

Shaping our energy future: Distribution network future energy scenarios

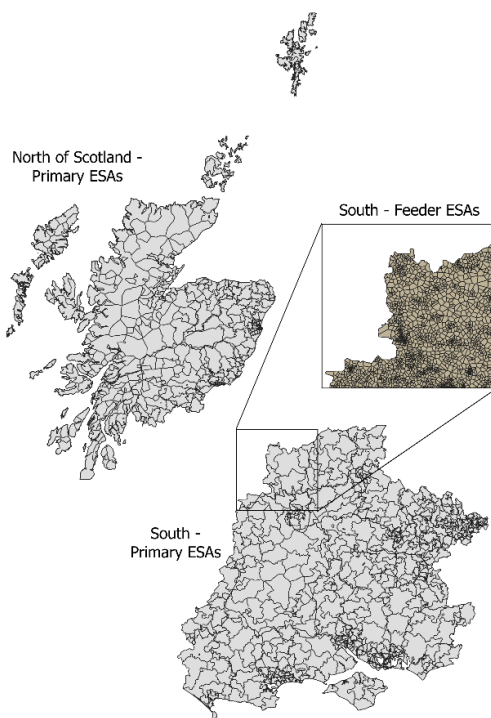
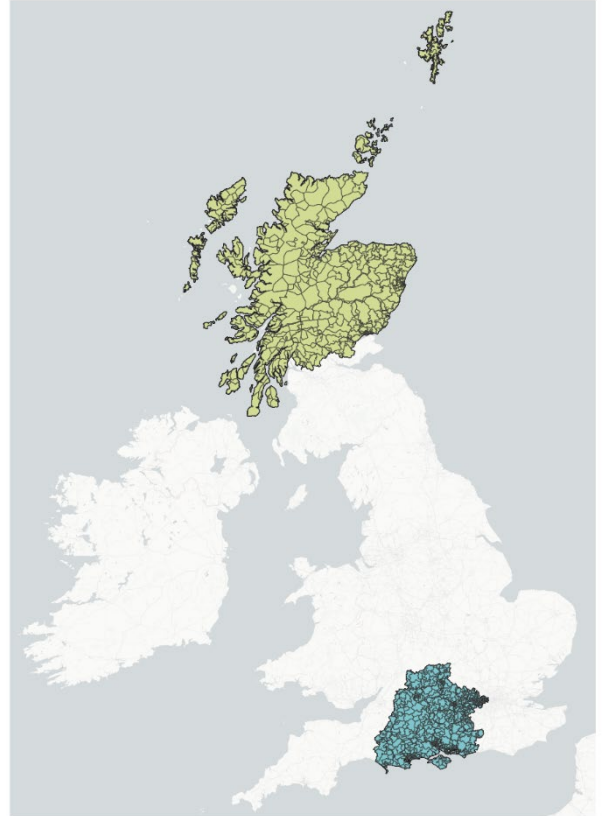
- Briefing document for attendees -

Geographic scope

The geographic scope of the DFES and LCT projects is clear, with the project team assessing all major energy technologies that connect directly to SSEN’s electricity distribution networks in **North of Scotland** and **Southern Central England** (see map).

As with 2020 and 2021 analyses, this year Regen is completing the analysis and projections for both licence areas concurrently, using the same scenario framework, similar technology capacity growth/uptake assumptions, geographical considerations and other key modelling factors.

There are some local authority boundaries that span the borders of SSEN’s licence areas with other network operators (e.g. SP Energy Networks in the north or National Grid Electricity Distribution or UK Power Networks in the south). The modelling allows for this by only assessing projects or properties that are located within the boundary of SSEN’s licence areas and/or directly supplied by SSEN’s network infrastructure.



In-region geographical distribution

The requirement to create regional scenarios that can be used for strategic network planning, has led to the creation of smaller geographic zones or ‘**Electricity Supply Areas**’ (ESAs) within both the North Scotland and Southern England regions.

The final stage of the scenario projections developed by Regen is to distribute the capacity geographically across these ESAs, by scenario and by year. This enables SSEN to view the scenario projections for each technology (out to 2050), down to a finer resolution, and can help to identify electricity demand / generation ‘hot spots’, potential future constraints on the network and determine the need for investment to reinforce the network in specific areas.

Data can also be collated by local authority and can be made available by SSEN to support local authority and other third-party planning activity, such as Local Area Energy Plans (LAEPs) or Local Heat and Energy Efficiency Strategies (LHEES).

Project team and contact

Regen and SSEN welcome your input at this stakeholder workshop, and at any time during the project.

If you have any questions relating to this overview document or about the DFES elements of the event, please contact **Tamsyn Lonsdale-Smith**, Energy Analyst at Regen on tlonsdalesmith@regen.co.uk.

If you have any questions relating to accessing the webinar, please contact **Emma Madray**, Events Manager at Regen on emadray@regen.co.uk.

Lastly if you would like to speak to someone at SSEN regarding DFES or wider future network issues, please contact: **Steve Atkins**, DSO Transition Manager, steve.atkins@sse.com