

Operability Strategy Report 2022 – need to know

300_{MW}

Maximum requirement for Dynamic Regulation & Dynamic Moderation by 2025

96_{GVA.s}

The level that system inertia must remain above for secure zero carbon operation by 2025

1600_{MVAr}

Additional reactive power absorption need by 2025

400%

Some boundaries see peak power flows 400% greater than existing capability by 2030

2026

When the requirements of the Electricity System Restoration Standard (ESRS) need to be implemented by

Frequency

Our new suite of response and reserve services will help control system frequency.

Increasing renewable generation and participation from demand-side can mean more challenging balancing conditions for the ESO.

Stability

Our Stability Pathfinders meet our requirements until 2028. We are working to secure requirements beyond this date.

We need to continue to enable new stability service providers, for example through grid forming, as our existing providers decommission.

Voltage

Generator closures remove our access to 3,600MVAr by 2025.

We are working to find new reactive power providers and enable routes to market.

The reactive power transfer between transmission and distribution is key to efficient operation.

Thermal

Increasing need for network capacity is driven by significant growth in renewable generation and interconnection.

We are mitigating rising constraint costs out to 2030 through our five point plan, NOA, offshore co-ordination and RDPs.

Restoration

We need to enable DER such as solar, wind and hydro to provide a restoration service and remove our dependence on fossil fuel generators.

Our vision is that by the mid 2020s we will be running fully competitive tenders across a range of technologies.