Pelectricity

Bringing energy to your door

書圖書命書

Distributed Generation HV / EHV workshop

July 2022





Start & Agenda	
Connections Restructure	
Flexibility Services	
BESS Strategy - P28 Modelling	
Significant Code Review Update	
Appendix G	
Accelerated Loss of Mains Change Programme	
ICE Update	
Questions & Close	

Meet the Team





Martin Edmundson Customer Experience Development Manager

Ami Mathieson

Incentive on Connections Engagement Manager



Fiona Tyrell

Connections Stakeholder Engagement Manager



Hannah Sharratt

Connections Change Manager



Simon Taylor Pre application and Triage Manager

Brian Hoy Head of regulations

Steffan Jones Head of Connections Quotations

John Carlisle

Head of Connections Operations



Connections Reorganisation





Connections is changing: We need to meet the needs of customers and our stakeholders. Therefore we must ensure our focuses are aligned with their needs and a change in structure will help achieve this.

Increased expectations

This is an expectation from stakeholders and Ofgem, that we provide more upfront support to help customers understand what they need. With continued customers expectations increasing.

Net zero

The Green Agenda acceleration is leading to increased volumes of connection requests. The transition to DSO will introduce new processes to connections.

Regulatory changes

The Access and Forward-Looking Charges Significant Code Review will have a significant change on how connections are charged.

- ED2 refers to our next price review period, which runs 2023 to 2028. As part of our business plan we have developed three core principles for connections.



Principle 1: Support connection stakeholders prior to making a connections application by providing accurate, comprehensive and user-friendly information.

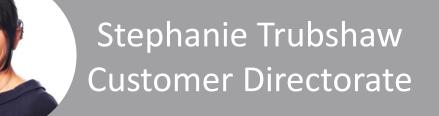


Principle 2: Deliver value for customers by ensuring simplicity and transparency through the applications process.



Principle 3: Facilitate the delivery of timely and economical connections that meet customers' needs.

Connections Structure



Brian Hoy



Regulation & Compliance

 Role will remain the same focusing on regulations and compliance.

Martin Edmundson



Customer/Stakeholder Engagement & Pre Application

- Stakeholder & Customer Engagement
- GSoP reporting
- Registrations
- Customer communications

Stephen Glasgow



Delivery of all Domestic & LCT

- Domestic & LCT quotations & Delivery
- CSAT measure
- TTC & TTQ
- GSoP

Steffan Jones



Delivery of all Quotations

- All quotations other than domestic
- DSO & strategic planning design and policies
- GSoP

John Carlisle



Delivery of all non domestic construction

- Delivery of all non domestic connections
- Single point of Contractor Management
- GSoP

Principle 1



Principle 1: Support connection stakeholders prior to making a connections application by providing accurate, comprehensive and user-friendly information.

Customer engagement:

- Building relationships to make it easier to do business with ENWL
- Providing skilled people providing an advice service & support preapplication away from delivering quotes
 - Enhance welcome information
- How to get started, what we can do for you, what you can expect



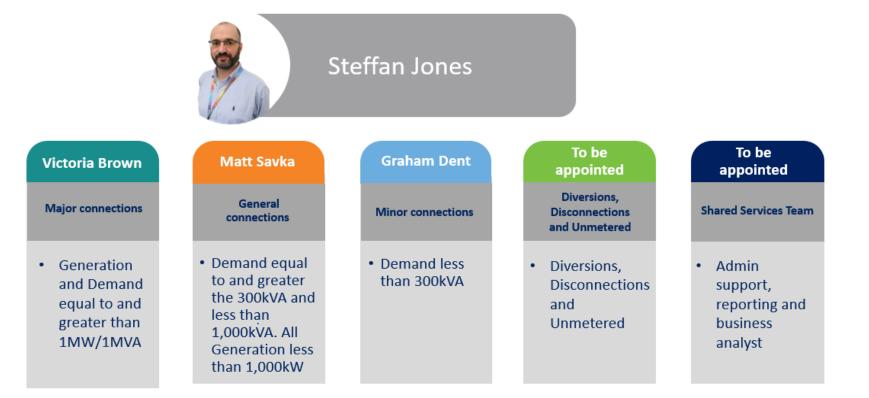
Principle 2



Principle 2: Deliver value for customers by ensuring simplicity and transparency through the applications process.

Application process:

Focusing on utilising all our resource to deliver customer quotes with clear ownership on customer service, compliance and driving a value for money service



Principle 3

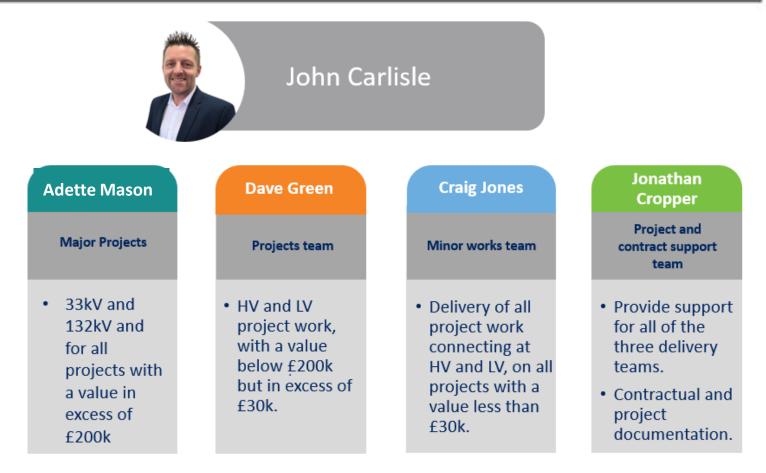




Principle 3: Facilitate the delivery of timely and economical connections that meet customers' needs.

Delivery: Management of construction and build activities across a range of delivery methods enhancing the customer journey to:

- Deliver value for money for all of our stakeholders
- Deliver timely connections
- Deliver against your requirements
- Deliver a consistent approach across the Electricity North West Regional area



New Customer Engagement team focus on stakeholder engagement

- Ensuring we understand customer's expectations and requirements
- Aim to meet customer's needs

Separate Quotations team delivering consistency for customers

- Increased segmentation /more tailored service by size of the connection i.e. LV, HV, EHV
- Work with DSO to drive efficiencies
- Increase focus on delivery partners

Delivery team increase focus on delivery partners

- Divided by size of the connection i.e. LV, HV, EHV
- Delivering consistency for customers by segmentation /more tailored service

Flexibility Services





When the demand for electricity is greater than the amount that we can provide, flexibility services are procured to alleviate constraints on our network during peak times

These services are provided by companies or individual customers who own assets in our region such as generators, battery storage and EV charge points that can generate more or use less electricity when required

This allows us to balance supply and demand, ensuring a safe and reliable supply of energy for our customers



In return for providing extra capacity to the network, Flexibility providers will receive payment from the network

Our flexibility tenders

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Location specific	Small entry requirements	Assets	Types of flexibility	Common products
	50kW			
We procure flexibility services as an alternative to reinforcement in areas where a constraint has been identified on the network	Our minimum capacity requirement is 50kW either from an individual asset or as part of an aggregated portfolio	 Industrial Commercial Aggregated domestic and non domestic portfolios 	 Generation turn up/down Demand turn up/down Energy efficiency measures 	We procure four common products (response types) • Sustain • Secure • Dynamic • Restore

What we've done so far



Since 2018



Flexibility requirements map

Kendal ap Spring 2022 🔺 53 te vour own. W 23 - Delivery start date 11/1/2022 iright W 23 - Months required Nov 22-Apr 23 W 23 - Times required 11:00-20:00 W 23 - Days required Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday Askam & ampnDalto W 23 - Estimated availability hours 196 W 23 - Estimated utilisation hours 48 W 23 - Guide price e My Maps £33,419

Select an icon to expand the details of each site requirement

You can find this map on our:

- Flexible Services homepage
- <u>Current requirements page</u>

The grey icons correlate to the information in the NDP, showing you whether a site is expected to require flexibility in the next **3-5** or **5-10** years.

Developments and Commitments





We publish tenders twice per year in Spring and Autumn. Our Autumn 2022 tender will include opportunities to participate for the whole ED2 period 2023-2028.



We will be launching a consultation in the next few weeks asking stakeholders for their input into our current flexible services tenders and if/how we can improve them in future.



We will continue to utilise the ENA CEM tool to evaluate requirements for network investment; the value of flexible services; and subsequently any tender offers received. We are currently leading the development of a good practice guide.



We have developed a cost calculator for flexible services to assess their tender offers before submitting them to ensure that they are within the cost cap for the zone.



We will re-tender for the market platform(s) we use for Flexible Services Procurement, Dispatch, and Settlement on a regular basis through the course of ED2 to ensure market competition in this area.



QUESTIONS & ANSWERS



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0800 195 4141



facebook.com/ElectricityNorthWest





linkedin.com/company/electricity-north-west



youtube.com/ElectricityNorthWest

Please contact us if you have any questions or would like to arrange a one-to-one meeting

BESS Strategy Proposed policy change







- Since August 2021 there has been a change to the way BESS are studied these slides will take you through our proposed solution with the aim to understand if this would deliver on your needs:
 - Connection studies assume BESS sites operate in the same markets or will operate in the same markets in the future.
 - Potential for simultaneous operation of sites on receipt of signals coincident power swings
- This has led to a dramatic change in headroom available to BESS from a voltage point of view, as P28 is becoming harder to work within (3% for system intact)
- Note Engineering Recommendation P28 is a Distribution Code document and therefore must be applied by DNOs to new connections.

Issue – no headroom



S. No.	GSP / Site	Highest V step	Busbar (with highest diff)	Number of Busbar > 3%	Total BESS Real Power at Gen Mode (MW)	Total BESS Reactive Power at Gen Mode (MVAr)	Total BESS Real Power at Load Mode (MW)	Total BESS Reactive Power at Load Mode (MVAr)
1	<u>Bredbury</u>	4.02%	welkin_33	39	102.6	0	-102.6	0
2	Carrington	3.89%	taylor_LV	1	16	0	-16	0
3	Harker/Hutton	4.81%	roosco_11_a	136	179.9	0	-100.5	0
4	Heysham	4.76%	kidds_0.55	49	250	0	-250	0
5	Kearsley & Kearsley Local	5.28%	shoret_11_a	169	121.5	0	-120.5	0
6	Kirkby/Washway Farm	4.14%	steelp_33_a	95	280	0	-280	0
7	Macclesfield	1.19%	hulley_33_a	0	20	0	-20	0
8	Padiham & Rochdale	6.19%	KingBP_33	359	409	0	-409	0
9	Penwortham East	5.66%	petcho_33_a	132	193.4	0	-193.4	0
10	Penwortham West & Stanah	6.31%	poultn_6.6_b	250	317.96	0	-307.96	0
11	South Manchester	2.81%	peakno_132_a	0	258.4	0	-262.5	0
12	<u>Stalybridge</u>	4.87%	tunste_33_b	101	112	0	-112	0
13	<u>Whitegate</u>	2.43%	zetex_6.6_a	0	50	0	-50	0
				1331	2310.76	0	-2224.46	0

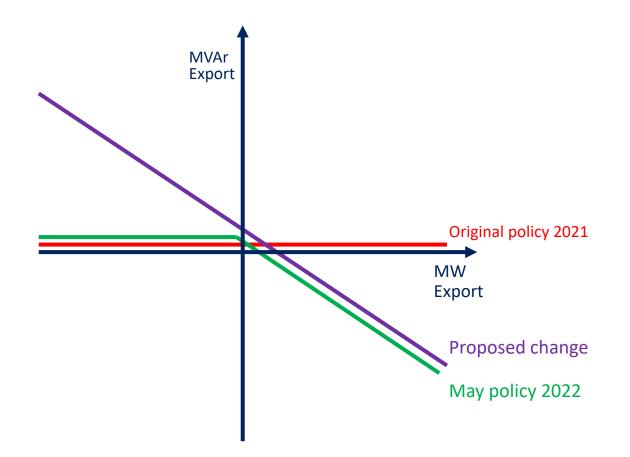
- Latest analysis shows that most of our current GSP groups are closed to battery technology due to P28 compliance
- Under our current method of study we are non-compliant and could potentially trigger significant reinforcement / network re-arrangement to fix

P28 Voltage step limit is 3%, credible outages should be considered



- Current analysis shows that 8/14 GSP groups are full to battery technology due to energised and accepted battery connections (c.2GW)
- There is no obvious solution to fixing this issue except:
 - Building more GSP groups and reconfiguring the network accordingly (to bring the network impedance down) (c. £5million)
 - Upgrading connections onto a higher voltage (on-cost to ENWL upwards of £2 million per intervention)
- These solutions are prohibitively expensive and not a good use of funding

Step change reduction – power factor control



- Power factor has a significant effect on voltage, particularly at 132kV and 33kV
- Original connection studies assumed unity power factor
- May 2022: change to use leading pf when exporting real power P – that is importing reactive power Q
- Unity pf for importing P this still created voltage step
- New proposal operate at leading power factor for both import and export of P

Benefits of Power Factor control

>	S. No.	. GSP / Site	Highest Difference	Busbar (with highest diff)	Number of Busbar > 3%	Total BESS Real Power at Gen Mode (MW)	Total BESS Reactive Power at Gen Mode (MVAr)	Total BESS Real Power at Load Mode (MW)	Total BESS Reactive Power at Load Mode (MVAr)
licy	1	Bredbury	4.02%	welkin_33	39	102.6	0	-102.6	0
0	2	Carrington	3.89%	taylor_LV	1	16	0	-16	0
	3	Harker/Hutton	4.81%	roosco_11_a	136	179.9	0	-100.5	0
Q	4	<u>Heysham</u>	4.76%	kidds_0.55	49	250	0	-250	0
	5	Kearsley & Kearsley Local	<mark>5.28%</mark>	shoret_11_a	169	121.5	0	-120.5	0
SN	6	Kirkby/Washway Farm	4.14%	steelp_33_a	95	280	0	-280	0
	7	Macclesfield	<mark>1.19%</mark>	hulley_33_a	0	20	0	-20	0
revio	8	Padiham & Rochdale	<mark>6.19%</mark>	KingBP_33	359	409	0	-409	0
:2	9	Penwortham East	5.66%	petcho_33_a	132	193.4	0	-193.4	0
a	10	Penwortham West & Stanah	<mark>6.31%</mark>	poultn_6.6_b	250	317.96	0	-307.96	0
Ľ	11	South Manchester	<mark>2.81%</mark>	peakno_132_a	0	258.4	0	-262.5	0
Δ	12	<u>Stalybridge</u>	4.87%	tunste_33_b	101	112	0	-112	0
	13	<u>Whitegate</u>	<mark>2.43%</mark>	zetex_6.6_a	0	50	0	-50	0
					1331	2310.76	0	-2224.46	0
	S. No	. GSP / Site	Highest Difference	Busbar (with highest diff)	Number of Busbar > 3%	Total BESS Real Power at Gen Mode (MW)	Total BESS Reactive Power at Gen Mode (MVAr)	Total BESS Real Power at Load Mode (MW)	Total BESS Reactive Power at Load Mode (MVAr)
	S. No . 1	. GSP / Site	Highest Difference	Busbar (with highest diff)					
c					> 3%	Mode (MW)	at Gen Mode (MVAr)	Load Mode (MW)	Load Mode (MVAr)
licy	1	Bredbury	1.37%	distis_11_a	> 3% 0	Mode (MW) 102.6	at Gen Mode (MVAr) -13.395	Load Mode (MW) -102.6	Load Mode (MVAr) 13.395
olicy	1 2	Bredbury Carrington	1.37% 1.75%	distis_11_a taylor_LV	> 3% 0 0	Mode (MW) 102.6 16	at Gen Mode (MVAr) -13.395 -3.249	Load Mode (MW) -102.6 -16	Load Mode (MVAr) 13.395 3.249
oolicy	1 2 3	Bredbury Carrington Harker/Hutton	1.37% 1.75% 1.78%	distis_11_a taylor_LV gleaston_33	> 3% 0 0 0	Mode (MW) 102.6 16 179.9	at Gen Mode (MVAr) -13.395 -3.249 -23.613	Load Mode (MW) -102.6 -16 -100.5	Load Mode (MVAr) 13.395 3.249 15.643
	1 2 3 4	Bredbury Carrington Harker/Hutton Heysham	1.37% 1.75% 1.78% 2.11%	distis_11_a taylor_LV gleaston_33 kidds_0.55	> 3% 0 0 0 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661	Load Mode (MW) -102.6 -16 -100.5 -250	Load Mode (MVAr) 13.395 3.249 15.643 27.661
	1 2 3 4 5	Bredbury Carrington Harker/Hutton Heysham Kearsley & Kearsley Local	1.37% 1.75% 1.78% 2.11% 2.70%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33	> 3% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250 121.5	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918	Load Mode (MW) -102.6 -16 -100.5 -250 -120.5	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715
	1 2 3 4 5 6	Bredbury Carrington Harker/Hutton Heysham Kearsley & Kearsley Local Kirkby/Washway Farm	1.37% 1.75% 1.78% 2.11% 2.70% 1.48%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33 orrell_33	> 3% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250 121.5 280	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918 -31.054	Load Mode (MW) -102.6 -16 -100.5 -250 -120.5 -280	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715 31.054
	1 2 3 4 5 6 7	Bredbury Carrington Harker/Hutton Heysham Kearsley & Kearsley Local Kirkby/Washway Farm Macclesfield	1.37% 1.75% 1.78% 2.11% 2.70% 1.48% 0.36%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33 orrell_33 hulley_33_a	> 3% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250 121.5 280 20	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918 -31.054 -2.85	Load Mode (MW) -102.6 -16 -100.5 -250 -120.5 -280 -20	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715 31.054 2.85
	1 2 3 4 5 6 7 8	Bredbury Carrington Carrington Harker/Hutton Heysham Kearsley & Kearsley Local Kirkby/Washway Farm Macclesfield Padiham & Rochdale	1.37% 1.75% 1.78% 2.11% 2.70% 1.48% 0.36% 3.22%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33 orrell_33 hulley_33_a widhil_132	> 3% 0 0 0 0 0 0 0 0 0 0 0 0 0 4	Mode (MW) 102.6 16 179.9 250 121.5 280 20 409	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918 -31.054 -2.85 -46.55	Load Mode (MW) -102.6 -16 -100.5 -250 -250 -120.5 -280 -20 -20 -409	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715 31.054 2.85 46.55
	1 2 3 4 5 6 7 8 9 10	Bredbury Carrington Carrington Harker/Hutton Heysham Kearsley & Kearsley Local Kirkby/Washway Farm Macclesfield Padiham & Rochdale Penwortham East	1.37% 1.75% 1.78% 2.11% 2.70% 1.48% 0.36% 3.22% 1.89%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33 orrell_33 hulley_33_a widhil_132 blackb_132_gt2	> 3% 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250 121.5 280 20 409 193.4	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918 -31.054 -2.85 -46.55 -23.581	Load Mode (MW) -102.6 -16 -100.5 -250 -250 -120.5 -280 -20 -409 -193.4	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715 31.054 2.85 46.55 23.581
oposed policy	1 2 3 4 5 6 7 8 9 10 11	Bredbury Carrington Harker/Hutton Heysham Kearsley & Kearsley Local Kirkby/Washway Farm Macclesfield Padiham & Rochdale Penwortham East Penwortham West & Stanah South Manchester	1.37% 1.75% 1.78% 2.11% 2.70% 1.48% 0.36% 3.22% 1.89% 2.07%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33 orrell_33 hulley_33_a widhil_132 blackb_132_gt2 poultn_33_t12	> 3% 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250 121.5 280 20 409 193.4 317.96	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918 -31.054 -2.85 -46.55 -23.581 -39.427	Load Mode (MW) -102.6 -16 -100.5 -250 -250 -120.5 -280 -20 -20 -409 -193.4 -307.96	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715 31.054 2.85 46.55 23.581 38.002
Proposed policy	1 2 3 4 5 6 7 8 9 10 11 11	Bredbury Carrington Harker/Hutton Heysham Kearsley & Kearsley Local Kirkby/Washway Farm Macclesfield Padiham & Rochdale Penwortham East Penwortham West & Stanah South Manchester	1.37% 1.75% 1.78% 2.11% 2.70% 1.48% 0.36% 3.22% 1.89% 2.07% 0.77%	distis_11_a taylor_LV gleaston_33 kidds_0.55 elcoal_33 orrell_33 hulley_33_a widhil_132 blackb_132_gt2 poultn_33_t12 peakno_132_a	> 3% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mode (MW) 102.6 16 179.9 250 121.5 280 20 409 193.4 317.96 258.4	at Gen Mode (MVAr) -13.395 -3.249 -23.613 -27.661 -18.918 -31.054 -2.85 -46.55 -23.581 -39.427 -26.315	Load Mode (MW) -102.6 -16 -100.5 -250 -120.5 -280 -20 -20 -409 -193.4 -307.96 -262.5	Load Mode (MVAr) 13.395 3.249 15.643 27.661 18.715 31.054 2.85 46.55 23.581 38.002 27.148

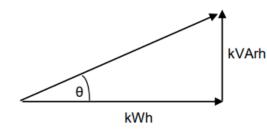
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Commercial considerations

- Batteries are not charged for excursions away from unity as long as it stays between ±0.95pf
- See extract from Use of System Charging Statement 2019
- They only pay for increased losses on their system
- Does not affect ability to export full MW rated value

2.49. Power Factor is calculated as follows:





2.50. The chargeable reactive power is calculated as follows:

Demand chargeable reactive power

Demand chargeable kVArh = max
$$\left(\max(RI,RE) - \left(\sqrt{\left(\frac{1}{0.95^2} - 1\right) \times AI} \right) 0 \right)$$

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

Questions

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- Can BESS operate in this power factor range?
- Can BESS alter power factor during operation?
- What are your initial views?

Voltage Level	Power Factor	PSE Guide
132kV	0.99	Leading in both directions
33kV	0.98	Leading in both directions
6.6 and 11kV	0.98	Leading in both directions

Power factor definition – "Leading in both directions" is defined as follows –

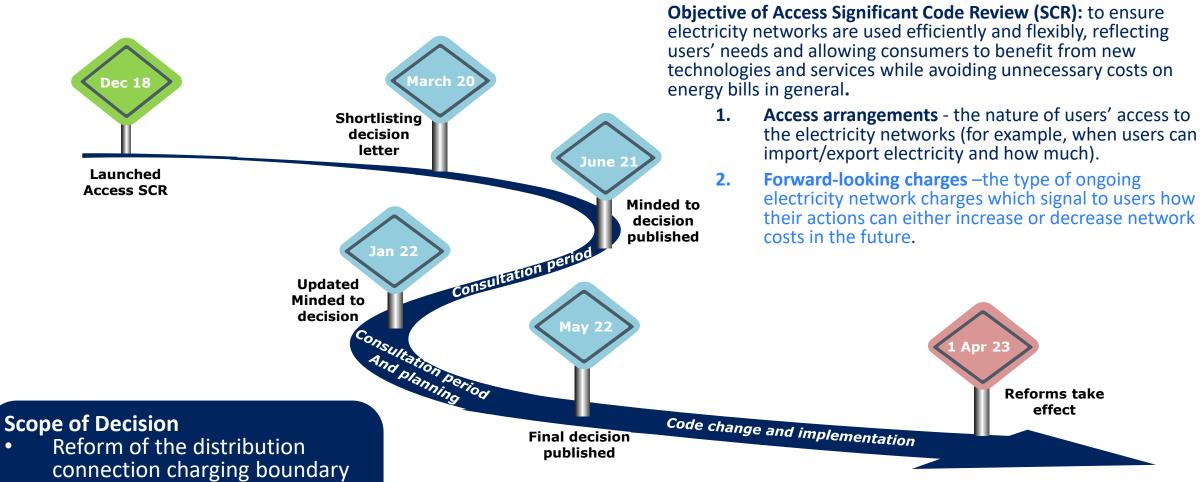
- BESS site should be Importing reactive power when exporting MWs
- BESS site should be Exporting reactive power when importing MWs

Ofgem's Access Significant Code Review Decision





Access Significant Code Review



 Improved definition and choice of access rights for distribution users

Reform of the distribution connection charging boundary 🏨 🏢

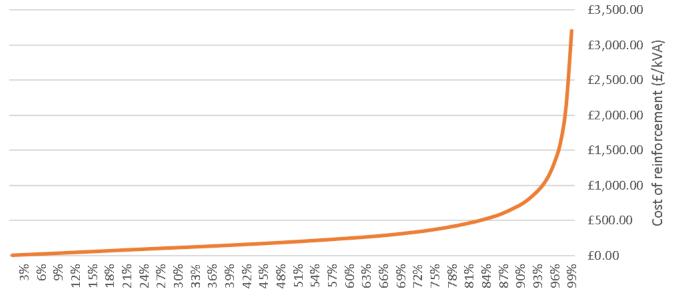
- Different charging arrangements for Demand and Generation connections
 - Demand no reinforcement charges
 - Generation reduced reinforcement charges
 - Storage treated as Generation
- Some exceptions...

	Extension assets	Reinforcement assets at connection voltage	Reinforcement assets at connection voltage +1
Current arrangements	Connecting customer pays 100%	Connecting customer pays a proportion of the reinforcement costs	Connecting customer pays a proportion of the reinforcement costs
New arrangements (Demand)	Connecting customer pays 100%	Fully funded by the DNO via DUoS	Fully funded by the DNO via DUoS
New arrangements (Generation)	Connecting customer pays 100%	Connecting customer pays a proportion of the reinforcement costs	Fully funded by the DNO via DUoS

Exceptions



Figure 3: Connection offers issued by DNOs over the course of RIIO-ED1 to date, rank ordered by reinforcement cost percentile on the x-axis and cost of reinforcement in £/kVA on the y-axis



Connection offers rank ordered by reinforcement cost percentile

- High Cost Thresholds customer pays for reinforcement above threshold
 - Retained for Generation at £200/kW
 - Introduced for Demand at £1,720/kVA
- Speculative Developments reinforcement charged in full
 - Approach retained but further clarity needed
- Three phase connections/supply voltage
 - If customer requires three phases where not necessary for the capacity requested then would pay for reinforcement in full

What are Access Rights?

• Network access rights define access to the network and the capacity connectees can use, eg Level of import or export, when and for how long, and whether access can be interrupted.

When would they be used?

- Could be used as a interim solution to facilitate an earlier connection whilst reinforcement is undertaken
- Could be an enduring solution where customer can choose to avoid reinforcement charges
- Defined in relation to the time users could be curtailed
- Customer will be protected from risk of DNOs exceeding agreed level of curtailment

Curtailment definition

- Defined as action by DNO to restrict conditions of a connection:
 - excludes customer interruptions
 - excludes interruptions resulting from the transmission network

How curtailment limits will be calculated

• DNOs to define and agree common, repeatable approach for calculating limit

Duration of non-firm arrangements

- Proposal for explicit end dates for non-firm arrangements
- Dates should allow time for wider development to take place

What happens if curtailed above limits

- DNO needs to procure flexibility service from market
- Cap will be introduced on the price DNO pays for the flexibility service.
- DNOs will pay customers when curtailment exceeds limit

The Ofgem Decision includes a Direction for DNOs to raise code changes to codify these reforms

Four DCUSA change proposals have been raised and working groups established

DNOs are required to submit final DCUSA changes to Ofgem by end October 2022

All changes need to be ready for implementation for **1 April 2023**



✓ Webinar to review Ofgem SCR decision planned 27th July 13:00 – 14:30
 ✓ Sign up online
 ✓ Recording will be available online afterwards
 ✓ Any questions ICE@enwl.co.uk

• To receive further updates, please sign up to our distribution list here

Appendix G & Project Progression





•Established on a GSP basis via a Project Progression study triggered by ENWL. All GSPs on the ENWL network have Appendix Gs in place.

•Appendix G provides Materiality Headroom, for both thermal capacity and fault level at each GSP.

•Captures all the Distributed Energy Resources (DER) at 1MW or larger that are either connecting or connected at the GSP by date and technology.

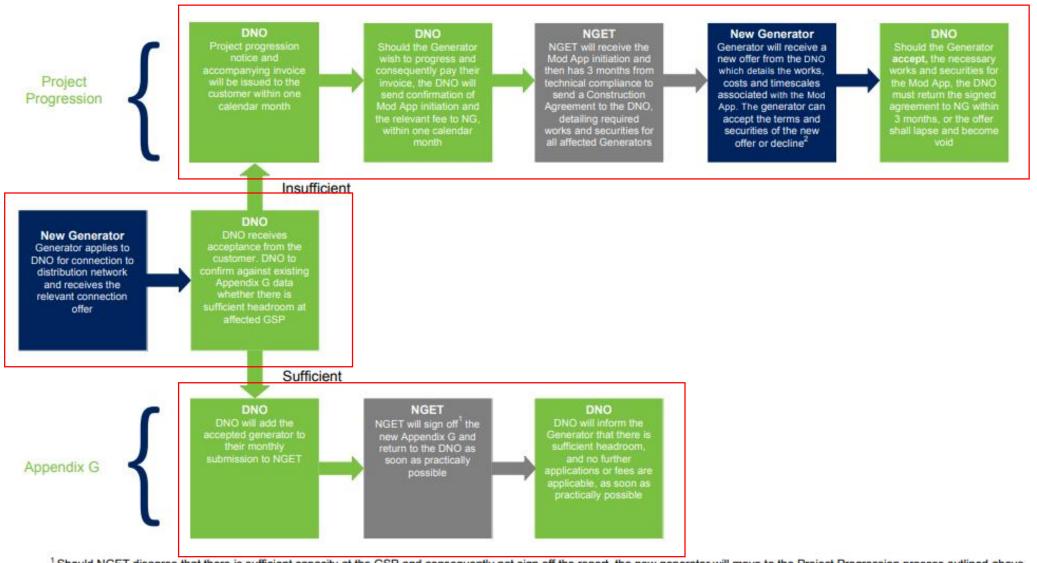
•ENWL provides a monthly update to NGESO for each Appendix G to add, amend and remove DER within the given Materiality Headroom limit.

•Any new connecting DER that is outside of the Materiality Headroom for Thermal and/or Fault Level at any GSP requires a Project Progression to be invoked.





Appendix G Process



X

¹ Should NGET disagree that there is sufficient capacity at the GSP and consequently not sign off the report, the new generator will move to the Project Progression process outlined above

² Should You decline the terms and not wish to progress, please note this will be a full withdrawal of Your generation connection offer

All GSPs on the network are broken down into 3 groups: GSPs with Materiality Headroom to connect, GSPs without Materiality Headroom and require a Project Progression or have a Project Progression triggered awaiting a response/acceptance and GSPs where there is insufficient capacity to connect further generation without works on the Transmission network.

GSPs with Materiality Headroom

- Carrington
- Macclesfield
- Stalybridge
- Stanah
- Whitegate

GSPs requiring a PP

Data Submitted but Clock Not Started

- Bredbury
- Kearsley
- Kirkby

Offer with ENWL

- Padiham
- Penwortham
- Rochdale
- Heysham
- South Manchester
- Washway Farm

<u>GSPs with Transmission Works</u> <u>Triggered</u>

• Harker (Switchgear Replacement and SGT Replacement)

• Hutton (Switchgear Replacement and SGT Replacement)

Heat Map

•Tab 6 on the ENWL heatmap lists the status of each GSP and is updated monthly. •For those customers connecting at GSPs with a PP, further information on charges can be found on the NGESO website

Any Questions?

Accelerated Loss of Mains Change Programme







- The Accelerated Loss of Mains Change Programme (ALoMCP) has allowed generator owners to apply for funding to make the necessary changes to their equipment to ensure compliance against an updated regulation. The change means that all existing generation with loss of mains protection must meet the current protection settings required for any new generation and upgrades must be completed by 31st August 2022.
- The opportunity to apply for funding has now closed, but there is still time for generator owners to make the changes and inform us that they are compliant.
- Any generators that are not compliant after 31st August 2022, will be subject to an enforcement programme, which may result in de-energisation.

WEEK O	WEEK 4	WEEK 8	WEEK 16	WEEK 22	WEEK 26
First notice	Second notice	Third notice	Fourth notice	Final notice	de-energisation
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.	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.	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.	Repetition of second notice.	Repetition of second notice.	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.

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• <u>ALoMCP@enwl.co.uk</u>

- <u>https://www.enwl.co.uk/get-connected/network-information/accelerated-loss-of-mains-change-programme/</u>
 - <u>https://futureproofyourpower.co.uk/</u>

ICE Update





ICE 2022-23 Workplan Performance

We will brief stakeholders on the changes to connection charges being made by Ofgem	Session arranged 28 th July
We will develop reporting mechanisms for Queue Management principles in conjunction with other DNOs.	Draft has been developed and circulated to DNOs for comment. Update to follow
We will publish and share our Network Development Plan with our stakeholders	Update in today's session
We will continue to communicate with our stakeholders. We will issue quarterly updates on ICE Commitments to registered stakeholders.	Q1 newsletter published
We will keep stakeholders informed on the transition of Distribution Network Operators (DNO) to carrying out enhanced Distribution System Operation (DSO) functionality	Update in today's session, further updates to follow.
We will continue to offer opportunities for stakeholders to engage with us. We will offer a minimum of 3 engagement opportunities across webinars and workshops. We will also provide surgery sessions to meet	Upcoming workshop in September

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ICE 2022-23 Workplan Performance

We will continuously improve how we provide information and publish requirements for flexible services . We will publish information and guidance on how to get involved. Working collaboratively with other DNOs we will look to standardise & simplify the flexible services process.	Update received today.
Target Time to Quote timescales for HV Quotations. We aim to outperform the regulatory standard by providing quotes on average in 57 working days (compared to the guaranteed standard of 65 workings days)	43 working days
Target Time to Quote timescales for EHV Quotations. We aim to outperform the regulatory standard by providing quotes on average in 57 working days (compared to the guaranteed standard of 65 workings days)	> 59 working days
	and publish requirements for flexible services . We will publish information and guidance on how to get involved. Working collaboratively with other DNOs we will look to standardise & simplify the flexible services process. Target Time to Quote timescales for HV Quotations. We aim to outperform the regulatory standard by providing quotes on average in 57 working days (compared to the guaranteed standard of 65 workings days) Target Time to Quote timescales for EHV Quotations. We aim to outperform the regulatory standard by providing quotes on average in 57 working days (compared to the

We would love to hear your feedback, please get in touch with either Lottie or Hannah should you have anything to discuss after the session. Feel free to add any comments in today's chat or email us <u>ice@enwl.co.uk</u>

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Your feedback is critical to ensure we develop commitments that support your needs. Please provide feedback by completing our survey <u>here</u> or email to <u>ICE@enwl.co.uk</u>

To receive further updates, please sign up to our distribution list <u>here</u>





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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>

