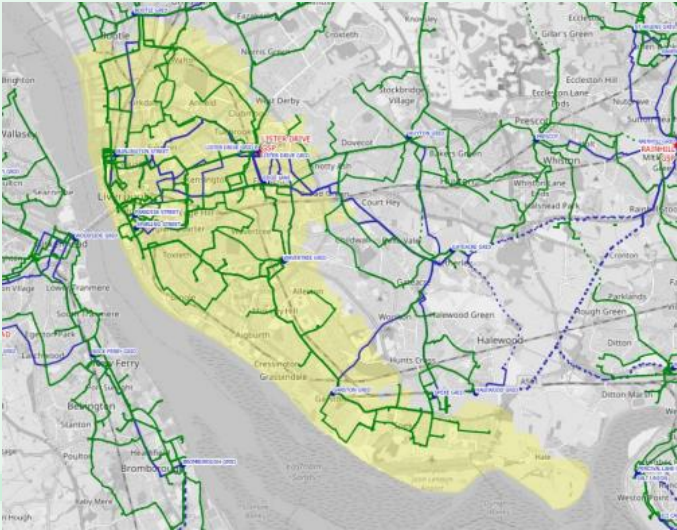


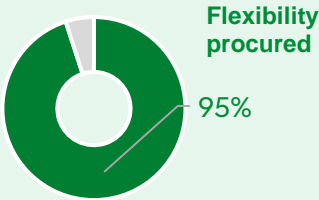
Lister Drive 132kV reinforcement

Reinforce, supported by flexibility



The Lister Drive 132kV network group provides supplies to ca. 165,000 customers including Liverpool city centre as well as the shipping docks and industries along the Mersey river.

Constraint	THERMAL Flows on a 132kV circuit within the Lister Drive group exceeding equipment thermal rating.
Decision	Reinforce, supported by flexibility Install real time thermal monitoring equipment on 132kV circuit to Burlington Street. CMZ based automation scheme to trip Burlington Street – Bootle circuit and close either line or bus section beaker at Bootle. Flexibility to reduce dependence on automation scheme and higher demand turnout.
Justification for decision	Insufficient flexibility to defer reinforcement so works are being progressed. Flexibility will support management of the constraint in the interim.
Flexibility product	SECURE
Constraint season(s)	Winter
Guide price	Availability fee up to £150/MW/hr Utilisation fee up to £185/MWh
Reinforcement timescale	Thermal monitoring: 1-year CMZ automation: 2-years



Flexibility position at March 2024	2023/24	2024/25	2025/26	2026/27	2027/28
Risk duration (hrs)	-	344	382.5	1,080	1,265
Flexibility required (MW)	-	3.1	5.2	6.1	7.8
Flexibility procured (MW)	-	9.6	12.8	4.93	16.5
Flexible MW capacity met (%)	-	>100%	>100%	81%	>100%

Flexibility Tendering

Open

We are tendering for flexibility services at this location.

More information is available on the [PICLO Flex website](#)

Technical Appraisal

More detailed technical information on the nature of the constraint, network impacts, solutions considered and selected intervention are available in this scheme’s [Engineering Justification Paper](#)

To ensure that our plans and publications cover the needs of our stakeholders, customers, and the communities we serve, we welcome ongoing feedback.

Feedback can be emailed to: systemdesignteam@spenergynetworks.co.uk