



Flexible Service requirement for South Manchester Enterprise Zone

November 2018

Stay connected...



www.enwl.co.uk

1. WHAT ARE FLEXIBLE SERVICES

1.1 Local flexibility needs

Distributed Energy Resources (DERs) are companies or individual customers capable of adjusting how much they consume or generate electricity. These adjustments can support the local distribution network due to high electricity demand or when the network is operating abnormally, and DERs receive payment from Electricity North West in return. These DERs can be generators, consumers, and electricity storage connected to our networks that can increase exports (generate more) or reduce imports (consume less) when instructed.

As the distribution network operator in the North West of England, we are looking to use this flexibility to support how we operate our local networks, as an alternative to traditional approaches. The aim is to reduce the cost for electricity distribution networks in customer energy bills while ensuring that our network remains resilient, reliable and meets our customers' needs.

2 NETWORK REQUIREMENTS

This section provides information regarding the network location where flexibility could potentially be of benefit to the network.

2.1 South Manchester Enterprise Zone

Figure 2.1 shows our forecasted flexible service requirement for each price control period and by financial year (FY).

Figure 2.2 illustrates the estimated flexible service requirement in megawatt hours (MWh) by financial year up to FY33.

Figures 2.3, 2.4 and 2.5 illustrate the estimated daily, weekly and monthly load profiles from the first year of requirement (FY20). This is the estimated loading of the flexible asset, and can be used to better understand our flexible service requirement for this area.

Figure 2.6 illustrates the boundaries of the flexible service requirement area.

Figure 2.1: Forecasted flexible service requirement up to FY33

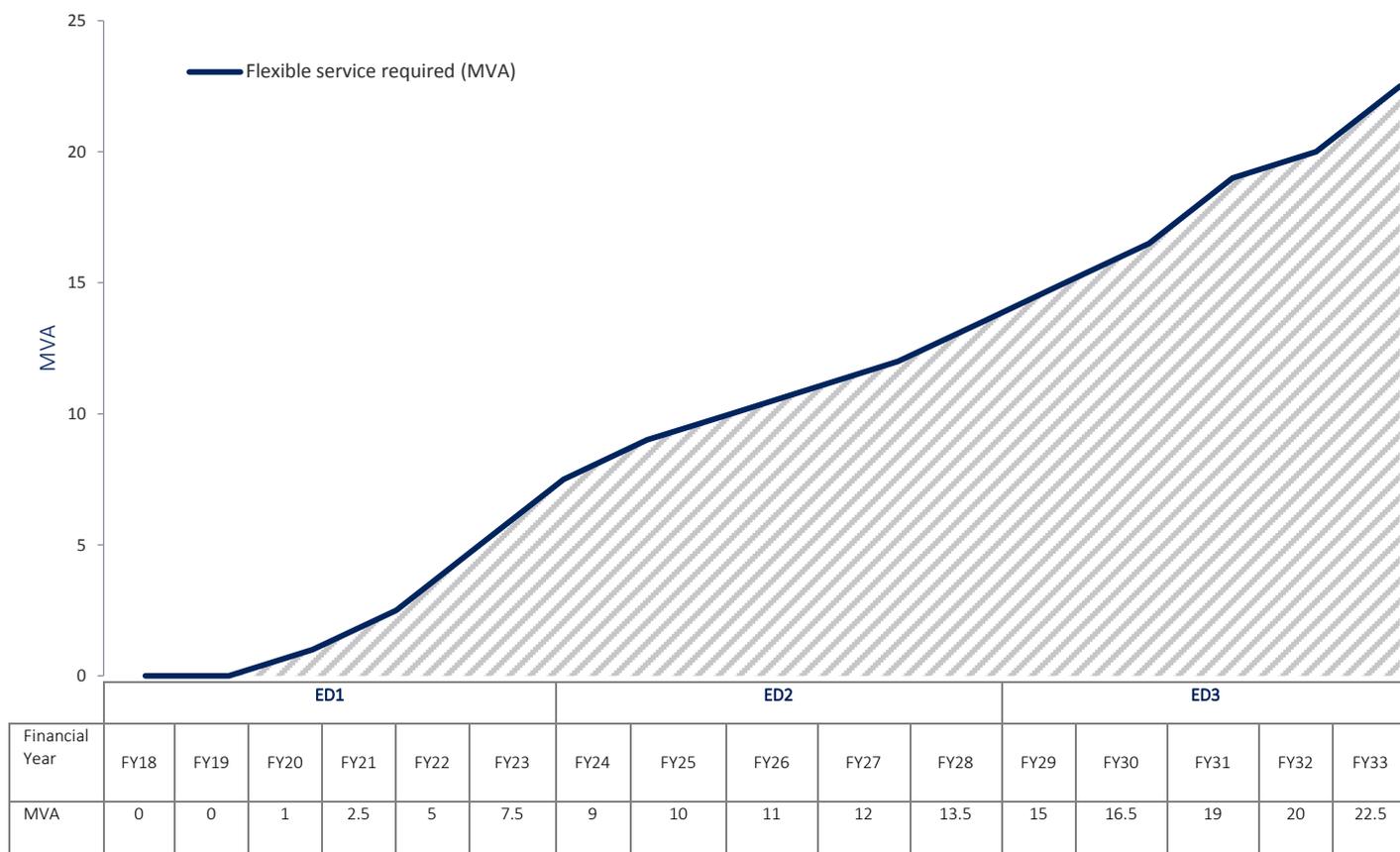


Figure 2.2: Estimated annual flexible service requirement in MWh up to FY33

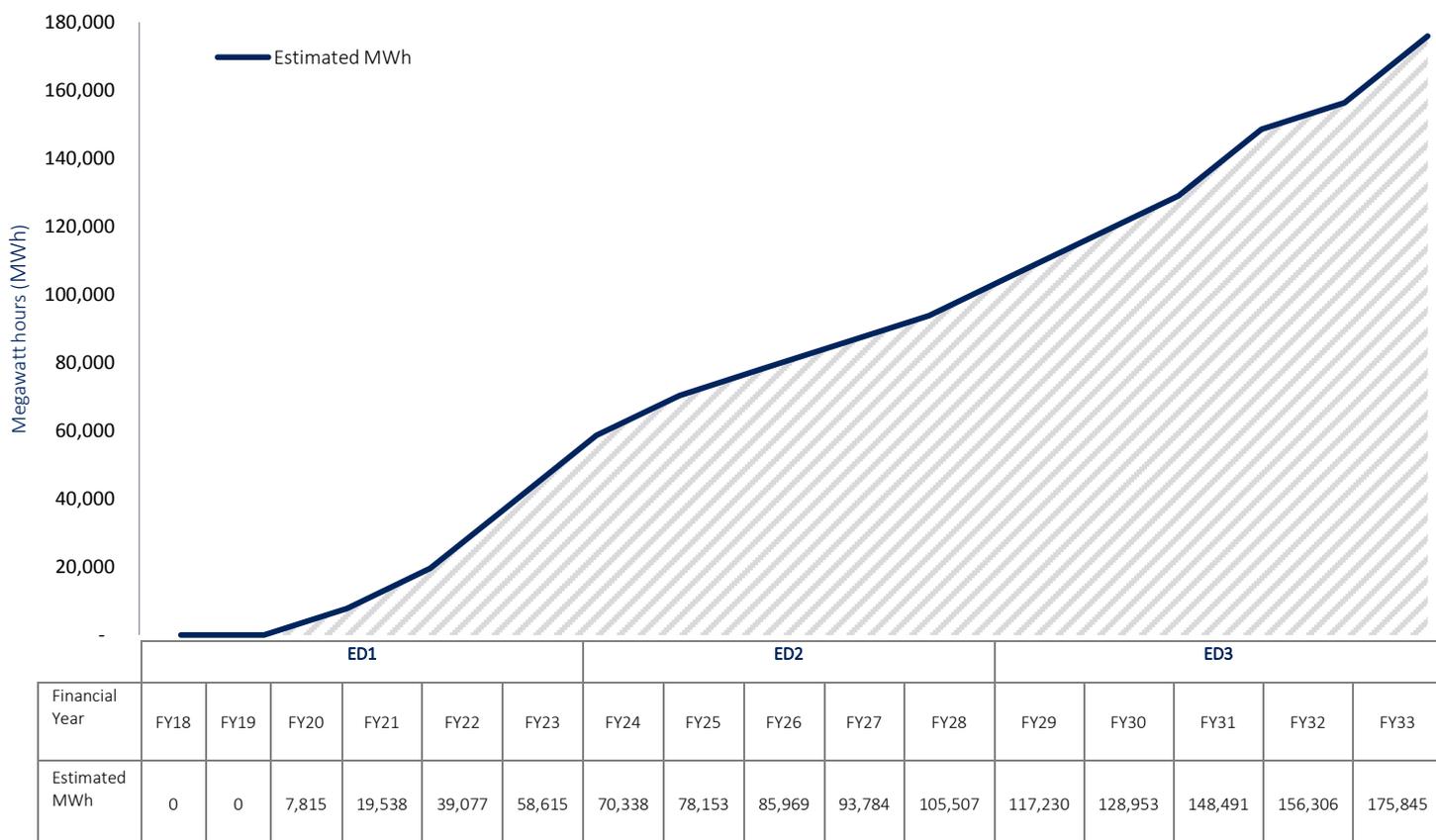


Figure 2.3: Estimated daily load profile (FY20)

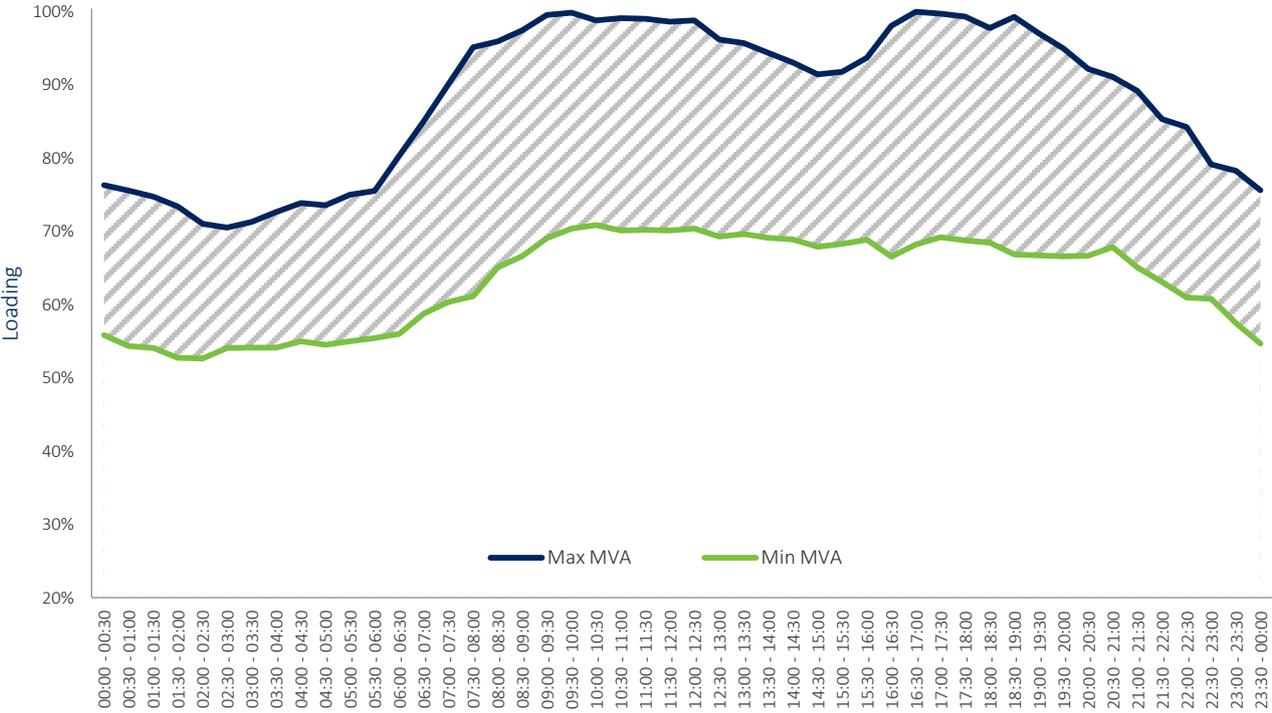


Figure 2.4: Estimated weekly load profile (FY20)

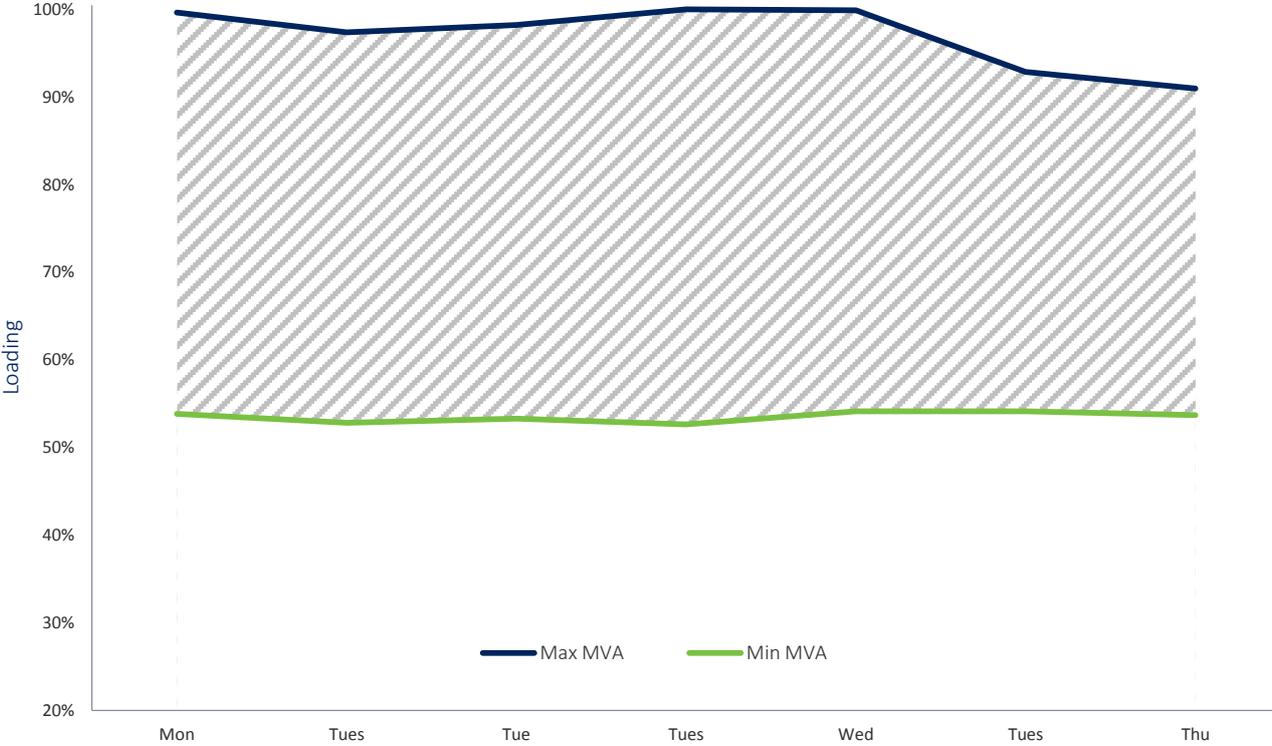


Figure 2.5: Estimated monthly load profile (FY20)

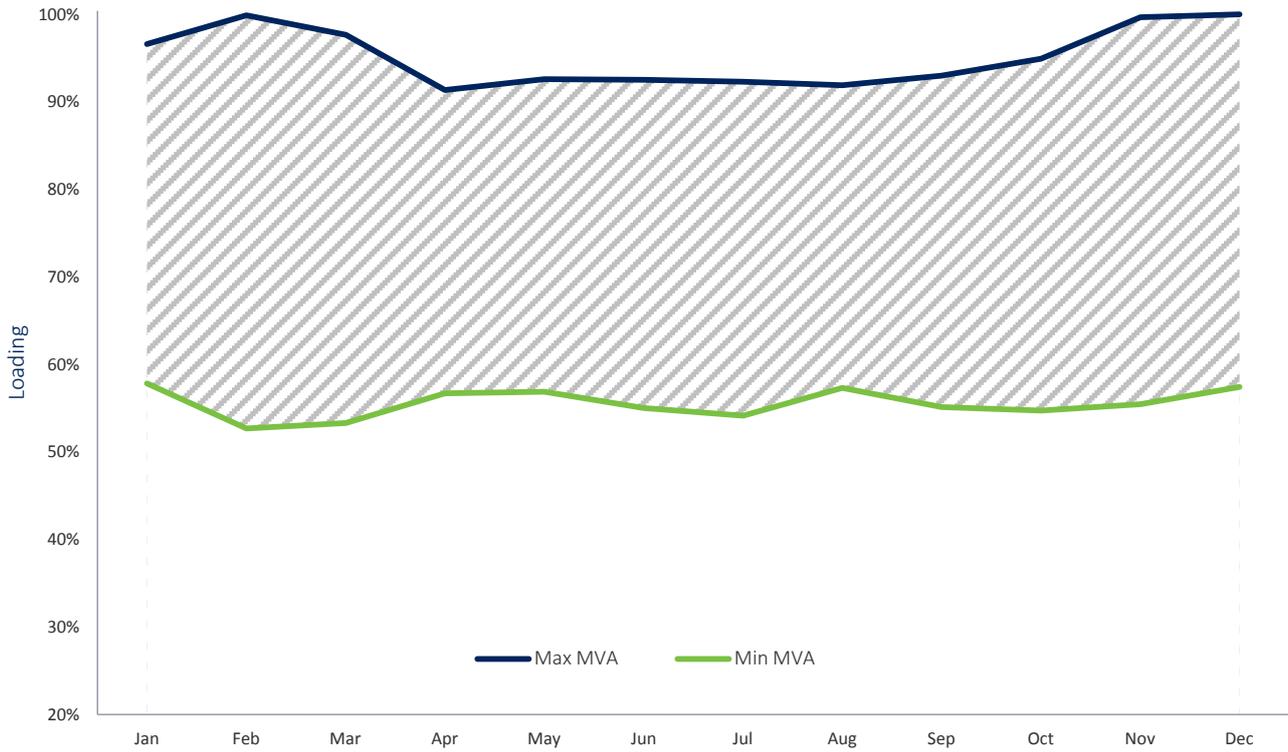
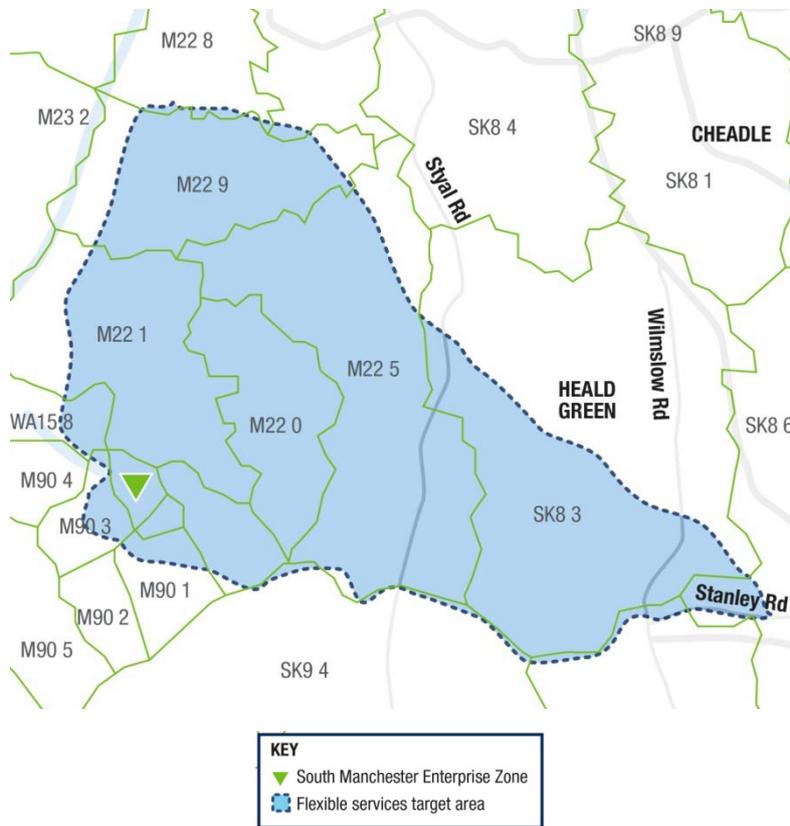


Figure 2.6: South Manchester Enterprise Zone – feeding area



3 CONDITIONS PRECEDENT

The Bidder will need to meet the following high level conditions in order to provide a Flexible Service to the Company:

- The Flexible Resource must:
 - either be already connected to the network location being supported; providers should use the highlighted area on the map (*Fig 2.6*) as an indication of whether the resource is in the right geographic location¹,
 - or
 - be able to locate (i.e. install, commission, and deliver) the Flexible Resource in the locality of the network asset being supported by summer 2020².
- There are no restrictions on the size of sub-sites of aggregated portfolios, but the total portfolio size needs to be at least 1MW (flexibility capability and not capacity). Similarly, the minimum size for directly contracted resources should also be at least 250kW.
- The Supplier should be able to deliver and manage, upon the Company's request, a net reduction in the Demand or an increase in the export, as seen by the distribution network.
- The Flexible Resource should have the ability to act (provide a response) reliably and consistently, in both magnitude and duration, throughout the contracted windows.
- Generators and Electrical Storage, greater than 16A per phase, looking to export to the network will need to have a long-term parallel connection and be compliant with the requirements of EREC G59/3-3 or EREC G99.
- Flexible Services suppliers should be able to deliver the service during winter 2020/21 (starting November 2020).

¹ If you would like the Company to verify that the electrical connection is suitable prior to submission of your proposal, please email flexible.contracts@enwl.co.uk with your meter point administration numbers (MPANs).

² Further information on connection to Electricity North West's distribution network is available at [Get connected](#). All connection charges will be payable by the connectee in accordance with our [Common Connection Charging Methodology](#).

4 REGISTERING YOUR INTEREST

For further details or to register your interest for this requirement for flexible services, visit our [website](#). Alternatively you can confirm your company name and contact information via email to flexible.contracts@enwl.co.uk. Please register your interest by noon on the 29th November 2018 to guarantee participation.

You will be registered on our e-procurement portal WAX digital where the full Request for Proposal will be available, which includes:

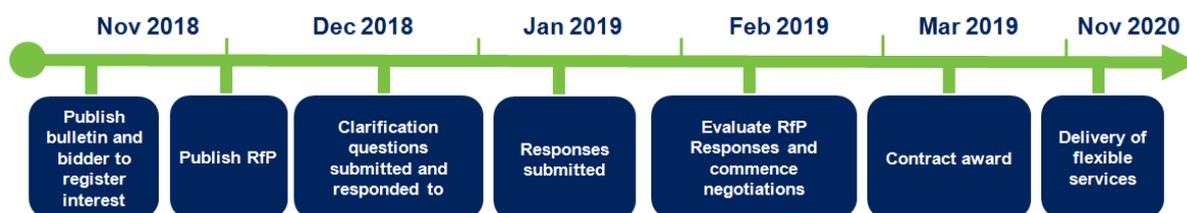
- Technical Specification,
- Template contract, and
- Terms and Conditions.

The portal also contains the response template which you will be required to complete as part of your submission.

5 PROCUREMENT TIMELINE

We are seeking to contract for services to deliver during winter 2020/2021 (starting from November 2020). The proposed process is set out below.

Figure 5.1: Indicative procurement timeline



6 GLOSSARY

Abbreviation	Definition
Distributed Energy Resource (DER)	Resources like generators, consumers, and electricity storage connected to the distribution network
Distribution network operator (DNO)	The owner and operator of a distribution network licensed by the Gas and Electricity Markets Authority
Flexible Services	The provision of a change in import and/or export when instructed. This is also sometimes referred to as demand side response
Flexible Resource	Resources like generators, consumers, and Electricity Storage connected to the distribution network.
Flexible Service supplier	The company providing the Flexible Service
Feeding area	The geographic area that is supplied electricity by the cables and/or overhead lines connected to the local substation