

# **FLEXIBILITY COMPETITION REQUIREMENTS**

Flexibility Services - Tender 2021

Document Reference: NIEN-FCR-21

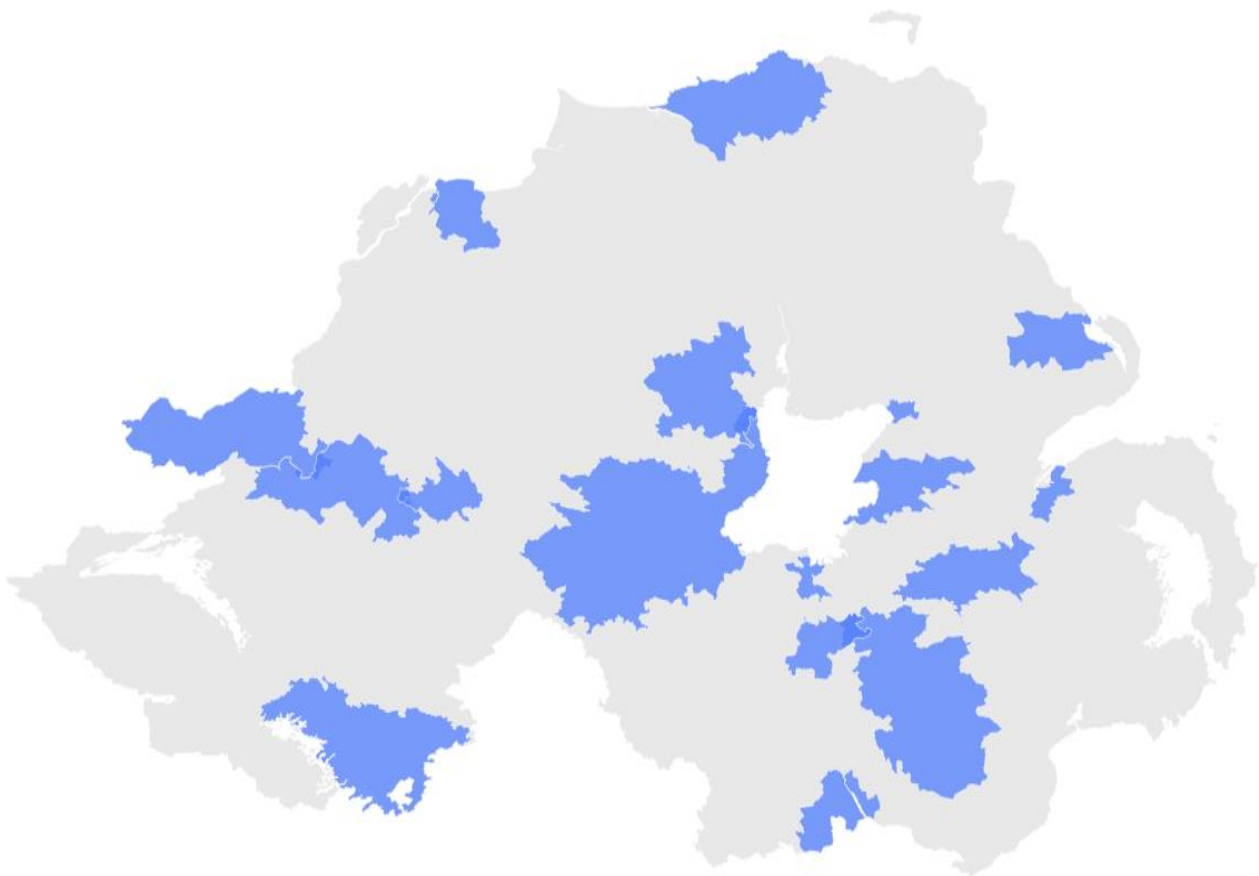


## INTRODUCTION

NIE Networks is seeking to procure network Flexibility Services in specific areas in Northern Ireland identified in this document (Flexibility Trial Zones, FTZs) during this 2021 Flexibility tender exercise as part of its FLEX innovation project.

The FTZs depicted in this document correspond to sections of electricity distribution network to which final Flexible Assets must be connected in order to effectively deliver Flexibility services.

This document contains site specific requirements and should be read in conjunction with NIE Networks' Flexibility Product Specification (NIEN-FPS-01) found on NIE Networks' website [www.nienetworks.co.uk/flexibility](http://www.nienetworks.co.uk/flexibility).



## DOCUMENT SUITE

This Flexibility Competition Requirements document (NIEN-FCR-21) outlines Flexibility Trial Zone specific requirements such as Service Windows, Flexibility volume requirements and Utilisation estimates, and should be read in conjunction the Flexibility Product Specification document (NIEN-FPS-01), in its entirety and satisfy themselves that they fully understand NIE Networks' Flexibility service requirements.

<b>Document</b>	<i>Document Reference</i>
Flexibility Product Specification	NIEN-FPS-01
<b>Flexibility Competition Requirements</b> (this document)	NIEN-FCR-21

## TIMELINE

<b>Key Stage</b>	<i>Date (indicative where italics used)</i>
Publication of Flexibility Opportunities	1 February 2021
Pre-Qualification Questionnaire Issue	<i>March</i>
Pre-Qualification Questionnaire Close	<i>April</i>
Invitation to Tender Issue	<i>April/May</i>
Invitation to Tender Close	<i>June</i>
Contract Award	<i>August</i>
Proving Tests	30 days prior to contract commencement
Expected Contract Commencement(s)	<i>October 2021</i>

## CONTRACT DURATION AND EXTENSIONS

NIE Networks is seeking to contract for Flexibility services from 1 October 2021 to 30 September 2022 noting that Flexibility Service periods may only represent a portion of the contract period e.g. 1 October 2021 to 31 March 2022 and final contracts may also include the option to extend the contract for two 1 year periods.

## DISCLAIMER

Where applicable, NIE Networks has provided estimates of Utilisation Events per Period and Average Utilisation Duration to inform Flexibility Providers. Unless specifically stated, NIE Networks does not guarantee any minimum or maximum number or frequency of Utilisation Instructions or the duration of Utilisation events notwithstanding the requirements in the Flexibility Product Specification (NIEN-FPS-01).

## FTZ REQUIREMENTS

The following sets out NIE Networks specific FTZ requirements and should be considered in conjunction with the general requirements in NIE Networks' Flexibility Product Specification (NIEN-FPS-01). In order to effectively offer Flexibility to the network to support NIE Networks; Flexible Assets which could be customers, facilities, Distributed Energy Resources or sites must be connected within the shaded blue areas on the respective maps. The blue shaded areas give an indication of location and contain buffer areas, and NIE Networks will confirm Flexible Asset location and its ability to effectively deliver Flexibility based on customers' Meter Point Reference Number (MPRN). NIE Networks' decision is final.

# 1: Banbridge

Piclo Flex Ref/Competition ID: NIEN-21-01

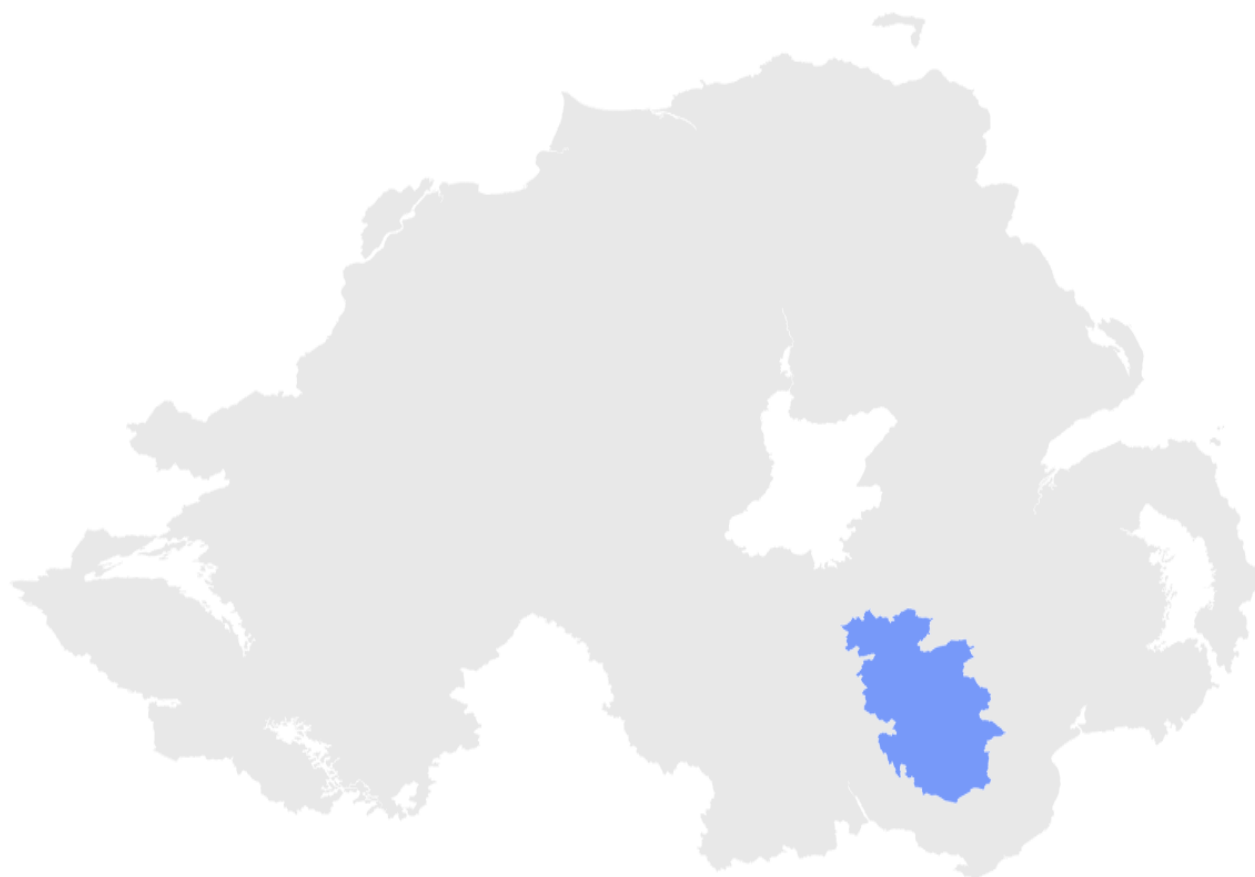
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Dynamic
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.8 MW
Voltage(s)	11 kV or Below

## Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Availability Hours	504
Total Availability MWh	907.2

## Utilisation Estimates

Utilisation Events per Period	3
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	6
Total Utilisation MWh	10.8



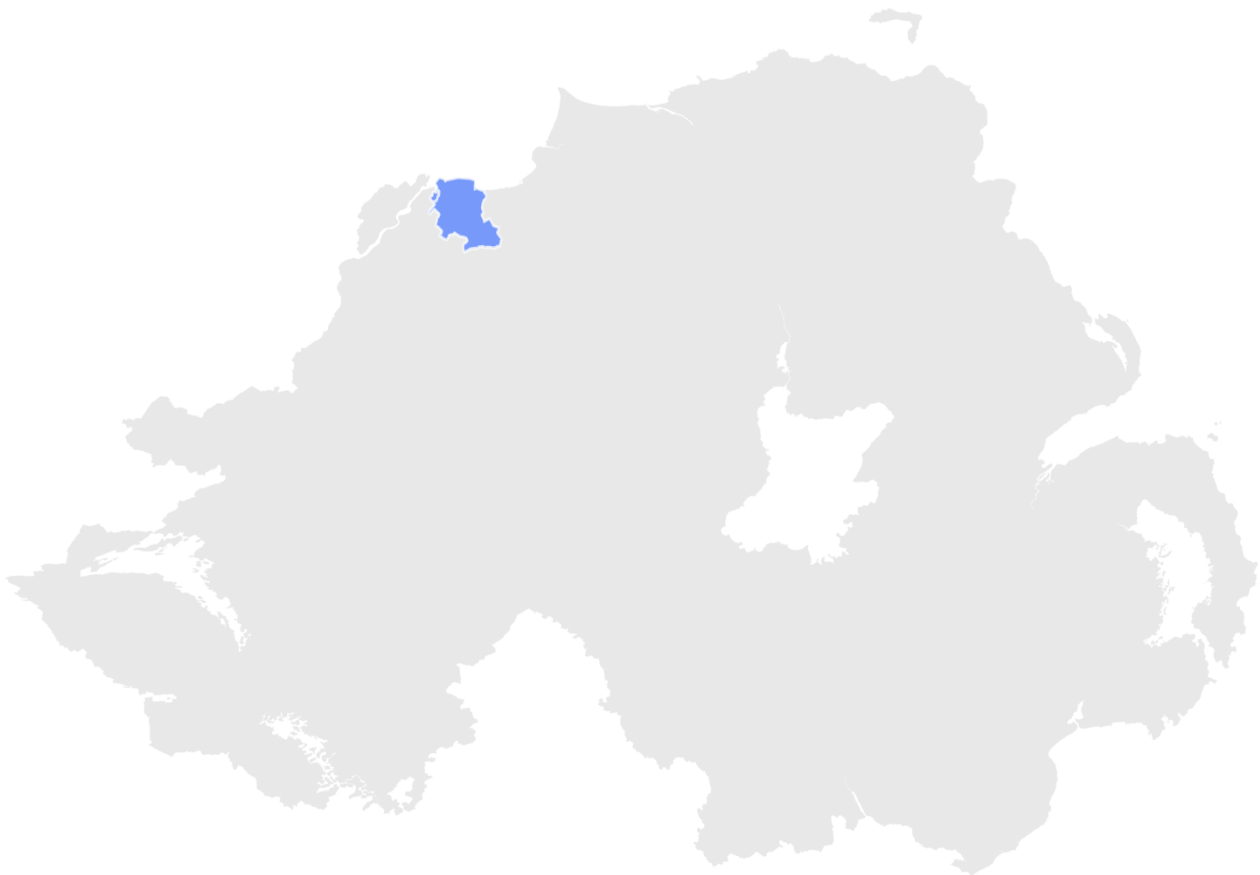
## 2: Campsie Central

Piclo Flex Ref/Competition ID: NIEN-21-102

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Sustain
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.2 MW
Voltage(s)	11 kV or Below

### Service Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Service Hours	504
Total Service MWh	604.8



### 3: Carn Central

Piclo Flex Ref/Competition ID: NIEN-21-03

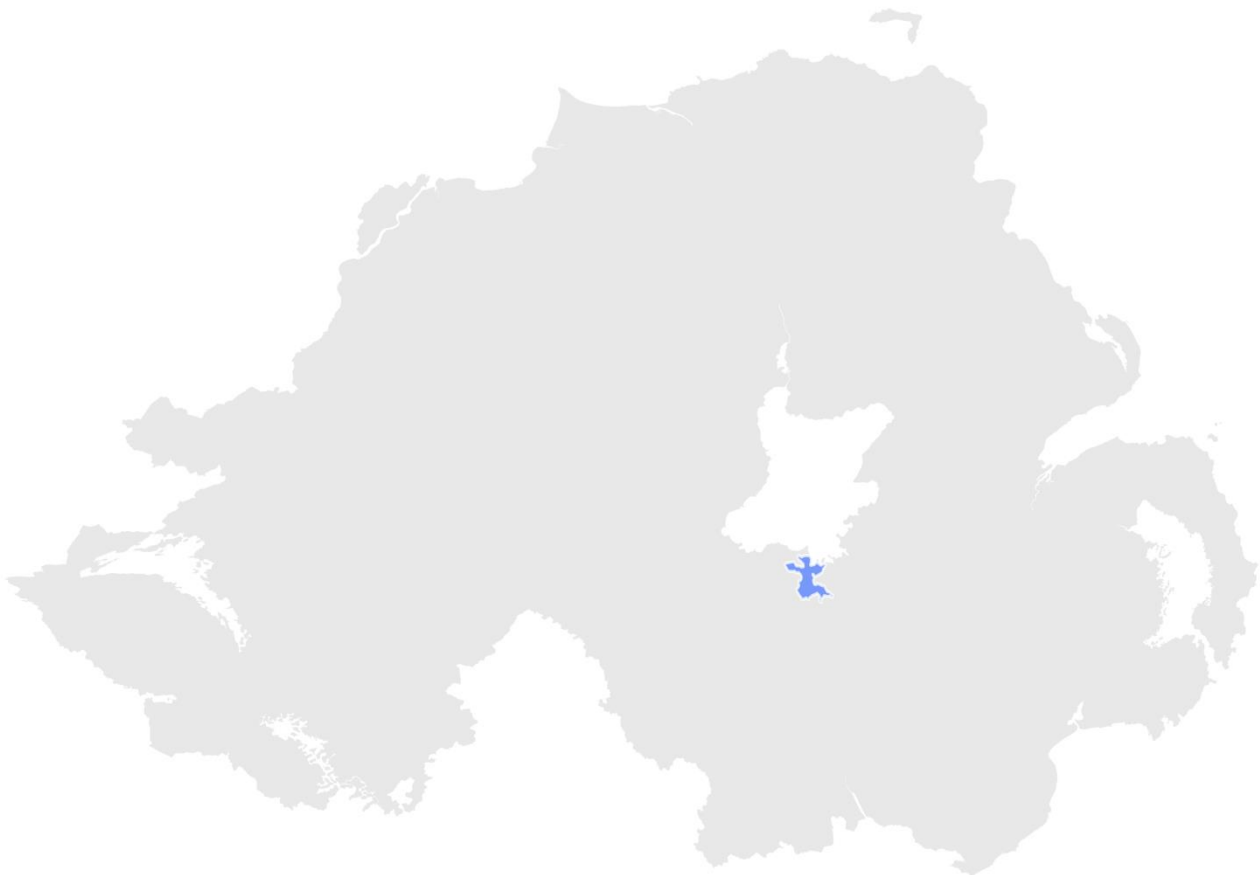
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Dynamic
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.3 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Availability Hours	504
Total Availability MWh	655.2

### Utilisation Estimates

Utilisation Events per Season	3
Average Utilisation Event Duration	2
Total Utilisation Hours	6
Total Utilisation MWh	7.8



## 4: Castlederg South

Piclo Flex Ref/Competition ID: NIEN-21-04

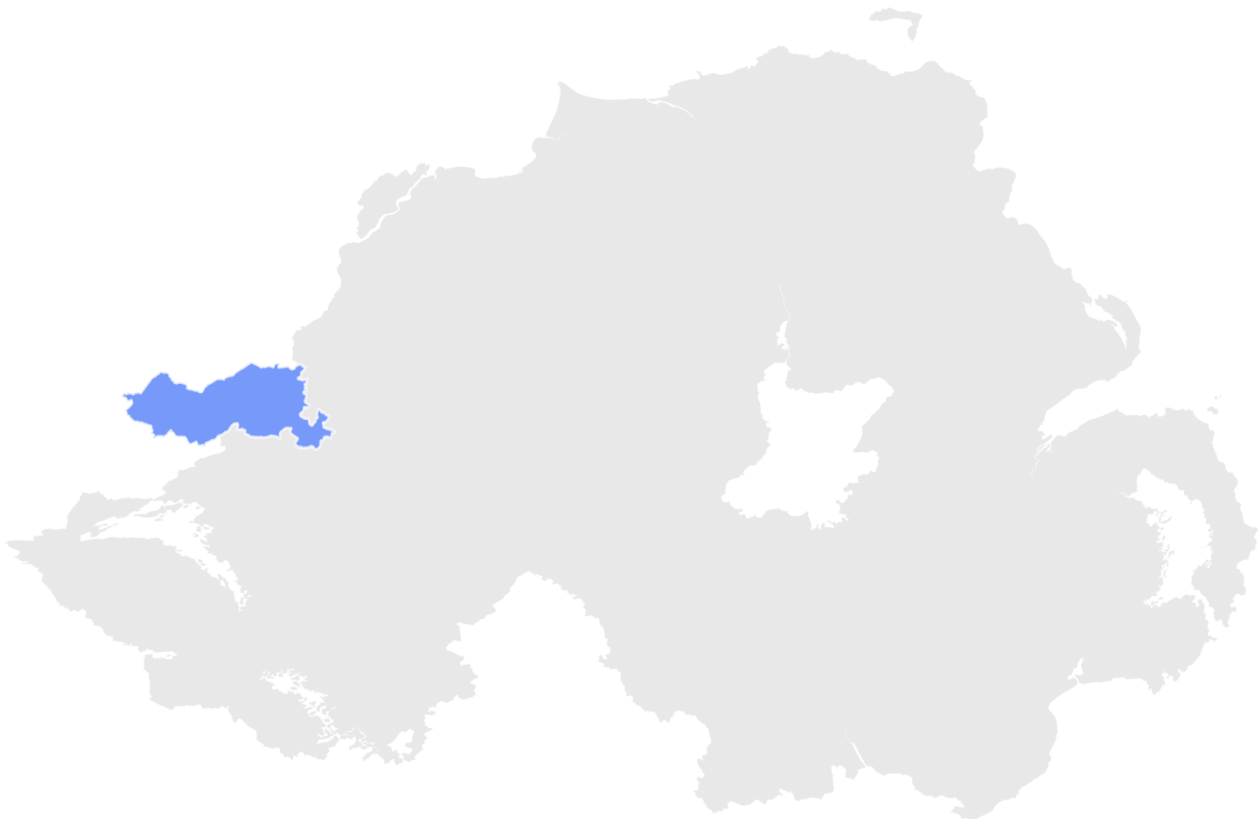
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Secure
Power Type	Active Power
Direction	Demand Turn Up/Generation Turn Down <sup>1</sup>
Flexibility Capacity	2.0 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 April – 30 September
Days	Everyday
Hours	20:00 – 08:00 (Overnight)
Total Availability Hours	2,196
Total Availability MWh	4,392

### Utilisation Estimates

Utilisation Events per Season	15
Average Utilisation Event Duration	2
Total Utilisation Hours	30
Total Utilisation MWh	60



<sup>1</sup> Note, Castlederg South is the only FTZ with this direction of requirement in this tender.



## 5: Crosshill Central

Piclo Flex Ref/Competition ID: NIEN-21-05

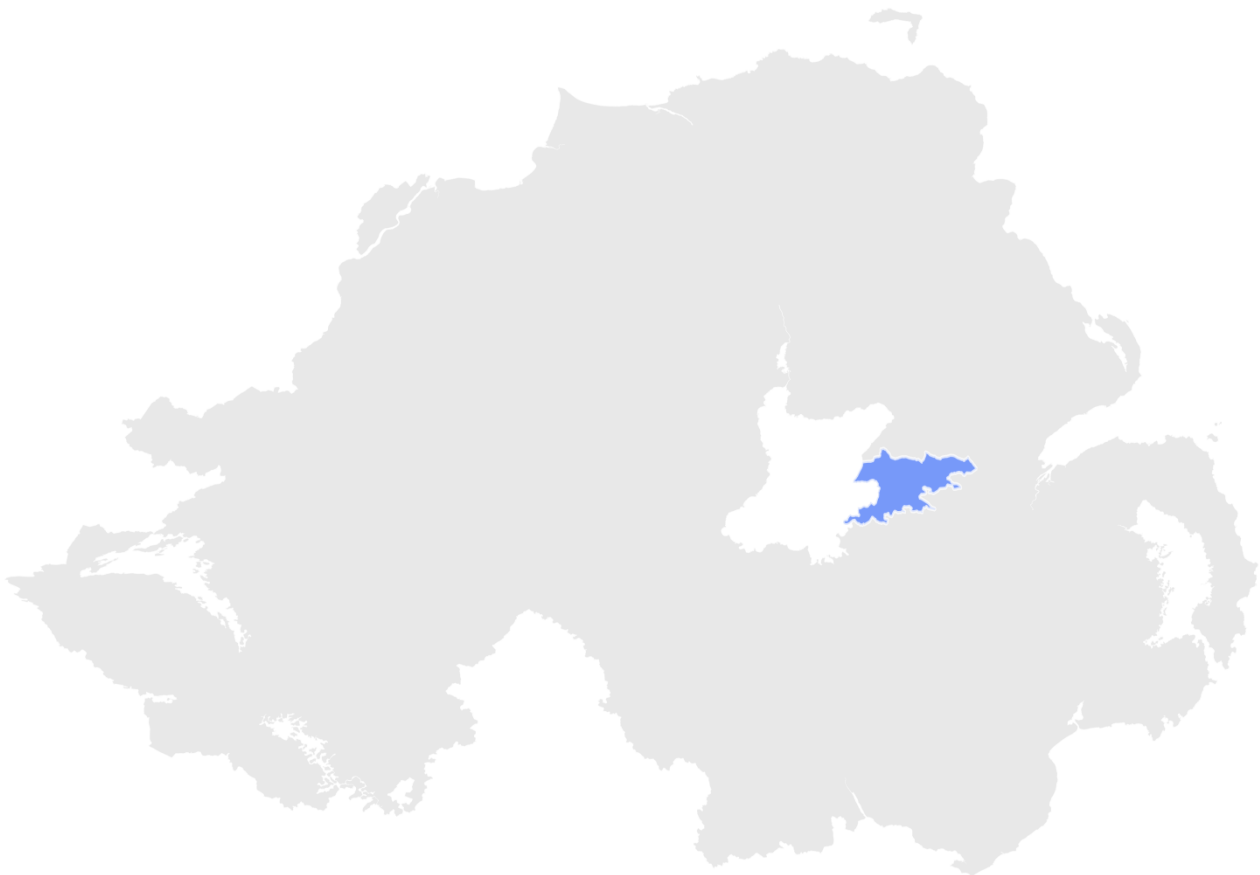
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Dynamic
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.0 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Availability Hours	504
Total Availability MWh	504

### Utilisation Estimates

Utilisation Events per Season	3
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	6
Total Utilisation MWh	6



## 6: Dungannon

Piclo Flex Ref/Competition ID: NIEN-21-06

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Secure
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	10.0 MW
Voltage(s)	33 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Availability Hours	504
Total Availability MWh	5,040

### Utilisation Estimates

Utilisation Events per Season	15
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	30
Total Utilisation MWh	300



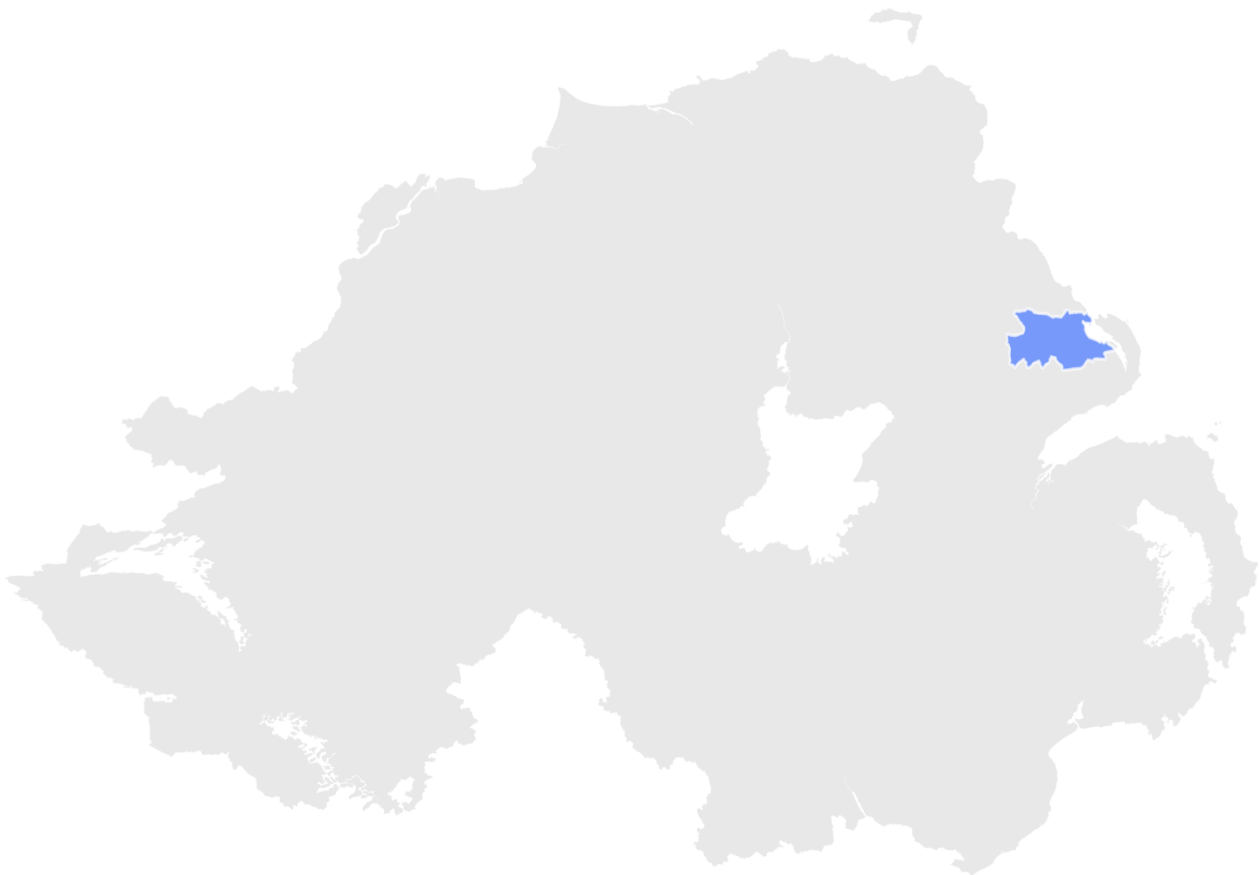
## 7: Inver

Piclo Flex Ref/Competition ID: NIEN-21-07

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Sustain
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.0 MW
Voltage(s)	11 kV or Below

### Service Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Service Hours	504
Total Service MWh	504



## 8: Lisnaskea Central

Piclo Flex Ref/Competition ID: NIEN-21-08

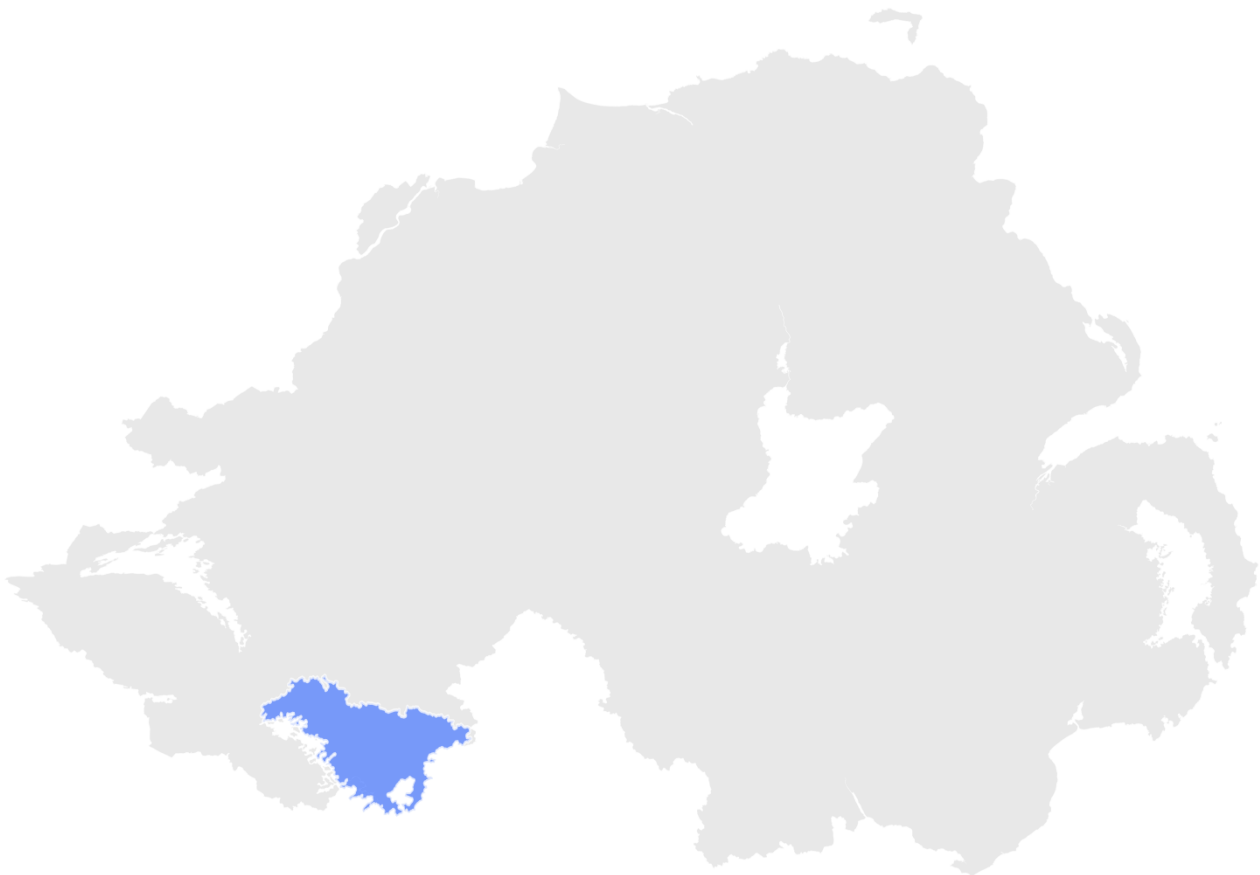
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Secure
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.0 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Availability Hours	504
Total Availability MWh	504

### Utilisation Estimates

Utilisation Events per Season	15
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	30
Total Utilisation MWh	30



## 9: Loguestown

Piclo Flex Ref/Competition ID: NIEN-21-09

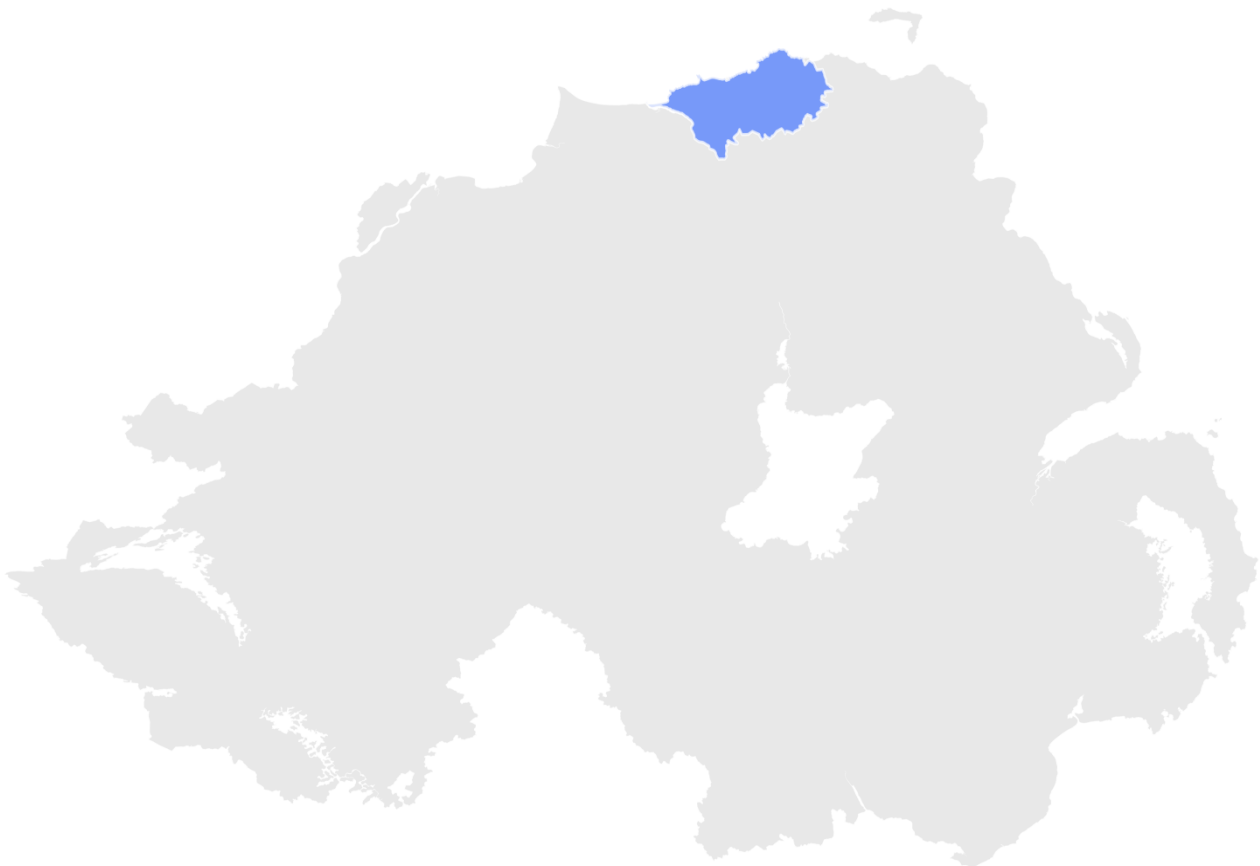
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Secure
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	3.5 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Availability Hours	504
Total Availability MWh	1,764

### Utilisation Estimates

Utilisation Events per Season	15
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	30
Total Utilisation MWh	105



## 10: Magherafelt West

Piclo Flex Ref/Competition ID: NIEN-21-10

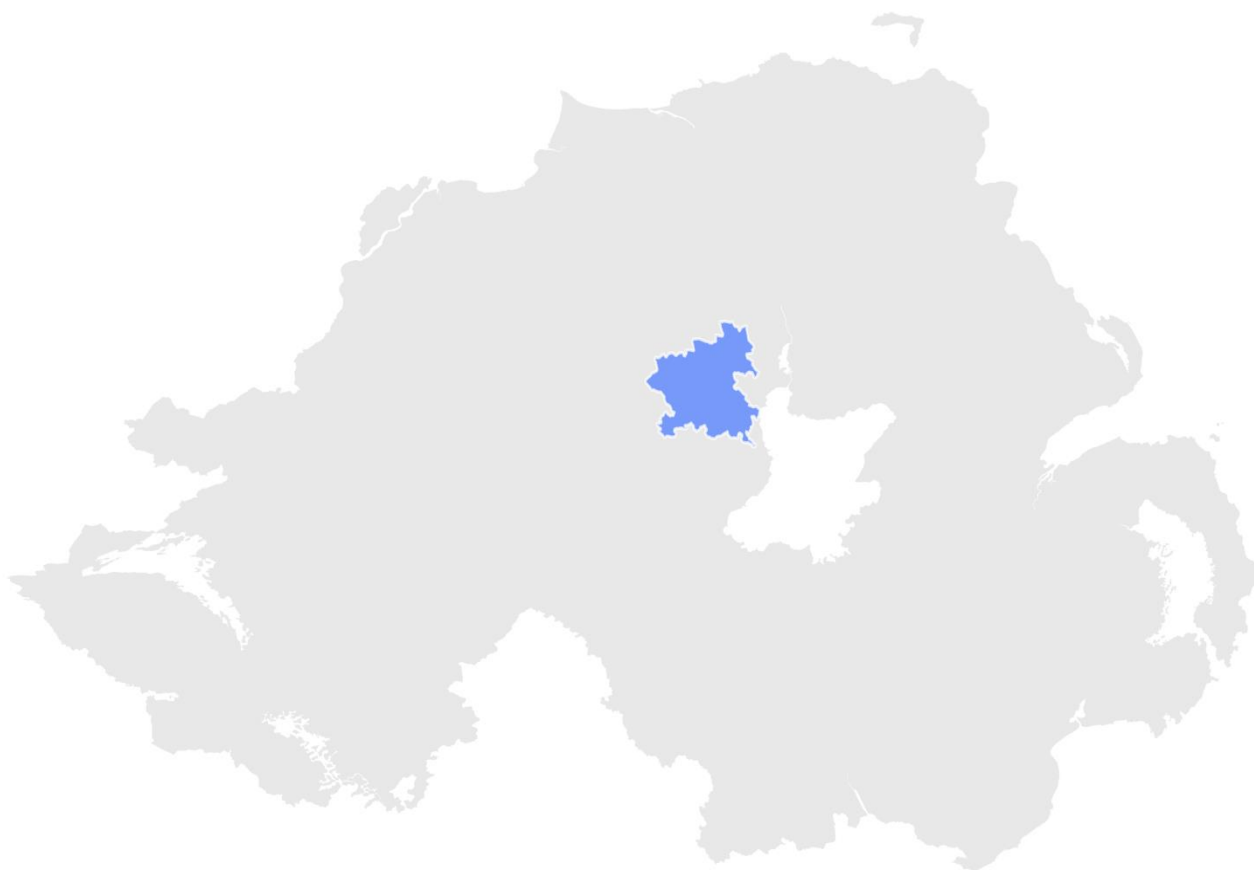
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Dynamic
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.0 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	12:00 – 20:00
Total Availability Hours	1,008
Total Availability MWh	1,008

### Utilisation Estimates

Utilisation Events per Season	3
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	6
Total Utilisation MWh	6



## 11: Mountpottinger

Piclo Flex Ref/Competition ID: NIEN-21-11

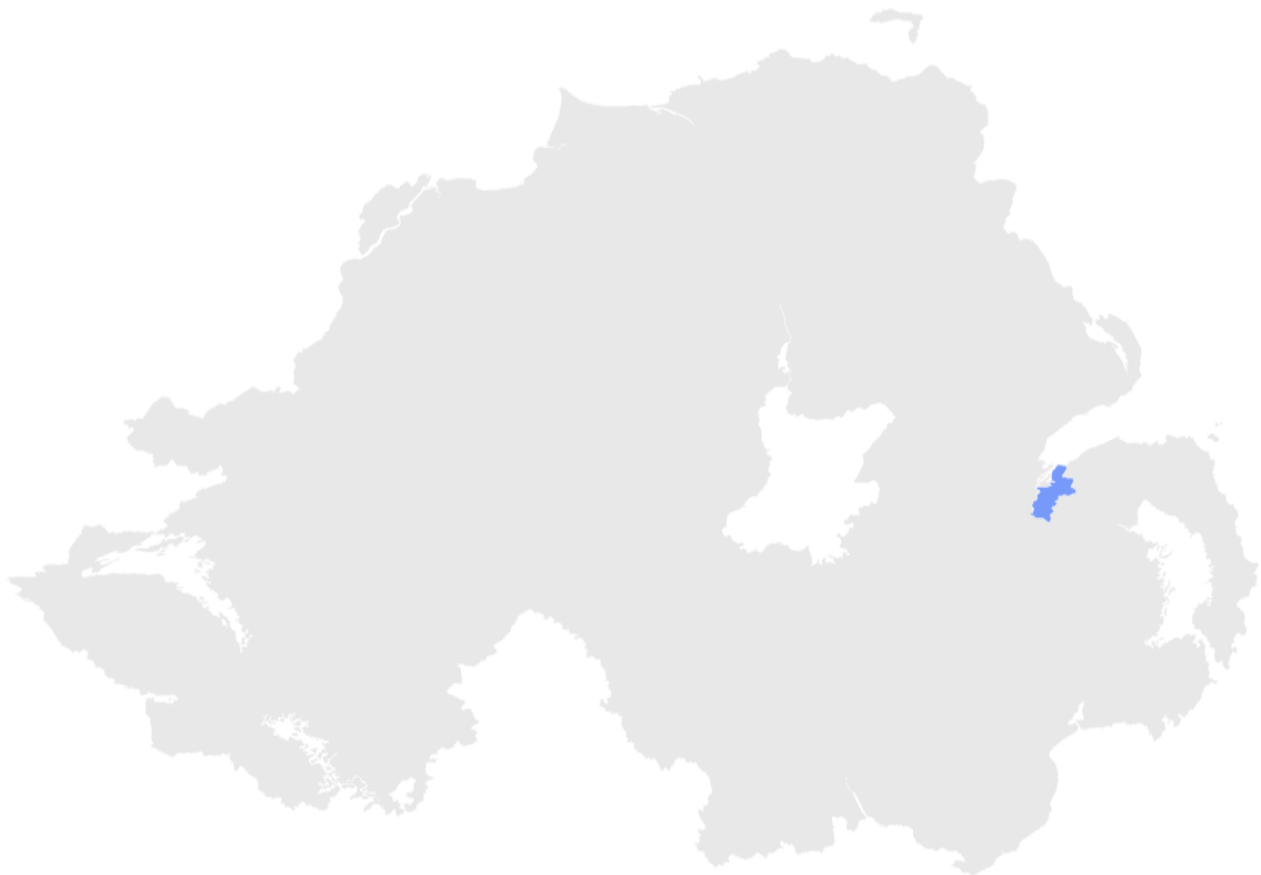
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Dynamic
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	10.0 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	08:00 – 18:00
Total Availability Hours	1,260
Total Availability MWh	12,600

### Utilisation Estimates

Utilisation Events per Season	3
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	6
Total Utilisation MWh	60



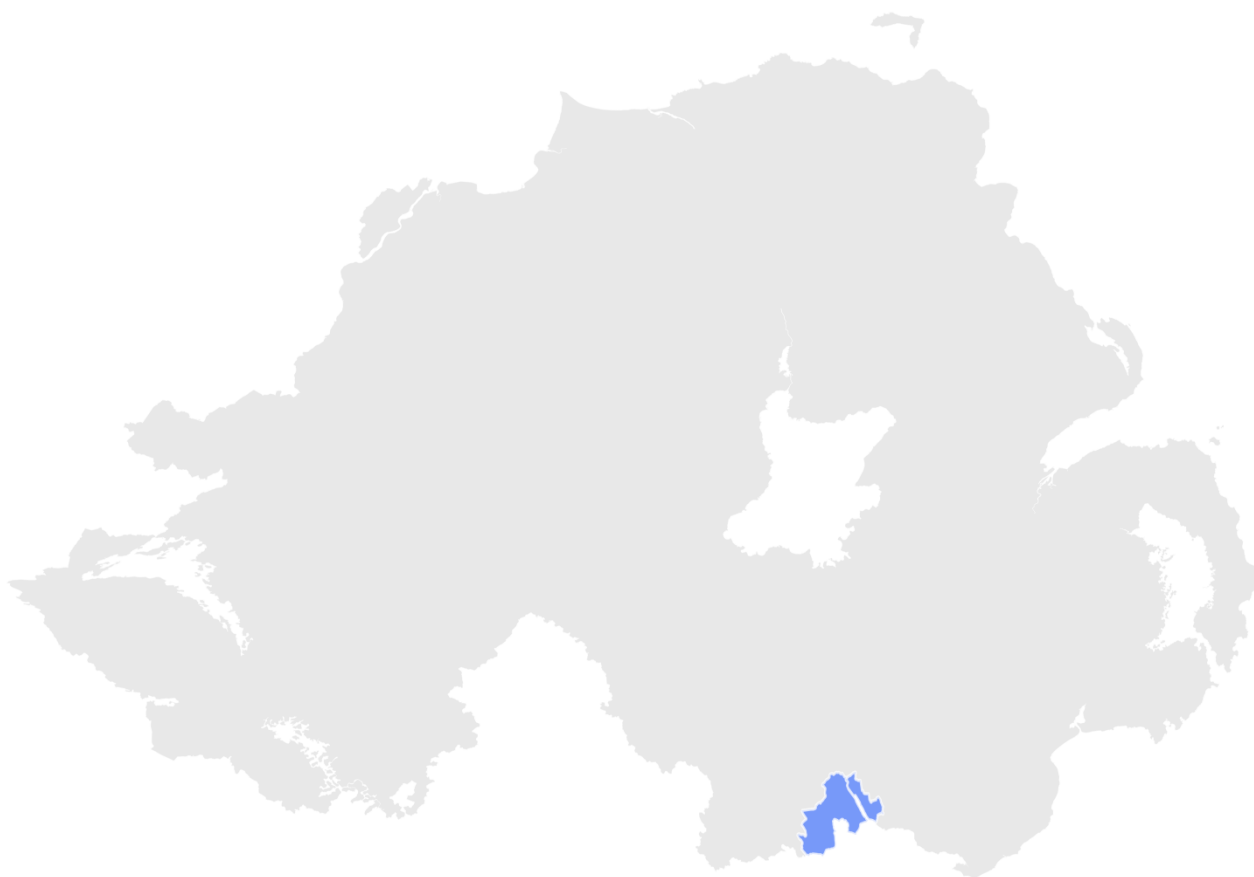
## 12: Newry South

Piclo Flex Ref/Competition ID: NIEN-21-12

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Sustain
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.2 MW
Voltage(s)	11 kV or Below

### Service Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Service Hours	504
Total Service MWh	604.8





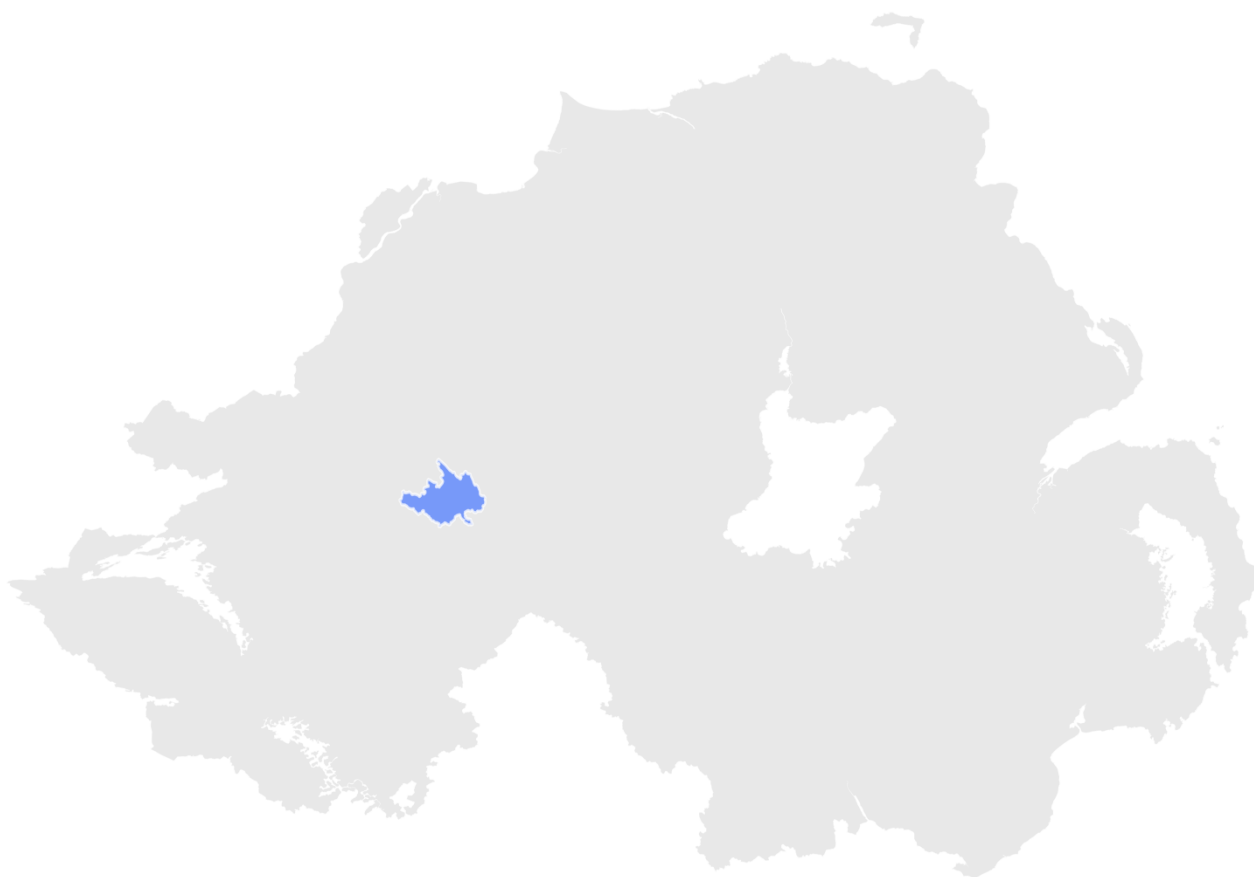
## 13: Omagh South

Piclo Flex Ref/Competition ID: NIEN-21-13

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Sustain
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.1 MW
Voltage(s)	11 kV or Below

### Service Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Service Hours	504
Total Service MWh	554.4



## 14: Omagh West

Piclo Flex Ref/Competition ID: NIEN-21-14

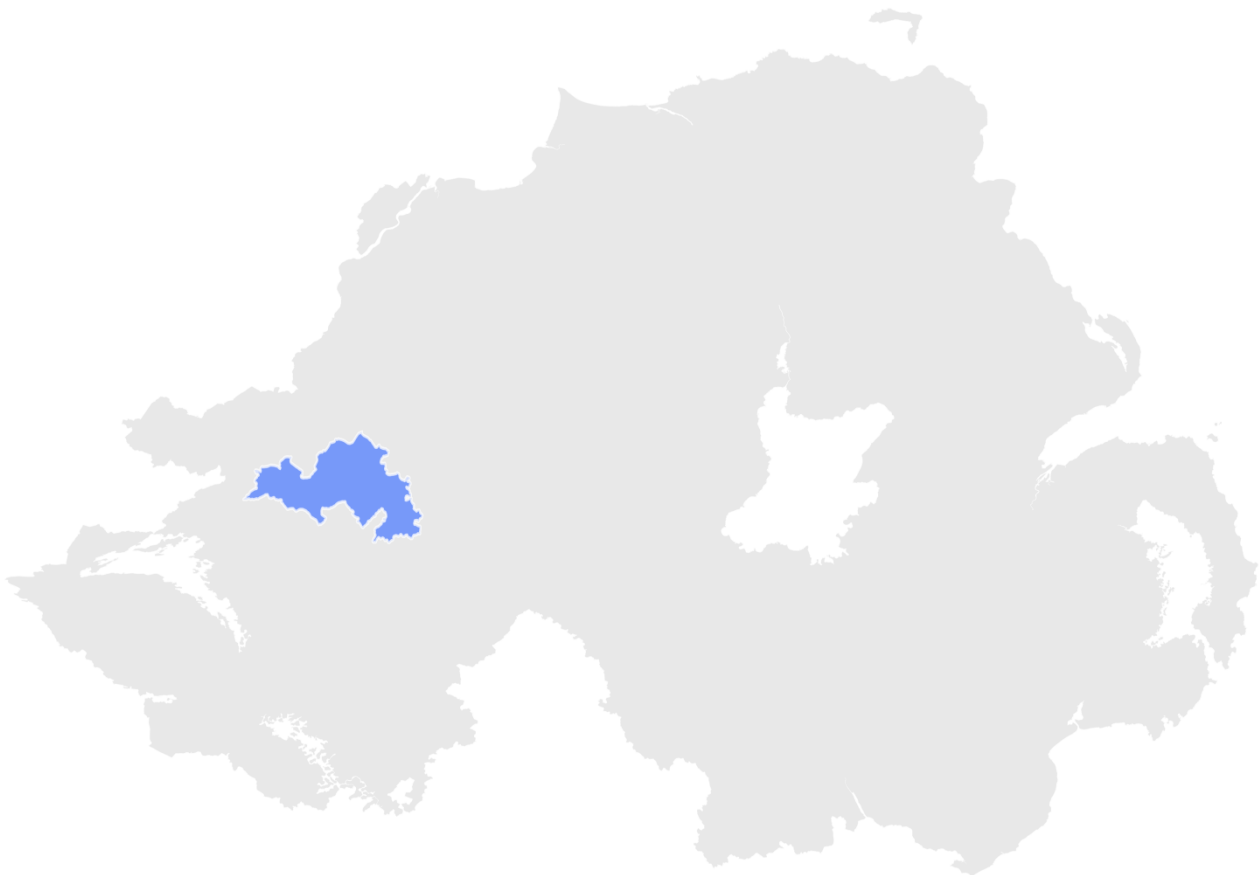
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Secure
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.1 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	08:00 – 20:00
Total Availability Hours	1,512
Total Availability MWh	1,663.2

### Utilisation Estimates

Utilisation Events per Season	15
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	30
Total Utilisation MWh	33



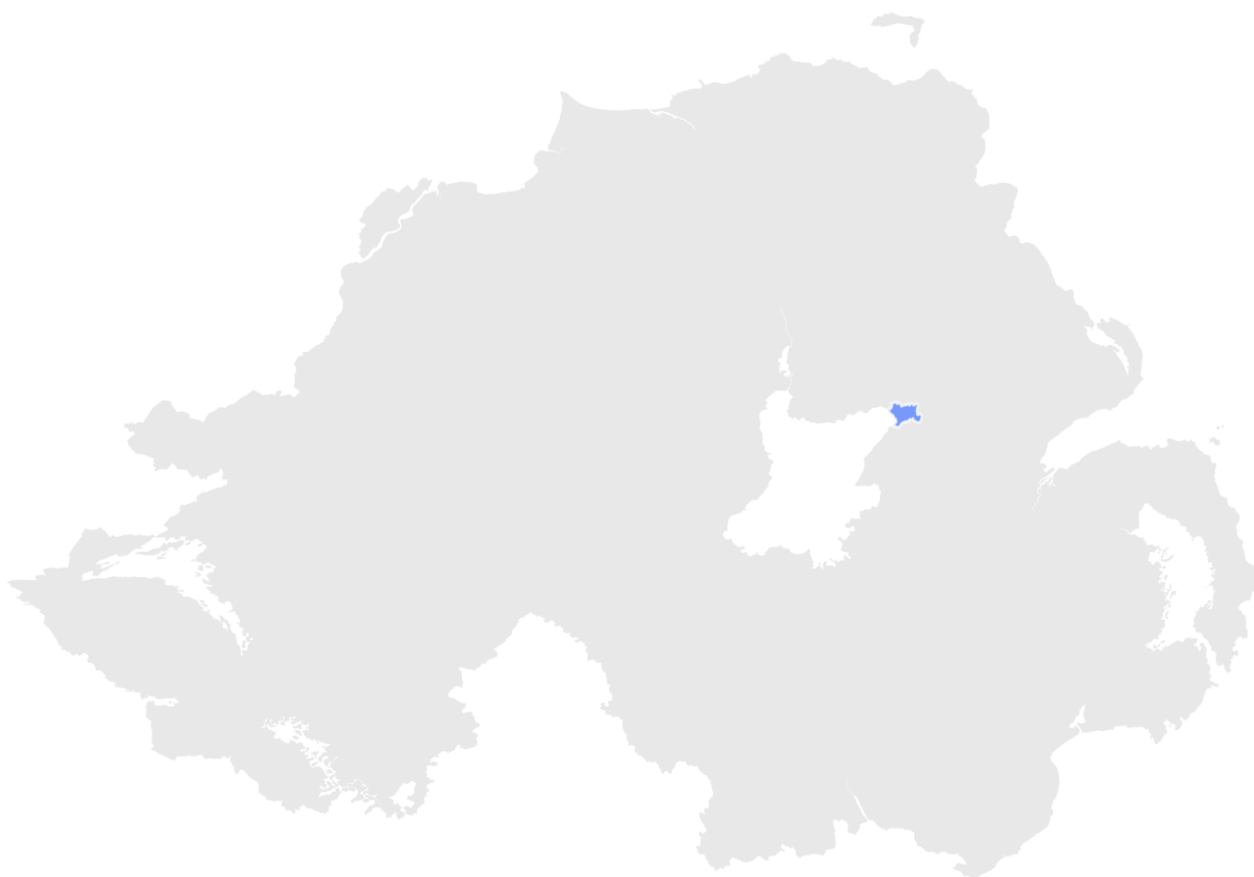
## 15: Parkhall

Piclo Flex Ref/Competition ID: NIEN-21-15

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Sustain
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.0 MW
Voltage(s)	11 kV or Below

### Service Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	16:00 – 20:00
Total Service Hours	504
Total Service MWh	504



## 16: Sprucefield

Piclo Flex Ref/Competition ID: NIEN-21-16

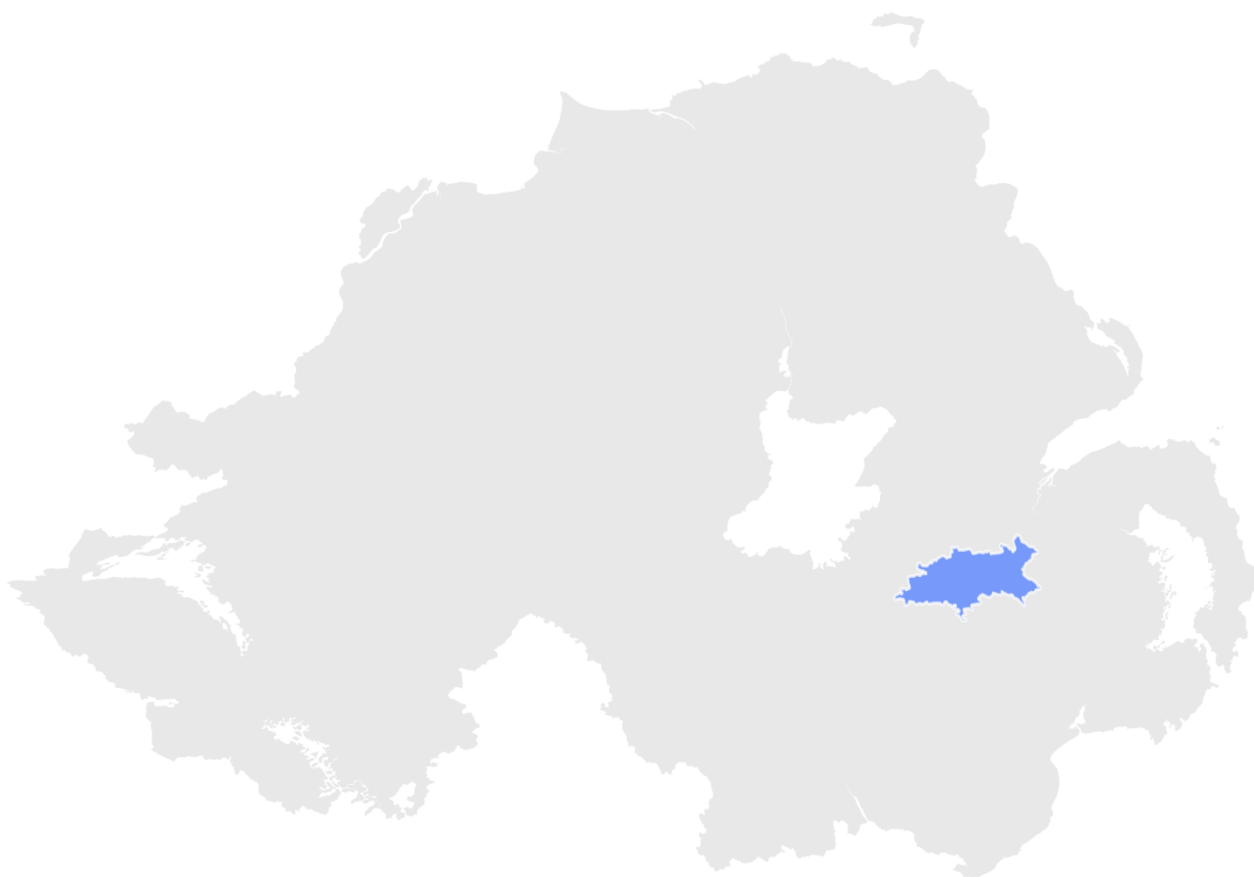
Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Secure
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.0 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	08:00 – 20:00
Total Availability Hours	1,512
Total Availability MWh	1,512

### Utilisation Estimates

Utilisation Events per Season	15
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	30
Total Utilisation MWh	30



## 17: Tandragee East

Piclo Flex Ref/Competition ID: NIEN-21-17

Contract Start: 01 October 2021	Contract Finish: 30 September 2022
Flexibility Product	Dynamic
Power Type	Active Power
Direction	Demand Turn Down/Generation Turn Up
Flexibility Capacity	1.1 MW
Voltage(s)	11 kV or Below

### Availability Requirements

Period	01 October – 31 March
Days	Weekdays
Hours	08:00 – 20:00
Total Availability Hours	1,512
Total Availability MWh	1,663.2

### Utilisation Estimates

Utilisation Events per Season	3
Average Utilisation Event Duration Hours	2
Total Utilisation Hours	6
Total Utilisation MWh	6.6

