

## Extended reserve consultation question

### Trustpower

#### Question:

Is there any direction provided to EDB's around the order of parties to disconnect (i.e. hospitals, schools, medically dependent customers) which must be taken into account when determining the blocks? If so can you direct me to it? I just want to check that the risk of disconnecting a feeder with a distributed generator on it is addressed (my working presumption is it will be as it would be counter productive to turn off DG in this type of circumstance).

#### Answer:

The Authority hasn't published any formal direction regarding the composition of AUFLS feeders. Discussion with individual distributors has shown that, where they are aware of distributed generation and essential services on their networks, they aim to avoid disconnecting them when possible.

Consideration has been given to producing guidance as to a prioritisation guide for distributors, much like the guidance in section 6 of Transpower's system operator rolling outage plan guide: <https://www.transpower.co.nz/sites/default/files/bulk-upload/documents/system%20operator%20rolling%20outage%20plan.pdf> . This would likely only be guidance as we expect a firm direction to exclude DG would cause problems for distributors with significant levels of distributed generation in their networks. This would be particularly problematic for networks with domestic solar PV that could be installed across several residential feeders, thus limiting their ability to select suitable feeders for AUFLS provision.

The draft AUFLS technical requirements document states Transpower's treatment of DG when calculating a distributor's AUFLS obligation. Any embedded generation is added to the total measured load when calculating the distributor's total network load, but must be netted off the measured load if it's connected to a feeder armed for AUFLS provision. This incentivises distributors to not include a feeder with DG as the impact of doing so is reflected in the reduced provision calculation for their AUFLS obligation.