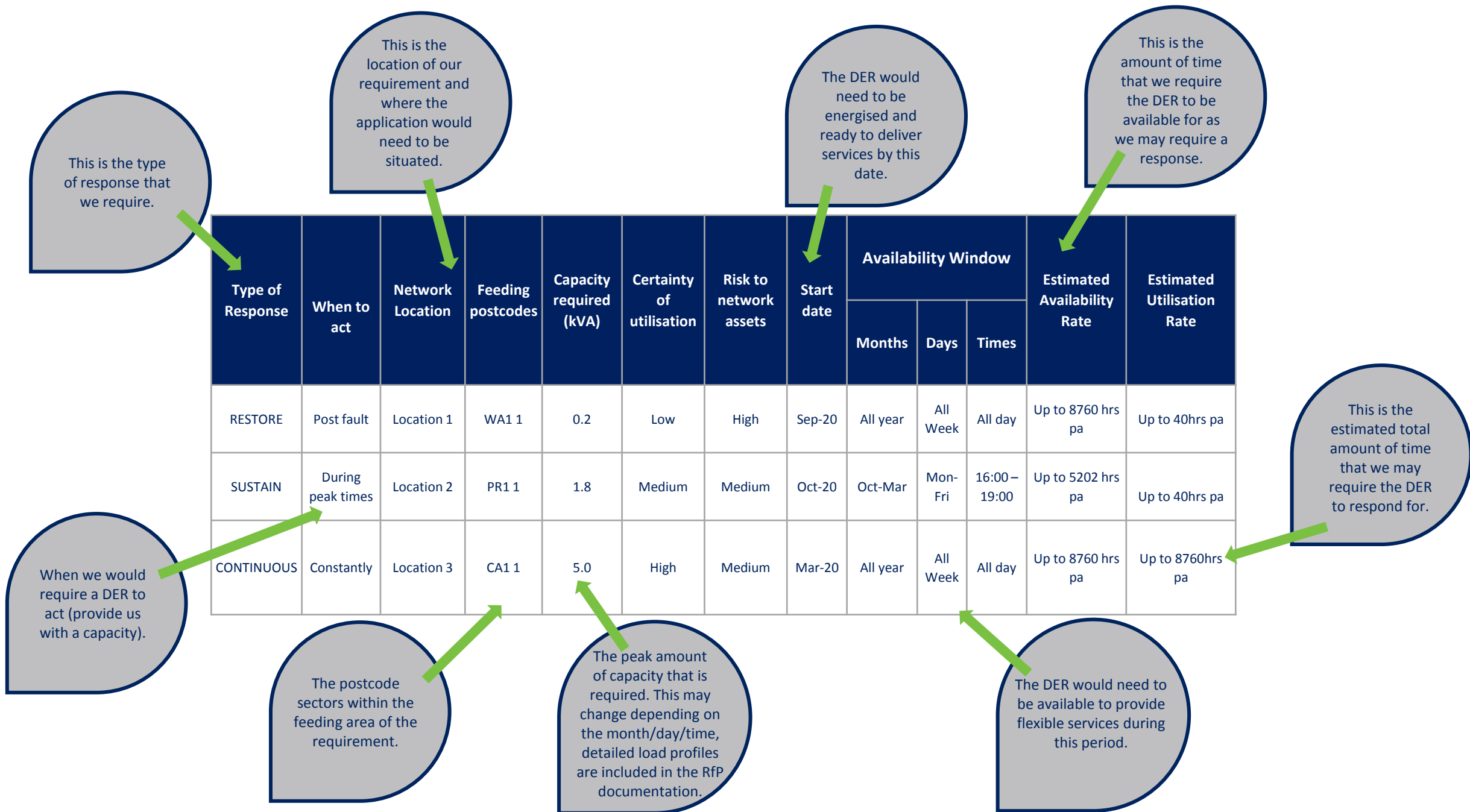


Availability window



Conditions precedent





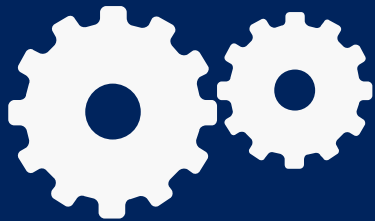
Minimum criteria



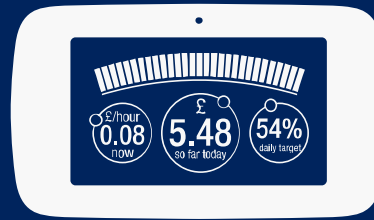
In order to participate you need to meet the conditions precedent, which means you must be...



Located within
the requirement
area



Able to provide a
minimum of
50kW –
aggregators
100kW



Half-hourly
metered



Able to provide
within the
specified
availability
window



Connected at
least two months
prior to the start
date

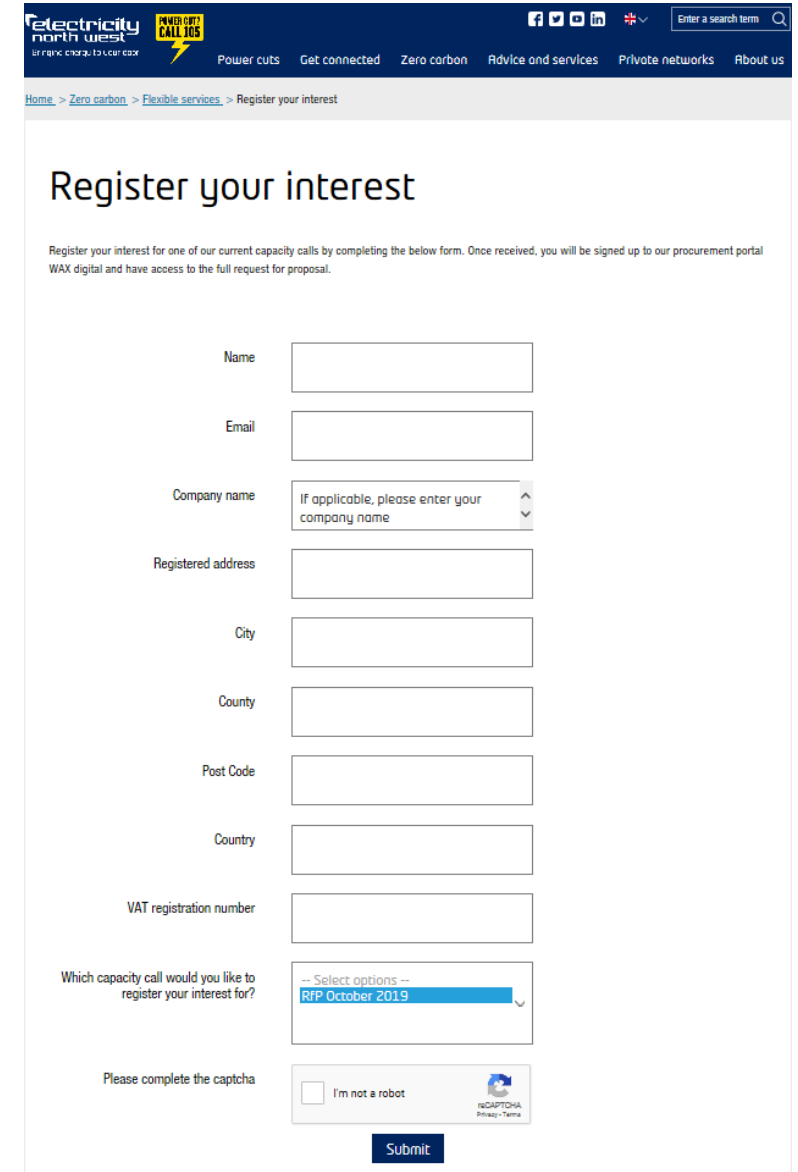
Registering your interest

It's really easy to register your interest for one of our RfPs, just complete the form on our website!

Alternatively you can send us an email if you'd prefer, just make sure to include:

- Contact name
- Email address for portal log in
- Company Name
- Registered address
- VAT registration number
- Which RfP you'd like to register for

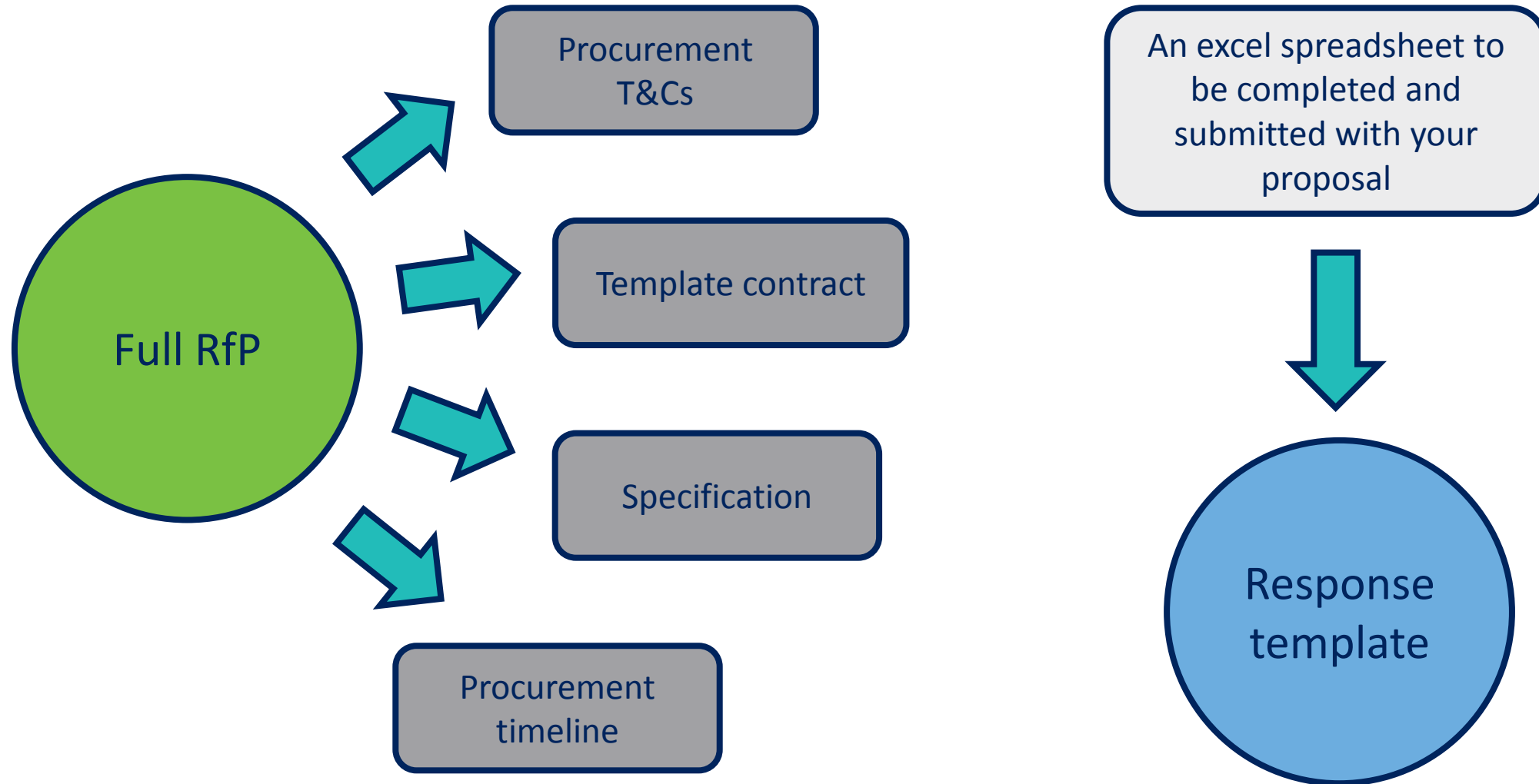
Shortly before the publication of the full RfP, you'll receive log in details to our procurement portal – WAX digital



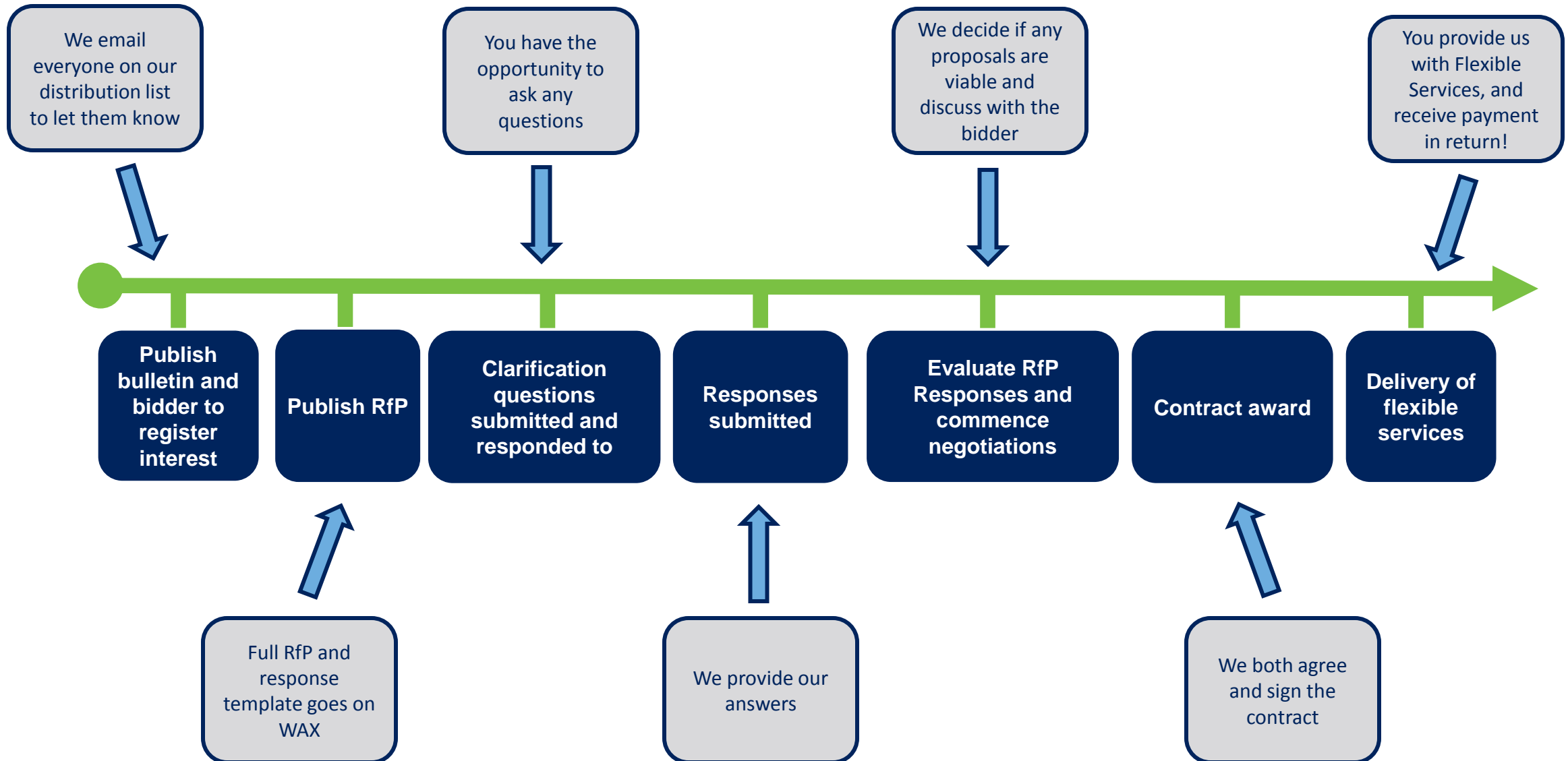
The screenshot shows the 'Register your interest' form on the Electricity North West website. The header includes the company logo, a 'POWER CUT? CALL 0800 111 000' badge, and navigation links: Power cuts, Get connected, Zero carbon, Advice and services, Private networks, and About us. A search bar is also present. The breadcrumb trail reads: Home > Zero carbon > Flexible services > Register your interest. The form title is 'Register your interest'. Below the title, a note states: 'Register your interest for one of our current capacity calls by completing the below form. Once received, you will be signed up to our procurement portal WAX digital and have access to the full request for proposal.' The form fields are: Name, Email, Company name (with a dropdown menu showing 'If applicable, please enter your company name'), Registered address, City, County, Post Code, Country, and VAT registration number. A dropdown menu for 'Which capacity call would you like to register your interest for?' shows 'RfP October 2019' selected. At the bottom, there is a CAPTCHA section with the text 'Please complete the captcha', a checkbox for 'I'm not a robot', and a 'Submit' button.

During





Procurement timeline





All of our procurement is conducted through our procurement portal WAX Digital. Through the portal you can:



View the full
documentation



Ask any
clarification
questions



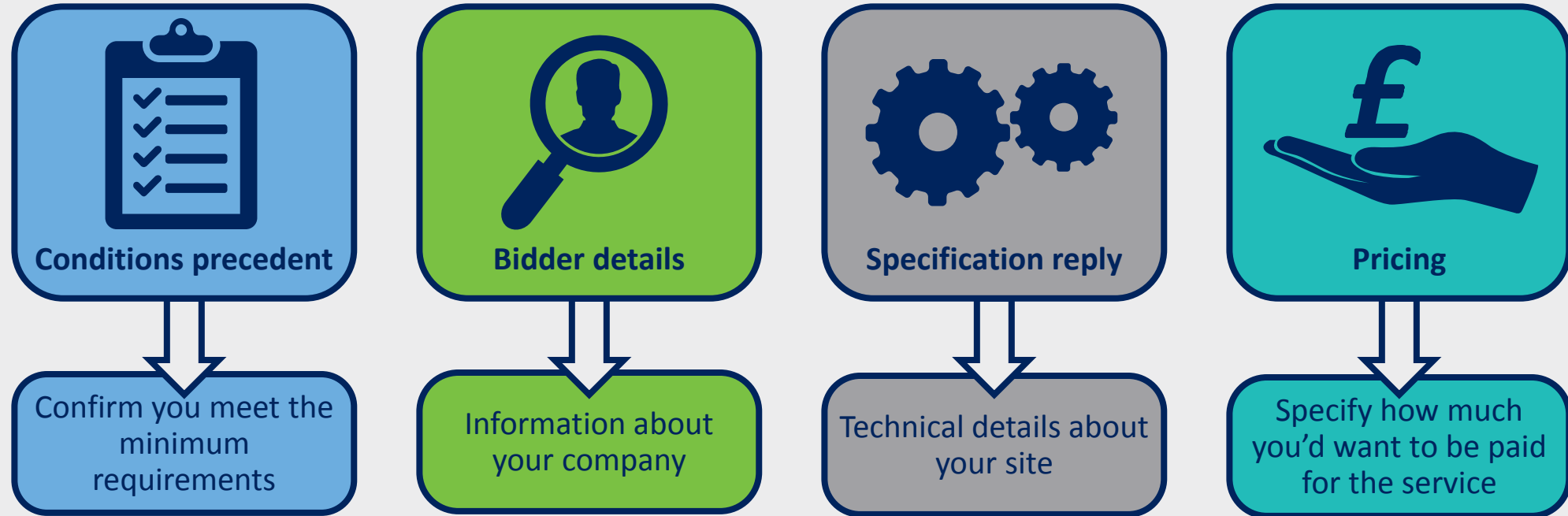
Submit a
proposal

Once you've registered your interest, you'll receive an email with this [link](#).

How to submit a response



To submit a response you need to complete 4 out of the 6 tabs in our response template workbook



The completed response template should then be uploaded to WAX digital

Decision making criteria



Each response to a Request for Proposal (RfP) is assessed based on the proposed pricing and it's ability to meet the specification.



Firstly the proposal needs to meet the conditions precedent and minimum criteria specified in the RfP.



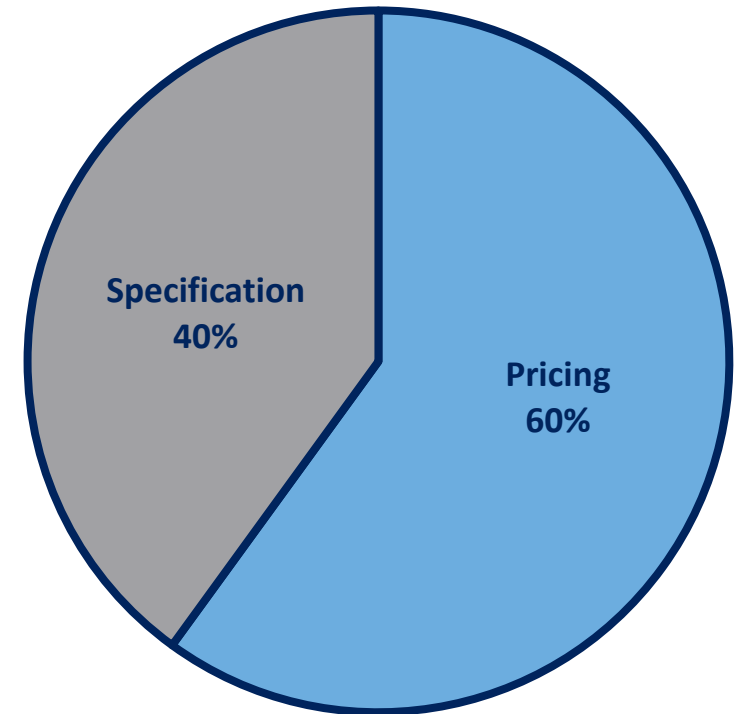
The proposal is then given a score for how suitable the solution is.



Another score is given for the proposed cost of providing the service.



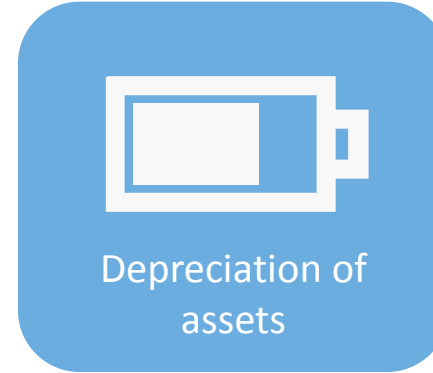
The pricing is given a weighting of 60% and the specification a weighting of 40%





We use our specifically designed Real Options Cost Benefit Analysis (ROCBA) tool to compare traditional reinforcement options with flexible services.

The tool helps us to ensure we're making the most economically efficient decisions for our customers whilst also ensuring our network is able to meet future needs. It does this by comparing..



It produces a net present value for each solution which we use to inform a decision on which strategy to proceed with.

You can learn more about our ROCBA tool [here](#)

Is there any additional information that would be helpful?

Prioritise these in terms of importance

15 minutes



Break



After



How we dispatch



*For aggregated portfolios of Flexible Resources a suitable communications solution should be agreed with the Company as part of the contract negotiation process.



RESTORE



SUSTAIN



CONTINUOUS

Maximum
response time

3 minutes

15 minutes

Site specific

Minimum
response duration

30 minutes

30 minutes

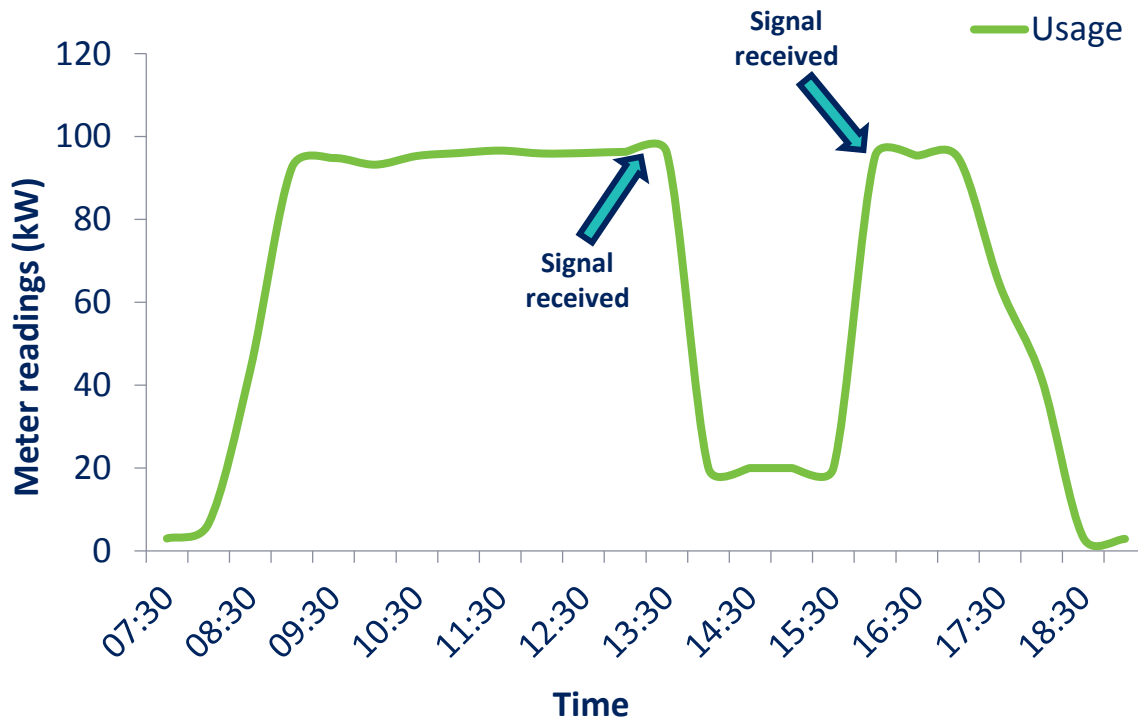
Site specific

Following an event we'll provide you with a performance report

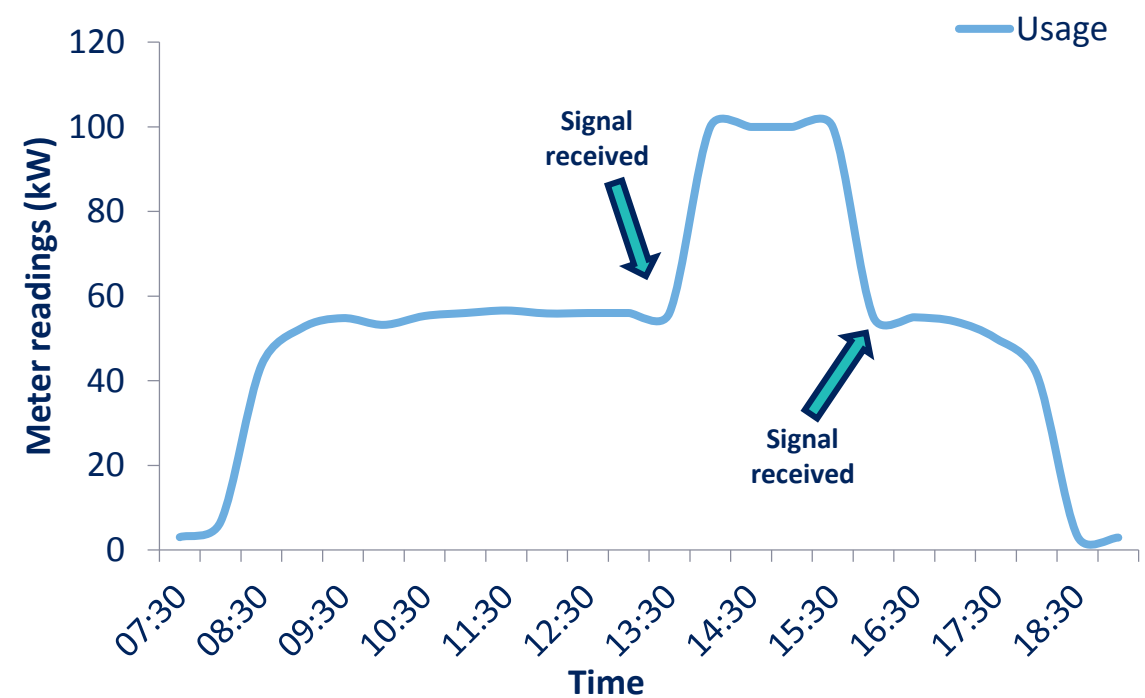


We'll verify your performance by looking at your meter readings..

Demand reduction



Generation increase



To confirm you've changed your usage following the receipt of a signal



If for any reason you are unable to provide Flexible Services you will need to notify us immediately



Failure to provide Flexible Services will result in a charge of the service delivery value plus 5%



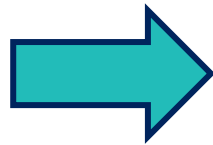
Under 65% delivery constitutes a service failure



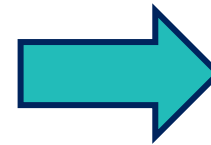
2 or more service failures in a 12 month rolling period may result in contract termination



We'll verify your
performance



You'll invoice us



You'll receive
payment the
following month
(via BACs)

Current requirements



Current requirements



We currently have three Flexible Services requirements in..

Bolton by Bowland

Coniston

Easton



Bolton by Bowland factsheet



RESTORE
response

900 kVA

Winter

All week

4370 hrs
pa
availability

All day



Postcode sectors BB7 3, BB7 4, BD23 4, LA2 8

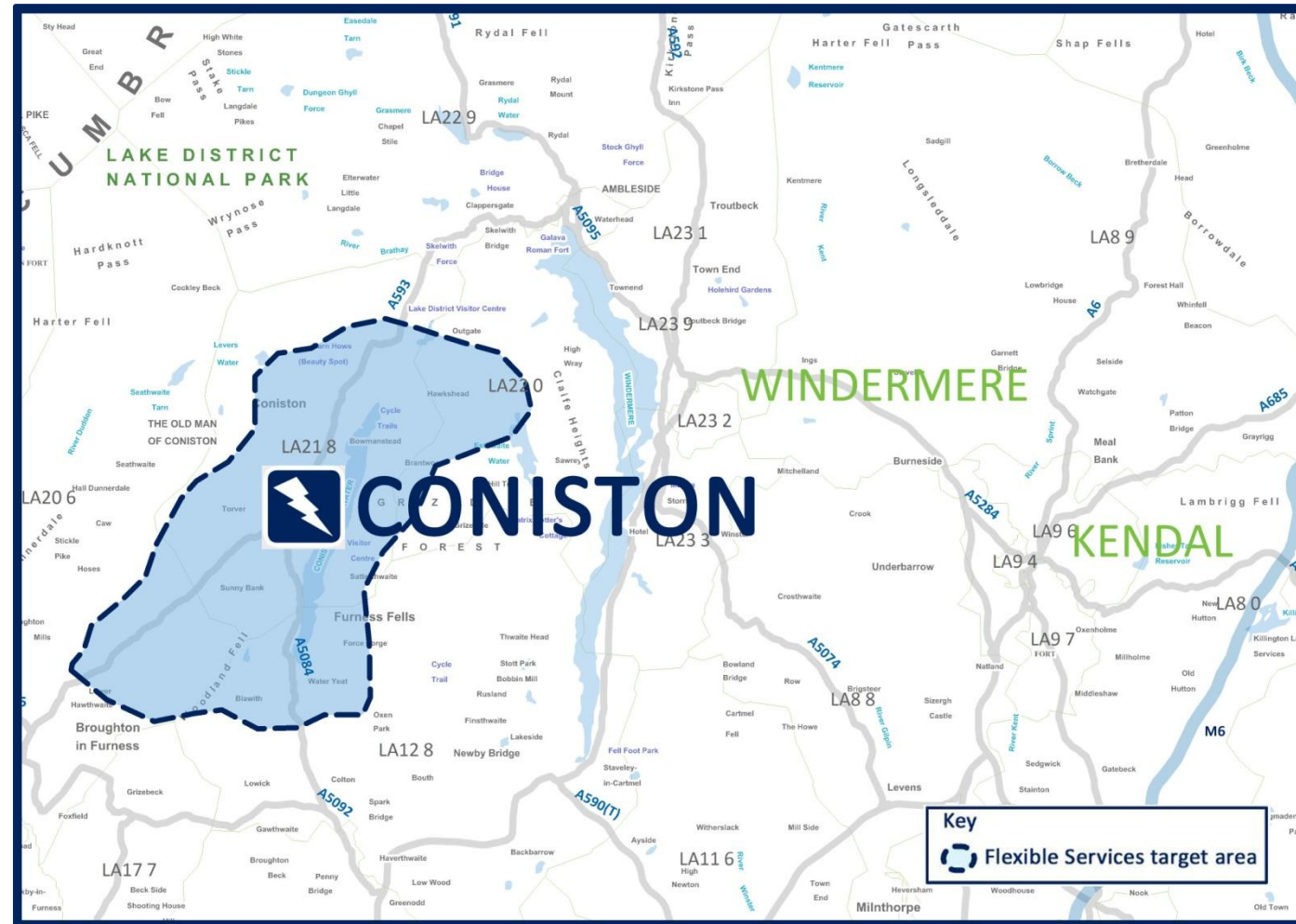
Coniston factsheet



RESTORE
response

350 kVA

8760 hrs
pa
availability



Postcode sectors LA12 8, LA20 6, LA21 8, LA22 0

All year

All week

All day

Easton factsheet



RESTORE
response

100 kVA

2040 hrs
pa
availability



Postcode sectors CA6 5, CA6 6

Winter

All week

07:00 –
20:30

Timeline



The full RfP was published on WAX Digital on Tuesday 5th November 2019



You can still register to participate by completing the [form on the website](#) or by emailing flexible.contracts@enwl.co.uk

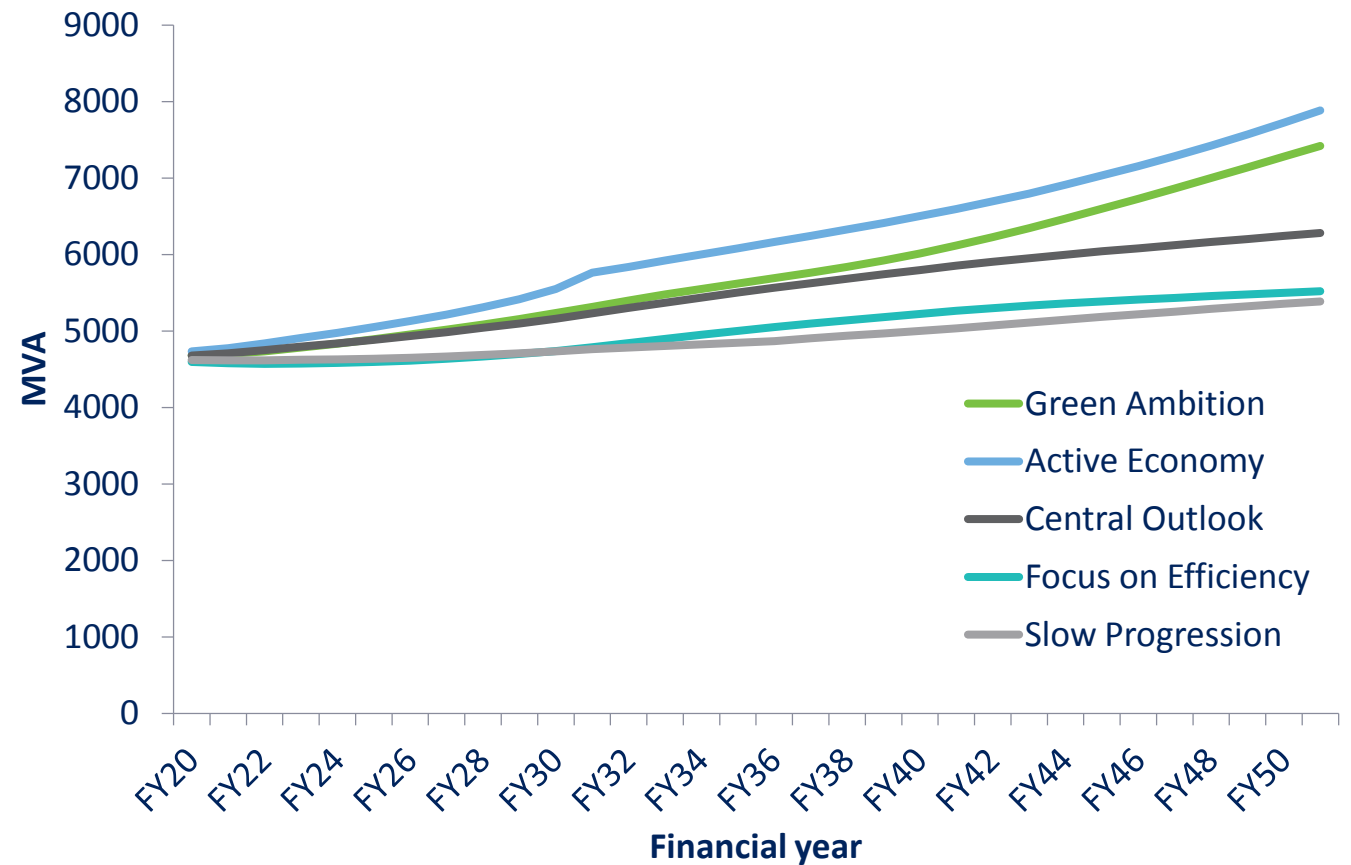
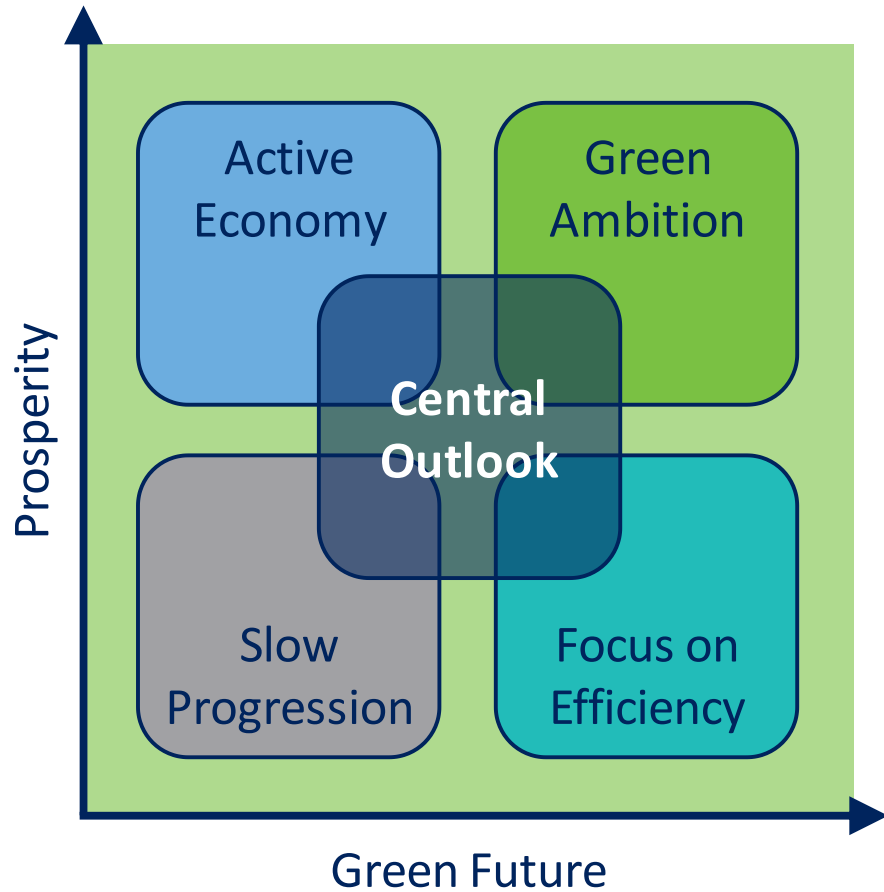
Flexibility in the future



Planning for the future



As part of our ATLAS project we produced our five future electricity scenarios, and on an annual basis we create our demand forecasts.



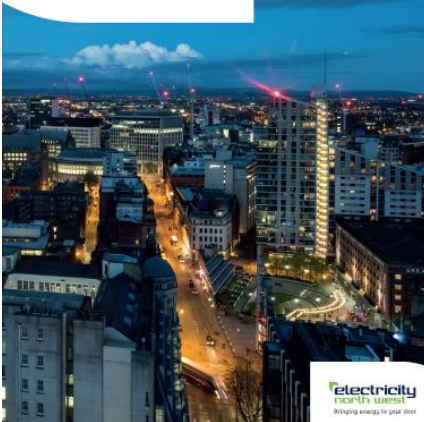
With demand set to grow exponentially as we transition to a low carbon future, every asset will have its time!



DFES

Distribution Future
Electricity Scenarios
and Regional Insights

November 2018



Distribution Future Electricity Scenarios

The DFES document allows you to understand the potential demand growth on the network and how different factors will have an impact on this growth.



Both documents will be updated at the end of November, and available to download on our website

LTDS



Long Term Development Statement

November 2018

Long Term Development Statement

The LTDS allows you to understand the current loading and demand on the network



We participate in the Open Networks Project hosted by the Energy Networks Association

This project sees all 6 DNOs working together along with BEIS and Ofgem



As part of the Open Networks project there is a **flexibility workstream**, divided into 6 parts

1. Flexibility market principles

2. Procurement processes

3. Dispatch & settlement

4. Commercial arrangements

5. Conflict management and co-optimisation

6. Facilitation of new markets



Feedback from stakeholders has highlighted the need to make it easier to participate in multiple markets and across distribution network boundaries.

Open Networks are now prioritising consistency between DNO's to facilitate stakeholders and remove barriers to participation.



Good practice guide

- Agreement on detail of information to be provided by all DNOs
- Work on procurement processes is ongoing and will continue next year



Consistent reporting

- March 2020 all DNO's will adopt consistent branding of flexibility products
- Service characteristics of each type of response will be aligned



Standard terms & conditions

- Currently producing a set of standard terms and conditions
- These are to be adopted by all DNO's in March 2020

The 6 Flexibility principles



Championing a level playing field



Ensure visibility and accessibility



Conduct procurement in an open and transparent manner



Provide clarity on the dispatch of services



Provide regular, consistent and transparent reporting



Work together towards whole energy system outcomes

What do you think the biggest barriers are to participation?

Prioritise them in terms of big to small

15 minutes



Questions & Answers





We publish our forecasted requirements on our website

These are sites that may potentially require flexible service in the future

These are **not guaranteed** and will be subject to future capacity reviews

Our next Request for Proposal for Flexible Services will be issued in the Spring

