# Pelectricity

Bringing energy to your door

書圖書命書

# Distributed Generation HV / EHV workshop

March 2021

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## Meet the Team







#### Victoria Brown Grid & Primary

Programme Manager



Hannah Sharratt Stakeholder engagement & regulatory manager



# Keith Evans

DSO & smart grid engineering manager









#### 2020-21 ICE Workplan Update

- Overview
- Heatmap Tool Update
- Interactivity
- DSO Consultation
- Digital Strategy

#### **Future Business Planning**

- ICE 2021-22 Workplan Development
- 2023-28 Business Plans (RIIO-ED2)

#### Questions

#### Close

# 2020-21 ICE Workplan Update Overview





## DG HV/EHV Workplan – Update

DG HV/EHV Wo	orkplan –Update	畫	
Commitment	Output / Key Performance Indicator	Delivery Date	Performance
We will communicate with our stakeholders on <b>Engineering</b> <b>Recommendation G99</b> requirements for the connection of generation equipment	We shall share best practice and information on the latest national developments to support customers through a dedicated G98/G99 workshop and communicate updates throughout the year.	Q4	<ul> <li>✓ Dedicated workshop held February</li> <li>✓ Regular updates throughout the year</li> </ul>
We will target our <b>Time To Quote</b> timescales for HV quotations	We aim to outperform the regulatory standard by providing quotes on average in <b>57 working days</b> (compared to the guaranteed standard of 65 working days).	Q4	<ul> <li>Current year to date of 36 working days</li> </ul>
We will target our <b>Time To Quote</b> timescales for EHV quotations	We aim to outperform the regulatory standard by providing quotes on average in <b>57 working days</b> (compared to the guaranteed standard of 65 working days).	Q4	<ul> <li>Current year to date xx working days</li> </ul>
We will improve access to <b>Network</b> Information	We will produce and publish training material for use of our new <b>GIS</b> functionality.	Q3	<ul> <li>Network Asset Viewer training material and webinar published</li> </ul>
We will review recent improvements to communications on Transmission constraints.	We will survey stakeholders to highlight recent changes and seek feedback, and identify any further improvements.	Q2	<ul> <li>Surveys issued, no further improvements identified</li> </ul>
We will continuously improve how we provide information and publish requirements for <b>Flexible Services.</b>	We will promote asset registration. We will publish and promote requirements. We will explore further options for flexible services.	Q4	<ul> <li>Promoted via website and during webinars</li> <li>Requirements published</li> <li>Ongoing exploring of flexible services</li> </ul>

## DG HV/EHV Workplan – Update

Commitment **Output / Key Performance Indicator** Deliverv Performance Date We will brief stakeholders on the development of changes We will provide briefings for stakeholders on the proposed changes to Ofgem publications now deferred to 2021-Q4 to charges being made by charges through Ofgem's Significant Code Review 22 Ofgem We will review our processes We will engage with stakeholders to review and improve our processes as part of our **continuous** 04 Complete where appropriate. improvement to customer service. We will engage with our Initial feedback received. We will seek feedback on our new outage communications and define Q3 **Owner Operator Forum discussion due** stakeholders to improve further improvements, if required. outage communication March 2021 **Communication - BAU** Performance We will continue to offer We will offer surgery sessions, webinars and 2 workshops covering a range **Topic specific webinars** opportunities for stakeholders Q4 of topics. We will continue to offer 1 out of area workshop. On target to deliver 2 online workshops to engage with us. Quarterly newsletters issued We will continue to We will continue to issue quarterly updates on ICE Commitments and Tailored communications to keep our communicate with our Q4 Health and Safety via newsletters to registered stakeholders stakeholders. stakeholders informed

## Update to the Heatmap Tool

"We will further improve the heatmap tool by including information on the size ofg the largest feasible connection based on existing switchgear and a single circuit connection. This will supplement the values of total available capacity for further demand and generation, already listed for each substation."





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#### What's changed & why?

- As part of the Incentive on Connections Engagement (ICE) scheme, we are committed to listening to feedback from Stakeholders and using it to inform our annual ICE workplan
- Two years ago we launched our Heatmap Tool, which enables developers to assess the level of capacity availability for new connections to our network
- Feedback requested that we improve visibility of network information / capacity for HV connections
- To achieve this we agreed to supplement the values of the total available capacity, with the size of the largest feasible connection for an application (based on existing primary switchgear and a single circuit connection.)



### How have we implemented this?

- Previously the suitability for connection RAG status was determined by the total headroom available at the site for new connections
- This was confusing for some users, as the maximum single connection (particularly at HV) was often much lower than the quoted headroom figure, due to network constraints
- To address this we have updated the 11/6.6kV connections data to include the maximum circuit breaker rating (MW) at that Primary. Where there are multiple types of circuit breakers onsite the rating used in the Heatmap tool is the lowest
- On our results table, the RAG status has been updated to take into account the switchgear rating, and inform users as to which factor (switchgear or headroom) is the limiting value
- The online map will also display the switchgear rating details alongside the previously included values

#### Demonstration

#### Input example

Easting	485004
Northing	479026
Capacity (MW)	7.5
Connection Type	Demand – N-0

#### **Previous results**

#### New results

Duites and Calest			0 0 12	No longer shows as	Primary Subst	ation Location			Can Connact?	
	ation Location	Headroom (MW)	Can Connect? (RAG)	suitable for connection	Easting	Northing	Headroom (MW)	Max Single circuit connection (MW)	(RAG)	Limiting factor
Easting	Northing			due to switchgear rating						
389077	440584	13.3		due to switchgedi ruting	389077	440584	13.3	4.6		Switchgear Rating
383248	456995	5.9			383248	456995	5.9	12.0		Headroom
381025	469428	9.6			381025	469428	9.6	12.0		Headroom
381588	463721	7.5			381588	463721	7.5	12.0		Headroom
387571	439522	12.0		RAG remains the same	387571	439522	12.0	9.1		Switchgear Rating
386638	437064	17.1		as limiting value is the	386638	437064	17.1	7.2		Switchgear Rating
386020	438507	8.2		available headroom	386020	438507	8.2	4.6		Switchgear Rating
385446	437481	17.3			385446	437481	17.3	4.6		Switchgear Rating
385569	434469	13.7			385569	434469	13.7	4.6		Switchgear Rating
385349	433821	14.2			385349	433821	14.2	4.6		Switchgear Rating

Кеу			
	Capacity <90% of headroom		
	Capacity >90% & < 100% of headroom		
	Capacity >100% of headroom		

	Кеу	
RAG	Limiting factor: Headroom	Limiting factor: Switchgear rating
	Capacity <90% of headroom	Suitable
	Capacity >90% & < 100% of headroom	N/A
	Capacity >100% of headroom	Unsuitable

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#### Map Layout



#### ← Helwith Bridge (33 kV / 11... 🔶

Name Helwith Bridge (33 kV / 11 kV)

BSP Group Padiham

BCA Group (GSP) Padiham

Appendix G Summary (See GSP for More Details) Transmission Headroom Available

Firm Demand Headroom (MW) 0.6

Non Firm Demand Headroom (MW) 9.6

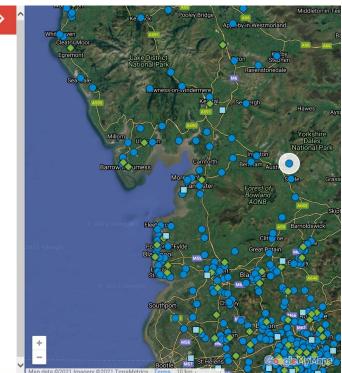
Inverter Based Generation Headroom (MW)
13

LV Synchronous Generation Headroom (MW)  $13\,$ 

HV Synchronous Generation Headroom (MW)
13

Battery Energy Storage Headroom (MW) 9.6

## New rating information appears on map extract as well



#### ← Helwith Bridge (33 kV / 11 k... 💠

Name Helwith Bridge (33 kV / 11 kV)

BSP Group Padiham

> BCA Group (GSP) Padiham

Appendix G Summary (See GSP for More Details) Transmission Headroom Available

Switchgear rating (MVA) 12

Firm Demand Headroom (MW) 0.6

Non Firm Demand Headroom (MW) 9.6

Inverter Based Generation Headroom (MW)
13

LV Synchronous Generation Headroom (MW)
13

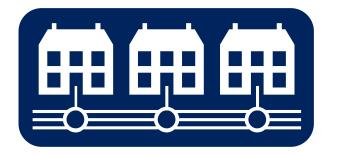
HV Synchronous Generation Headroom (MW)
13

Battery Energy Storage Headroom (MW) 9.6



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- The Heatmap tool is only intended to be used as an indicator during the early stages of a new application
- Dependent on circuit design and designed point of connection the available capacity may vary from the Heatmap tool indication upon final design.
- If the tool doesn't indicate capacity then feel free to arrange a consultation with the ENW connections team to further discuss your requirements.
- All the information on the Heatmap tool is correct at time of publication, the new switchgear information will be updated quarterly due to the infrequency of changes to primary switchboards
- Currently the changes only apply to Primary level (11/6.6kV) connections, as the method used is unsuitable for the complexity of the network associated with higher voltages
- The Heatmap Tool(s) are available for everyone and can be found on our website: <u>Heatmap Tool</u>

#### **Questions?**



## **Interactivity Process**

"We will adopt best practice identified through the Open Networks Project. We will keep our stakeholders informed on progress"









#### New process uses Unconditional and Conditional offers



Early warning notices to notify you of potential interactivity as soon as we are aware



No Moratorium period in new process



Acceptance/ validity period changed to 20 working days per applicant



Conditional offers are not required to make payment of the acceptance fee until their acceptance is declared as valid.



Over 100 notices have been sent out since the new interactivity process was implemented, including Early Warning Notices

All active interactivity queues are now operating on the Conditional process-this means that all currently interactive offers will expire at the end of the 20 working day period if they are not successfully accepted

In order to provide further guidance to our customers, we have created an Interactivity guide to walk through the new process and provide answers to some commonly asked questions and published this on our website

For those customers who were not able to attend our implementation webinar which we held in January, a recording of this is available on the interactivity page of the ENWL website

- If you receive an Early Warning Notice, it is likely that your Connection Offer will have a shortened acceptance period. Use this advance notice to prepare e.g. schedule any approval meetings needed.
- If you want to accept your offer, you must submit your signed acceptance (and payment if your offer is Unconditional) by the end of your validity period-this cannot be extended
- Remember to pay the A&D fee within 30 calendar days, if applicable to your scheme. *Interactivity does not pause A&D timescales*

If you have a query regarding a notification and/or Connection Offer please contact the engineer who sent the information

Further guidance can be found on the <u>ENWL website</u>, including the interactivity booklet mentioned on the previous slide For general queries regarding interactivity please contact interactivity@en wl.co.uk

#### Any further questions?

## Transition to DSO

"We will keep stakeholders informed on the transition of Distribution Network Operators (DNO) to carrying out enhanced Distribution System Operation (DSO) functionality"





#### Benefits of DSO transition



	mproved customer experience	<ul> <li>Improved customer experience though sharing of best practice within the ENA Open Networks project</li> </ul>
	Efficiency savings	<ul> <li>Increase utilisation of networks assets allowing for efficiency savings</li> </ul>
	Whole system investment	Improved whole system investment decisions through closer working relationships with other network providers
	Low carbon economy	• Facilitating the transition to a low carbon economy.
1 1 1 1 1 1 1 1 1 1 1 1 1 1	Increased flexibility	<ul> <li>Allowing all customers the ability, independent of size, to participate in energy trading and balancing</li> </ul>
	Increased productivity	<ul> <li>Increased productivity as a result of developing new modelling tools, implementing new systems, and improved automation</li> </ul>

#### What have we done so far?

#### **ENWL DSO consultations**

- In May 2020 we launched 3 DSO related consultations.
- The feedback was broadly supportive of our DSO strategies
- We will now review the plans based upon feedback and re-publish
- The feedback will also be used to inform our ED2 business plans
- We are still open to more feedback

https://www.enwl.co.uk/go-net-zero/our-plans-to-go-net-zero/dso/





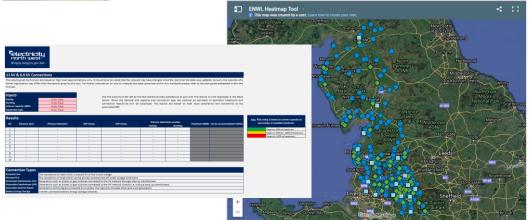


#### What have we done so far?



Distribution

Distribution Future Electricity Scenarios Documents <u>https://www.enwl.co.uk/get-</u> <u>connected/network-information/dfes/</u>



Heat Mapping Tools <u>https://www.enwl.co.uk/get-</u> <u>connected/network-information/heatmap-</u> tool/





Flexible Services <u>https://www.enwl.co.uk/go-net-</u> <u>zero/flexible-services/</u>

Carbon Plan <u>https://www.enwl.co.uk/go-</u> <u>net-zero/our-plans-to-go-net-</u> <u>zero/leading-the-north-west-</u> <u>to-net-zero/</u> Leading the born the set to be set t

#### **Flexible connections**

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#### We currently offer:

#### **System Normal Connection -**

connection is disconnected or constrained when there is a First Circuit Outage affecting the circuit supplying the customer or the local network.

#### Flexible connections to come:

**Export Limited Connection** - where installed generation equipment has a greater export capability than agreed levels.

**Timed Connection** - capacity restricted within specific time periods

Import Limited Connection - where installed equipment has a greater import capability than agreed levels

Active Network Management control systems modify import and/or export within agreed limits



Click for

More info

#### What have we done so far?

#### **Open Networks Project**

- Standardised flexible services agreements and product naming
- Developed joint FES methodologies
- Developed and consulted upon new interactivity and queue management processes
- Developed heat mapping good practice
- Created a <u>DSO roadmap</u> for UK's transition to DSO (including DNOs, TOs, ESO, ENA, BEIS, and Ofgem)

https://www.energynetworks.org/creating-tomorrows-

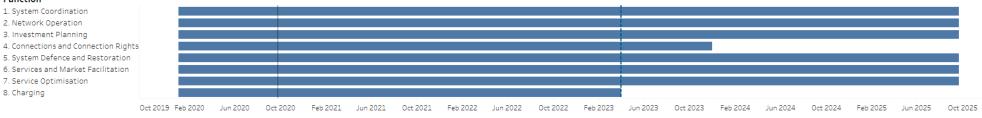
<u>networks/open-networks</u>

#### ENA DSO Implementation Plan

Purpose:

The aim of the DSO implementation Plan visualisation is to provide visibility of actions and implementation of change for all electricity network and system operators that are required to progress the least regrets pathway to Distribution System Operation (DSO)

#### Function



Roadmap

Function

Date



Activity



\*

#### Highlights of current work



- The development of operational IT systems for managing power flows (ANM)
- Establishment of a neutral market trading system to facilitate trading of flexible services in near real time.
  - Establishment of a DSO control desk within the existing control centre
  - Improving the quality and quantity of information available to stakeholders
  - Updating of policies and procedures

- Offering a greater range of connections options with a range of flexibility
- Improving forecasting techniques, and publishing our data in the form of heat maps, DFES, and flexible services requests
- Developing enhanced modelling tools and techniques and introducing automated connections processes.
  - Reducing ENWLs carbon emissions and encouraging others to do the same

# Accelerated Loss of Mains Change Programme (ALoMCP)





## Background



G59 requires UK Generation owners to install loss of mains (LoM) protection at their generation sites. This is to ensure that, following a fault that isolates sections of the distribution system to which they are connected from the rest of the electricity system, distributed generation does not form an autonomous power island with the remaining local demand.

The two most commons forms of LoM protection are rate of change of frequency (RoCoF) relays and vector shift (VS) relays.

By September 2022 to comply with the latest requirements, it will be necessary to revise the LoM protection settings for all the existing non-type tested embedded generation fleet to: Ensure that where rate of change of frequency (RoCoF) protection relays are used, as part of Loss of Mains protection, the applied setting should be 1Hz/s with a definite time delay of 500ms.

Ensure that vector shift (VS) protection technique should be removed where it is in use

Remove LoM protection from all generation except synchronous and DFIG where a suitable RoCoF setting cannot be made without additional investment. Progress

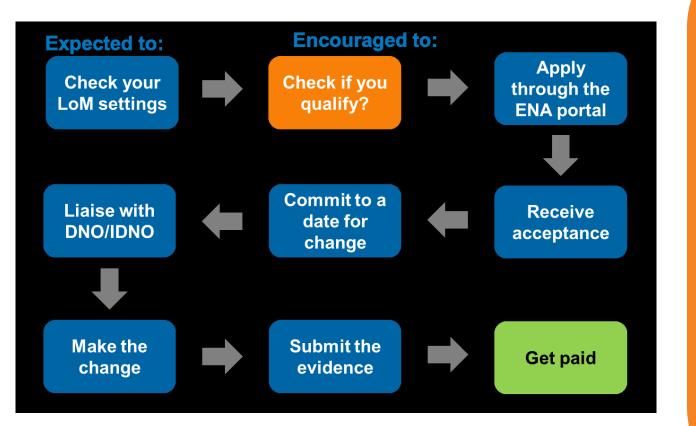
			- Ale	£
4/6	224	178	224MW	£570k
application windows complete	accepted applications	confirmed changes to protection	generation capacity updated	In payments made



Percentage of generators on our network with updated protection

## Get involved





#### Window 7 is now open until the 11<sup>th</sup> May 2021

Applications can be made at: <u>https://www.ena-eng.org/ALoMCP/</u>

# For help and assistance please contact: <u>ALoMCP@enwl.co.uk</u>

Further information can be found at: <u>https://www.enwl.co.uk/get-</u> <u>connected/network-</u> <u>information/accelerated-loss-of-mains-</u> <u>change-programme/</u>

## **Digital Strategy**

"We will keep our stakeholders informed on our Digital Strategy. We will present an overview of our Digital Strategy at a workshop. We will provide an update on progress via a webinar and / or digital communications. We will signpost opportunities for stakeholders to get involved in national groups and events."





#### Continually Improving our Digital Capabilities

#### Progress to 2023

- Improved Network connectivity data
- Integrating control and customer systems
- Improved Network automation (HV)
- Enabled flexible connections
- Smart street voltage controls (LV)
- CLASS voltage controls for National Grid
- Improved network analysis capabilities & replacing non-smart equipment on our assets

### Digital Strategy for 2023-28



#### What is our Digital Strategy?



M/hat is	As an industry that relies heavily on	Transition to <b>DSO</b>		
What is	technology and data, we constantly	Implementing the UK's Energy Data Taskforce recommendations		
it?		Implementing the <b>Open Network Project</b>		
Π.	work at updating our systems to keep	Supporting the <b>Power the North West's future</b>		
	up with technology and network needs.	Leading the North West to zero carbon		
	Describes how we will keep up whilst	New data platform supporting external data sharing		
	continuing to deliver network reliability and security, and excellent service.	Modified <b>substation designs</b> to future proof for new technology		
		Open Data		
	Increased openness and transparency	Consistency		
What	Increased openness and transparency	Consistency Transparency		
	Increased openness and transparency			
What does it		Transparency		
does it	Improved access to Network	Transparency Access		
		Transparency         Access         Heatmap Tool         Long Term Development Statement         Embedded Capacity Register		
does it mean	Improved access to Network	Transparency         Access         Heatmap Tool         Long Term Development Statement		
does it	Improved access to Network	Transparency         Access         Heatmap Tool         Long Term Development Statement         Embedded Capacity Register		

#### Enabling

- Data platform to support analytics and data sharing
- Operational IT inc NMS
- Modernising IT estate

#### • GIS continual improvement

 Other internal IT improvements eg workforce related

#### Innovation

- Operational eg smart street
- Other internal IT improvements eg supply chain

#### Insight

- Digitised connection agreements
- Open data
- One stop shop for all electricity data?
- Common Information model (CIM)
- Outage information
- Stakeholder information (communications)

#### Overview and what this means

### **Digital Strategy**

We will fully implement the recommendations of the EDTF\*, led by industry regulator Ofgem, and working in collaboration with other energy network operators and Energy Networks Association:

- Digitalisation of the energy system in the consumers interest, supporting the principles of 'new data needs', 'continuous improvement' and 'digitalisation'.
- Maximising the value of data to aid sharing, data should be 'presumed open'. It should be 'discoverable, searchable and understandable', with common 'structures, interfaces and standards' and be 'secure and resilient'.
- Visibility of data should be enabled by publishing data catalogues with meta data describing what is available.
- Coordination of asset registration to increase registration compliance, improve the reliability of data and improve the efficiency of data collection.
- Visibility of infrastructure and assets should be provided by a unified digital system map of the energy system.

### What this means for me...

- Updating our digital capabilities
  - Network Management
     Systems
  - Active Network Management
- Improved quality and integration of network information
- Consistency across industry
- Assumed Open Data
- Improved access common data platform

The consultation wants to hear your views on :

- What data do you want access to?
- How do you want to access the data?
- What technologies are most important to you?
- Your thoughts on how these technologies will develop by 2028
- What blockers / challenges do you see for us delivering these digital services?



#### ICE Commitment Progress Update

#### Present an overview of our Digital Strategy

• Presentation today

#### Provide an update on progress

- Webinar hosted in July
- Update in newsletter
- Update December
- Notification to be sent on publication of Action plan
  - Deferred awaiting standardised format from Ofgem before publication

#### Signpost opportunities to get involved

- Initial strategy consultation & further information promoted via email
- Current consultation covered today

## Future Business Planning : ICE Workplan Development 2021-22





### Proposed ICE Commitments for 21-22

	Proposed Outcome	Commitment / Action
	We will adopt best practice identified through the Open Networks Project. We will keep our stakeholders informed on progress.	We will improve our application of Queue Management principles to slow moving projects
Any comments?	We will provide briefings for stakeholders following announcements on the proposed changes to charges through <b>Ofgem's significant code review</b>	We will brief stakeholders on the development of changes to <b>charges</b> being made by Ofgem
<b>A</b> re these the right	We will publish <b>information and guidance</b> on how to get involved. We will host a <b>webinar</b> to help clarify the process. We will continue to embed the industry-wide <b>standardised</b> approach.	We will continuously improve how we provide information and publish requirements for <b>flexible services</b> .
	We will keep stakeholders informed on our transition to incorporate enhanced Distribution System Operation functionality.	We will keep stakeholders informed on our transition of Distribution Network Operators (DNO) to <b>Distribution</b> <b>System Operators (DSO)</b>
5.	Issue quarterly updates on ICE Commitments to registered stakeholders	We will continue to communicate with our stakeholders
Have we missed	Offer a minimum of <b>3 engagement opportunities</b> across webinars and workshops. We will also provide surgery sessions to meet our stakeholders needs, targeting all are held within 10 working days.	We will continue to offer opportunities for stakeholders to <b>engage</b> with us.
something?	We aim to outperform the regulatory standard by providing quotes on average in <b>57 working days</b> (compared to the guaranteed standard of 65 workings days)	Target <b>Time to Quote</b> timescales for <b>EHV</b> Quotations
	We aim to outperform the regulatory standard by providing quotes on average in <b>57 working days</b> (compared to the guaranteed standard of 65 workings days)	Target <b>Time to Quote</b> timescales for <b>HV</b> Quotations

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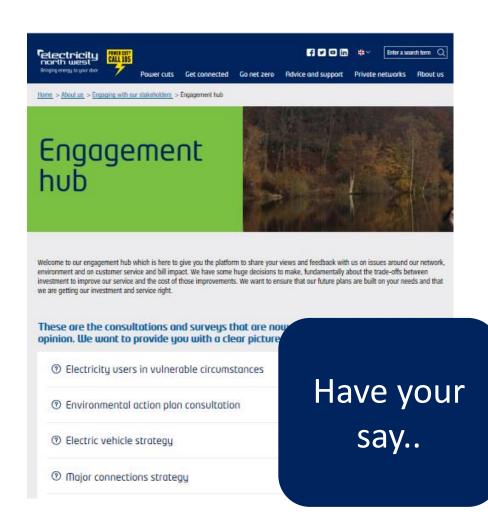
## **Strategy Consultations**





### **Strategy Consultations**

- As part of our preparations for our future business plans, we are consulting on a number of strategies. For more information, visit our <u>website</u>.
- Relevant strategies for DG HV/EHV stakeholders:
  - Major Connections Strategy
  - Distribution System Operation Strategy
  - Digital Strategy
  - Green Recovery projects
- Others
  - Environmental action plan
  - Innovation Strategy
  - Community and Local Energy Strategy
  - Electric Vehicle Strategy
  - Electricity Users in Vulnerable circumstances



# Future Business Planning : 2023-28 Business Plans (RIIO-ED2)





### Shaping our Major Connections Strategy

- We have published our strategy for <u>Major Connections</u> where we are seeking your views to inform our future approach.
  - Do you have any views on our current performance against the baseline expectations?
  - If there are any areas where you think we need to improve, do you have any specific suggestions on what we should do?
  - What do you consider best practice, perhaps from your engagement with other network companies?
  - Do you agree that this is a sensible and appropriate approach?
- We are engaging with our stakeholders to Shape our Major Connections Strategy, then Create our plans and finally Consult to capture any final refinements.



- Ofgem set out its requirements for DNOs to develop and submit 'major connections strategies' in its 'Sector Specific Methodology Decision' in December 2020:
  - The DNO's strategy will need to set out the activities the DNO plans to undertake to improve the services provided to major connections customers in RIIO-ED2.
  - Major connection customers include those connections customers in market segments where there is an absence of effective competition (ie they have not passed the Competition Test) and which are not captured by the CSS or TTC incentives.



- Ofgem set out its requirements for DNOs to develop and submit 'major connections strategies' in its 'Sector Specific Methodology Decision' in December 2020:
  - We note that the DNOs are still responsible for completing non-contestable connection activities in market segments that have passed the Competition Test. To ensure that DNOs deliver best practice in the provision of non-contestable activities, DNOs' strategies should capture these activities, even where these have passed the Competition Test.
    - A high level summary of 'non-contestable' activities are shown below:

Contestable	Non-contestable
Design of the network extension to the	Reinforcement of the existing network
existing network	
Provide all materials and equipment for the work	Agreeing any suitable legal consent that we require for assets we will adopt
Construct the network extension and any other contestable work including all excavation and reinstatement	Inspection, monitoring and testing of any contestable work
Recording any work done and the location of cable routes and other equipment and providing the information to us	Maintaining and providing records of the existing networks

• As part of its Sector Specific Methodology Decision, Ofgem set out three high level principles that largely cover the three stages of connections activity:



- **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.

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

• 5 Baseline Standards – how are we performing now & what does good look like?

1) Provide access to up to date and relevant information to enable a connection stakeholder to decide whether, and where, to connect to the distribution network. This should include, but not be limited to, graphical network records that show the location, size and type of assets. Network Asset Viewer (NAV) available on <u>website</u> which is an intuitive system designed to reflect the current structure of our network and provide data access which is more easy to navigate through. <u>Our Long term Development Statement</u> provides network details and planned development to help assess potential connections. Our <u>Heatmap Tool</u> provides a useful tool to assess potential capacity on our HV/EHV network, including appendix G information.

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

• 5 Baseline Standards – how are we performing now & what does good look like?

2) **Communicate** a clear connections process for all customers. This should include providing clarity of DNO, customer and third-party responsibilities. This should also include providing clarity on how issues that arise can be raised and resolved.

Simple process guidance on <u>website</u> Step by step guidance provided in webinar, slides and recording <u>HERE</u> Project specific pre-application support available on <u>request</u>

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

• 5 Baseline Standards – how are we performing now & what does good look like?

3) Provide clear explanations of the types of connection products available, the associated costs of each and the information that would need to be provided by the customer to make an application. Where appropriate, this should also include the provision of general information on the potential implications for a customer's connection offer if they change their own requirements, if other customers are seeking to connect in the same area or if they do not accept an offer within its validity period.

Details of options and requirements on website, with further details contained within the Connection Charging Methodology <u>here</u>.



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

• 5 Baseline Standards – how are we performing now & what does good look like?

4) Provide support and help to customers through appropriate channels which should include, but not be limited to, connections surgeries.

Key contacts available for queries on the website. Project specific 'surgery sessions' available on <u>request</u>

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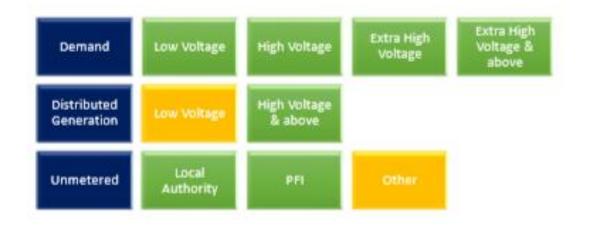
**Principle 1** -Support connection stakeholders prior to making a connections application by providing accurate, comprehensive and user-friendly information

• 5 Baseline Standards – how are we performing now & what does good look like?

5) Have robust processes in place to proactively engage with stakeholders. This should include how the DNO plans to both identify and address connections issues. Proactive communications for stakeholders who have expressed an interest in receiving information. Engagement through Workshops, expert panels, webinars and bilateral engagement detailed in ICE reports

#### Next Steps

- Develop Connections Strategies for relevant market segments
  - Distributed Generation at Low Voltages
  - Unmetered Other
  - Non-contestable works
- Host further engagement to Create and then finally Consult on our Strategies.





## Any questions?





- 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 here
- Don't forget to get in touch with us at ICE@enwl.co.uk
- Thank you for your attendance.





