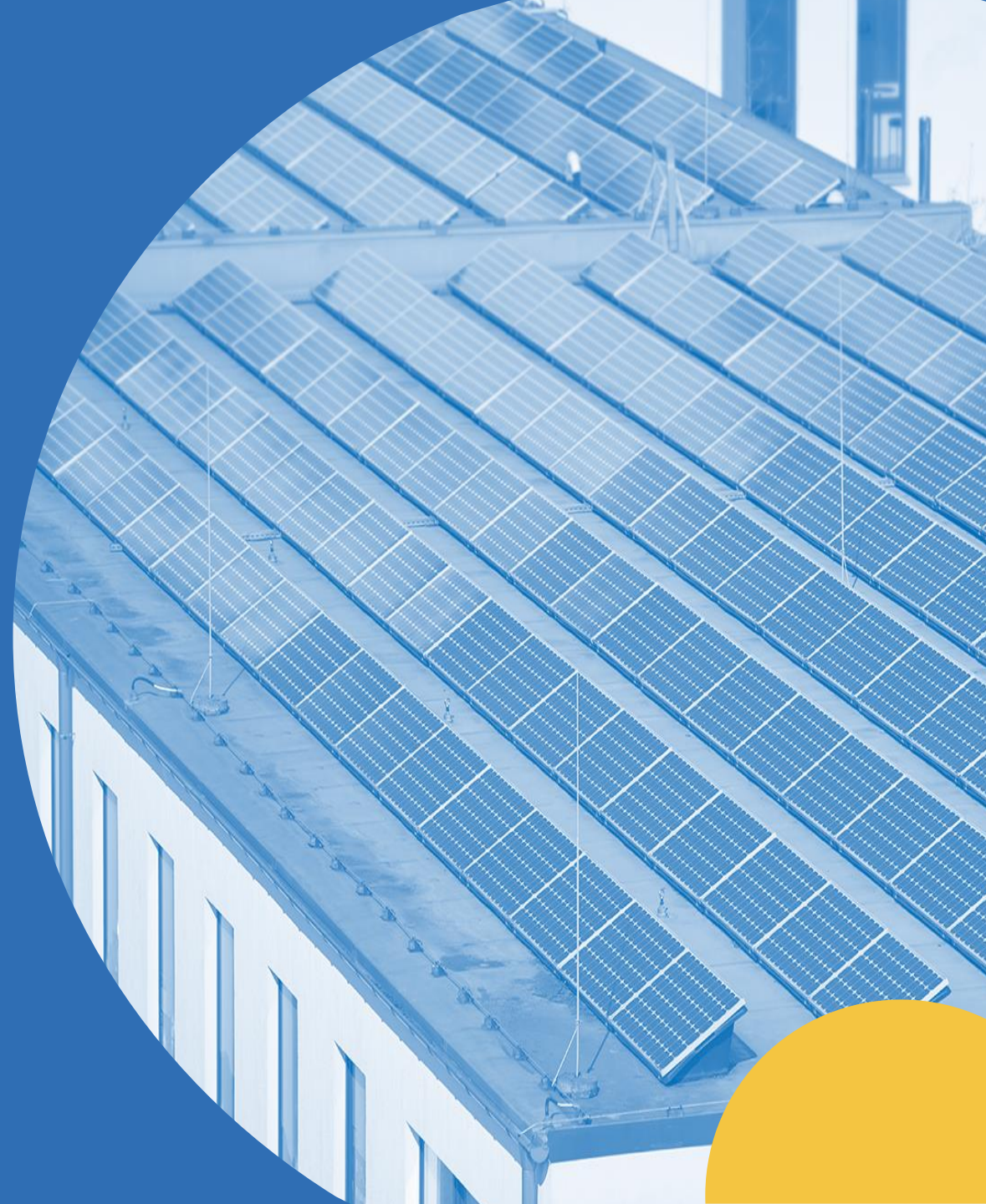


Are your generators compliant?

Mandatory upgrades for electricity generators and financial support

February 2022



1. What are the new requirements and why are they important?
2. Accelerated Loss of Mains Change Programme
3. Enforcement measures for non-compliance
4. Q&A in breakout rooms
5. What to do next
6. Closing remarks



What is Loss of Mains?

The mandatory upgrades that electricity generator owners may need to make impact the **Loss of Mains protection settings.**

Loss of Mains' occurs when part of the electricity network loses connection with the rest of the system. Generation protection equipment should detect the Loss of Mains and disconnect a generator during a fault.

Risk of remaining connected

- Distribution network could be live, with staff working on it.
- Potential risk of damage to generation.

Do the changes apply to me?

Electricity generators that meet the following criteria must be compliant with the new regulations by **01 September 2022**.



Generator is applicable to the G59 Distribution Code.



Generator was installed before February 2018.*



Generator capacity is between typically 11kW (3.68kW at single phase) and 50MW.

If your generator is already compliant then we ask that you please declare this as soon as possible.

What are the wider benefits?

Widespread compliance with the changes will benefit the network by:

- Delivering a stronger and more resilient power supply.
- Reducing severity of incidents like August 2019.
- Reducing balancing costs – ultimately saving consumers and bill payers money.
- Enabling more renewable generation to come online – a more resilient network can better support intermittent generation.
- Supporting the UK's decarbonisation goal.

What is the ALoMCP?

The Accelerated Loss of Mains Change Programme is designed to incentivise owners of electricity generators to become compliant with mandatory system updates.

It enables generator owners or operators to apply for funding to help contribute to the cost of the upgrades.

How does the ALoMCP work?

The ALoMCP provides two levels of funding to generators who meet the criteria:

1

If a protection device settings change is required, you will receive £1,500 for the first change, and an additional £500 per protection device up to a maximum of five devices.

2

If the protection relays require a full replacement, you can receive £4,000 towards replacing each relay.

But time to apply is running out, and funding will taper throughout 2022.

The last funding window will close on 10 May 2022.

What are the benefits for you?

By complying, you will benefit by:



Future-proofing your power and making it more resilient.



Ensuring more reliable equipment and more consistent generation.



Avoid interruptions to earning revenue from your assets

Timescales

The final two funding windows are:

| | Opening Day | Closing Day |
|-----------|-------------|-------------|
| Window 10 | 10.11.2021 | 08.02.2022 |
| Window 11 | 09.02.2022 | 10.05.2022 |

Tapered Payments

Sites completing the changes after **24 March 2022** but on or before **23 June 2022** will be paid **80%** of the funding amount.

Sites completing the changes after **23 June 2022** but on or before **31 August 2022** will be paid **70%** of the funding amount.

Deadlines

ALoMCP funding deadline: 10 May 2022

Generators must be complaint by: 1 September 2022

How do you apply for funding?

LoM Accelerated
Loss of Mains
Change Programme
ena nationalgridESO

Home

Guest Assistance Contact Us

ena
energy networks
association

Log In

Register

Welcome to the ENA's Accelerated Loss of Mains Change Programme (ALoMCP)

As part of the UK's energy transition, all owners of generating sites in Great Britain are required to ensure that their installations are compliant with Engineering Recommendation G59/3-7. Making these changes through the programme will help National Grid ESO operate the electricity network more efficiently, reduce balancing costs and therefore provide savings to electricity customers.

If your equipment is already compliant, please confirm by submitting a declaration; if not, please apply for funding to help you make the changes by the deadline of 1 September 2022.

Submit a compliance declaration

Apply for funding

Submit without Registering * Register and Submit

Apply

* Compliance declarations can be submitted without registering first, however registration is recommended because it allows access to view and amend declarations previously submitted and is particularly advisable for anyone intending to submit more than one declaration as it will reduce data entry. You must register before applying for funding.

Registered generation owners or agents making funding applications on their behalf can login [here](#). Unregistered owners or agents can register [here](#).

This section of the site is oriented towards submitting declarations of compliance to the latest version of Engineering Recommendation G59 for installations that are, or may be, already compliant. Please click [here](#) to switch to the area of the site geared towards submitting an application for funding to make the necessary changes to achieve compliance.

If you are intending to declare multiple sites, and particularly if acting as an agent for multiple owners, please read the guidance [here](#).

If you experience any problems or issues with the declaration or application process or have any comments or suggestions for improvements, please let us know via our [feedback page](#). We aim to respond to any feedback within 24 hours.

Checking equipment: Inverters

All Solar PV installations and some sites with other forms of generation will have Inverters present, the inverter(s) is usually either close to where the wiring for the solar panels comes down or into the building, or it's sometimes close to the main electrical switchgear in the premises.

If you can identify the manufacturer and the model of your Inverter(s) you can refer to the Programme's knowledge base to see if it's compliant or not.

<https://www.ena-eng.org/ALoMCP/mankb>

If your inverter is not listed, and you can get no help from the manufacturer, installer or appropriate contractor, please discuss with your DNO.



Checking equipment: Relays

Protection relays are most likely to be either built in, or close to, the generation control equipment, or close to your main switchgear. It could be mounted on the front of a panel, or it could be inside a control panel.

Relays are typically programmed at the time of commissioning, so to determine the settings you may need to refer to any paperwork provided at the time of installation (or the firm that installed the relay if known/available) or arrange for the settings to be checked by a competent person.

Visit Loss Of Mains (www.futureproofyourpower.co.uk)

Google Search 'ALoMCP'



What if I am not compliant?

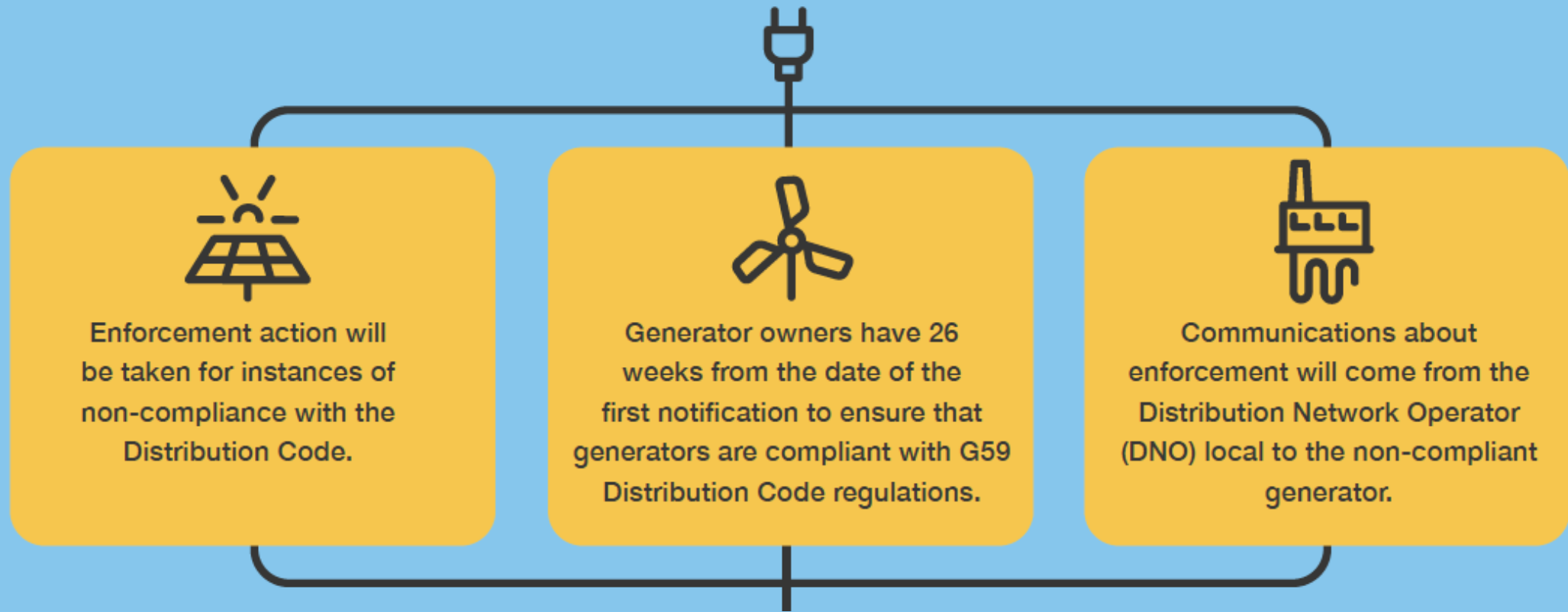
Compliance with the Loss of Mains regulations is **not optional**.

The changes are **mandatory**, and right now there is funding available to incentivise compliance.

Generators that are not compliant after the deadline will not be tolerated due to the inherent risk that they pose to Great Britain's power supply and communities.

Those not compliant from **01 September** will be subject to an **enforcement process** that could result in the de-energisation of your site.

Enforcement process for non-compliance with the Distribution Code



Escalating warnings and enforcement action



WEEK 0 **first notice**

Written notification sets out to generator owner the non-compliance or unknown status of their generator site and sets out the actions to address non-compliance.



WEEK 4 **second notice**

Written notification sets out whether a response has been received to the first notice. If no response is provided then a physical, durable copy of the notification will be attached at, or as close to, the generator site as possible. The notification will repeat the actions to address non-compliance.



WEEK 8 **third notice**

Repetition of second notice: written notification sets out whether an appropriate response to non-compliance has been provided. If no response is provided, another physical copy of notification attached at, or close to, the generator site.



WEEK 16 **fourth notice**

Repetition of second notice.



WEEK 22 **final notice**

Repetition of second notice.



WEEK 26 **de-energisation**

If no evidence of compliance provided or evidence is not sufficient to demonstrate compliance with the Distribution Code, the DNO will make arrangements to de-energise the generation site's Connection Point in accordance with Distribution Code DGC12.

IDENTIFY SITES WITH GENERATION EQUIPMENT IN SCOPE OF G59

CHECK EQUIPMENT AND SETTINGS

Check which 'Loss of Mains' (LoM) protection settings you are currently using...

...Then either

CONFIRM COMPLIANCE

Or

APPLY TO THE ALOMCP FOR FUNDING TO MAKE CHANGES...

...via the ENA ALoMCP online portal

What to do next

If your generators are already compliant **you must** declare this.

You can do so via the ENA portal

Resources

If you own or operate an electricity generator that you think might be impacted by this then please act now to become compliant.

You can visit www.futureproofyourpower.co.uk to find out more.

The website has a free-to-use tool that helps you:

- Discover your next steps.
- Apply for funding.
- Find out how to declare compliance.

You can access the ENA portal to begin or resume an application here:

<https://www.ena-eng.org/ALoMCP/>