

Accelerated LoM Change Programme

Reporting and Progress Tracking – DCRP_19_05_04

Author: Graham Stein
Purpose Loss of Mains Programme Performance
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Context

Network Licensees are running the Accelerated Loss of Mains (LoM) Change Programme to accelerate compliance with the new Distribution Code requirements applicable to LoM protection at distributed generation sites connected before February 2018.

Due to the significant scope, cost and benefits of the programme, and to ensure success and transparency, it is necessary to define appropriate success criteria and adequate performance indices to report to the Distribution Code Review Panel and the wider industry. This paper summarises proposed performance indices.

Summary

- The Accelerated LoM Change Programme is a project that affects a significant number of sites, have a large cost and will potentially deliver a saving of £150m/annum.
- The programme will continue to run until the cost of delivering further savings exceeds these savings.
- We intend to monitor and publish sufficient performance indices to endure success and transparency. These indices will cover the number of sites, total MW capacity, and costs.

Background

The Accelerated LoM Change Programme will target approximately 50,000 distributed generation sites with a view to accelerate their compliance with Engineering Recommendation G59 (Issue 3, Amendment 7). Its overall cost will be several tens of millions. The benefit it will deliver will be in the range of £150m/annum. The maximum number of sites affected is shown in the table below broken down by capacity range.

Capacity range	Maximum No. of sites	Total capacity (GW)	Source
5MW to 49.99MW	1,400	18.4	W24
1MW to 4.99MW	1,700	4.3	W24
500kW to 999.99KW	450	0.4	FiT register
250kW to 499.99KW	350	0.25	FiT register
0kW to 249.99kW	46,100	1.8	FiT register

The programme is funded through Balancing Services Use of System (BSUoS) Charge and the completion of the works required to achieve compliance will be procured as a Balancing Service. Hence, the programme will have to

include sufficient level of monitoring and reporting to ensure transparency and compliance with the overarching requirements in Standard Licence Condition C16 of NGENSO's Transmission License.

The programme will run in windows with each window being a three-month period. This will create a periodic reporting and decision making cycles that allows Network Licensees to reflect on progress, identify issues and resolve them, change the approach as necessary, and close the programme once it is efficient to do so.

Key Performance Indices

To monitor engagement, prioritisation, and delivery we will set out targets, use information available to estimate projections, and monitor the actual delivery each of the following:

1. No of applications received in each window
2. No of applications accepted in each window
3. No of sites implementing the change
4. Success rate as informed by delivery assurance activates.
5. Average and total capacity of sites accepted
6. Average and total capacity of sites implemented

Value Delivery Indices

The programme aims to deliver value to consumers through reducing the risk of inadvertent tripping of distributed generation. This will improve the security of supply and reduce the cost of delivering this level of security. Therefore, to monitor progress on value delivery we intend to publish

1. Total capacity generation capacity at VS risk per DNO; and
2. Total capacity at RoCoF risk in GB.

Costs

To allow BSUoS payers to assess the implications of the programme on their BSUoS Charge, we will provide regular updates on

1. Budget
2. Cost projections, and
3. Actual project cost.

Programme Success Criteria

The programme will run until it ceases to deliver further value. This break point will take place once the cost of delivering further change exceeds the benefit achieved by this change.

Milestones

To facilitate monitoring, prioritisation, and reporting, we will define appropriate capacity ranges. For each of these ranges, we will communicate to the industry the achievement of the following milestones:

1. Completion of 50% of the sites within each capacity range,
2. Elimination of any VS risk (both nationally and within each capacity range), and
3. Elimination of any RoCoF risk (both nationally and within each capacity range).

In addition, will communicate to the industry the achievement of the following milestones:

1. First time to manage RoCoF via frequency response,
2. RoCoF managed by frequency response for 50% of the time the constraint is active,
3. RoCoF managed by frequency response for 100% of the time the constraint is active, and
4. Programme success criteria met.