

Expression of Interest (EoI)

Thanet Grid–Dynamic and Restore Flexibility Services

UK Power Networks (Operations) Limited

Reference: Thanet Grid- Dynamic and Restore Flexibility Services

Version 1.0
Date: Sep 2021

1 Thanet Zone

UK Power Networks is seeking Flexibility Services from existing distributed energy resources (DER) within the Thanet Zone to support local outages.

- **Network need:** Support the network pre-fault (Dynamic) and support restoration of customer electricity supplies in the event of an unplanned fault (Restore) by either exporting active power or reducing the import of active power on instruction
- **Service Dates:** The service is required between September 2021 and September 2022
- **Capacity requirement:** up to 20MW
- **Payment type:** Utilisation Fee £/MWh, fixed for the first month but can be varied monthly thereafter
- **Zone Postcodes:** CT10 1-3; CT11 0,6-9; CT12 1,4-6; CT7 0, 9; CT8 8; CT9. The indicative area is shown in the below map.

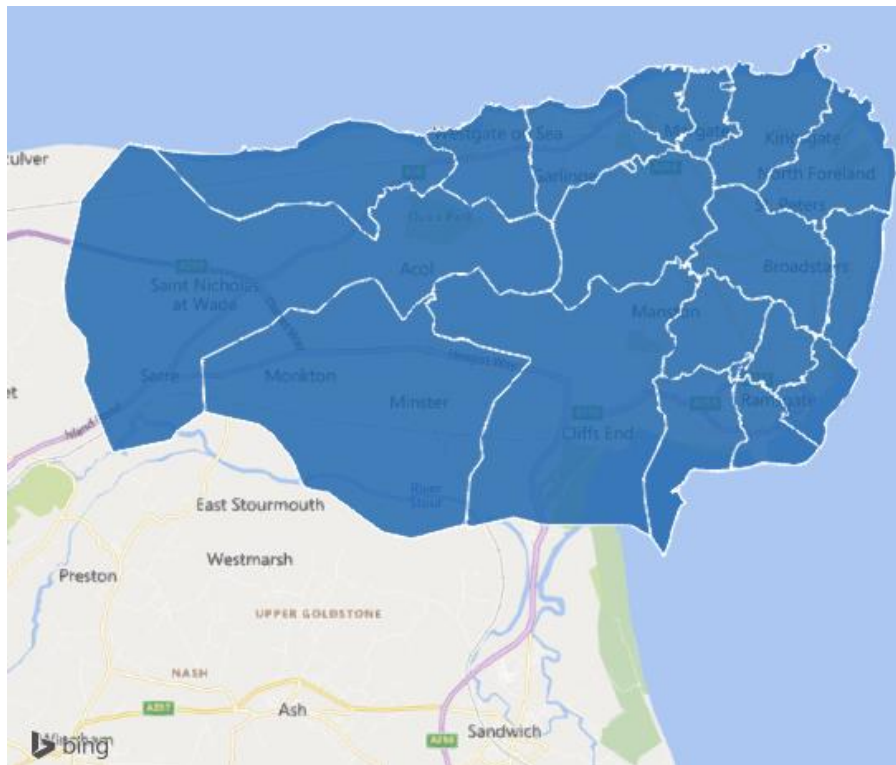


Figure 1: Thanet zone geographic map

2 Technical Requirements

- **Minimum size:** 500kW from one or more DERs
- **Connection:** DERs need to be connected downstream of Thanet Grid (see electrical schematic diagram), on the 33kV network or below
- **Services:** The DER needs to be able to provide either, or both, Restore or Dynamic services
- **Activation method:** Phone call from UK Power Networks' control room in the event of a fault or via an email or API if activated pre-fault

- **Availability to respond:** Providers can be activated at any time of day but generally will be during the daytime. For Restore services, the DER is by default assumed available to respond to an instruction unless the provider notifies UK Power Networks of unavailability. Dynamic service availability is optional and can be communicated to UK Power Networks through a capability declaration when requested
- **Post-fault response:** the DER may become disconnected from the distribution network following the fault. UK Power Networks will contact the provider to arrange for re-connection and activation of the service
- **Pre-fault response:** UK Power Networks will issue a capability request during business hours stating the times when the service may be required, the provider will respond providing a capability declaration of how much flexible capacity is available during the requested times. UK Power Networks may issue utilisation instructions thereafter
- **Response Time:** DERs should be able to deliver services within 15 minutes from when the site connection has been re-energised for Restore services or within 30 minutes from when a utilisation instruction has been issued for Dynamic services
- **Maximum Run Time:** Providers need to be able to sustain their energy delivery for at least three hours for Restore services, or at least 30 minutes for Dynamic services
- **Metering:** Half hourly metering for validation and settlements

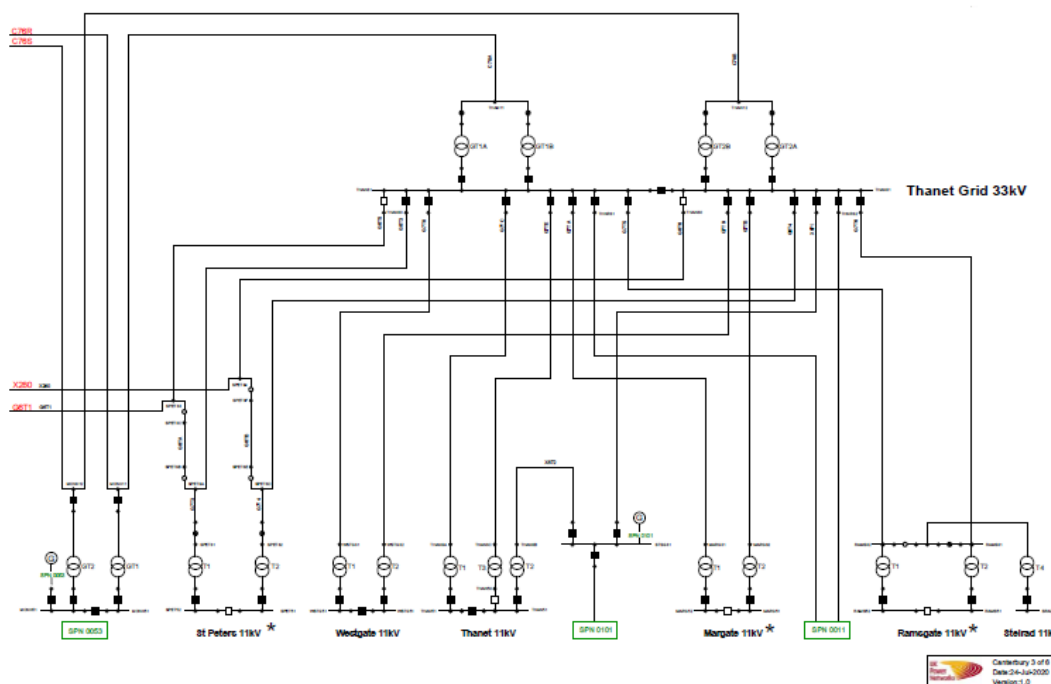


Figure 2: Thanet Zone electrical schematic

3 How to express interest

If your solution satisfies the above requirements we would like to hear from you.

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Please contact Sam Do at flexibility@ukpowernetworks.co.uk providing details of your solution against each of the technical requirements. Please include your MPAN so we can check that your assets are connected to the zone.

You will also need to register to the Piclo Flex platform at picloflex.com where you will be able to view the zone and bid once your asset has been qualified.

The deadline for submitting your expression of interest is **Friday 24 September at 13:00**.