

Dear Generation Owner Stakeholder

Loss of Mains (LoM) Protection Settings for all Small Generators

We are writing to you on behalf of National Grid Electricity System Operator (NGESO) and the Distribution Network Operators (DNOs) to invite you to public briefing session in London on 4th April and in Glasgow on 5th April 2019. The purpose of this briefing session is to inform generation owners about how changes to LoM protection will affect them, and to provide information on how these changes will be implemented, including the funding available for making these changes.

Under the auspices of the Distribution Code Review Panel, National Grid Electricity System Operator and the Distribution Network Operators (DNOs) have been working with stakeholders to determine how the loss of mains (LoM) protection fitted to all small generators connected to the distribution system needs to be updated. The drivers for these changes include the growth of interconnector capacity, the replacement of traditional large steam turbine driven synchronous alternators connected to the transmission system with smaller solar and wind generation predominantly connected to the distribution system. This in turns leads to a general decline in system inertia, volatility of system frequency and the inadvertent tripping of vector shift relays due to secured events on the transmission system – all of which are recognized in the recommendations for new LoM settings. r.

This work has been undertaken by the DC0079 Distribution Code Review Panel working group (and before that the GC0035 working group), which has implemented changes to date that have affected all generation in the size range 5MW to 50MW, and laid down requirements for all new generation connecting to the distribution system.

DC0079 has now completed its work and has recommended to Ofgem that the settings which are required for new generation are now also applied retrospectively to all existing generation (including those in the 5-50MW range that use vector shift relays as their method of LoM protection), with the exception of small type-tested generation below 50kW registered capacity. This will result in a modification to the Distribution Code requiring all qualifying generators to be compliant with the new settings by May 2022.

Clearly this recommendation will have significant effect on many existing owners of generation in that to remain compliant with their connection agreement and the Distribution Code they will be compelled to make changes to their LoM protection within a relatively short timescale.

To help stakeholders understand the background and the implications, how it might affect them, the assistance and funding available, the briefing session will cover the following areas:

- Background
 - what is LoM, what is it for etc.
 - Changes already made
 - Changes still required
- Effect on existing generation owners
- The Payment Programme
 - Application
 - Assessment criteria
 - Acceptance
 - Implementation
 - Verification
 - Payment

- Question and Answer session

Space is limited and seats will be allocated on a first come basis. For security and catering reasons only pre-booked attendance will be allowed.

If you would like to attend, please register for following events through EventBrite.

[Stakeholder event in London on 4th April](#)

[Stakeholder event in Glasgow on 5th April](#)

Alternatively, you can register for one of the following webinars:

[Online Webinar at 13:00-15:00 on 8th April](#)

[Online Webinar at 13:00-15:00 on 17th April](#)

[Online Webinar at 13:00-15:00 on 29th April](#)