

# North of Scotland Future Energy Scenarios

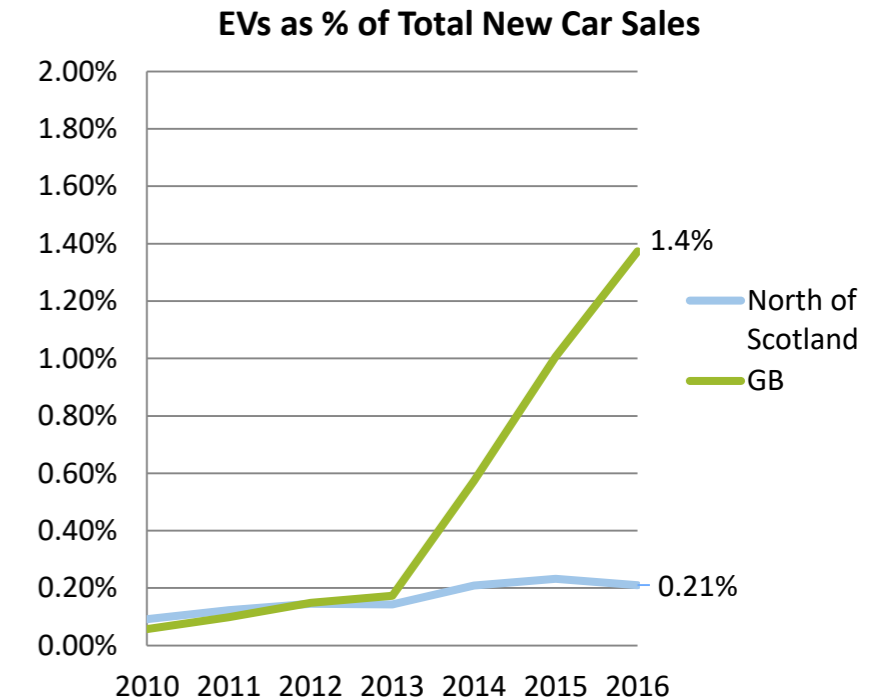
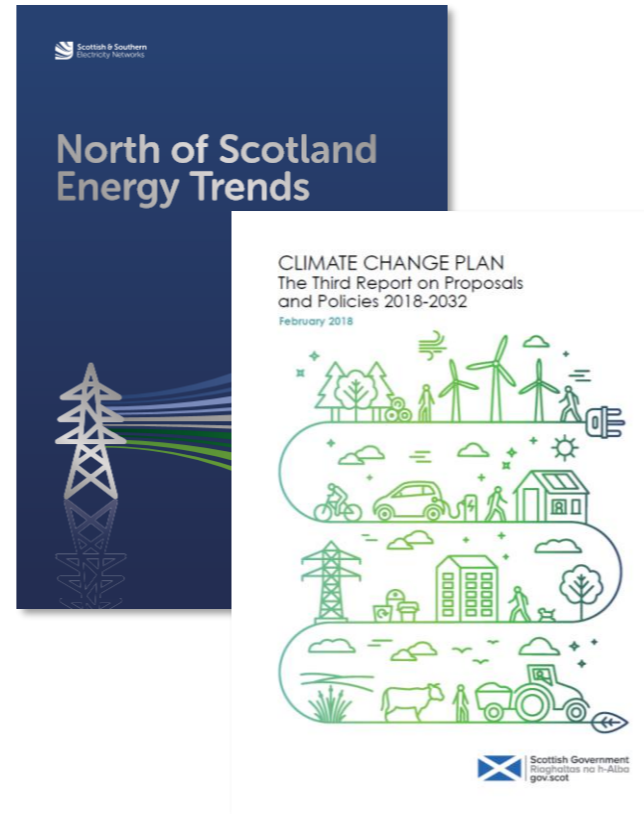
15 August 2018



**Scottish & Southern**  
Electricity Networks

# Why do we need localised scenarios

- At a macro level, the FES is a powerful tool as they capture a range of potential national political, economic, social and technological possibilities
- We have seen developments that have not always matched the prevailing GB trends
- Scottish Government strategy and policy differs from that of the UK Government



# Stakeholder Engagement

## PRINCIPAL CUSTOMERS AND STAKEHOLDER



GOVERNMENT AND LOCAL AUTHORITIES



COMMUNITY ENERGY GROUPS



DEVELOPERS



NETWORK OPERATORS



FUTURE CUSTOMERS



We engaged with  
**Circa 150** customers and stakeholders

## How did we engage with them?



Working papers and blog articles published on website



Via local press articles and energy industry insight reports



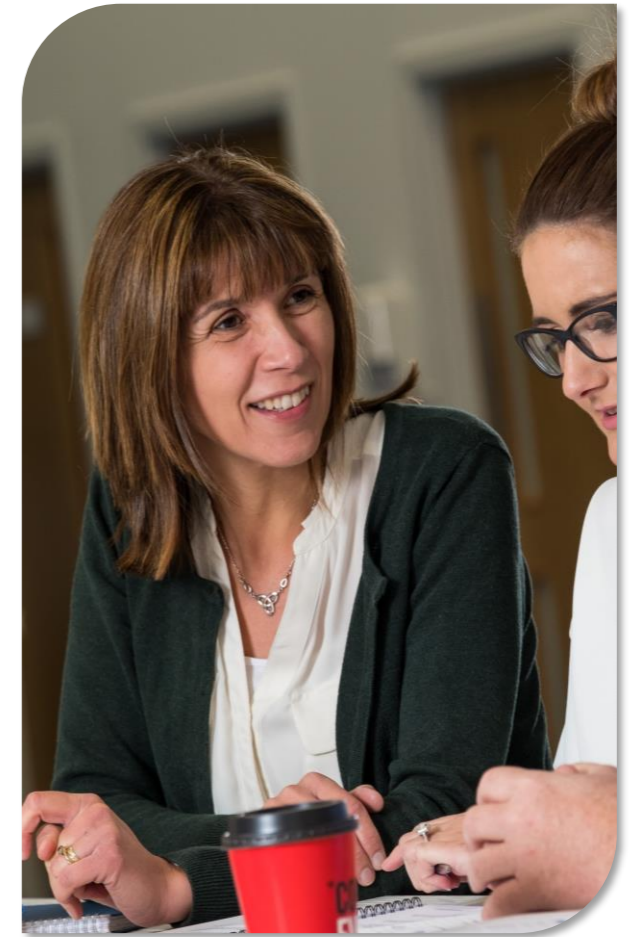
Direct mail



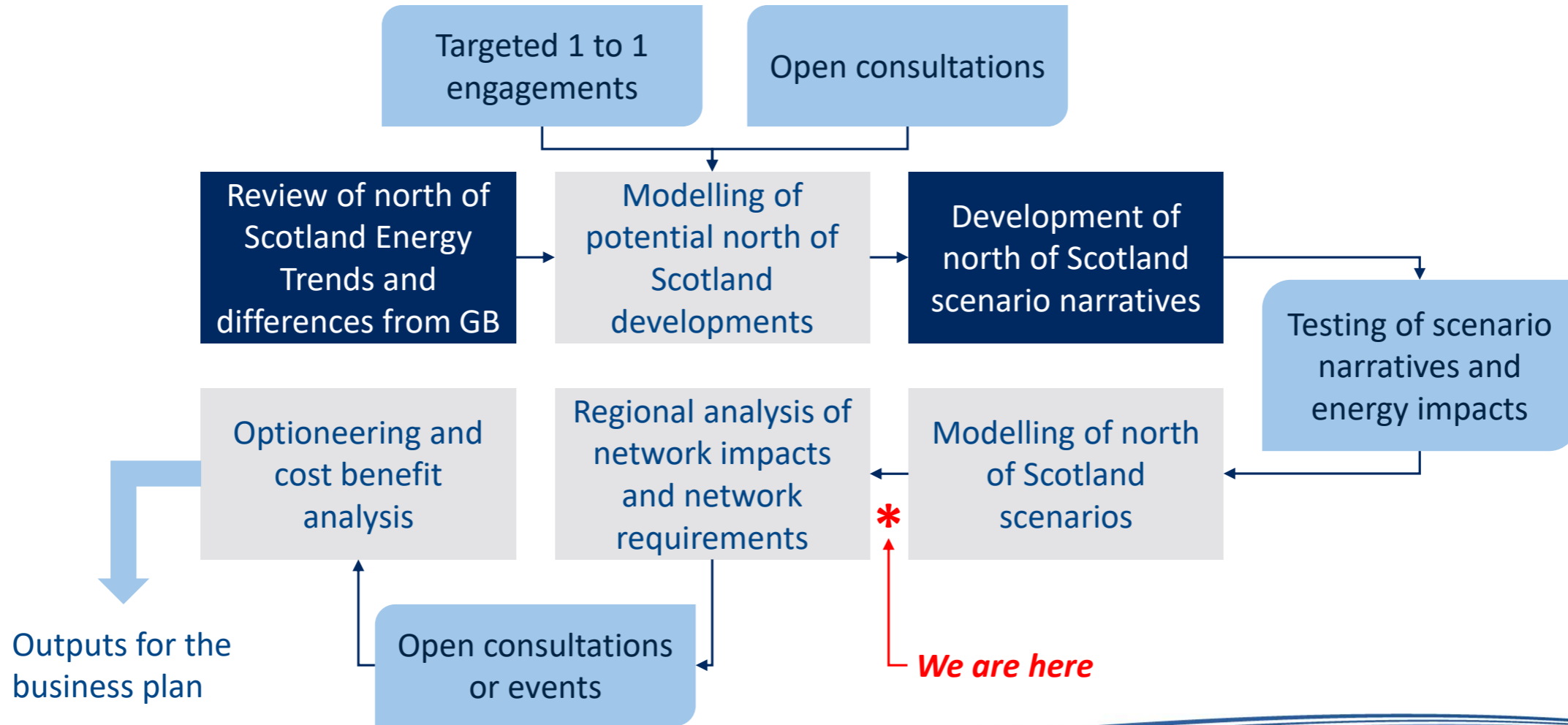
Face-to-face and telephone interviews



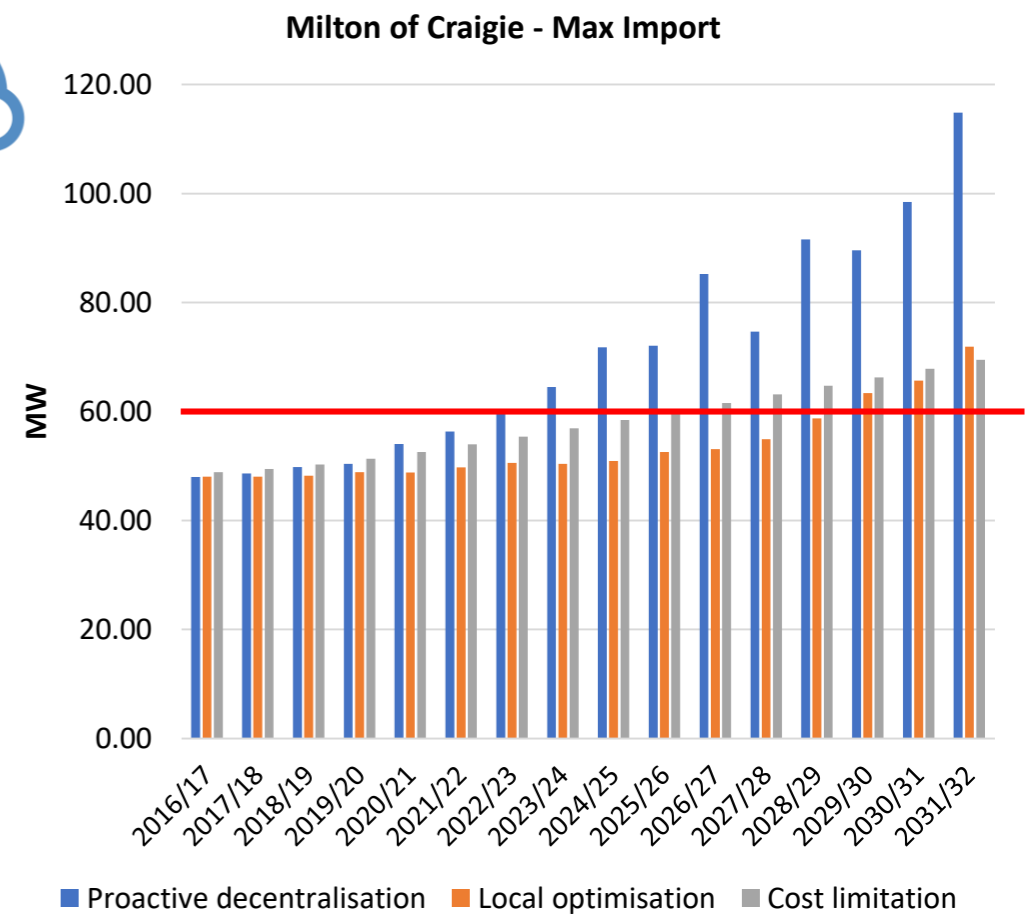
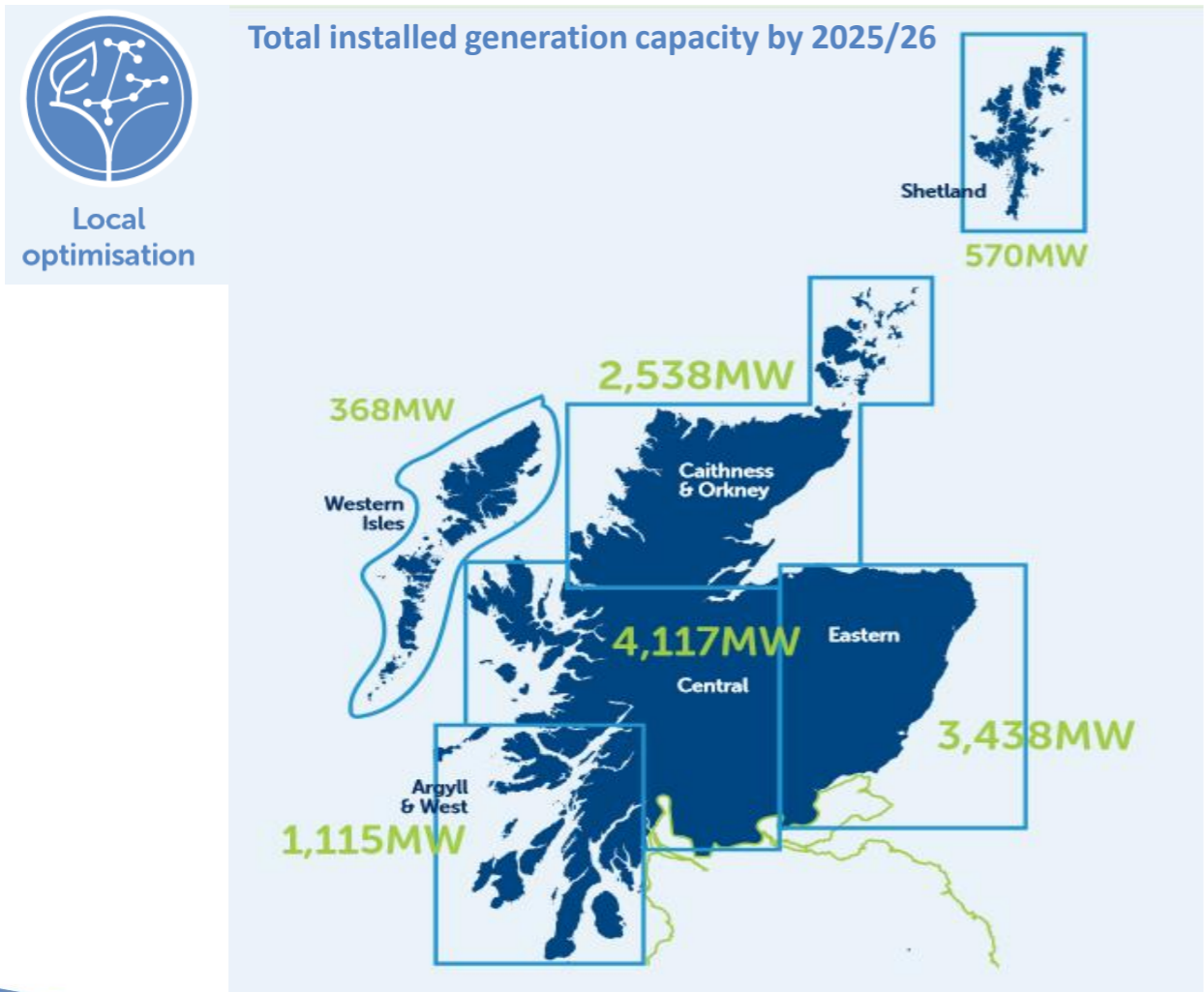
Workshops in Glasgow and Inverness



# Our methodology



# Results



# How we will use our scenarios

- The scenarios will be included in a model of the SHE Transmission network
- The model will be used to analyse the network operation impacts to determine issues such as thermal rating violations, voltage variation limits and reactive and active power control, recognising the influence of increasing generation and demand intermittency inherent in the scenarios
- Identify network reinforcement requirements arising from consideration of the above across the range of scenarios – taking account of multiple drivers; LRE generation, LRE demand, NLRE, system stability etc
- Perform techno-economic analysis of investments that would be required in these scenarios – conventional and unconventional approaches to be considered
- Results will feed in to our RIIO-T2 business plan

# Questions?



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