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Appendix 3 - Claughton

Flexible Service requirement Spring 2020

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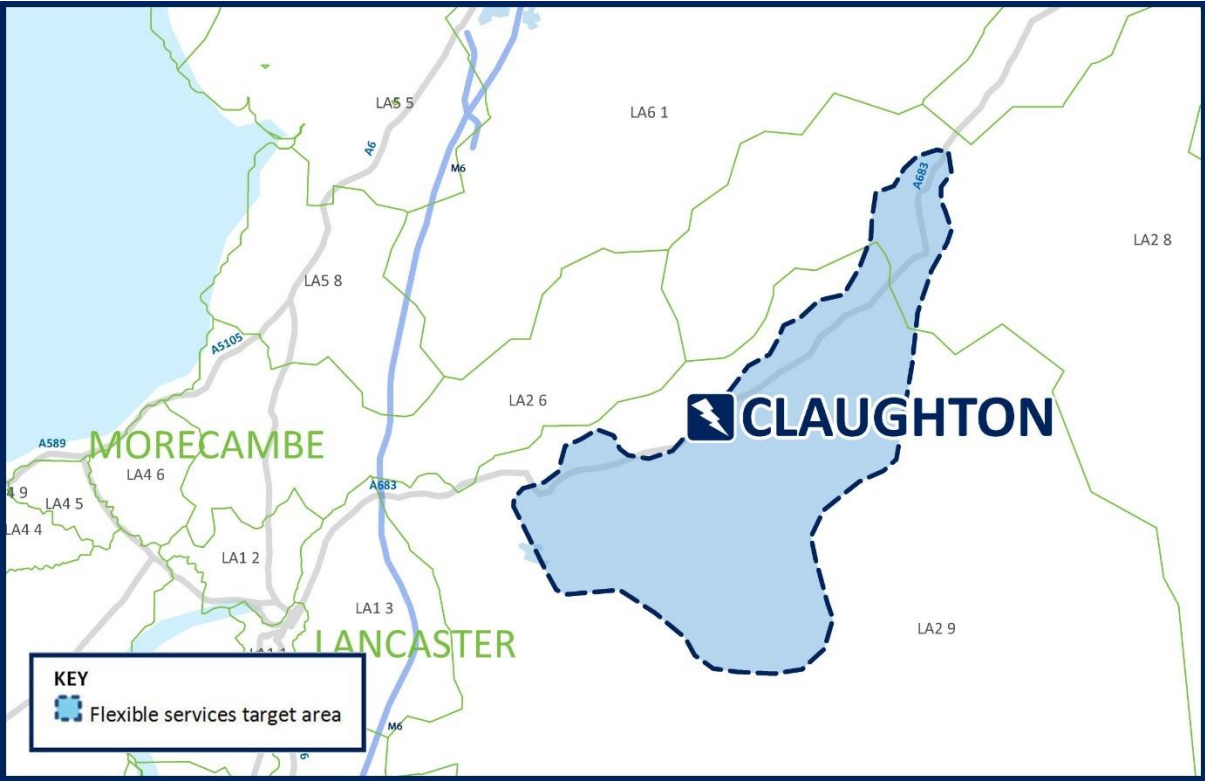
1 NETWORK REQUIREMENTS

1.1 Claughton

We are currently seeking flexible services for our primary substation in Claughton.

The flexible services target area for this requirement is located around the village of Claughton which is to the North East of Lancaster, as illustrated in Figure 1.1.1.

Figure 1.1.1: Flexible services target area for Claughton



The requirement in Claughton is for a DYNAMIC response, which means that we only require flexible services in the event of a network abnormality. Figure 1.1.2 shows the service characteristics of this type of response.

Figure 1.1.2: Service characteristics of a DYNAMIC response


Type of Response	When to Act	Trigger	Certainty of Utilisation	Risk to network assets	Frequency of use
 DYNAMIC	Post Fault	Network abnormality	Uncertain	High	Low

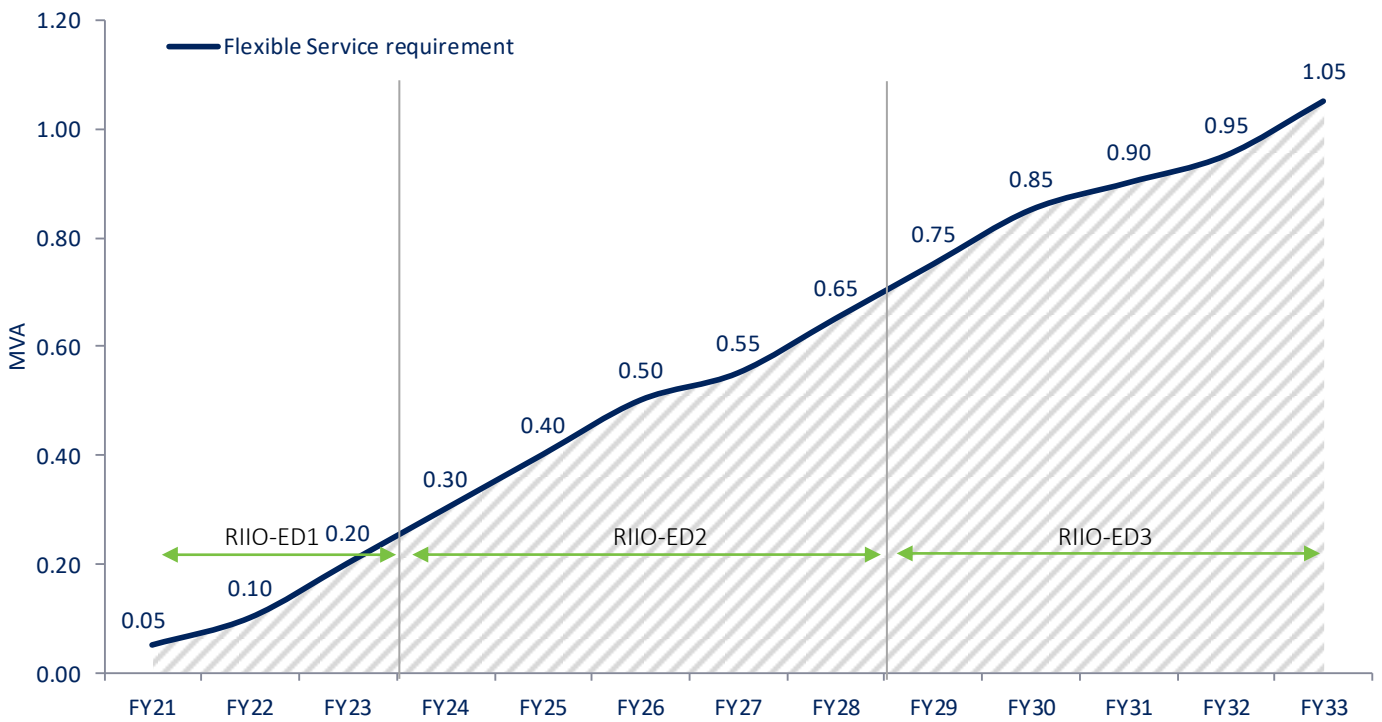
Figure 1.1.3 summarizes the requirement in this area, detailing the amount of capacity required and the service window.

Figure 1.1.3: Flexible service requirements for Claughton

Year	Feeding postcodes	MVA required	Period	Time of day	Service window	Days
2020 / 2021	LA2 8, LA2 9	0.05	Winter	Morning	07:00 - 09:30	Monday - Friday
				Evening	17:00 – 20:00	All week

The below chart shows how we expect the flexible service requirement may increase over the course of time.

Figure 1.1.4: Forecasted flexible service requirement up to FY33



FY21 Requirements

Figure 2.1. Monthly requirement for FY21

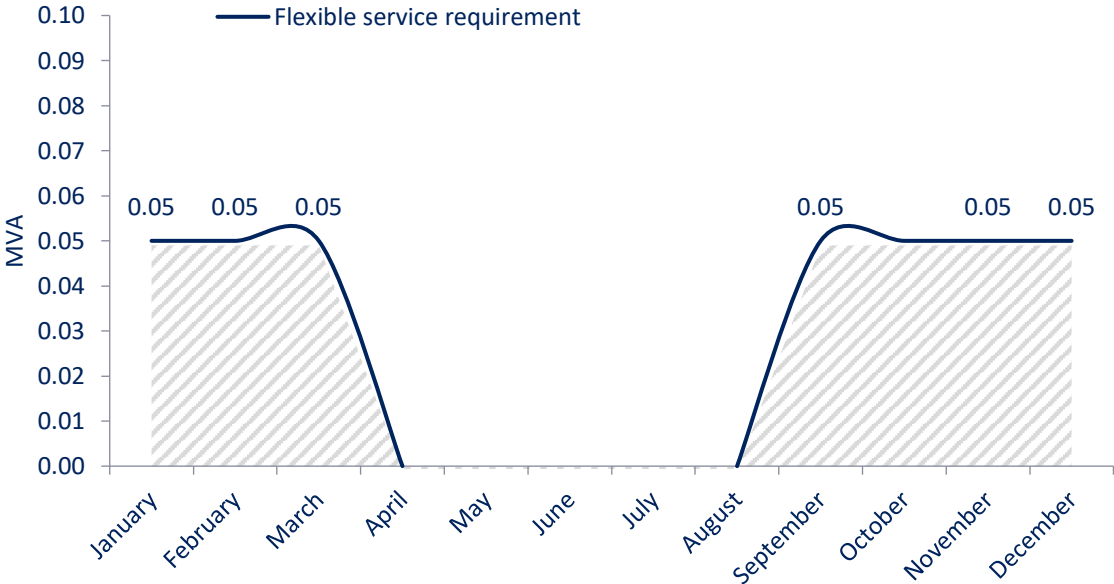


Figure 2.2. Weekly requirement for FY21

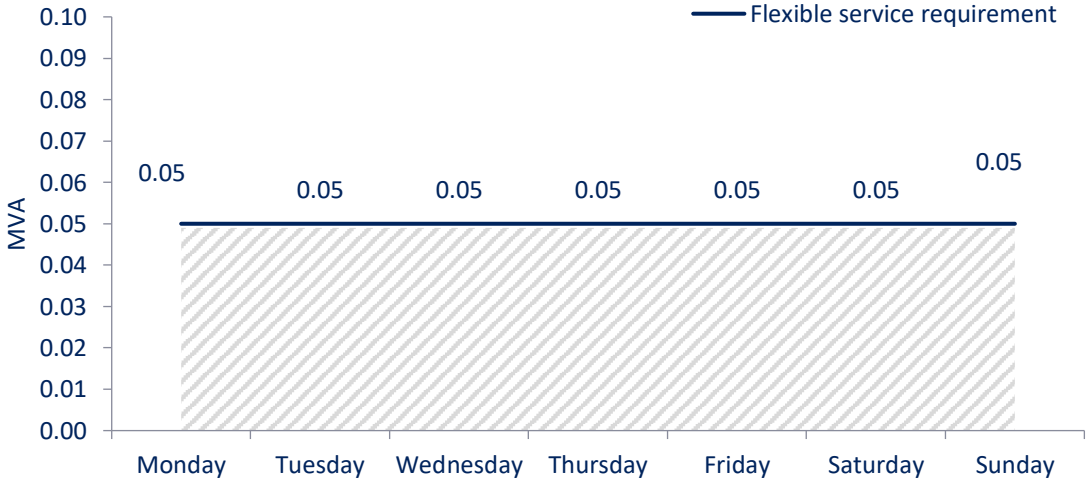


Figure 2.3. Daily Requirement for FY21

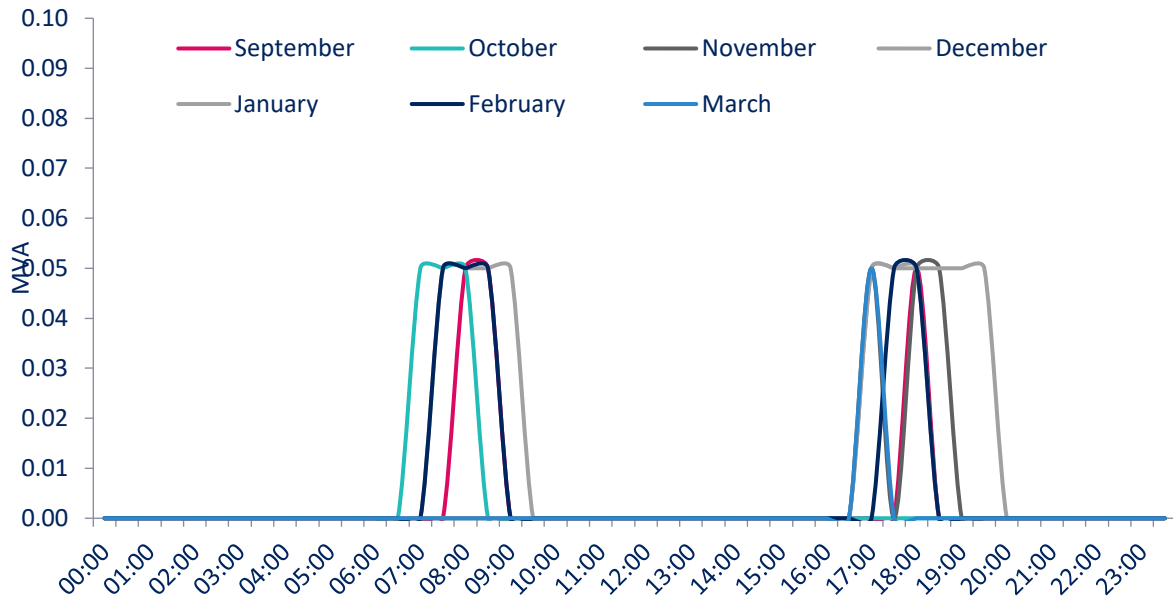


Figure 2.4. Half hourly detailed requirement for FY21

Time of day	Jan	Feb	Mar	Sep	Oct	Nov	Dec
00:00 - 00:30	0	0	0	0	0	0	0
00:30 - 01:00	0	0	0	0	0	0	0
01:00 - 01:30	0	0	0	0	0	0	0
01:30 - 02:00	0	0	0	0	0	0	0
02:00 - 02:30	0	0	0	0	0	0	0
02:30 - 03:00	0	0	0	0	0	0	0
03:00 - 03:30	0	0	0	0	0	0	0
03:30 - 04:00	0	0	0	0	0	0	0
04:00 - 04:30	0	0	0	0	0	0	0
04:30 - 05:00	0	0	0	0	0	0	0
05:00 - 05:30	0	0	0	0	0	0	0
05:30 - 06:00	0	0	0	0	0	0	0
06:00 - 06:30	0	0	0	0	0	0	0
06:30 - 07:00	0	0	0	0	0	0	0
07:00 - 07:30	0	0	0	0	0.05	0	0
07:30 - 08:00	0.05	0.05	0	0	0.05	0	0
08:00 - 08:30	0.05	0.05	0	0.05	0.05	0	0

Time of day	Jan	Feb	Mar	Sep	Oct	Nov	Dec
08:30 - 09:00	0.05	0.05	0	0.05	0	0	0
09:00 - 09:30	0.05	0	0	0	0	0	0
09:30 - 10:00	0	0	0	0	0	0	0
10:00 - 10:30	0	0	0	0	0	0	0
10:30 - 11:00	0	0	0	0	0	0	0
11:00 - 11:30	0	0	0	0	0	0	0
11:30 - 12:00	0	0	0	0	0	0	0
12:00 - 12:30	0	0	0	0	0	0	0
12:30 - 13:00	0	0	0	0	0	0	0
13:00 - 13:30	0	0	0	0	0	0	0
13:30 - 14:00	0	0	0	0	0	0	0
14:00 - 14:30	0	0	0	0	0	0	0
14:30 - 15:00	0	0	0	0	0	0	0
15:00 - 15:30	0	0	0	0	0	0	0
15:30 - 16:00	0	0	0	0	0	0	0
16:00 - 16:30	0	0	0	0	0	0	0
16:30 - 17:00	0	0	0	0	0	0	0
17:00 - 17:30	0.05	0	0.05	0	0	0.05	0.05
17:30 - 18:00	0.05	0.05	0	0	0	0	0.05
18:00 - 18:30	0.05	0.05	0	0.05	0	0.05	0.05
18:30 - 19:00	0.05	0	0	0	0	0.05	0
19:00 - 19:30	0.05	0	0	0	0	0	0
19:30 - 20:00	0.05	0	0	0	0	0	0
20:00 - 20:30	0	0	0	0	0	0	0
20:30 - 21:00	0	0	0	0	0	0	0
21:00 - 21:30	0	0	0	0	0	0	0
21:30 - 22:00	0	0	0	0	0	0	0
22:00 - 22:30	0	0	0	0	0	0	0
22:30 - 23:00	0	0	0	0	0	0	0
23:00 - 23:30	0	0	0	0	0	0	0

Time of day	Jan	Feb	Mar	Sep	Oct	Nov	Dec
23:30 - 00:00	0	0	0	0	0	0	0