

WP2 D2.4 DSO Training Material to Inform LAEPs

Intro

This document has been prepared for Work Package 2 of the PRIDE innovation project. Specifically, for the Capacity Maps part of objective D2.4: 'DSO DFES and Capacity Maps training material for better informed LAEP process'. It details the training that has been provided to support local authorities alongside the DFES and Network Opportunity Map (formerly 'Capacity Maps').

DFES

A DFES Local Authority Workbook has been created to support local authorities accessing and querying their DFES data. It contains energy and volume projection graphs across all technologies and subtechnologies in addition to underlying raw data tables. It also provides information on the DFES process and how Local Authority data is incorporated to inform projections. The workbook was produced as an .xlsx file in direct response to feedback in last year's stakeholder engagement webinars. Local authorities are advised to use the workbook as reference for completing the DFES Survey which is then used to incorporate local authority ambition into DFES volume forecasts. The workbook will support PRIDE by allowing LAEP+ users to query the data underlying the DFES layer in addition to visualising it spatially.

Local Authority Workbook: <https://connecteddata.nationalgrid.co.uk/dataset/dfes/resource/43ed83f6-234a-47aa-951c-efc16d40ae03>

The workbook has been intuitively designed to guide local authority users to the DFES data they require. Additionally, it contains a user guide page and DFES introduction page for further guidance and background context to the data. A brief demo was provided during local authority engagement webinars and a [four minute demonstration video](#) has been recorded and will be shared alongside the workbook on our website.

Throughout the period between the launch of DFES 2025 and the stakeholder engagement window, NG DSO's Stakeholder Engagement Officers have been interacting with local authorities including collecting feedback on the DFES Local Authority Workbook. This informal user-testing/ feedback period allowed the DSO to dynamically respond to functionality requests. Multiple workbook iterations led to the creation of the finished workbook, for example, adding projected number of electric vehicle chargers in addition to the projected MW installed capacity.

21 local authorities have completed this year's DFES Survey, bringing the total percentage of local authorities in our licence areas that have completed the survey within the last 3 years up to 71%. 53 local authorities have provided new domestic dwelling data and 39 provided new non-domestic dwellings, the highest feedback rate of any DFES year.

Network Opportunity Map

[The Network Opportunity Map](#) is inbuilt with training material to help users access the information they need. Once logged in, users are asked if they are trying to connect demand or generation and whether it's a domestic or commercial/industrial asset. This filters the map appropriately to the relevant load type and voltage level. A tutorial is then offered to walk users through the map's functionality, seen in figure 1. Additionally, there is a detailed glossary (figure 2) and key (figure 3) to define terms and features on the map. A demonstration video was recorded to guide users through the Network Opportunity Map which will be uploaded to our website.

Help



This visualisation map provides a unified view of the network capacity available across NGED's Bulk Supply Points (BSPs), Primaries and distribution substations. For BSPs and Primaries we have enhanced the capability to provide an indication of demand and generation headroom for both the existing connected network position and the future contracted position.

Filtering

You can toggle the map type selection and the filter options using the show and hide arrow located on the left side of the map.

Map Type

The Map Type option selection allows you to select one of the following visualisations:

Primary (Generation) – Visualise the primary network generation headroom, which includes Bulk Supply Points (BSPs) and Primary substations.

Figure 1: screenshot of the first part of the Network Opportunity Map tutorial.

Glossary

Connected (Network Position)



The network comprising all presently installed plant and mains.

Contracted (Network Position)



The Connected (network position) with the addition of contracted future connections.

Demand Headroom →

Figure 2: screenshot of the first part of the Network Opportunity Map glossary.

Key



	<p>Grid Supply Point (GSP)</p>	<p>A substation where the transmission system connects to a distribution system and the substation steps-down from either 400kV or 275kV to 132kV, 66kV or 33kV. For detailed Grid Supply Point (GSP) queue information and transmission delays please visit our clearview connect tool.</p>
	<p>Bulk Supply Point (BSP)</p>	<p>A substation whose higher voltage is supplied at the same voltage level as the supplying GSP, and whose lower voltage is either 66kV, 33kV or 11kV. BSPs are most commonly 132/66kV, 132/33kV or 132/11kV.</p>
	<p>High (Green)</p>	<p>>15MW capacity available</p>
	<p>Medium (Amber)</p>	<p>5-15MW capacity available</p>

Figure 3: screenshot of the first part of the Network Opportunity Map key.