



Customer Journey



Welcome To The Future! >>>>

>> What is BiTraDER?

BiTraDER is a new flexibility trading project that aims to give customers more choice in managing their demand and network obligations.

The innovative project will investigate and trial – live on the electricity network – new opportunities for customers to trade between themselves, avoiding curtailment and generating additional revenue. The pilot scheme is a first in the UK to test bilateral trading on a live network setting and aims to encourage greater participation in flexibility services and uptake of renewable energy resources.

We are looking for customers to help develop the solution and be part of our trials, shaping the market for the future.



>> How does BiTraDER work?

The idea is to enable customers connected to the distribution network to buy and sell spare network capacity, or trade the position in the order in which customers are instructed to act in response to network constraints.

This will allow customers to generate additional revenue by selling capacity when their demand is lower, while being able to buy spare capacity from others when needed, to avoid curtailment.

It opens up new opportunities for flexibility provision, and in doing so, supports the distribution network to operate more efficiently, thereby reducing whole system costs.



>> How can it help me?

Customers with non-firm network connections

If you are a customer with a non-firm network connection, the distribution network operator can curtail you without any consideration of 'on-the-day' conditions and the economic impact it may have on your operations.

BiTraDER aims to significantly reduce this risk by allowing you to trade this curtailment with another customer (subject to certain conditions such as location and nature of network constraint) to potentially avoid curtailment at times that have a serious impact on your operation. It will also allow you to sell any spare network capacity on an ad-hoc basis.

The creation of the BiTraDER marketplace should reduce the risk associated with accepting a non-firm network connection. This will allow those waiting in the 'connections queue' to accept a much cheaper non-firm connection with significantly less waiting time.

Customers with firm network connections

If you currently have a firm network connection, BiTraDER will allow you to trade any available network capacity you may have on an ad hoc basis. This will allow you to trade network capacity at times when you are not using it, without having to sign up to any long-term contractual agreements.

Low carbon generators

As an operator of a low carbon generator, you are playing a vital role in the future sustainability of the energy system.

However, as renewable energy resources typically operate with a high fixed cost and low running cost, we realise that the risk of curtailment within a non-firm connection can be a problem.

The BiTraDER scheme gives you the ability to trade away that curtailment obligation, giving you more control over exporting the electricity you generate.



>> BiTraDER project phases

BiTraDER is split into three phases. As a participant, your feedback is vital.

Design & Build Phase

In the first two years of the project, the bilateral trading platform will be designed and built. You will have an integral role in influencing the shape of the trading platform through interviews, surveys, and workshops. We will want to hear how the trading rules and market should be designed from a customer's point of view.

Simulation Phase

In the third year, we will initially deploy the trading platform in a simulated environment. This will allow us to develop, implement and test a core set of trading rules in the market platform – and refine them as appropriate.

Workshops will initially be used to bring the platform to life, allowing for simulated trades to take place between participants based on several network constraint use cases. By participating in the simulated trial, you will be one step closer to determining the potential revenues and value that you could realise from the BiTraDER marketplace.

Live Network Trial Phase

Following on from the simulation phase, the trading platform will be integrated into Electricity North West's live network management system on a limited part of the network. The full end-to-end process of the bilateral trading market will then be tested, taking real output data from the network and allowing customers to trade their curtailment obligations. This will allow you, the customer, to potentially start generating real additional returns by either securing additional network capacity, or by being paid by other parties so they can use your unused capacity on an ad-hoc basis.





Figure 1: Basic BiTraDER project timeline

My part to play

The interviews and workshops will take place on an annual basis and the survey will be bi-annual. While we do not believe that taking part in the project will take up a significant amount of your time, we feel that it is important that it does not have any negative impact on your business. Therefore funding is provided to cover time and travel costs. Support will be provided to you throughout the project as needed.

The surveys will be online forms that will help us find out more about your organisation. The interviews will allow us to explore your wants, needs and concerns regarding the project. The workshops will provide an exciting opportunity to engage with the project team as well as other participants in person – allowing us to explore the BiTraDER market design, and how it can be best tailored to suit your needs.

Be part of the future

If successful, the BiTraDER marketplace and platform has the potential to be deployed nationwide. As a participant in the project, you will have the ability to directly influence the design and build of a marketplace and trading platform that may become a common part of the future operation of electricity networks. This could include ensuring that the BiTraDER marketplace fully realises all the benefits it could bring to your business or ensuring that the BiTraDER trading platform is better aligned with your specific internal processes and IT systems.



Contact

Delta-EE are leading on the customer engagement activities throughout the project. Delta-EE will be available throughout the project to provide support to all those taking part in the project.

If you have any questions regarding the BiTraDER project, please contact BiTraDER@delta-ee.com

You can also visit the ENW website for further information: www.enw.co.uk/go-net-zero/innovation/key-projects/bitrader/



Partners

DELTA-EE



electricity
north west
Bringing energy to your door

ELECTRON



BiTraDER