



Northern Powergrid

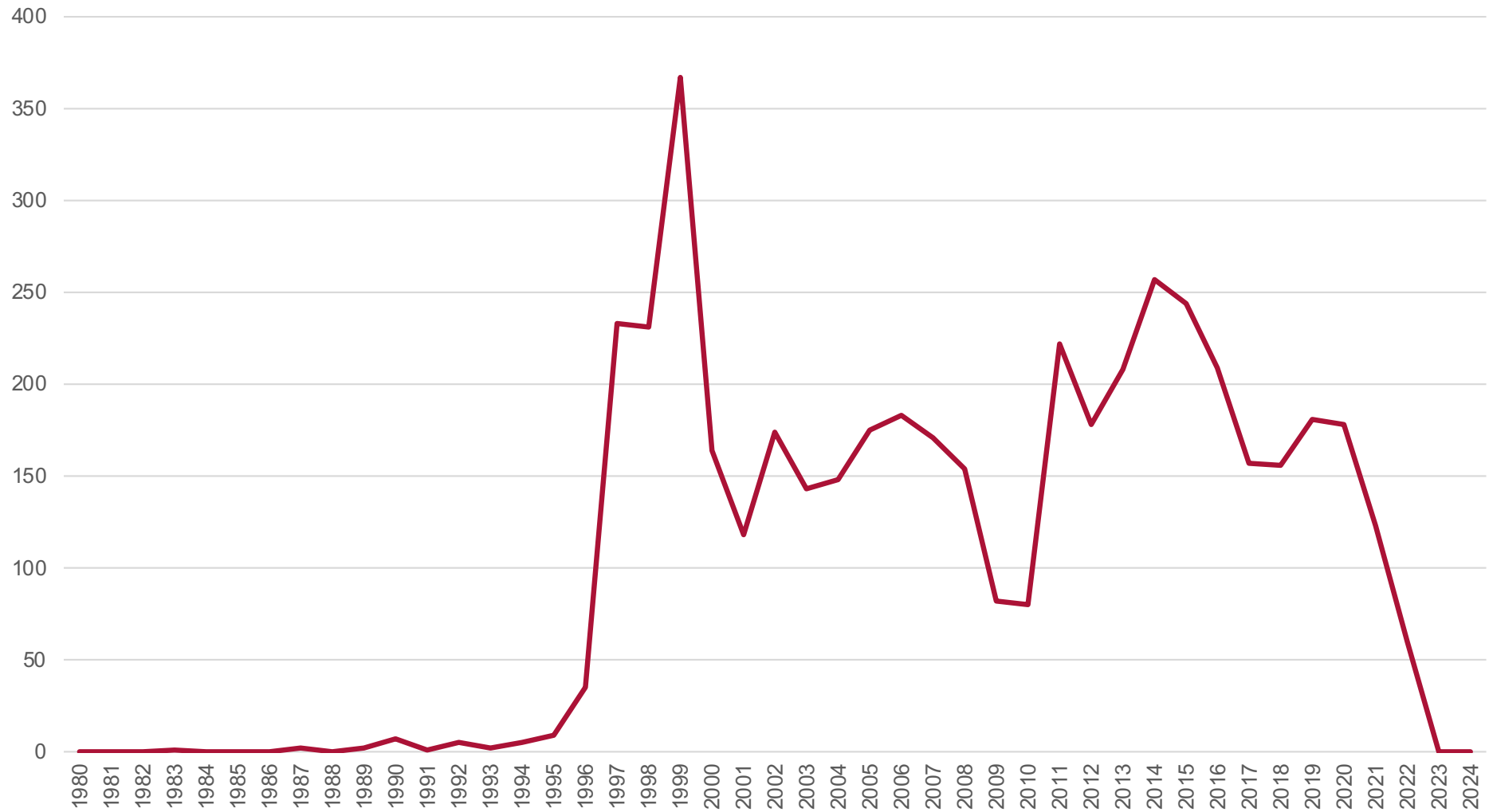
SF6 – Moving to a SF6 free future

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SF6 – Current Position

SF6 Switchgear Age Profile

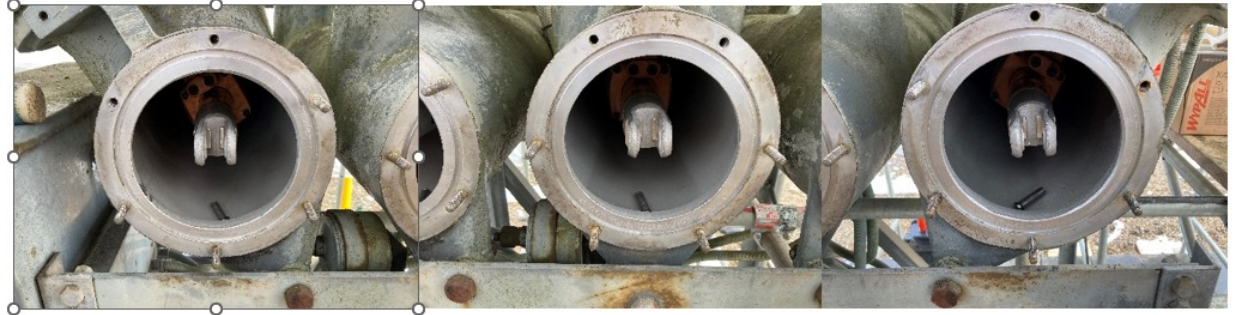


SF6 – Current Position

- Example from a 1990 circuit breaker



CB body before

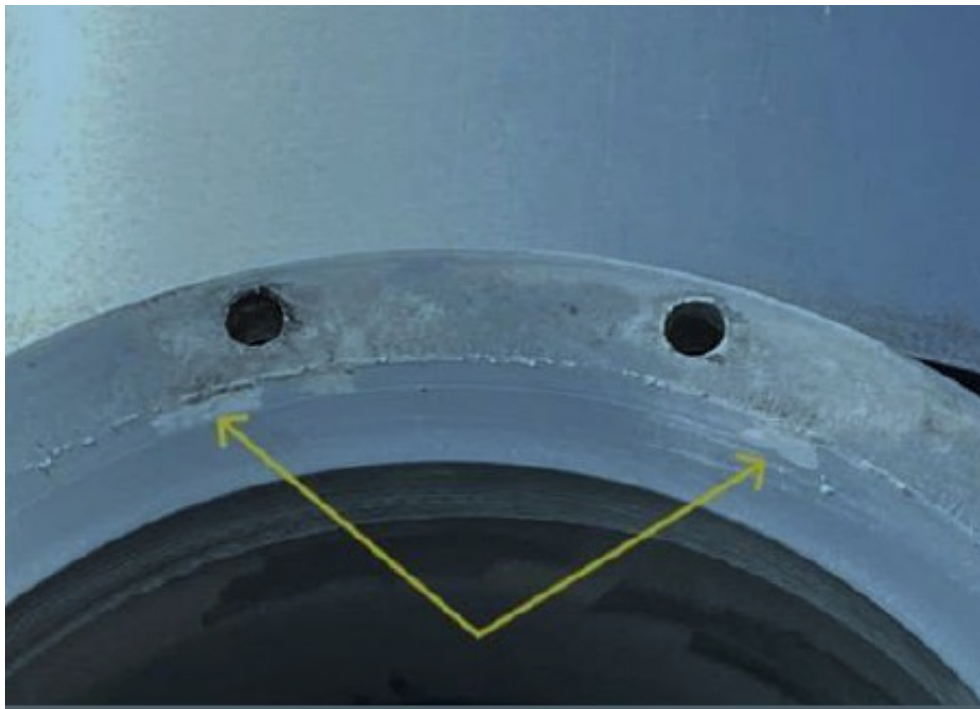


CB body after...



SF6 – Current Position

- Example below from a 2015 unit



SF6 – Current Position

- Still awaiting a decision from the UK government on the future use of SF6
- Widley accepted a ban similar to EU regs will be adopted but we are unsure as to what the timeline will be
- Maintenance on existing plant continues, however, issues in the supply chain are causing a delay in implementing repairs.
- New ways of leak sealing are being investigated and implemented as an alternative to OEM repairs as a result



SF6 – The Future (Short term)

- Looking at the plan of HV plant transition to SF6 free switchgear over the course of this year
- Reducing the stockholding of SF6 containing HV switchgear
- Currently the cost of non-SF6 products exceeds the current Ofgem ED2 unit price.
- Building into ED3 planning the transition to F-Gas free switchgear as the preferred EHV switchgear solution



SF6 – The Future (Long Term)

- Ensure a long term solution is found for maintenance for SF6 containing switchgear
- As EHV items of plant become commercially available commence the change over to the preferred switchgear choice
- BAU for the introduction of SF6 free switchgear onto the HV network



SF6

- Clear information from DESNEZ/EA on what the SF6 regulations are going to look like
- We know these changes are coming but the lack of clarity and timelines make decision making difficult
- When clarity is given plans can be formulated for compliance with the most important factor which is best value for the customer and meeting our environmental commitments.