



Northern Powergrid

Competition in Connections Seminar

26th April 2024
Hilton Hotel York



Welcome



Clare Roberts
Connections Input Services Operations Manager

Housekeeping





Introduction

Paul Glendinning
Director of Energy Systems

Introduction and Context

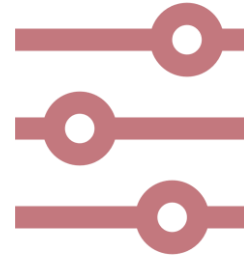
- Responsible to the board for the Energy Systems team which includes Major Connections and DSO
- 3 years at Northern Powergrid; over 30 years in Connections
- Really important part of our business: huge growth and lots of change in policies

We all need to work together

We are committed to enabling the most efficient and economic connections in our region



Transparent
Competition



Enabling customer
options



Driving efficiency
and accelerating
offers

Agenda

What	When
Competition in Connections Update – Clare Roberts	10:40
Authorisations Update – Martin Murphy	10:55
Break	11:10
Systems Flexibility – Maurice Lynch	11:20
Wayleaves and Land Rights – Josh Bradley	11:25
Connections Policy Introduction – Drew Johnstone	11:35
Group Discussion – Emma Williams	11:45
Lunch & Networking	12:00
Drop In Sessions	13:00
Q & A	14:00
Closing Remarks – Mark Johnston	14:30



Competition in Connections update

Clare Roberts

Connections Input Services Operations Manager

Performance

SLC15 Dashboard summary

	2021	2022	2023	2024 - Week 16	Forecast
Provision of PoCs	1889	2334	2219	711	2310
Total number of acceptances	474	638	562	142	460
Technical self-determined	177	116	55	21	70
Matrix	439	523	1464	549	1780
Design approval request	1045	1117	1258	402	1300
Self-approved design	193	218	174	50	160
Designs rejected	189	296	380	109	

Responding to your feedback



What you told us...

- Communication
- Authorisations
- Consistency
- Health and Safety



What we've done...

- Issue reminders for any significant changes to policies/briefs
- Presentation to follow today
- Internal improvements (Design and Delivery)
- Presentation to follow today

What we're working on now...



- Updated application forms
- Internal roadshows for Delivery Engineers (I have a request please!)
- Webpage refresh
- Reviewing processes
- Self-fill LV BCA trial

Topics for the next seminar...

- Non-conformances
- EHV Connections process
- Any other ideas?



Authorisations

Martin Murphy
Training and Standards Manager

Requirements

The ICP shall be accredited under the National Electricity Registration Scheme (NERS) for the scope of the work to be undertaken.

The ICP shall enter into a Northern Powergrid Framework Asset Adoption & Access Agreement.

Options

There are two options available for authorisation of ICP employees to operate on Northern Powergrid's LV system;

- Option 1 – ICP Authorisation of ICP employees and contractors
- Option 2 – Northern Powergrid authorisation of ICP employees and contractors

Option 1 – ICP Authorisation of ICP employees and contractors

Northern Powergrid require the name, trade group and National Insurance number of the ICP employee to be assessed.

The ICP employee will attend a face-to-face safety induction at either Kerpier or Castleford along with carrying out a simple test on low voltage network testing techniques

On successful completion of the test, Northern Powergrid will notify the ICP that their employee has been inducted and passed the LV testing assessment. The ICP will issue a certificate.

Option 2 – Northern Powergrid authorisation of ICP employees and contractors

Northern Powergrid require an authorisation nomination form, an in date first aid certificate and an in date manual handling certificate and a copy of an authorisation certificate from another DNO for the ICP employee to be assessed.

The ICP employee will attend a face-to-face safety induction at either Keping or Castleford along with carrying out a simple test on low voltage network testing techniques

On successful completion of the test, the ICP operative will be issued with a Northern Powergrid authorisation certificate.

Option 2 – Northern Powergrid authorisation of ICP employees and contractors

SAP's will attend a half day transfer of information session at Keping or Castleford.

This will be followed by a month to read and understand the information provided.

The SAP will then return for a further discussion to confirm their understanding and assuming there are no issues, an authority certificate will be issued along with DSR's, OPM's and keys.

Option 3 – Transfer of Control

Only available at HV for SAP's where transfer of control will be made available.

The process is the same as Option 2.

Key Points

Ensure all documents required are submitted, the request will not be processed without relevant information and documents.

Ensure certificates requested (FA and manual handling) are in date.

Inductions are held every two weeks alternating between Kepier and Castleford.

ICP's are responsible for their own refresher training. For re-issue of certificates every three years, NPg require in date copies of FA and MH certificates and copies of two audits.

Key Points

Linespersons will also be required to submit a MEWP certificate.

The assessment at HV for craftsperson's will be an assessment on safety documents.

Northern Powergrid reserve the right in the event of a serious safety or quality issues to either;


Option 1 – Insist the ICP remove authority pending investigation and suitable remedial action.

Option 2 – Northern Powergrid will remove authority pending investigation and suitable remedial action.

Key Points

A guidance document is available which provides further detail of what I have described.

ows/INetCache/Content.Outlook/ACCYX56/20231102141929313.pdf



Authorisation Options Guidance Document for

Independent Connection Providers

Northern Powergrid permits accredited Independent Connections providers (ICP's) to access its electricity distribution network for the purposes of connecting newly installed extension assets. Access is granted in accordance with the three options set out in section 5.2 of the Competition in connections Code of and is subject to accredited parties entering into Northern Powergrid's Framework Asset Adoption Agreement and Network Access Agreement.

	Option 1 (ICP authorisation of ICP employees and contractors)	Option 2 (Northern Powergrid authorisation of ICP employees)	Option 3 (Transfer of control)
General Access Requirements	<div><div>✓</div> Per section 5.1.2 ICP shall be accredited under the National Electricity Registration Scheme (NERS) for the scope of the work to be undertaken.</div> <div><div>✓</div> ICP shall enter into a Northern Powergrid Framework Asset Adoption & Access Agreement.</div>		
	PLUS THE FOLLOWING SPECIFIC REQUIREMENTS DEPENDENT ON VOLTAGE LEVEL OF THE NETWORK TO BE ACCESSED		
Low Voltage Network Specific Requirements	<div><div>✓</div> The ICP must only use operatives who the ICP has determined is suitably competent to carry out the works.</div> <div><div>✓</div> Operatives will attend a Northern Powergrid training centre and receive a face to face safety induction briefing.</div> <div><div>✓</div> Craft induction sessions are held twice per month (one at Durham and one at Castleford).</div> <div><div>✓</div> Safety inductions are free of charge.</div> <div><div>✓</div> As part of the induction, operatives will undertake a simple practical test on low voltage network testing techniques.</div> <div><div>✓</div> On successful completion of the test, Northern Powergrid will notify the ICP that their operative has been inducted and passed the test.</div> <div><div>✓</div> Operatives unable to successfully pass the test will be notified to the ICP and authorisation certificates will not be issued by the ICP until the operative is able to demonstrate testing competence.</div> <div><div>✓</div> The ICP is responsible for refresher training and authorisation renewal.</div> <div><div>✓</div> All work on the distribution network will be carried out under the ICP's own Safety Rules, procedures and safety management system. The ICP's safety management system must have been approved under the National Electricity Registration Scheme and must meet the requirements set out in the Cric Code of Practice.</div> <div><div>✓</div> Northern Powergrid reserves the right to insist that an ICP suspends an operative's authorisation in the event of a serious safety or quality issue until such a</div>	<div><div>✓</div> The ICP must only use operatives who it has determined is suitably competent to carry out the works.</div> <div><div>✓</div> Operatives will attend a Northern Powergrid training centre and receive a face to face safety induction briefing.</div> <div><div>✓</div> Craft induction sessions are held twice per month (one at Durham and one at Castleford).</div> <div><div>✓</div> Safety inductions are free of charge.</div> <div><div>✓</div> As part of the induction, operatives will undertake a simple practical test on low voltage network testing techniques.</div> <div><div>✓</div> On successful completion of the test, operatives will be issued with a Northern Powergrid authorisation certificate specifying the scope of works permitted.</div> <div><div>✓</div> Authorisation certificates are renewed every 3 years.</div> <div><div>✓</div> The ICP is responsible for refresher training.</div> <div><div>✓</div> All work on the distribution network will be carried out under Northern Powergrid's Distribution Safety Rules and in accordance with its Operational Practices Manual.</div> <div><div>✓</div> Northern Powergrid reserves the right to suspend an operative's authorisation in the event of a</div>	N/A/ILV





Break

11.10-11.20



System Flexibility

Maurice Lynch
Head of System Flexibility

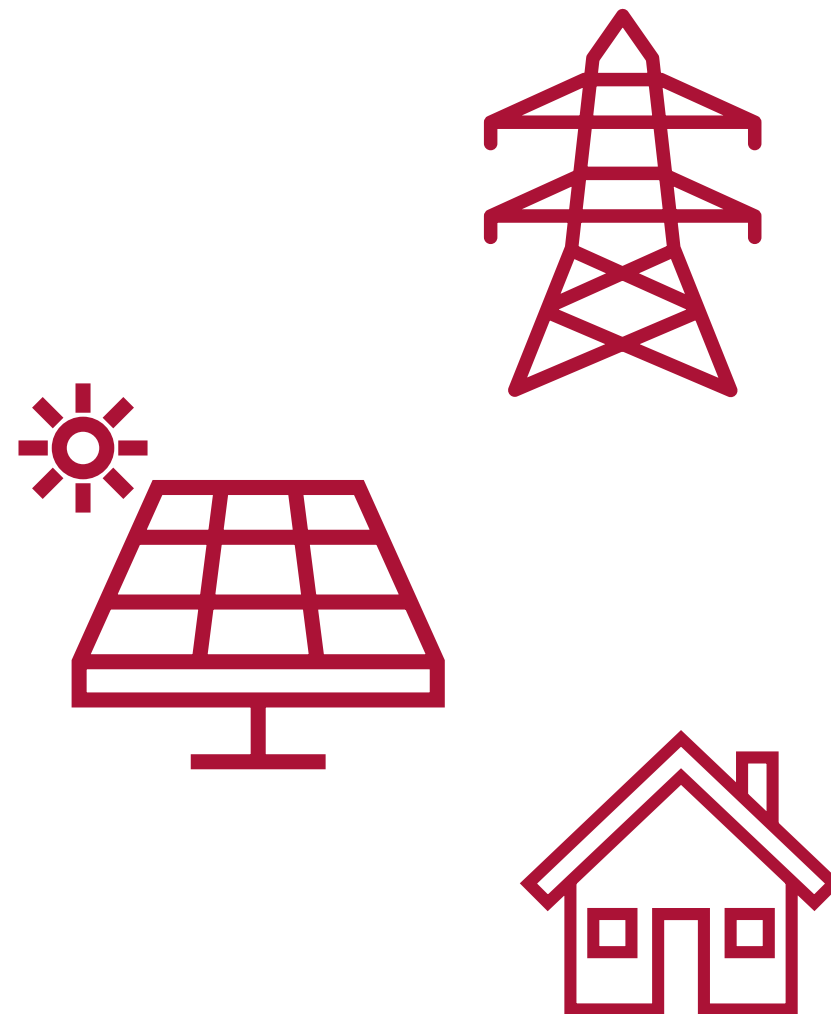
Introduction to Flexibility Services

- What is a Flexibility Service?
- Introduction to the team
- Where Northern Powergrid is procuring Flexibility Services - Spring 2024 opportunities
- Future engagement with ICPs and IDNOs



What is a Flexibility Service?

- This is an exciting new way for electricity users and generators to help our region meet its **Net Zero** energy goals
- A **Flexibility Service** is the turning up or turning down of electricity generation or consumption to support the management of constraints within the distribution network
- Customers can contract with **Northern Powergrid** to allow us to utilise this electricity demand and generation to provide flexibility in our network in return for financial payment



Who are Flexibility Services Providers (FSPs)?

Large electricity user with demand flexibility

e.g. refrigeration



Electricity storage operator

e.g. Battery Electrical Energy Storage (BESS)



Electricity generators

e.g. anaerobic digestion and biogas CHP system



Aggregated Services

e.g. energy users, businesses or households whose energy use is co-ordinated via an aggregator



How it works

- Northern Powergrid utilises **industry standards** to identify our flexibility needs and calculate the value for these services
- We establish where and when these services will be needed
- We signpost our flexibility needs to the market and use an online **Piclo Flex** procurement platform to run the tender process



- We offer contracts to **Flexibility Service Providers** across our network who can assist us responding to the networks need



Flexibility Services team



Maurice Lynch
Head of System Flexibility



Nicole Butterworth
Commercial Manager –
Flexibility Services



Chris Goodhand
Operations Manager



Liz Sidebotham
Commercial Manager –
Flexibility Services



Laura Brown
Commercial Manager –
Flexibility Services



Jeremy Meara
Operational Data &
Systems Manager



Alex Munnery
Commercial Manager –
Flexibility Services



Stefania Jobling
Flexibility Services Analyst

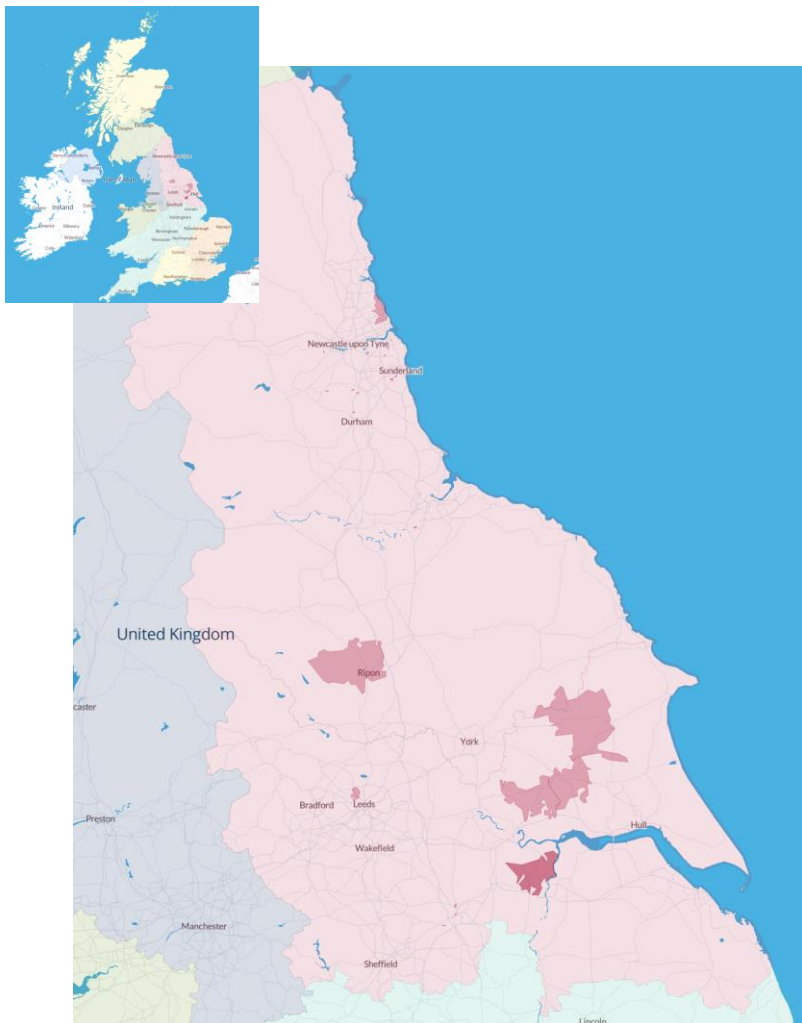


www.northernpowergrid.com/flexibility-services



flexibility@northernpowergrid.com

Spring 2024 opportunities

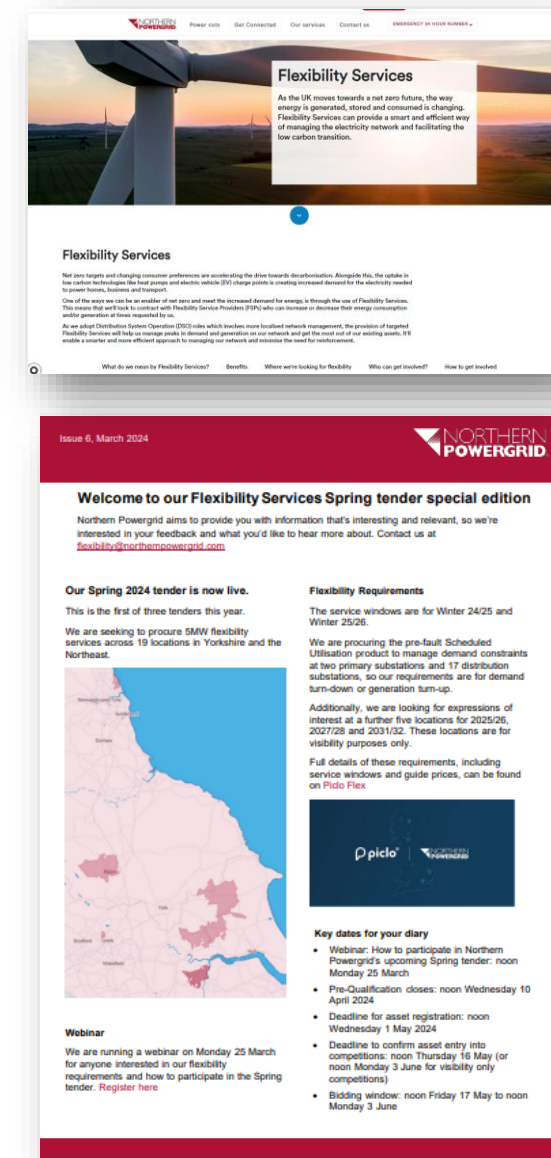


- Seeking services for Winter 24/25 and 25/26
 - Two primary substation zones
 - Scunthorpe (**Crowle**) and Market Weighton (**Southgate**)
 - Seventeen Distribution Substation zones

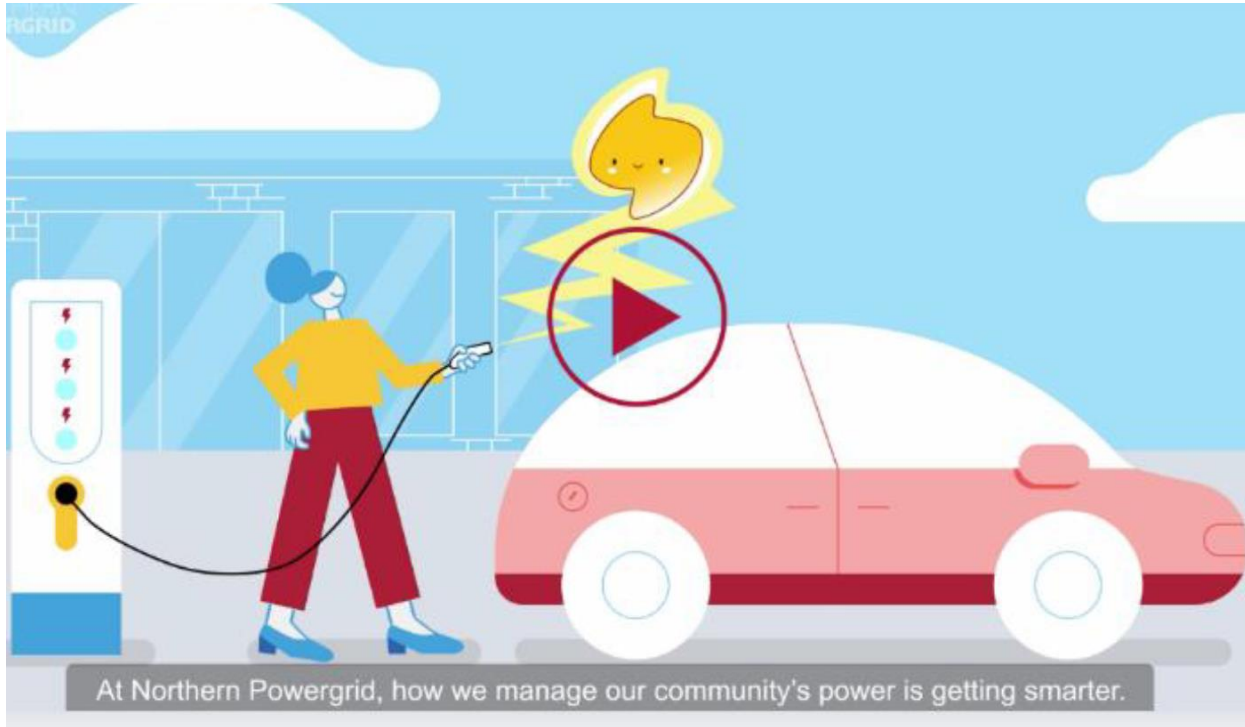
■ Sunderland - Barnes Park	■ South Shields - Marlborough Street	■ Durham - Woodbine Road
■ Stockton on Tees - Barwick Lane	■ Sunderland - Southend Road	■ Doncaster - Hazel Road
■ Sunderland - Boldon Drive	■ Gateshead - Wardley Hall	■ Bradford - Thornbury Avenue
■ South Shields - Boldon Lane South	■ Chester Le Street - Whitehill Park North	■ Doncaster - Westfield Park
■ Chester Le Street	■ Gateshead - Winlaton East	■ Doncaster - Yarborough Terrace
■ York - Garden Street		
■ Beamish - Lime Street		
- Also Seeking expressions of interest for five primary sites for future winters
 - Holme Upon Spalding Moor, Driffield (**Kirkburn**), Whitley Bay (**Monkseaton**), Leeds (**Moor Road**), **Ripon**

Future Engagement with ICPs and IDNOs

- **Let us know how we can help you!**
- 1-2-1 meetings with you and your clients
- Trilateral meetings with Piclo team
- Signup for our newsletter
 - flexibility@northernpowergrid.com
- Check out our website for more information
 - www.northernpowergrid.com/flexibility-services
- View our Spring Tender webinar
 - <https://engage.northernpowergrid.com/events/northern-powergrid-flexibility-services-spring-tender-2024>



Introduction to Flexibility Services



Contact Us



www.northernpowergrid.com/flexibility-services



flexibility@northernpowergrid.com

[Flexibility Services \(youtube.com\)](https://www.youtube.com/watch?v=Auxdgl2TWnk)

<https://www.youtube.com/watch?v=Auxdgl2TWnk>

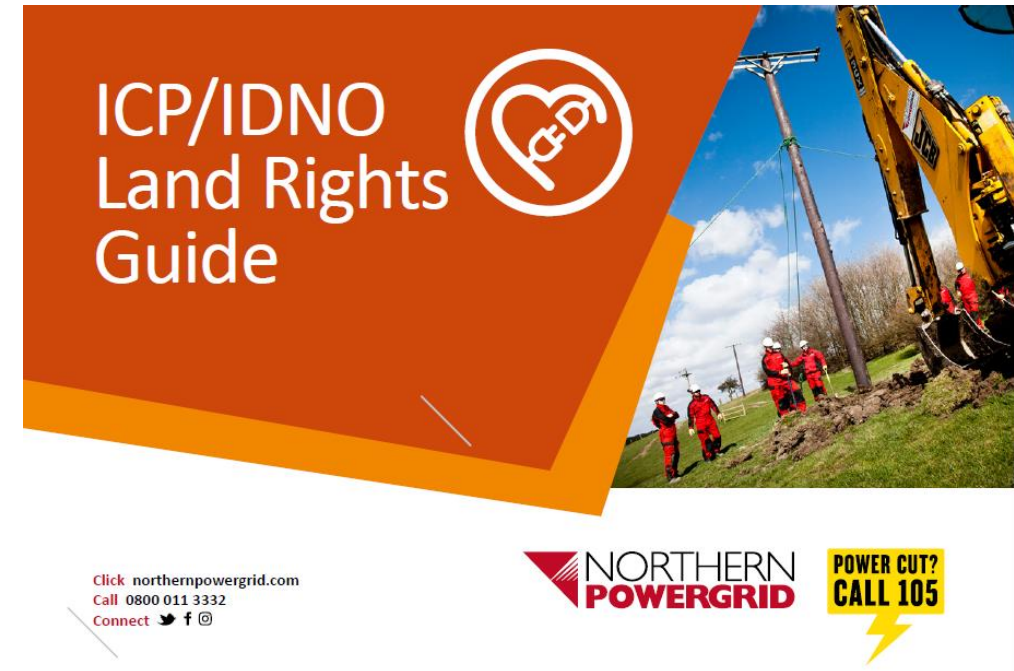


Wayleaves – Land Rights

Josh Bradley
Senior Wayleave Officer

Overview

- New Connections Wayleave Team
- What are land rights?
- Why are land rights required?
- Types of consents that may be required.
- Other statutory or non- statutory consents.
- Obtaining Land Rights ICP
- Obtaining Land Rights IDNO
- Incorporated Rights IDNO
- Reference Material



Wayleave Team

- Wayleave Team Manager – Nick Oliver
- Senior Wayleave Officer – New Connections – Josh Bradley
- New Connections - we have 18 Wayleave Surveyors , 4 Business Support Advisors covering our two licence areas, Northern Powergrid (Northeast) & Northern Powergrid (Yorkshire).
- Dedicated solicitors in an external law firms who deal specifically with our legal work – Jacksons Law.
- Also dealing with customer funded diversions.
- Other Wayleaves work streams look after EHV connections and non - customer funded diversions.



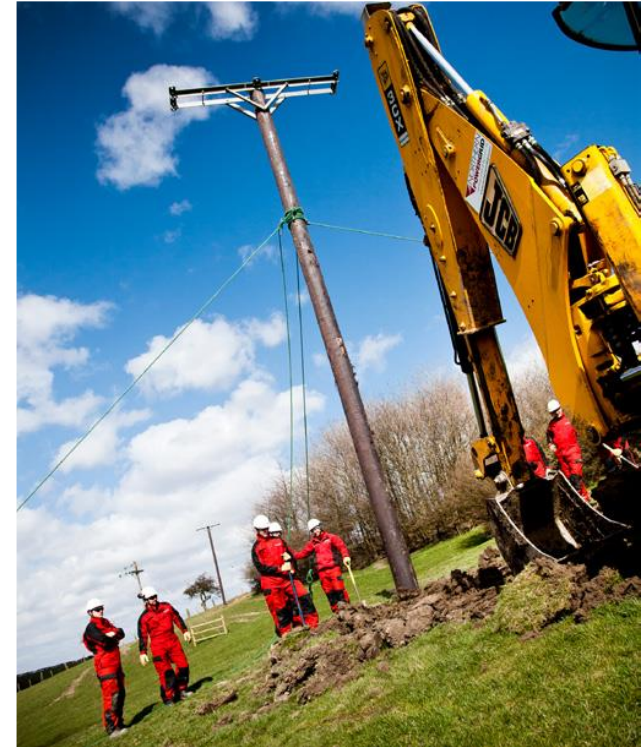
What are Land Rights?

- The term 'Land Rights' is used as a collective term to cover the acquisition of property rights, such as Freehold and Leasehold interests, Easements or Wayleaves, as well as consultations and statutory consents that may be required before connection equipment can be installed.



Why are Land Rights required?

- The DNO (Northern Powergrid) cannot install or utilise equipment required for a connection to our electricity network without the consent of the land owners (and occupiers) of any land affected by the work. (Requirement of the Electricity Act 1989)



Types of Agreements – O/H Lines & U/G Cables

Easement

- Documents executed as Deeds (Deed of Grant of Easement)
- A deed is a permanent right (usually, may be for fixed term)
- Can take 3-4 months to complete (needs solicitors)
- Typically completed for the development site but occasionally 3rd party easements may be required

Wayleave

- A wayleave is a personal licence (i.e. doesn't 'run' with the land)
- Wayleaves can be terminated
- Consent required from owner and occupier
- Used to cover apparatus through third party land
- Can be protracted as the third party has no interest in the scheme
- Difficult to provide timescales as 3rd party consents are outside of our control. Can be days or months

Types of Agreements - Substations

Lease

- Legal document completed by solicitors for substation sites.
- Normal term of the Lease is 60 years +
- Typically completed for industrial/commercial developments
- Lease of rights for integral parts of buildings.
- Would contain rights for access and cables

Freehold Transfer

- Legal document completed by solicitors for substation sites.
- Permanent interest in the land - owned by NPG
- Typically completed for housing developments
- Would contain rights for access and cables.



Other Statutory Consents and Permissions

- Planning

- **Overhead Lines**

- Development consent is required from LPA for minor alterations covered under The Overhead Lines (Exemption) Regulations 2009.
 - For more significant changes to the overhead network, full planning consent for overhead lines is required under Section 37 of the Electricity Act 1989 from the Department for Business, Energy and Industrial Strategy (BEIS) – this can only be done by the DNO.

- **Substations**

- If a new substation housing is required and is being supplied by the customer, it is the customers responsibility to obtain planning permission.
 - If housing is supplied by NPG and it has an internal capacity $\leq 29\text{m}^3$, this can be done by prior notification under Class B (a) of Part 15 Schedule 2 of the Town and Country Planning (General Permitted Development) Order 2015.
 - A proof of planning consent obtained will need to be provided before any legal's can be completed.

Other Statutory Consents and Permissions

– Environmental

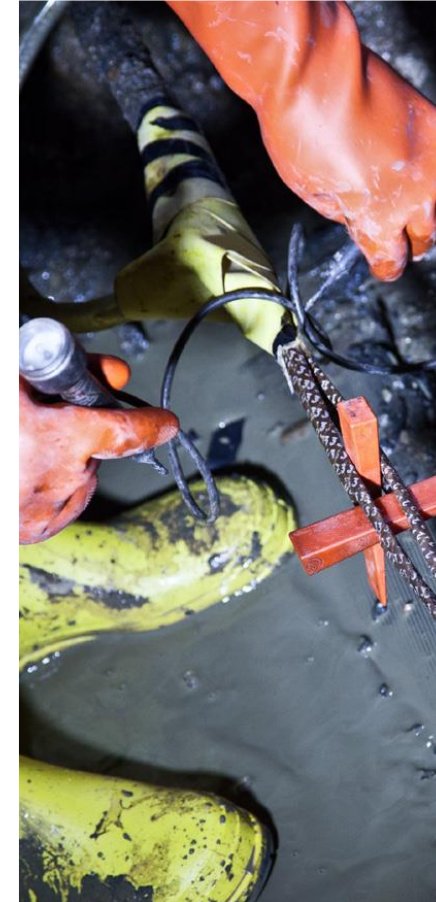
- consents and considerations required under our obligations of Schedule 9 of the Electricity Act 1989 (our duty as to Preservation of Amenity).
- These include but not exclusively:
 - *Sites of Special Scientific Interest,*
 - *Scheduled Monument Consents*
 - *Rivers,*
 - *Archaeological Consultations,*
 - *Tree Preservation Order's*
 - *Protected Species such as Bats, Badgers, Great Crested Newts, Rare Orchids etc.*
 - *Common Land/Village Greens*



Other Statutory Consents and Permissions

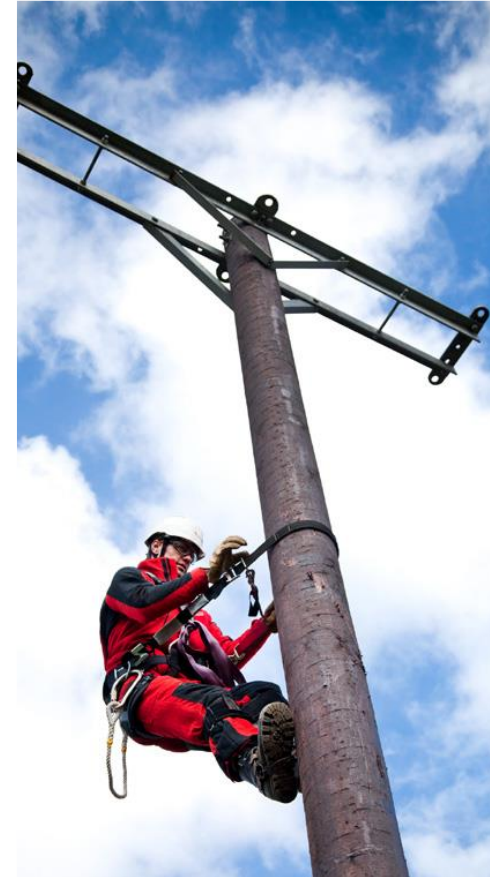
– Working in 'Adopted Highway'

- These are areas which are defined as 'streets' under the New Roads and Street Works Act 1991, usually include roads, verges, pavements and are maintained by the local authority.
- An ICP/IDNO will require a suitable licence to work in these areas.
- On some developments the maintenance of the new roads and pavements is to become the responsibility of the local authority under Section 38 of the Highways Act 1980.
- If the apparatus installed in these areas is to be the responsibility of NPG we will require S38 confirmation from the local authority that they will adopt the new roads or it will need to be suitably secured (Wayleave or Easement) prior to connection.



Obtaining Land Rights - ICP

- When an ICP carries out works on 3rd party land they must have initially obtained their own permission from the landowners (and occupiers) to carry out the construction/installation works of the connection equipment.
- This ICP consent should not only include the ICP's right of access and installation of the equipment but also their liabilities for reinstatement and damage.
- Prior to connection, NPG's standard agreements securing the land rights will need to be completed in the name of Northern Powergrid. This will set out the rights of access, maintain and replace the equipment from the date it is adopted from the ICP. Upon receipt, the scheme will then be cleared to the delivery engineer for connection.



Obtaining Land Rights - IDNO

- POC acceptance is allocated to Wayleave officer.
- Design Approved is sent to the allocated wayleave officer, they will determine if NPG require any property rights.
- If applicable, 3rd party Landowner and Legal Representative's details will be required, then NPG's solicitors will be instructed.
- Upon completion of the legal's, the scheme will be cleared to the delivery engineer for connection.



Incorporated Rights - IDNO

- This essentially allows the IDNO to negotiate on a 'subject to contract' basis with the landowner to give NPG suitable rights and security.
- Up on Design Approval the Wayleave officer needs to be issued with the proposed legal drawing and confirm it is acceptable.
- IDNO's solicitor will agree the required rights in line with the Incorporated Rights agreement.
- Up on provision of the completed document to the wayleave officer, and subject to any outstanding 3rd party consents being in place, the scheme can then be cleared to the delivery engineer for connection.




What do we need from you?

The wayleave officer will receive the pack post acceptance.




- Landowner Contact Details
- Landowner Solicitor Details
- Local Authority Highway Search (including, where applicable, any S38 adoption plans)
- Confirmation that agreement is in place regarding ICP asset installation (access and damages)


Reference Material


<http://www.northernpowergrid.com>

The image shows the cover of a guide titled "ICP/IDNO Land Rights Guide". The cover has an orange background with a white heart icon containing the letters "IDNO". To the right of the title is a photograph of a yellow excavator working on a power line pole, with several workers in red safety gear standing nearby. The guide is tilted slightly to the right.

ICP/IDNO
Land Rights
Guide

Click northernpowergrid.com
Call 0800 011 3332
Connect   

 **NORTHERN
POWERGRID**

**POWER CUT?
CALL 105**


Reference Material

- Model Agreements
 - Lease, Wayleave, Transfer
 - No alterations can be made to these without the approval of the NPG Wayleave Manager.
- Wayleave Payments
- Colouring of Plans
- Template Incorporated Rights Agreements

Contact Us

- Wayleave Admin Department
 - 0191 229 4604
 - wayleaveinstructions@northernpowergrid.com
 - Please quote ENQ number



Connections Policy Introduction

Drew Johnstone

Commercial Manager – Connections and Agreements

Connections Policy – Connections Operational Group (CoG)


The CoG is a connections working group, it consists of a mix of DNOs, ESOs, the ENA and occasionally IDNOs and Ofgem as required. Current work includes;

- ENA Electricity Connection Charges Regulations (ECCR) 2022
 - *ENA Guidance Document being updated, 95% completed.*
- Treatment of reinforcement costs for IDNO additional capacity requests
 - *Establishing a common approach and treatment across DNOs.*
- IDNO & ICP VAT application
 - *Potential VAT application changes, HMRC guidance being sort to ensure a common approach*
- Distribution Connection Use of System Agreement (DCUSA) changes
 - *Schedule 22 updates to DNO Common Charging Methodologies i.e. Access SCR changes*

Connections Common Charging Methodology (CCCM)

- The document consists of a Connection Charging Methodology and a Connection Charging Statement.
- The Connection Charging Statement provides the basis of charges for the provision of a connection whilst the Connection Charging Methodology describes the methodology under which Customers will be charged for a connection.
- The document also provides other information to explain the options available for obtaining a connection and the processes that need to be followed.
- Available to download on our website and covers item such as;


Information and Resources



Common Connection Charging Methodology (CCCM) Statements

Our Common Connection Charging Methodology statements describe how we develop our costs for connections.


- [Yorkshire PLC](#)
- [Northeast PLC](#)



Access and Forward-Looking Charges Significant Code Review

How customers access our network and how much they pay for connections changed from 1 April 2023.

[Find Out More](#)



Customer events and surgeries

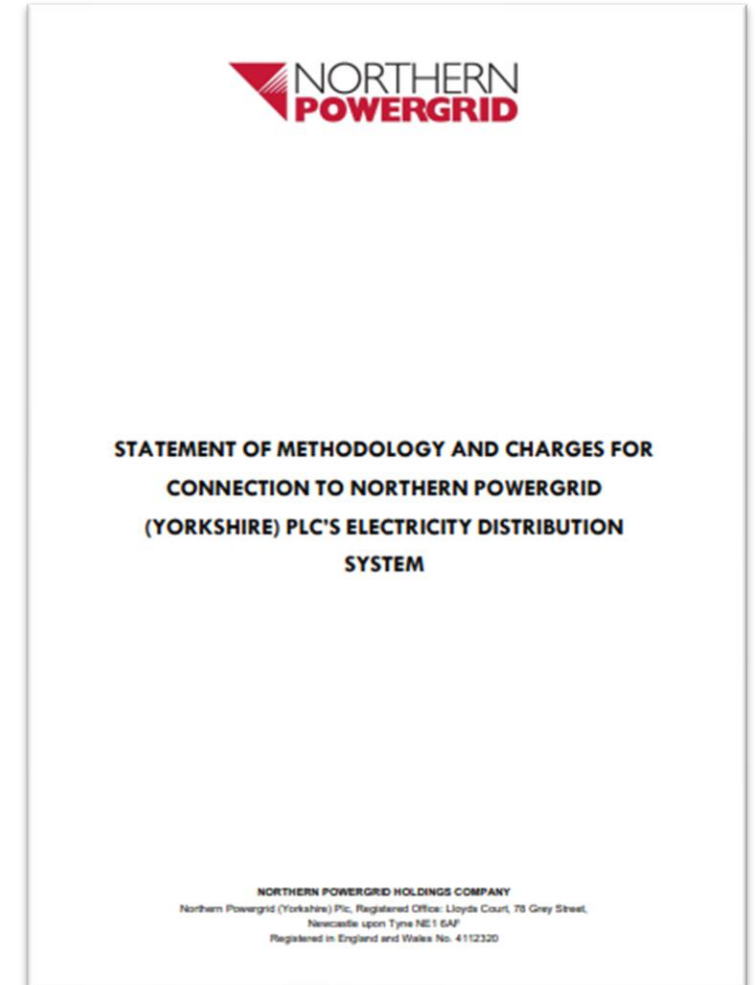
We have a range of customer events throughout the year, we'd love to see you there. At our customer connections surgeries we will have experts on hand to help you with finding potential solutions for your project needs and future requirements.

[Find Out More >](#)

<https://www.northernpowergrid.com/get-connected>

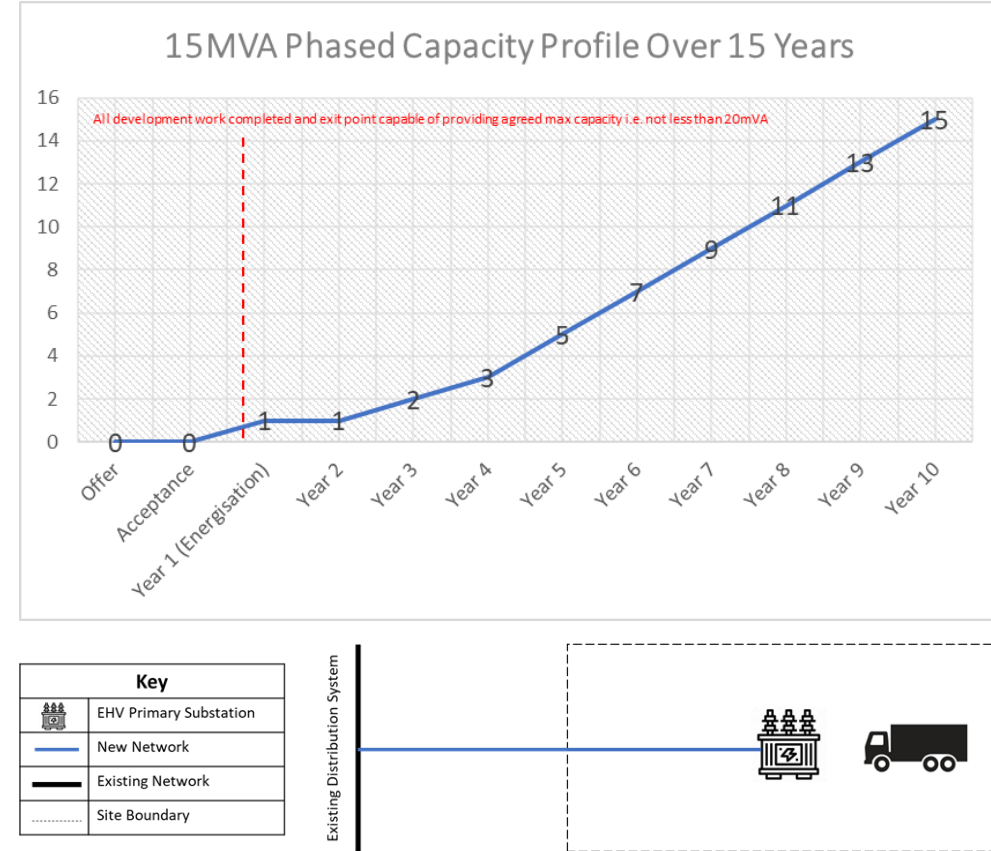
Connections Common Charging Methodology (CCCM)

- Competition in Connections Process
- Application Process
- Interactivity
- Connection Offer Expenses
- Connection Offer Validity
- Connection Offer Margins
- Minimum Scheme
- Cost Apportionment
- Capacity Ramping for IDNOs
- Land Rights
- Inspection and Monitoring



Connections Policy – Phased Capacity Sites

- Introduced with Access SCR changes in April 23
- Similar to capacity ramping for IDNOs
- Intended for HGV EV charging points to allow capacity growth over a defined phased capacity profile and period but suitable for other similar connections
- Means customers only pay charges for capacity being used rather than on the total capacity reserved
- New internal Code of Practice and Policy created
- Next steps – revisit Capacity Ramping for IDNO's using core principles of Phased Capacity Sites



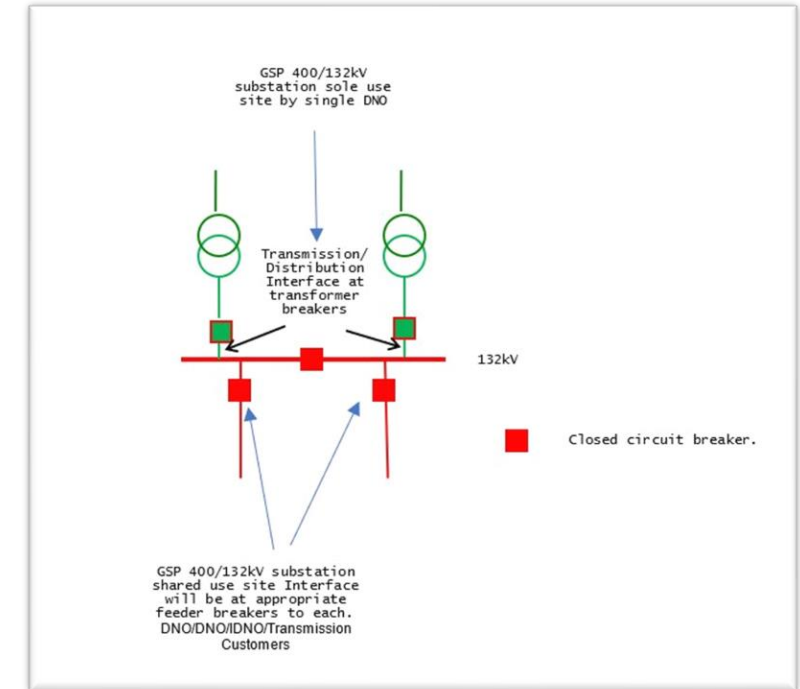
Connections Policy – Transmission Charging Reform (TCR)

Transmission Connection Point (TCP) charges are the costs of reinforcing Grid Supply Points (GSPs) or building new GSPs due to demand or generation growth on Distribution networks.

New GSPs/reinforced GSPs are driven by increases in import and export capacity onto the Transmission network.

Ofgem have asked the TCR working group to look at;

1. Alignment of approach across DNOs (socialise or recover direct)
2. Short term changes to allow customers to connect quicker and reduce transmission queues.
3. Long term reform i.e. options including the potential to socialise costs at TUoS level rather than DuoS.



Any Questions?



Group Discussion

Emma Williams
Health & Safety Delivery Manager

Powering your Safety: Eco Online Goes Live EcoOnline

Digitalisation of Hazard & Near Miss Reporting

We are making it easier for you to report hazards, near miss incidents and stop the job situation when working **on our network/attending our assets.**

Instead of calling the '159' Number 01977 605 159 to report a Hazard / Near Miss / Stop the Job situation you can now do this online.

We will issue you with a [URL](#) and a QR code – allowing easy access from a desktop or mobile device.

The URL and QR code directs you to an Eco Online report for you to submit a Hazard / Near Miss / Stop the Job situation.



What is staying the same:

You are still expected to call **01977 605 159** for any accidents when working **on our network/attending our assets.**

You are still expected to call the below license area numbers for urgent requests relating to our assets.

Northeast – **0800 668 877**

Yorkshire – **0800 375 675**

Need help:

Email - healthsafetytraining@northernpowergrid.com

In summary our reporting mechanisms when working on our network/attending our assets

1. **Urgent requests /emergency situations** – call the NPg number: Northeast – **0800 668 877** / Yorkshire – **0800 375 675** or **105**.
 - **Examples** - substation access/egress or security concerns, cable damage (stressed/fault state), discovery of bypass/illegal tamper (if applicable), stolen earthing in substations, substation roof leak directly over switchgear etc...
2. **Hazards, near miss incidents and stop the job situations** – use ECO Online by using link or scanning barcode.
 - **Examples** – shallow cables, tile tape missing, substation audible discharge, missing switchgear/LV feeder labels, missing trench covers, missing rubber mat, substation lights not working, damaged building fabric, etc...
3. **Accidents/Incidents** – call **01977 605 159**
 - **Examples** – when an injury has occurred.



Lunch

12.00-13.00



Drop-in sessions - 13.00-14.00

- Wayleaves
- Lloyds
- Information Management – as laids
- Connections Delivery
- DSO Open Data Portal
- Design



Q&A



Closing Remarks

Mark Johnston
Head of Major Connections



**Thank you for your time
and participation today.**