

An aerial photograph of Edinburgh, Scotland, taken at sunrise. The city's historic architecture, including numerous spires and colorful tenement houses, is visible. The sun is low on the horizon, creating a warm, golden glow and long shadows across the city. The sky is a clear, pale blue.

EMPOWERING COMMUNITIES, ENABLING GROWTH – STRATEGIC ENERGY PLANNING IN DISTRIBUTION

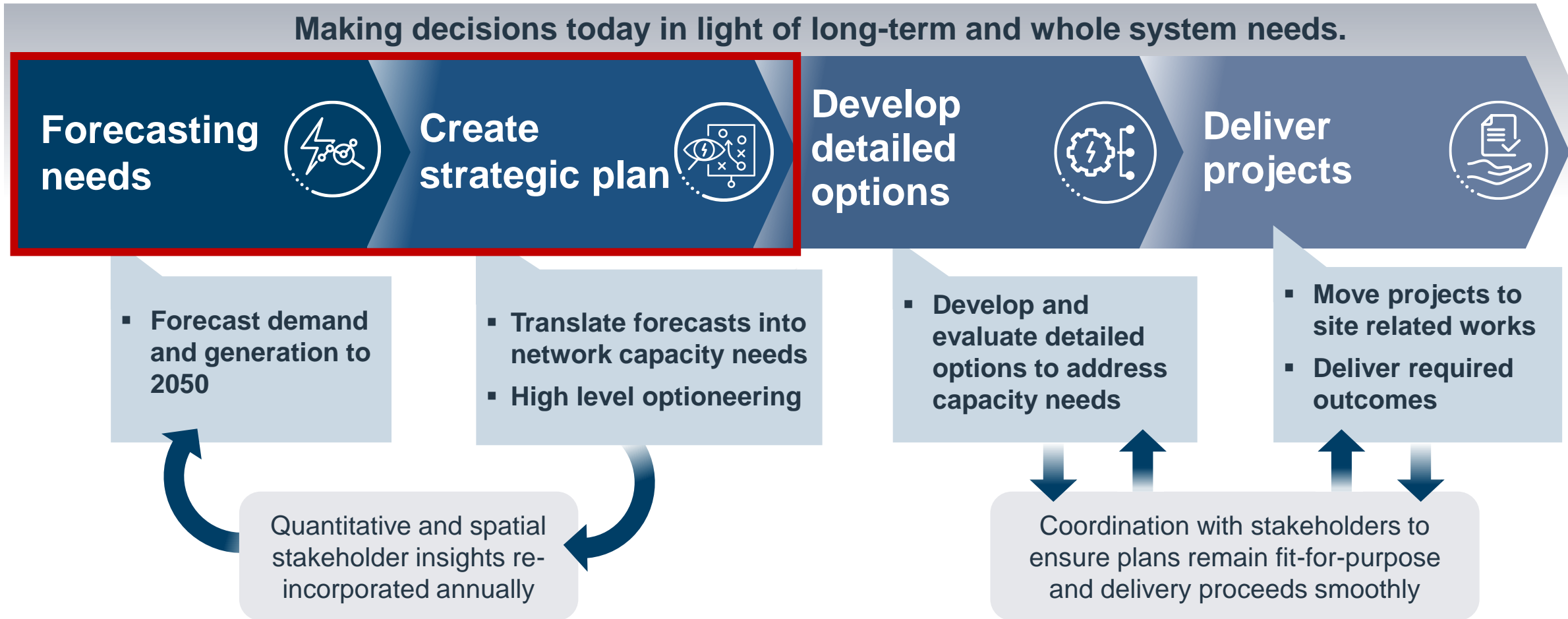
May 2025



Scottish & Southern
Electricity Networks



OUR STRATEGIC PLANNING PROCESS – A VIEW TO 2050





CO-CREATION: SPATIAL AND NETWORK PLANS

Forecasting needs

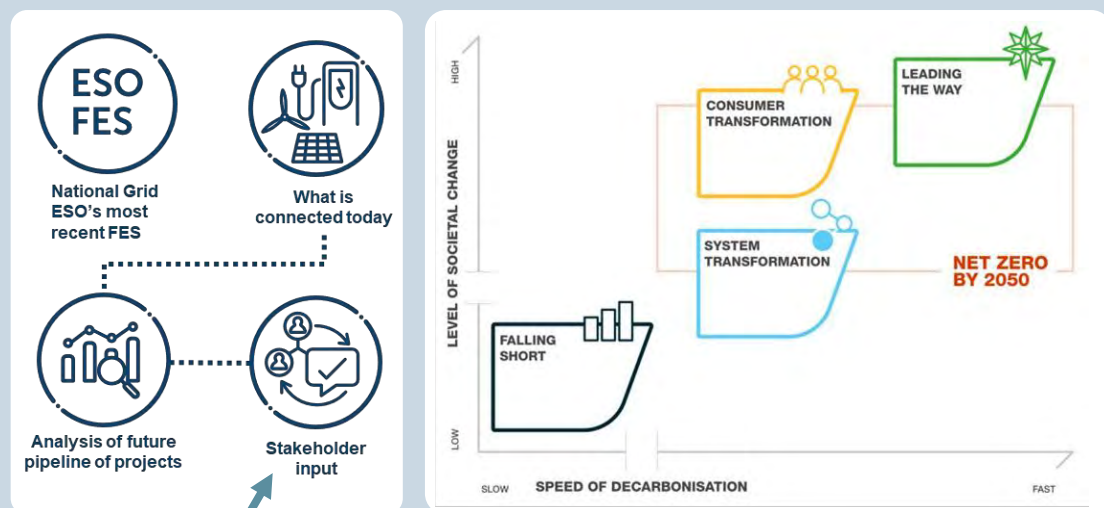
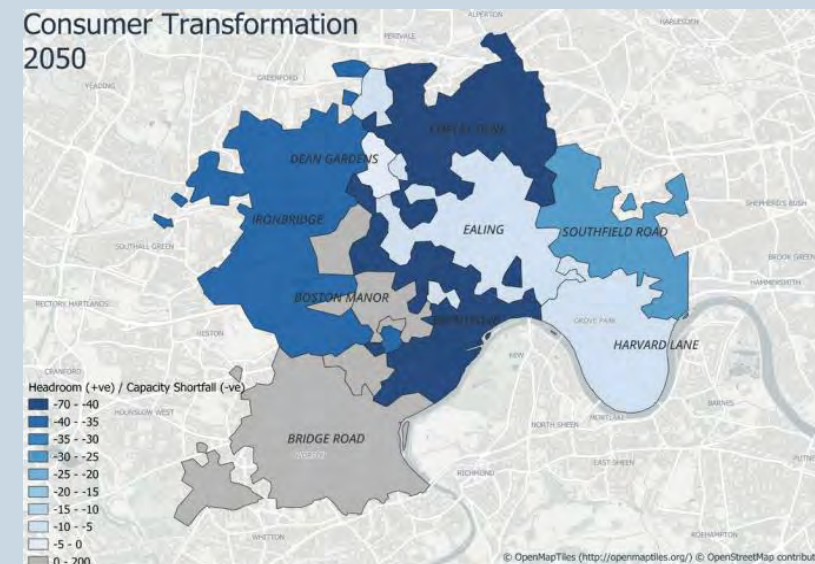


Figure source: National Grid ESO Future Energy Scenarios 2023

LAEPs provide us crucial insight on the timing and scale of net zero ambition, which we use to understand long-term network needs.

Create strategic plan



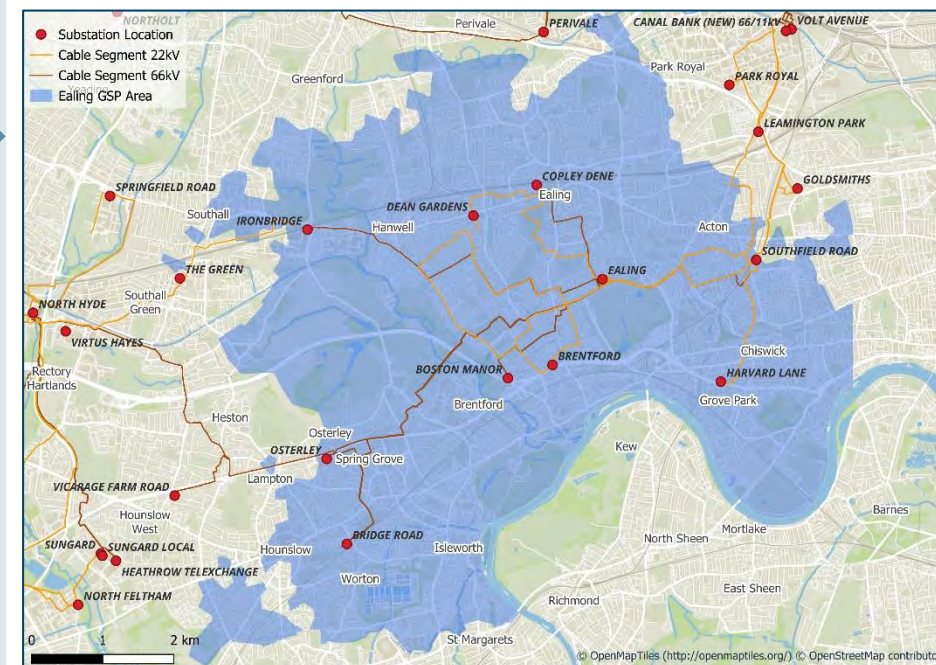
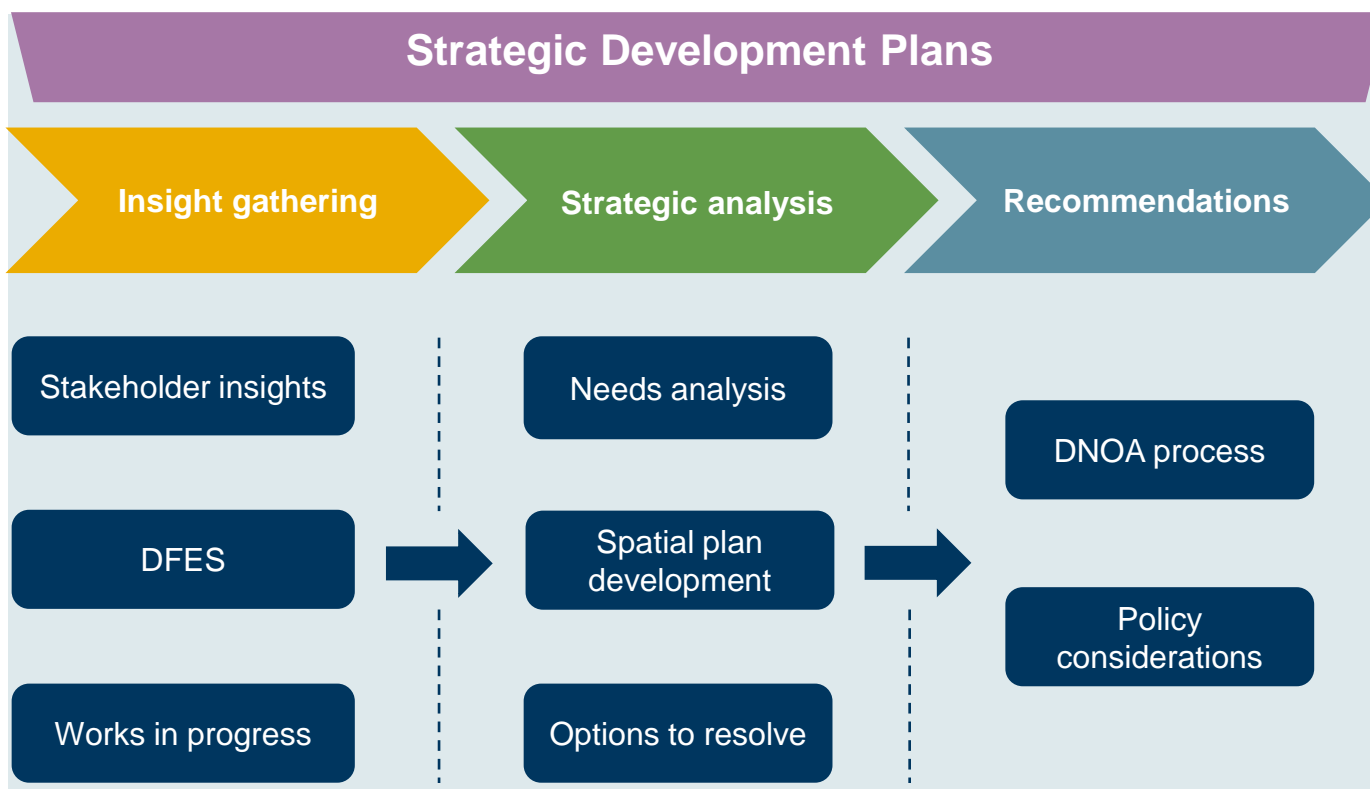
SDPs play back to our stakeholders how their local development translates into network capacity needs.

Consultations and annual updates ensure ongoing coordination with stakeholders and refinement of our plans as circumstances evolve.



STRATEGIC DEVELOPMENT PLANS OVERVIEW

Strategic Development Plans form a key milestone in our strategic development process. They translate insights into our plans, providing blueprints for our detailed development process.



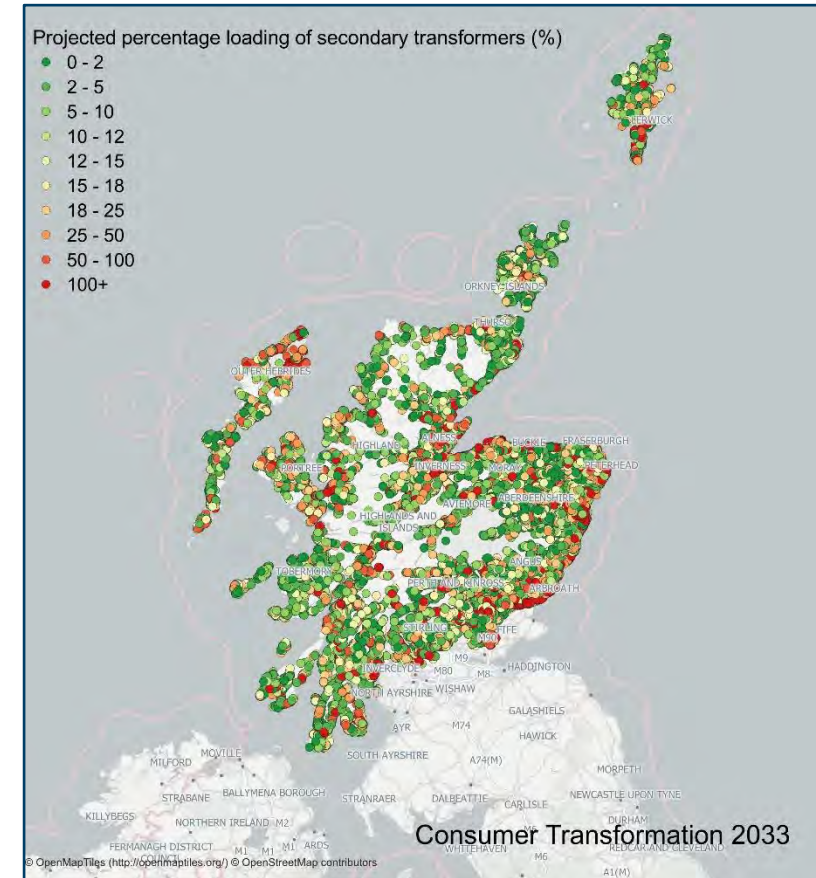
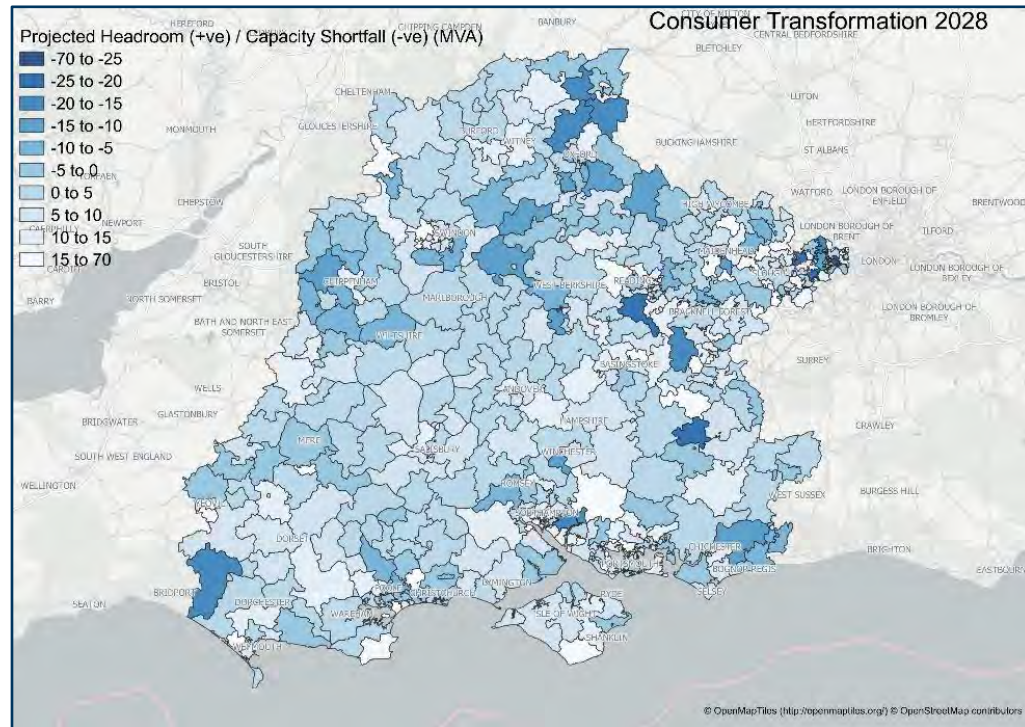


STRATEGIC ANALYSIS – SPATIAL PLANS AND OPTIONS TO RESOLVE

It is important to understand system needs both on an asset-by-asset basis but also how demand and generation may grow spatially across our two licence areas.

This provides the dual benefits of:

- Identifying assets where flexibility or reinforcement is required
- Understanding spatial trends and accounting for this in strategic planning





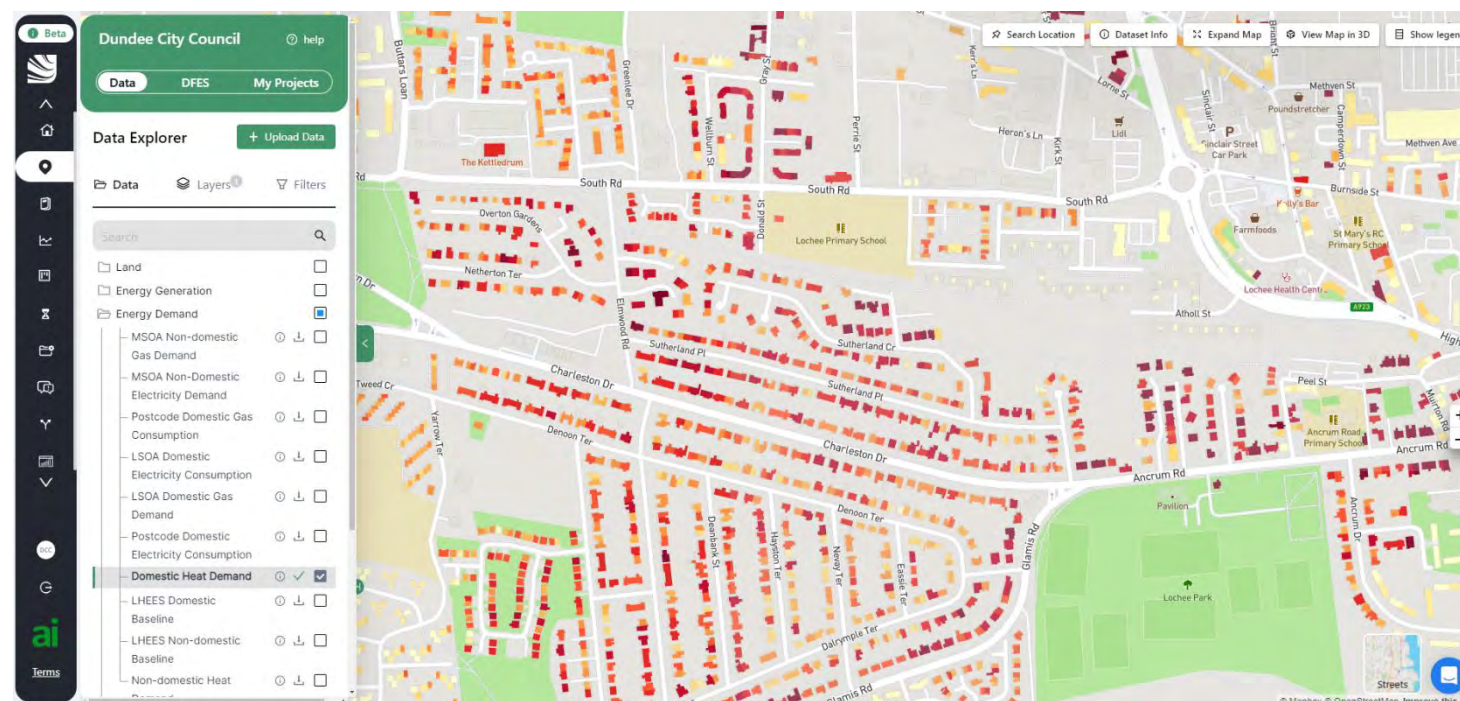
LOCAL ENERGY NET ZERO ACCELERATOR (LENZA)

SSEN
(Distribution)
network data

Renewable
potential data

Building data

Gas network
data



Local Area
Energy
Plans



REGIONAL ENERGY STRATEGIC PLANNING

Public

Regional Energy Strategic Plans (RESP)

Why?

To achieve local and national net zero targets we need:

1. **To accelerate electricity network investment** – enable heat & transport decarbonisation
2. **Consistency** – same approach for all network companies
3. **Whole system** – joined-up plan for all aspects of energy system

Where? (proposed)

Map A1 - Ofgem's preferred GB RESP settlement



Who? (proposed)

Ofgem – defining role

NESO – delivering role

Strategic Boards & Working Groups

Local authorities:

England: CAs, CCs, unitaries
Scotland & Wales: unitaries

Networks: DNOs & GDNs

Other local actors: relevant to energy system & spatial planning





EMPOWERING COMMUNITIES, ENABLING GROWTH

Emerging Thinking for ED3



Scottish & Southern
Electricity Networks

Powering our
community



WHAT IS 'EMPOWERING COMMUNITIES, ENABLING GROWTH'?

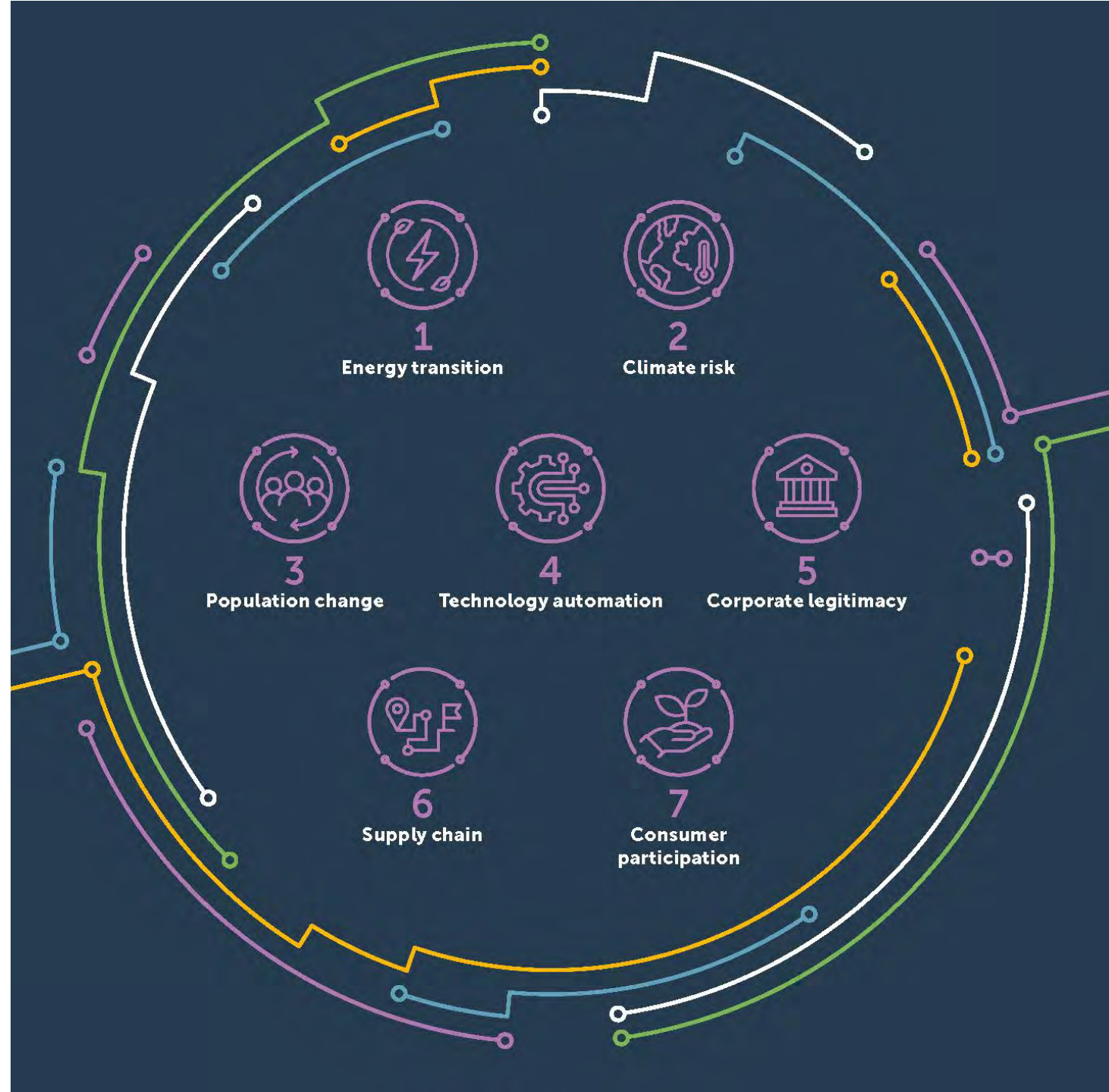
- It **situates our ED3 approach in long-term thinking** about how Distribution facilitates the government's missions for economic growth and net-zero, and long-term disruptive trends like climate change, technological change and growing deliverability challenges.
- It **begins a conversation with our customers**
 - and stakeholders and invites you to engage with us on our plans.





SITUATING ED3 IN THE LONG TERM

- We see ED3 as a **staging post** on the way to 2050
- Our approach is aligned with **Ofgem's Framework Decision** – and the NIC's review of Distribution networks
- We contextualise our ED3 thinking in **seven long term trends** that are already shaping our work, and our customers' experience





SETTING THREE INITIAL PRIORITIES FOR THE ED3 PERIOD

- Initial priorities are closely aligned to the Government's mission for **economic growth**
- These will act as **'golden threads'** for our business plan, drawing everything together





PLANNING AN AFFORDABLE AND FAIR TRANSITION

- We live in the communities we serve – and so have a deep understanding of the challenges our customers face
- That's why we feel so strongly about the **long-term benefits** of the transition to a clean power system
- But **how we decarbonise** is as important as decarbonisation itself





WHAT DO WE NEED FROM THE REGULATORY/ POLICY FRAMEWORK?

Enable proactive investment

- Enabling/ rewarding long-term investment plans and ensuring costs are equitably spread across generations.
- Developing a framework to articulate the wider value investment will generate.
- Reforming the planning and consenting process, which is no longer fit for purpose.

Cost assessment

- Developing cost methodologies that account for macro-economic uncertainty.
- Recognising that historic costs are an increasingly unreliable predictor of current and future costs.
- Real Price Effects and Ongoing Efficiency must reflect the cost of delivering on the ground.

Deliverability and supply chain

- Need greater long-term certainty to build confidence in the supply chain to increase capacity.
- Need to explore dedicated procurement mechanism building on the Transmission Advanced Procurement Mechanism.

Climate resilience

- Developing an agreed standard of climate resilience.
- Ensuring adequate and certain funding so we can plan and deliver cost-effective resilience measures.



THANK YOU

Clothilde.Cantegreil@sse.com

Give us feedback

Share your feedback with us here

<https://bit.ly/ssened3>

or simply scan the QR code



Scottish & Southern
Electricity Networks