



Western Power Distribution - DG Owner Operator Forum

28 January 2021



Future Forum Meeting Dates



TBC (webinar)

If you or a colleague would like to join the forum then please contact Olly at Regen on: ofrankland@regen.co.uk for further details.

Attendance is free of charge and limited to MW scale owner/operators of DG assets.

Distributed Generation Owner Operator Forum

We hold a regular forum aimed at owners and operators of MW scale renewables connected to WPD's network. Working in partnership with Regen, these meetings provide an opportunity for DG owners and operators to engage with us, contribute towards improved processes and tackle arising issues.

Previous areas of discussion have included:

- WPD work to address grid constraints;
- Improving communication with generators on outages and constraints; and
- Potential approaches for forecasting and mitigating outages.

Meeting notes & slides from previous events

2020



27 October presentation slides

PDF / 2 MiB



27 October notes

PDF / 239 KiB



12 August presentation slides

PDF / 2 MiB

<https://yourpowerfuture.westernpower.co.uk/our-engagement-groups/connection-customer-engagement/distributed-generation-owner-operator-forum>



[Click here for our Post Energisation Document](#)

This leaflet has been designed to try to offer you a synoptic review of some areas you may wish to investigate further with us and that may pop into your mind once you have a connection to your site.

Remember, we are here to help you generate onto our network, so please take a moment to familiarise yourself with the document's contents, and for those of you who are familiar with WPD, hopefully it will be a handy aid memoir on who to contact within our organisation.

Log in

You are being granted access to Western Power Distribution's Generation Portal. You understand that your access to this website is subject to the website's [Terms of Use and Privacy Policy](#).

User name:
Please enter a user name

Password:



WPD Post-energisation Guide

WPD operate a Distributed Generation Online Portal where users can view upcoming outages/export constraints and access general background information for each generator site.

This information is focussed, at the moment, on generator connections at 33kV, 66kV and 132kV. Please visit generation.westernpower.co.uk to access the portal. To sign up to the portal, or if any contact details (and gate access codes etc.) have changed for a generator site within our area please contact; wpdswestwalesgen@westernpower.co.uk.

Please ensure WPD have up to date contact details for your generation site.

Timescales for Planned Outages

WPD receive notification from National Grid of Year Ahead (April through until end of March) planned outages on the England & Wales Transmission System at the end of Week 49 every year. WPD then begin planning the Year Ahead work on our Distribution System. All outages (including National Grid outages) are entered into WPDs Outage Management System (OMS). Any outages affecting generator sites will be marked as

Export Constraints/ Interruption to Supply

For certain system planned outages WPD might apply a full or partial export constraint to a generation site. In some cases, the generation connection may be within the isolated section where WPD wishes to undertake work.

In such cases, the generator site will be temporarily disconnected from the system, resulting in no import or export being achievable.

Outage Notification

DG customers can access any upcoming planned outages via the Generation Portal. A Four Week Report is also sent out by our Control Centre every Friday. This report details any export constraints/ interruptions to supply that a DG customer can expect at their generation site within the next four weeks.

The above notifications are indicative only, with the final notice being given via a

Go to www.menti.com and use the code 20 96 84 6

Engagement and feedback via:

- Zoom (chat and raise hand/turn on video)
- Mentimeter (phone or separate tab)

Where are you?



What is the connected distributed generation capacity in the Western Power Distribution licence areas?



Press ENTER to show correct

Webinar agenda

Chair: Olly Frankland, project manager, Regen

14.00 **Introduction, action review and objective setting from the chair and WPD**

14.15 **Improving industry and WPD communications to address outages/constraints**

- Update on the impact of COVID-19 on outages and communication
- Forum member feedback on communication
- Report back from single point of contact
- Latest information regarding the outage portal
- Update on WPD work to merge and minimise length of planned outages
- Update on WPD KPI's
- Overview of upcoming planned outage plans

15.00 **Break**

15.10 **Accelerated Loss of Mains Change Programme update**

Peter Aston, primary system design manager, Western Power Distribution

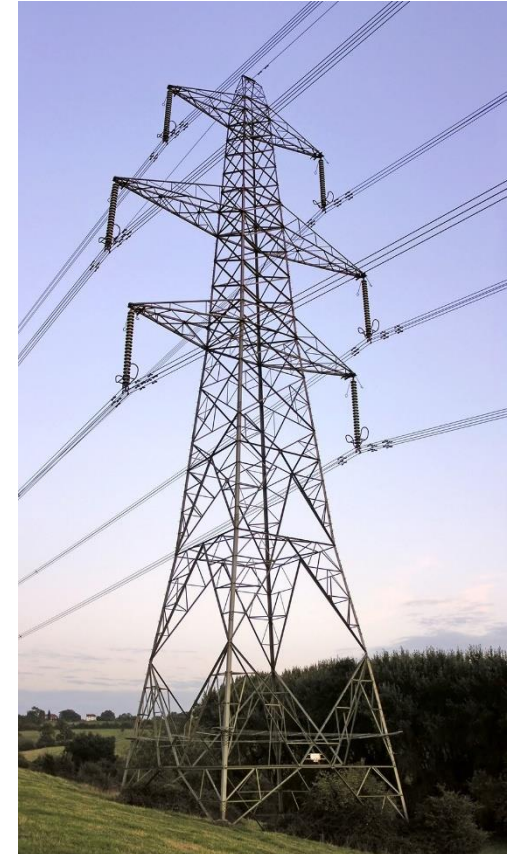
15.50 **AOB**

16.00 **Close**

2021/22 Outage Plan

National Grid Outages

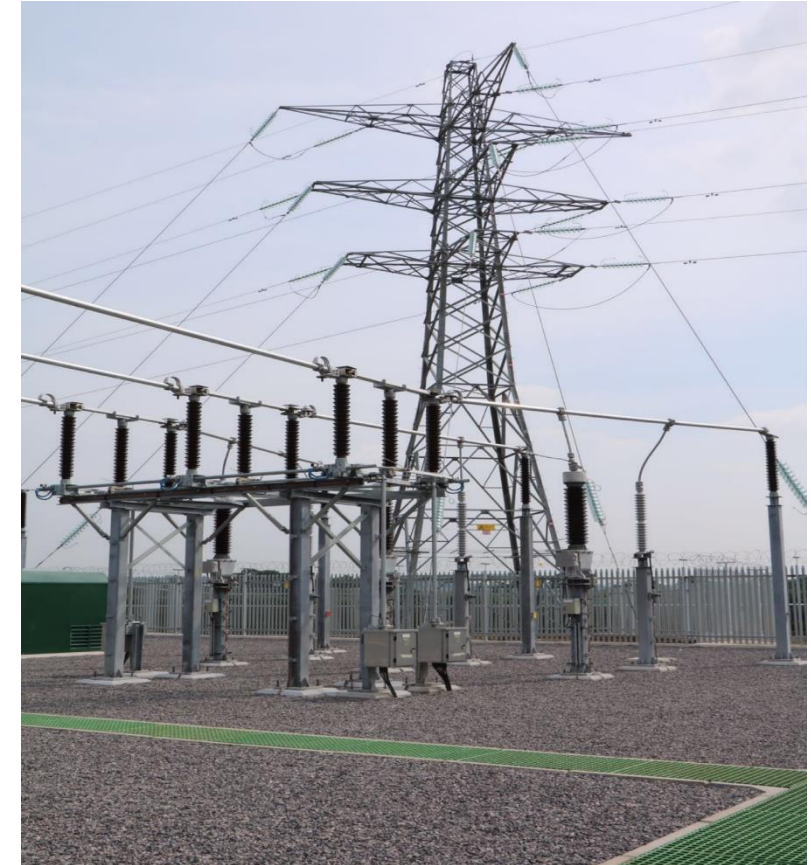
- Year Ahead Plan received in December 2020 (includes planned outages from April 2021 – March 2022).
- Any sites affected by outages on National Grids network will be able to view these on the WPD Portal now.
- Formal notification of these outages will come from WPD Outage Planner for the relevant area.
- Any queries for these outages should be directed to the WPD Generation Inbox for your area where they will be directed to the appropriate outage planner.



2021/22 Outage Plan

WPD 132kV Outages

- All planned outages for April 2021 – March 2022 available to view on WPD Portal from end of January 2021.
- Formal notification of these outages will come from WPD person responsible for work (Project Engineer / Technician). These details are available to view on the portal.
- Where possible, outages have been merged with NGC outages that affect DG customers to limit interruptions / constraints.



2021/22 Outage Plan

WPD 33kV Outages

- All planned outages for April 2021 – March 2022 available to view on WPD Portal from end of February 2021.
- Same as 132kV outages, formal notification of these outages will come from WPD person responsible for work. These details are available to view on the portal.
- WPD have merged outages (where possible) to limit number of constraints / interruptions to DG sites.
- If any sites wish to undertake work on their own equipment this year and would like to this to be at the same time as a WPD outage, please contact the WPD Generation Inbox for your area.



2021/22 Outage Plan

Provisionally Approved Outages

- Outages in Portal will initially be marked as Provisionally Approved.
- Further studies required prior to full Approval but outage should go ahead unless issues are identified during this process.
- Approval will be granted Four Weeks Ahead of outage. If any changes are required (such as date or duration), these will be identified in the WPD Portal / Four Week Report under 'Reason for Change' section.



WPD KPI Booklet

During 2020, WPD worked with DGOO stakeholders to identify and develop KPIs aligned with their requirements.

WPDs first KPI pack was published in October 2020. Included LOST Generation Report for January – August 2020.

LOST Generation Report covering January – December 2020 & Updated KPI pack will be available to view / download beginning of February 2021.

WPD will continue to develop this booklet each quarter to incorporate further KPIs.

We welcome any feedback / other requests for discussion at further DG events.

WESTERN POWER DISTRIBUTION
Serving the Midlands, South West and Wales

WPD Distributed Generation KPIs

westernpower.co.uk

KPI: Measure the number of Short Notice Outages

Overview: Following on from discussions with DG customers at recent DG forums, WPD have been asked to measure the number of short notice outages received with less than four weeks' notice that have affected DG sites (interruption to supply or constraint) connected to WPDs network.

Target: To minimise the number of short notice outages that affect DG sites. The number of Short Notice outages from August 2020 are shown below.

South West & Wales		% of Total
No. of Short Notice Outages requested	86	
No. of Short Notice Outages requested by a DG customer	3	3.5%
No. of Short Notice Outages requiring Generator Constraints	22	25.58%
Total number of DG sites affected by the above outages	28	

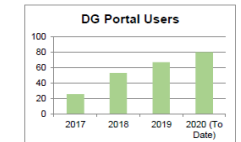
East Midlands		% of Total
No. of Short Notice Outages requested	58	
No. of Short Notice Outages requested by a DG customer	1	1.7%
No. of Short Notice Outages requiring Generator Constraints	8	13.8%
Total number of DG sites affected by the above outages	8	

West Midlands		% of Total
No. of Short Notice Outages requested	57	
No. of Short Notice Outages requested by a DG customer	1	1.8%
No. of Short Notice Outages requiring Generator Constraints	6	10.5%
Total number of DG sites affected by the above outages	7	

KPI: Measure number of users on WPD DGOO Portal

Overview: WPD created the DG portal in 2016/17 to improve communication with DG operators / owners with regards to outage / constraint information.

Target: To increase the number of registered users each year from when the DG portal was introduced in 2016/17. The total number of registered users now stands at 80.



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15.00 **Break**

15.10 **Accelerated Loss of Mains Change Programme update**

Peter Aston, primary system design manager, Western Power Distribution

15.50 **AOB**

16.00 **Close**

ALOMCP update

Accelerated Loss of Mains Change Programme update

Peter Aston, Primary System Design Manager



westernpower.co.uk



ALOMCP update

Background

- **G59/3-3 published on 1 Feb 2018 to include new LOM settings:**
 - Removed Vector Shift as Loss of Mains protection
 - Increased ROCOF settings to 1Hz/s, 500ms time delay
 - **Retrospective for existing sites. Implementation by 31 Aug 2022. Everything greater than 16A/phase (3.68kW single phase, 11.04kW three phase).**
- **Payment is up to £4000 per site for settings change/disabling, or £4000 per relay for a relay change**
- **Applies to relays and **inverters****
- **Link to ENA webpage: <https://www.ena-eng.org/ALoMCP/>**



ALOMCP update

Windows for application

- Window 6 **closes 10 Feb 2021**
- Windows 7 and 8, up to Aug 2021, are definitely going to be opened
- We had 185 applications in Window 5, and 108 so far in W6, compared to 456 in W1 and 254 in W4.
- Recognised contractors list published <https://www.westernpower.co.uk/our-network/loss-of-mains>
- Programme continues through Covid restrictions



ALOMCP update

Inverters

- Inverters may contain G59 settings
- These settings need to either be changed or disabled
- ENA guidance on inverters <https://www.ena-eng.org/ALoMCP/mankb>



ALOMCP update

Tapered payments

- Tapered payments are likely to be brought in
- Current thinking is 80% in Q1 2022, 70% in Q2 2022



ALOMCP update

Progress

- 1658 applications received (3.97GW) out of approx. 21,000 sites (about 8.6GW)
- 1218 sites completed works (evidence received)
- 923 sites paid, over £2.9m
- 130 sites have had a virtual sample site visit
- Completion dates currently into Q1 2021
- Plenty of funding left – please apply!
- From 1st Sept 2022, all generators need to comply with the new settings. Enforcement actions may be placed on generators.



ALOMCP update

Engagement

- Due to limited activity to date, DNOs have stepped up their engagement
- WPD issued over 4,500 letters to generators in Nov 2020
- We have had lots of follow up from this engagement
- Focusing contact on the largest sites for calls and emails
- Further general engagement / follow up going out soon
- Letters being issued to customers >5MW to confirm compliance



ALOMCP update

Fast track

- An additional £5000 payment per site
- Runs in 'schemes', with each scheme having specific criteria
- Make the required changes within 4 weeks
- Specific criteria for the current scheme:
 - Site capacity: $\geq 500\text{kW}$ up to $< 5,000\text{kW}$
 - Existing Protection: ROCOF, up to and including 0.2Hz/s
- <https://www.ena-eng.org/ALoMCP/>
- Not many applications yet



LoM Accelerated Loss of Mains Change Programme ena nationalgridESO

Home Assistance Contact Us

ACTIONS

Log In

Register

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

Fast Track Scheme 1: Critical RoCoF [ALoMCP - Coronavirus Pandemic Response](#) (Updated 17th June 2020)

The Energy Networks Association (ENA) represents the interests of all energy network companies in the UK. For more information about the ENA, please visit the [corporate website](#).

For more detail on the Accelerated Loss of Mains Change Programme, please click [here](#). For a FAQ on technical issues, please click [here](#). The proforma for submitting evidence of the changes made can be downloaded [here](#).

Registered users can login [here](#). Unregistered users should register [here](#).

Fast Track Scheme 1: Critical RoCoF

The ALoMC Programme has identified that there are additional savings to overall system balancing costs in making changes to RoCoF loss of mains (LoM) protection more quickly than originally envisaged.

Sites meeting the criteria below will be fast tracked through the application process and are eligible for the additional payment shown. Full details of the Fast Tracking Scheme can be found in the Payment Process Specification which is published on the ENA's website [here](#).

Item	Description
Scheme becomes active on	29 June 2020
Cap	The Fast Track is open to 100 sites initially and the programme will review whether to extend this based upon market response and the ability of the supply chain to sustain it.
Criteria	<ul style="list-style-type: none">• Site Registered Capacity: minimum 500 kW but less than 5MW• Type of LoM protection: RoCoF• Pre-change RoCoF settings: Up to and including 0.2Hz/s• Lead time: Less than or equal to 4 weeks
Fast-tracking payment	£5000 (plus VAT) per site

Close

ALOMCP update

Contact WPD about the programme

- Email: ALOMCP@westernpower.co.uk
- Telephone: 0800 0328880

Any
questions?



westernpower.co.uk



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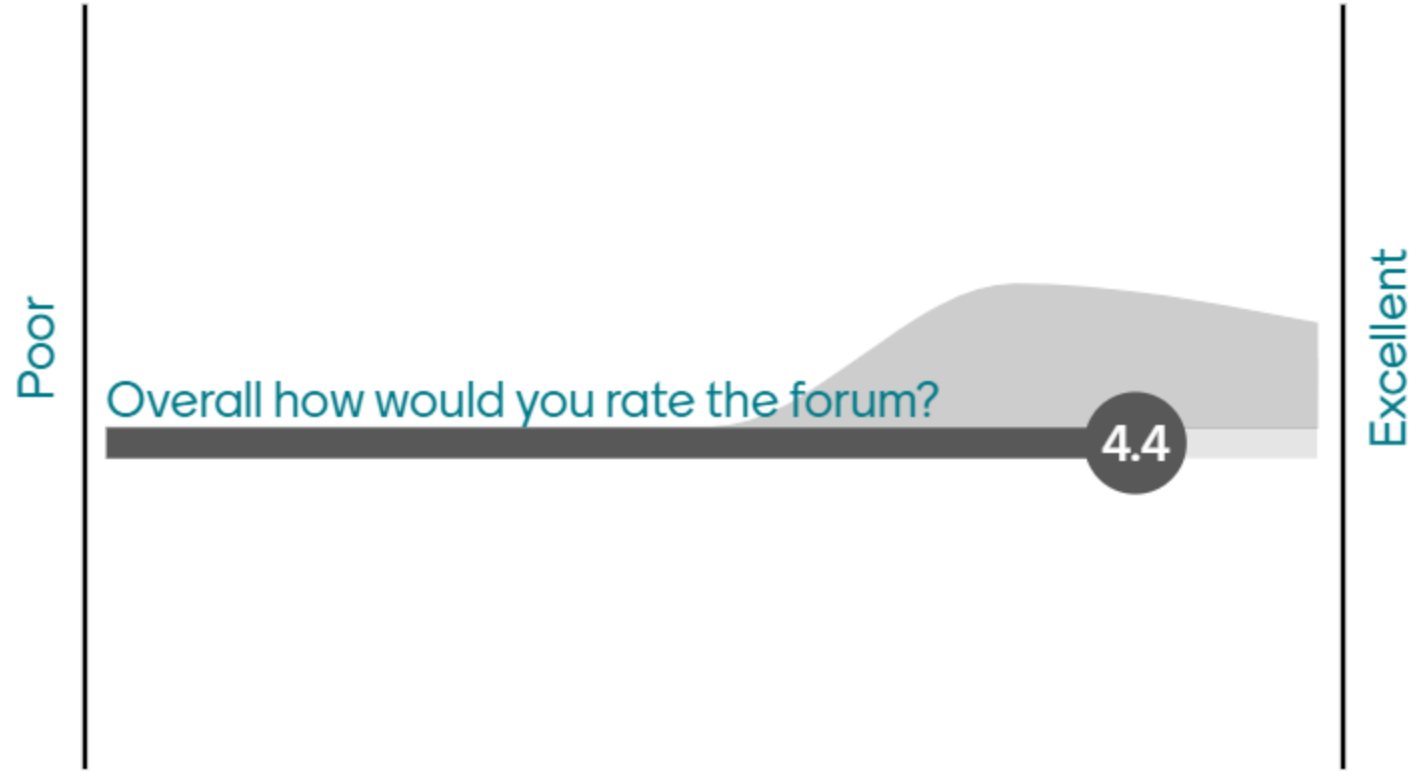
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Feedback



What topics would you like to see further information on from WPD at future sessions?

Local flexibility tenders?

Not particularly

Outage portal updates.

Could 11kV outages be included in the portal?

Update on the significant outage notification raised earlier

Upgrades to the network

Agree on the 11kV point! Would be great to have more visibility of these.

H&S arrangements for cross-boundary switching

Progress of ANM development.

Environmental improvements, e.g the use of SF6?

Press ENTER to pause scroll

