Pelectricity

Bringing energy to your door

Independent Connection Provider (ICP) & Independent Distribution Network Operator (IDNO) Workshop November 2021

書圖書合書

Agenda



Start & Agenda	
Meet the Team	
2021-22 ICE Workplan Update	
Onboarding update	
Electric vehicles Strategy	
Policy update	
Access SCR	
Questions	
Wrap up & close	

Meet the Team







Peter Twomey Planning Policy Manager







Lottie Wheatcroft

Incentive on Connections Engagement Manager



Brian Hoy Head of Market Regulation



Martin Edmundson

Business connections Manager

2021-22 ICE Workplan Update





ICE 2021-22 Workplan Performance

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We will develop & publish guidance documentation as a simple resource for new ICPs to signpost information, guidance and support relevant for ICPs working in our area.	 ✓ On boarding update provided as part Q1 workshop, which was delivered in July. ✓ Further information will be provided in today's session
We will run 2 SDPOC training sessions for ICPs.	 ✓ 1st session 15th July ✓ 2nd Session 10th November
We will host webinars on policy topics relevant to our stakeholders.	 ✓ Our most recent policy webinar was held on 21st October. ✓ A policy update will also be included on todays workshop
We will offer a minimum of 3 engagement opportunities across webinars and workshops. We will also provide surgery sessions to meet our stakeholders needs, targeting all are held within 10 working days.	 ✓ On track ✓ On track
We aim to outperform the regulatory standard by providing quotes on average in 11 working days (compared to the guaranteed standard of 15 working days) for LV Demand	Year to date average of 10.0 working days

ICE 2021-22 Workplan Performance

We aim to outperform the regulatory standard by providing quotes on average in 15 working days (compared to the guaranteed standard of 20 working days) for HV Demand	Year to date average of 15.9 working days
We aim to outperform the regulatory standard by providing LV/HV design approval responses within 8 working days (compared to the guaranteed standard of 10 working days)	Year to date average of 9.0 working days
We will aim to issue all LV/HV BCAs within an average of 10 working days of Design Approval.	Year to date average of 9.0 working days
We will strive to improve our Time to Connect for LV Demand connections (7 working days compared to guaranteed standard of 10 working days).	Year to date average of 3.1 working days
We will strive to improve our Time to Connect for HV Demand connections (15 working days compared to guaranteed standard of 20 working days).	Year to date average of 12.7 working days

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Onboarding Update





We will support the onboarding of new ICPs

 KPI - We will develop & publish guidance documentation as a simple resource for new ICPs to signpost information, guidance and support relevant for ICPs working in our area.

What do we mean by Onboarding?

- The action or process of integrating a new employee into an organisation or familiarising a new customer or client with one's products or services
- The right onboarding process can make a huge difference in the long-term performance of a new employee, customer or client





Engaged with ICP and IDNO stakeholders via events and questionnaires to canvas ideas for improvement

Reviewed the existing published documentation available to ICPs

Reviewed the existing onboarding process and our internal onboarding communications

Identified areas for improvement

Trialled an improved process on a number of ICPs new to the ENWL area

What benefits have we seen from the trial?



Contact name, address, contact number

Self-Authorisation or ENWL authorisation?

Confirm NERS accreditation

Understand the type/scope of work to be delivered

Commercial details? Need to be set up on ENWL system to bill for auditing etc.

Need to be registered by ENWL on MDUK audit system

Master Adoption Agreement? Required to be signed once by all ICPs



We have reviewed our end to end process documentation

Improved and simplified the design submission process

Improved and simplified the asset adoption/energisation process

Improved and simplified the contracts process

Ensure you are in control of your own projects and we are here to facilitate

Upskilling staff following turnover or during absences minimises the impact on projects

Revised documentation and processes will be available to all ICPs and IDNOs

What does this look like?





ICP Onboarding Initial Contact

Identifying new ICPs through

- Request for assistance
- Contact with the Academy
- Request for a POC quote
- Contact with CIC, Asset Adoption teams

Step by Step guide of the process with accompanying links to forms, guidance, email addresses and web pages

Consistent approach

Email templates available from 1st December 2021

ICP Onboarding - Initial Contact via Academy Email Template

The Academy team (<u>TheAcademy@enwl.co.uk</u>), have contacted me because of your interest in working in the ENW area as an Independent Connections Provider. Welcome!

We have created a short process to assist your onboarding. To initiate this process, we would like to invite you to a Microsoft Teams meeting with our systems operations manager and myself. This gives us the opportunity to introduce ourselves, provide you with an overview and give you the opportunity to introduce yourselves and ask any questions. We will also look to capture the following important information:

- A Contact name, address, contact number?
- Your proposed delivery method for connections? Self-authorised workforce or ENWL authorised (as per CoP 614 and CoP 635). You can find out more about the self-authorisation process <u>here</u>
- Confirm your NERS accreditation
- Understand the type/scope of work you will be delivering as per CoP 635 Appendix A.
- Confirm and set up your commercial details on our billing system for auditing etc.
- Register you on the MDUK audit system
- Complete, sign and provide a Master Adoption Agreement to our contracts team <u>contracts@enwl.co.uk</u>, to ensure you are signed into our terms and Conditions. This can be found <u>here</u>. If you are interested in delivering unmetered connections only you will also find a copy of our unmetered tripartite agreement at the same link.

Any of the above information you can provide in advance of the meeting would be appreciated. In the interim please take the time to look at our dedicated web pages:

- Information for ICPs and IDNOs
- You can sign up for access to our G81 Library here
- You can request access to the <u>Network Asset Viewer (NAV</u>) to search our electricity distribution network records
- You will also find the following link very useful for all delivery activities, <u>contestable activities</u> <u>library</u>.

If you can provide details of your upcoming availability I will make the arrangements and send an invitation.

Kind regards,

Design Submission



- Competition in Connections mailbox <u>cic@enwl.co.uk</u>
- End to end review of the design submission process
- Incorporating recent improvements
- Step by Step guide of the process with accompanying links to forms, guidance, email addresses and web pages
- Will be provided on all correspondence from the CIC team from 1st December 2021

CIC Email Signature Template

For your Information:

All Customers

Your quote is valid for 180 days (6 Months) within this time you must complete the following:

- For customer selecting option 2, apply for a quote from an Independent Connections Provider (ICP) and appoint your chosen ICP.
- Complete and return the signed ENW acceptance form.
- Make full payment.

ICP Design Submission

- Send your design submission to ENWL email address <u>cic@enwl.co.uk</u> within 30 days of acceptance. Your design submission should include your design, adoption plan and asset valuation.
- You must also provide a completed <u>Bilateral Adoption Agreement</u> (Statement of Work) template. A
 guide to the template is available <u>here</u>.
- If your installation is to be adopted by an Independent Distribution Network Operator (IDNO) please
 also complete a Bilateral Connection Agreement template for your interface type and provide with
 your design submission. The templates can be found on the <u>Connection Agreements</u> webpage.
- Your design submission email cannot exceed 30MB in size or it will be rejected by our mail server.
- Your design submission will be reviewed by ENWL. You will have a decision via email within 10 working days.
- Design approval is confirmed via receipt of a Form-B.
- If you need to re-submit your design please ensure you include your updated <u>Bilateral Adoption</u> <u>Agreement</u> (Statement of Work) template and BCA template (if applicable).

Energisation

- We recommend you do not begin construction until your design is approved by ENWL.
- You will find the following link very useful for all delivery activities, <u>contestable activities library</u>.
- Please submit your energisation requests to the asset adoption team <u>assetadoption@enwl.co.uk</u>

Your project is subject to the below clauses:

Please note, your connection will be subject to a number of termination terms and conditions associated with the progression of your project (<u>T's & C's</u>). As part of our commitment to manage capacity fairly for all connecting customers, we now request evidence of progression following acceptance of our Connection Offer. These conditions are in line with the Energy Network Association (ENA) recommendations and intend to reduce the amount of capacity held by non-moving or slow-moving projects for the benefit of the wider community.

If the Works are not commenced within six months of the date of the Quotation or have commenced but are subsequently suspended for a period of six months or more (and this is not due to an act or omission by us) we reserve the right to terminate the Contract immediately without notice *as per our Terms & Conditions*.

Please visit our website for other useful information and tips at: Information for ICP and IDNOs

Thanks CIC Team



Asset Adoption mailbox <u>assetadoption@enwl.co.uk</u>

- End to end review of the live working and energisation processes
- Step by Step guide to the processes with accompanying links to forms, guidance, email addresses and web pages
- Will be provided on all correspondence from the Asset Adoption team from 1st December 2021

Asset Adoption Email Signature Template

For your Information: Design Submission

- You must have an approved design before submitting your energisation request. Send your design submission to the competition in connections team cic@enwl.co.uk within 30 days of acceptance.
- Please ensure you provide a completed <u>Bilateral Adoption Agreement</u> (Statement of Work) template with your design submission. A guide to the template is available <u>here</u>.
- If your installation is to be adopted by an Independent Distribution Network Operator (IDNO) please
 also ensure you complete a Bilateral Connection Agreement BCA) template for your interface type
 and provide with your design submission. The templates can be found on the <u>Connection Agreements</u>
 webpage.
- Your submitted <u>Bilateral Adoption Agreement</u> (Statement of Work) template and BCA template (if applicable) will be reviewed along with your design submission. You will have a decision via email within 10 working days.
- Design approval is confirmed via receipt of a Form-B.

Energisation

- Please submit your energisation requests to the asset adoption team assetadoption@enwl.co.uk.
- Our <u>contestable activities library</u> provides you with information on the delivery process and associated templates.
- Your energisation or live working request must be submitted using the correct template at least 10
 working days prior to energisation (LV) or 20 working days prior to energisation (HV), and
 accompanied by the supporting documentation e.g. approved design, as-laid, commissioning records.
- Please ensure your signed <u>Bilateral Adoption Agreement</u> (Statement of Work) has been returned to the contracts team <u>contracts@enwl.co.uk</u> prior to submitting your live working or energisation request. The templates can be found on the <u>Connection Agreements</u> webpage.
- If your installation is to be adopted by an Independent Distribution Network Operator (IDNO) please also ensure they have returned their signed Bilateral Connection Agreement (BCA) to the contracts team <u>contracts@enwl.co.uk</u> prior to submitting your live working or energisation request.
- Your email cannot exceed 30MB in size or it will be rejected by our mail server.
- Your energisation or live working request will be reviewed by our construction team. Please allow up to 5 working days.
- You must not commence live working or energisation activities until your request has been approved by ENWL and you receive signed confirmation.

Your project is subject to the below clauses:

Please note, your connection will be subject to a number of termination terms and conditions associated with the progression of your project ($\underline{\Gamma} \le \underline{C} \le \underline{C}$). As part of our commitment to manage capacity fairly for all connecting customers, we now request evidence of progression following acceptance of our Connection Offer. These conditions are in line with the Energy Network Association (ENA) recommendations and intend to reduce the amount of capacity held by non-moving or slow-moving projects for the benefit of the wider community.

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Please visit our website for other useful information and tips at: Information for ICP and IDNOs

Thanks Asset Adoption Team

Contracts



Contracts mailbox <u>contracts@enwl.co.uk</u>

- End to end review of the contracts team processes
- Step by Step guide to the processes with accompanying links to forms, guidance, email addresses and web pages
- Will be provided on all correspondence from the Contracts team from 1st December 2021

Contracts Email Signature Template

For your Information: Design Submission

- Send your design submissions to the competition in connections team <u>cic@enwl.co.uk</u> within 30 days of acceptance.
- Please ensure you provide a completed <u>Bilateral Adoption Agreement</u> (Statement of Work) template with your design submission. A guide to the template is available <u>here</u>.
- If your installation is to be adopted by an Independent Distribution Network Operator (IDNO) please
 also ensure you complete a Bilateral Connection Agreement BCA) template for your interface type
 and provide with your design submission. The templates can be found on the <u>Connection Agreements</u>
 webpage.
- Your submitted <u>Bilateral Adoption Agreement</u> (Statement of Work) template and BCA template (if applicable) will be reviewed along with your design submission. You will have a decision via email within 10 working days.
- Design approval is confirmed via receipt of a Form-B.

Contracts

- The design approver will forward your approved <u>Bilateral Adoption Agreement</u> (Statement of Work) template and BCA template (if applicable) to the contracts team.
- The contracts team will record the receipt date of all agreements. They will produce the BCA (if applicable) and forward to your IDNO within 5 working days of receipt.
- Please return your signed <u>Bilateral Adoption Agreement</u> (Statement of Work) to the contracts team <u>contracts@enwl.co.uk</u> prior to submitting your live working or energisation request.
- Please ensure your IDNO has returned their signed Bilateral Connection Agreement (BCA) to the contracts team <u>contracts@enwl.co.uk</u> prior to submitting your live working or energisation request.
 Your email cannot exceed 30MB in size or it will be rejected by our mail server.

Energisation

- Please submit your energisation requests to the asset adoption team assetadoption@enwl.co.uk.
- Our <u>contestable activities library</u> provides you with information on the live working and energisation processes.
- Your energisation or live working request will be reviewed by our construction team. Please allow up to 5 working days.
- You must not commence live working or energisation activities until your request has been approved by ENWL and you receive signed confirmation.

Your project is subject to the below clauses:

Please note, your connection will be subject to a number of termination terms and conditions associated with the progression of your project (<u>I's & C's</u>). As part of our commitment to manage capacity fairly for all connecting customers, we now request evidence of progression following acceptance of our Connection Offer. These conditions are in line with the Energy Network Association (ENA) recommendations and intend to reduce the amount of capacity held by non-moving or slow-moving projects for the benefit of the wider community.

If the Works are not commenced within six months of the date of the Quotation or have commenced but are subsequently suspended for a period of six months or more (and this is not due to an act or omission by us) we reserve the right to terminate the Contract immediately without notice *as per our Terms & Conditions*.

Please visit our website for other useful information and tips at: Information for ICP and IDNOs

Thanks Contracts Team

Updates to Existing Guidance

- Review and update of existing guidance
- Ensure it is relevant and informative
- Fixing broken links e.g **Energisation Check List**

LV Jointing Rec Contestable joi to be done by



LV Jointing Req Contestable joi to be done by **Energisation Check List**

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1. Approved Design Submission (approved by ENWL or Self Approved)

All forms are available on our website in our Contestable Activity Library All requests to be submitted to assetadoption@enwl.co.uk no less than 20 days notice.

Library

2. Energisation Request Form

3. Legal Consents Complete (if required)

Payment of all quotations / invoices

5. Suitable Joint Hole excavated

West. For further guidance please see our website

Alternatively our payment guidance can be found here

see our joint hole guidance in our Contestable Activity Library

Further Information on Connection Agreements can be found here

6. Adoption / Bilateral Agreements in place and signed

7. P283 Commissioning Certificates submitted

no later than 5 days after Energisation.

Electricity North West Ltd (ENWL) typically expects to have the design approved prior to

submitting the Energisation request. Our Design Submission pack which details all of the information we need to approve designs can be found here in our Contestable Activity

Please be aware that if the energisation is cancelled due to the ICP not being ready to proceed with the energisation, ENWL will be looking to recover reasonable costs

incurred. Therefore please ensure that you are confident that everything on site and every contractual agreement will be in place five working days prior to the agreed

energisation date. Any outstanding balances may delay future energisation requests.

feel that the scheme could progress to Energisation without legal consents being finalised then please discuss the specifics of the scheme direct with Electricity North

I.e. if you are requesting Electricity North West to undertake the jointing activity.

Guidance on how to pay Electricity North West should be on the quotation / invoice.

ENWL may inspect the joint hole and site prior to commencing the work to ensure that

there is clear, safe and unimpeded access to the site / working area, for example ENWL

would not accept a joint hole under scaffolding structure. For further guidance please

We will require agreements to be signed by all parties prior to the Energisation.

P283 requires that any Low Voltage (LV) or High Voltage (HV) site involving Current

Transformers (CTs) should have test certificates complete and shared back with ENWL via p283commissioning@enwl.co.uk. Ideally this should be done ahead of Energisation. CoP510 and ES510, which can be found in our G81 Library contains all of the information you require. The commissioning certification and measurements should be submitted

everything is ready for the agreed Energisation works. ENWL would also require that

In most cases ENWL require all legal consents to be in place prior to Energisation. If you



Onboarding is an informal way to greet new customers at the ENWL virtual front door

Ensures customers are quickly and painlessly introduced to our services and processes

These improvements are available to all – They are not exclusive to new customers

Clear roadmap to energisation with timescales - You can efficiently plan your own delivery schedules

ENWL act as facilitators only – If we intervene in the process something needs your attention

We all work together and safely to get customers connected





Any questions?

Electric Vehicles Strategy Our Fleet







Our electric vehicle strategy



Our electric vehicle strategy sets out the actions we will take to lead and support our customers and wider stakeholders on our journey to decarbonise the region's transport

https://www.enwl.co.uk/go-net-zero/our-plans-to-go-netzero/our-electric-vehicle-strategy/

Leading by example



We will lead the transition to EVs in our region by identifying opportunities to decarbonise transport in our own business

We are committed to promoting the uptake of low emissions vehicles and reducing our overall impact on climate change. All of our sites, EVs and electrical equipment are already powered by 100% renewable electricity



Opportunities and targeted projects

- Earlier adoption/Quick wins
 - Company Car Early Termination Programme
 - Introducing pooled small Van resources
 - Commercial vehicle home charging (smart cable trials)
 - EV Fuel cards to facilitate EV retail rapid charging
 - Depot charging facilities

- Review Funding methods leasing over shorter durations (reducing from 4 years to 3 years)
- Stepping stones to Commercial EV fleet
 - PHEVs
 - Use of decarbonised alternative fuels
 - Trialling of FCEVs when these become available

Current colleague company car figures: 83 BEV, 10 PHEV

Colleagues in in cycle to work scheme: 127

Review every replacement with EV solution first

Commercial EV Plan – By March 2028

Future impact of fleet decarbonisation and CAZ

Vehicle Type	Proportion changed to EV by March 2028	Count of proposed EV vehicles
Fault Tech vehicles	100%	31
Fork Lift Truck	100%	11
Mini Digger	90%	43
Jointers Van	50%	120
Flat Bed	50%	7
4X4	30%	36
Van Medium	20%	2
Van Small	20%	23





- Payback is achieved mainly through fuel savings and potential future avoidance of local charges (such as clean air zones and other future local authority action).
- Currently only commercial assets that have a total expenditure payback of 8 years or less are being considered for replacement with an EV.
- Assumptions on potential EV availability and advancement in technology are being made within our plans. E.g. LGV EV assets are not considered viable until after 2027.
- Particular focus is being put on replacing the vehicles which operate predominantly within North West conurbations and those which have operating patterns which would suit an EV e.g. Fault technicians, planners
- Currently there are 14 categories of vehicles and plant which ENW have no plans for electrification (185 vehicles) these include Trucks, customised specialist vans, tracked plant. As solutions become available we will form plans to replace or decarbonise these vehicles.
- 35.6% of the commercial fleet planned to be replaced with electrified alternatives by March 2028 (273 of 767)
- Our goal is that every new car leased by the company will be a low emission vehicle (HEV, PHEV or BEV) by 2023

Electric mini-diggers

- Each vehicle has reduced our carbon emissions by 64 tonnes CO2 equivalent a year.
- Running and servicing costs are significantly lower, and they are five times quieter than traditional diesel equivalents.
- Practical for the type of work we typically do i.e a few hours of digging in order to find and fix a fault in underground cables.
- The battery is low down in the vehicle so provides better ground purchase



Vehicle practicalities

- Lack of the types of vehicles we currently require particularly 4 x4's, Large vans, HGVs, specialised plant
- Payload and weight restrictions, especially for towing
- Low ranges for heavy vehicles
- Need to be able to offer additional service whilst idling Winches, equipment charging, cabin heating/cooling, welfare facilities, hiab lifts etc....

Operational issues

• Charging capabilities especially during power outages

Financial

- EVs, particularly commercial and HGVs are still more expensive upfront than their ICE equivalents (80%-120%)
- We are a regulated business, so spending is capped

Environmental

- Lots of embodied carbon already in the vehicles we own
- Hybrid equivalents don't always offer reductions in overall emissions (depending on main driving mode)
- The majority of the fleet is less than 9 years old, and as such comply with Euro 6 standards

The chargers installed at our sites are a mix of slow, and fast charge points to allow colleagues to choose the most appropriate charging speed for their needs.

We will continue to expand the number of charge points at our sites to meet the growing demands for EV charging for colleagues and visitors.

Key challenges are:

- Predicting charging patterns and requirements
- EV charge point size
- Site import capacity requirements, whilst installing other innovative technologies e.g. ground-source heat pumps).
- EV charging infrastructure costs and ease
- EV unit options We have basic systems (plug and go) across our estate. Investigating: fob-access, load balancing, Smart charging, back office monitoring & billing.
- Diversification promoting home charging and reducing range anxiety.

118 EV charge points available for colleagues and visitors at 15 sites





zerocarbon@enwl.co.uk



www.enwl.co.uk/gonetzero



0800 195 4141



@ElecNW_News



linkedin.com/company/electricity-north-west



facebook.com/ElectricityNorthWest



youtube.com/ElectricityNorthWest

Please contact us if you have any questions or would like to arrange a one-to-one briefing about our EV strategy

QUESTIONS & ANSWERS

Policy Update





New Look

- Policy is being converted to new look templates
- Craft Manuals first, CP606, Overhead Line & Jointing Manuals
- Improved graphics and layout easier to read
- Update will continue across the whole library

Previous CP606 Operations Manual

+		Felect north
+ SUB.	JECT: Operations General	PROCEDUR
SUB.	JECT HEADING: Earth Loop Impedance Testing at LV	ISSUE: 6
Servi	ce Terminations	DATE: OCT
1.	RISK ASSESSMENT	
	A risk assessment shall be carried out on site	
2.	EARTH LOOP IMPEDANCE	
	Historically there are some service terminations with no earth or LV system. When this is the case Electricity North West L install an earth connection unless the network has been upg these instances the consumer is responsible for providing and protection.	connection provid imited will not su raded to a PME I maintaining thei
	For service terminations where an earth connection has t system, any fault with that connection shall be rectified by Elec	een provided fr tricity North West
2.1	LV metered supplies to customer up to 100A per pha	se
	ENA Engineering Recommendation P23/1 gives Guidance r Fault Protection and advice required from Public Electricity Sup	elating to Consu oply Companies.
	Within this document are published suggested maximum valu (ELI), they are the same as those provided as a guide to des for consideration of their protective devices. The ELI value termination fuse to operate within 5s in line with BS7871 and C	es of Earth Loop gners of private i es should allow P331.
	In line with this guidance Electricity North West Limited has a as acceptable values of ELI to be measured at the incoming searth terminal has been provided	dopted the follow ervice terminatio
	Non PME System: ELI = 0.8Ω	
	PME System: ELI = 0.35Ω (Higher values can be acce	epted up to 0.8Ω)
	(The value for a PME system is lower, which is to be expected earth configuration).	I with the combin
2.2	LV un-metered supplies to customer up to 25A per pl	lase
	Guidance relating to the maximum values of Earth Loop corresponding maximum size of fuse link which may be instal BS7671. They are therefore the same as those provided installations in consideration of the operations of their protect should allow the service termination fuse to operate within 5s guidance set out in CP331.	Impedance (EL led, have been d to to designers ve devices. The . This is also in I

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Previous version:



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New CP606 Operations Manual

Latest version:



Felectricity north west Bringing energy to your door	EARTH LOOP IMPEDANCE TESTING AT LV SERVICE TERMINATIONS	Procedure G20
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1 Scope/Application

This procedure covers the process for testing the Earth Loop Impedance at LV service terminations and the actions to be taken if the reading is unacceptable.

2 Safety Information



3 Preliminary Operations

Refer to Section 1 of this manual.

NOTE : The meaning of all bold capitalized words used in the body text of this procedure are as set out in the Electricity North West - Distribution Safety Rules, 2013 edition, Section 2, Definitions'

4 Point of Work Risk Assessment

A POWRA Shall always be carried out prior to the commencement of any activities on site

5 Earth Loop Impedance

Historically there are some service terminations with no Earth connection provided from the LV System. When this is the case Electricity North West Shall not subsequently install an Earth connection unless the network has been upgraded to a PME System. In these instances the consumer Shall be responsible for providing and maintaining their own Earth protection.

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Ref Issue Title

CP333	7	Earthing Design for 11/6.6kV Distribution Substations and Equipment	
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- EPD2798Distribution System Design General Requirements
- CP606 S39 11 LV Operations Link Boxes
- CP608 1 System Control Manual
- ES281 9 Company Specific Appendices to ENA Engineering Recommendation G81
- ES220 5 Pre-Commissioning Requirements for Independent Connection Providers Requiring New Assets to be Connected to the 11/6.6kV Network
- CP620 3 Operational Instructions

The procedure for designing HV earth installations for sites with no LV earth such as GVRs, line switches and pole top terminations has been simplified to make use of standard designs, subject to a site risk assessment. This removes the requirement for bespoke designs and pre-installation soil resistivity measurements.

A risk assessment is required to ensure there are no LV earth electrodes or PILC cable in proximity to the HV earth system.

Section 4.6 – use of remote inter tripping schemes added subject to dual redundant tripping schemes.

Generally used where connection/disconnection of a load would cause an unacceptable voltage step change when there is a primary or grid transformer out of service.

Previously only a local cross trip scheme was allowed, now can use remote inter trip subject to trip circuit security requirements

- S39 LV Operations Link Boxes
- Procedure for insertion and removal of blast mitigation bags modified
- Blast bags to be inserted and removed carefully without fouling the link box frame
- Blast bag handles are not to be used to lift the bags in and out of the link box



This document has been updated following feedback on the previous version in preparation for NMS go-live.

Change Summary

The key changes are:

- Removal of the requirement to fit temporary switchgear labels on site
- Addition of the requirement to provided staged drawings as part of the pre-laid submission
- Clarification on the management of larger projects
- Addition of Data Management SLAs
- Tidy up of the site audit elements.

This document has been updated following feedback on the two OP's and two new OP's being required.

OP50 Culcheth A/C has had the cct designations updated as Network has changed over the years.

OP76 Peel A/C has had minor updates.

OP77 has been created for Thorley Ln Primary.

OP78 has been created for Dickinson St 6.6kV F-G B/S A/C.

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Change Summary Sections 2 and 5 have been combined – much of the material was duplicated.

Document updated into the new format

Low smoke zero halogen LV and HV cables added

ES220 – PRE-COMMISSIONING REQUIREMENTS FOR INDEPENDENT CONNECTION PROVIDERS REQUIRING NEW ASSETS TO BE CONNECTED TO THE 11/6.6kV NETWORK

This document has been updated to include the test sheets for the new Schneider RN2D in Appendix B.

Change Summary Also, details of the new MICOM relay have been added including settings files.

- Test 200, 400 & 800
- The SET files named Test 200, 400 & 800 are the test files used for the depot based testing.
- Default 200 & 400
- The SET Files named Default 200 & 400 are the files uploaded to the relay for despatch to site, these set files have minimum settings applied.

CP620 was created to contain all the Operational Instructions previously held in CP606.

It has been updated to cover the following changes:-

- Reference to NMS added
- Inclusion of a requirement on Policy and Standards to define the conditions for selecting plant to apply the OI to as well as the list of sites.
- Change of the responsibility for removing OIs from the NMS diagram from Data Management to Control
- Inclusion of a requirement on field staff to inform control when an OI is to be removed.
- Inclusion of a requirement to record plant modifications in the Asset Register.

Access SCR





A Significant Code Review (SCR) allows Ofgem to initiate wide ranging and holistic change and to implement reform of a code-based issue.

Objective of Access Significant Code Review (SCR): to ensure

electricity networks are used efficiently and flexibly, reflecting users' needs and allowing consumers to benefit from new technologies and services while avoiding unnecessary costs on energy bills in general.

- Access arrangements the nature of users' access to the electricity networks (for example, when users can import/export electricity and how much).
- Forward-looking charges —the type of ongoing electricity network charges which signal to users how their actions can either increase or decrease network costs in the future.

Scope of the Access SCR:

- Review of the definition and choice of transmission and distribution access rights.
- Wide-ranging review of Distribution Use of System (DUoS) network charges.
- Review of distribution connection charging boundary.
- Focussed review of Transmission Network Use of System (TNUoS) charges.

Progress to date



Spring 2021: Publication of early minded-to decision

- Ofgem published its 'Minded-To' Consultation on 30 June and was open for responses to 25 August 2021
- <u>Access and Forward-looking Charges Significant Code</u> <u>Review - Consultation on Minded to Positions | Ofgem</u>

It covered

- Proposals for distribution network connection charges.
- Proposals for improved definition and choice of access rights.
- Proposals for ongoing transmission network charges.
- ~150 responses received



- On 1 November Ofgem issued another consultation
 - <u>Consultation on our proposal to take forward the reform of Distribution Use of System charges under</u> <u>a separate Significant Code Review on revised timescales | Ofgem</u>
 - Consultation closes 6 December
- Proposal is to descope the original SCR and take forward-Looking DUoS reforms under a separate SCR with a revised timescale
- Therefore revised timescale would be:

Phase 1: Connection boundary and access rights (2023 implementation), and focused review of transmission network charges

Phase 2: Wide ranging review of DUoS (2025 implementation)

Connection Boundary

Minded-to position

• Shallow Boundary for Demand:

- Currently pay a proportion of reinforcement cost up to one voltage level above POC.
- Proposal is no contribution to network reinforcement.

• Shallower Boundary for Generation:

- Currently pay a proportion of reinforcement cost up to one voltage level above.
- Proposal is contribution to network reinforcement only at same voltage as POC.
- Retain High-Cost Cap for generation and charge transmission costs to connection customer as per current arrangements.



Access Rights

Minded-to position

- Introduce better defined non-firm access products:
 - Specifies maximum number of hours a customer can be curtailed.
 - As no DUoS and minimal connection charge benefit, impact would be to facilitate a quicker connection only, as temporary solution.
 - Proposed limits are guaranteed with obligation to procure flexibility if exceeded
- Introduce time profiled access products :
 - Allows users to vary access requirements at different times.
 - In absence of DUoS reforms impact time to connect only.
- Do not progress shared access arrangements.



Charge TNUoS to Small DG:

NGESO to levy TNUoS on all generators above 1MW on the same basis as transmission connected generation.



- Decision in Phase 1 now expected March 2022
- Two ENA working groups have been established to look at implementation issues
 - Access rights
 - Connections Boundary
- Focus is to identify what clarity is needed:
 - ✓ End Sept to feed into ED2 assumptions
 - \checkmark End Oct to feed into Ofgem Access SCR decision
 - Now focusing on code modifications (licence, CCCM etc)





Any questions?



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 Please give us your honest feedback either email <u>ICE</u> or leave your feedback in the chat



 Presentation slides will be available via our <u>website</u> shortly.



Future events, including webinars are available <u>here</u>



Don't forget to get in touch with us at <u>ICE@enwl.co.uk</u>

