Distributed Generation Workshop
27 February 2018

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Welcome
Mike Taylor –Head of Customer Engagement

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General Housekeeping

Please Sign In...

Facilities are out in the Foyer...

Mobiles and Electronic Devices to Silent Please...

No Planned Fire Alarms...

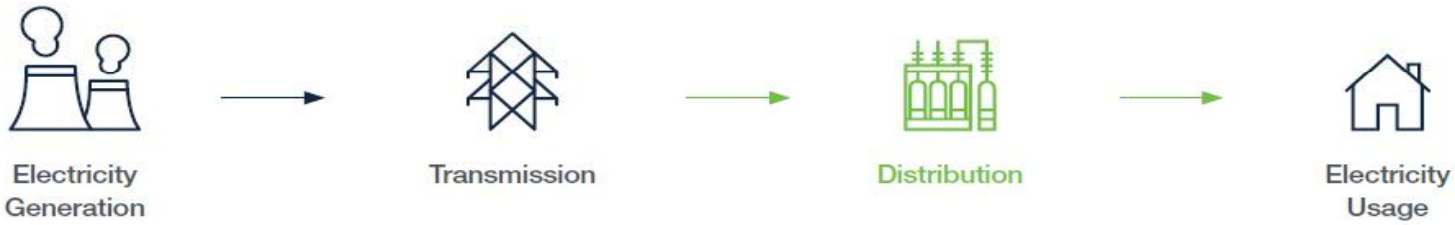
In the Event of an Alarm...

PLEASE FOLLOW STAFF OUT TO THE STREET AT THE FRONT OF THE BUILDING WHERE WE WILL GATHER TO THE LEFT OF THE MAIN ENTRANCE GATES

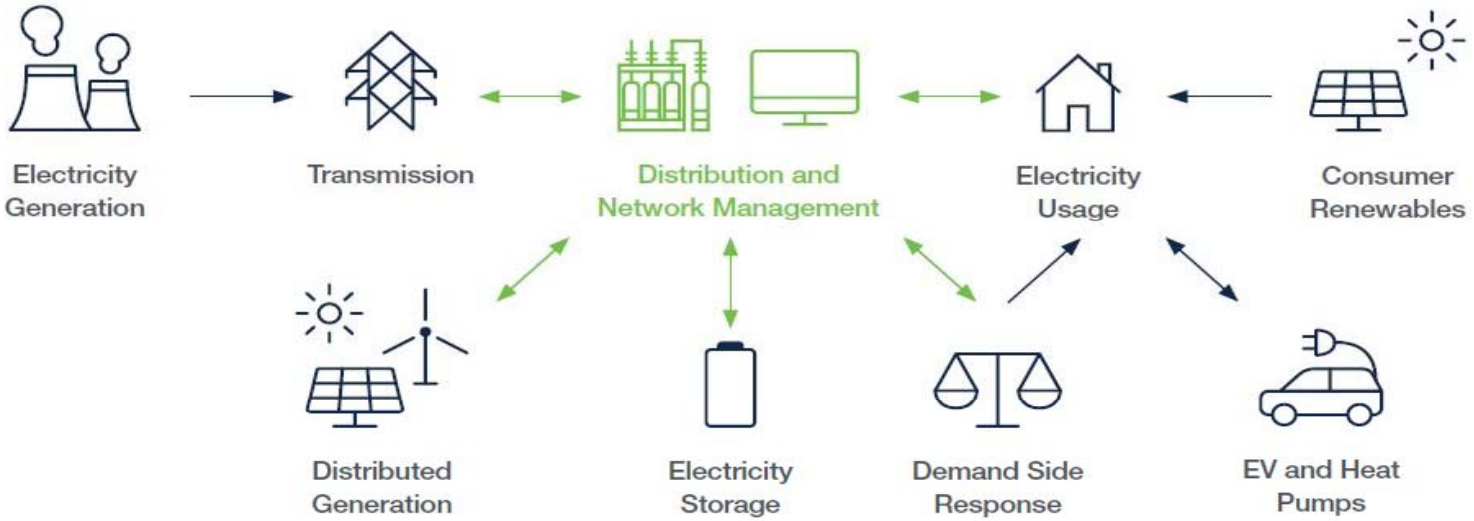
Your Feedback is Important...

DNO – DSO

This has big implications for our role iin the system - what used to be relatively simple...



....is becoming far more complex and multi-directional



Preparing for the future: Purpose and Principles

With demand for electricity predicted by some to double by 2050, our customers' reliance on electricity to keep their lives running - from electric vehicles to home-working, solar panels to heat pumps - means that our role is changing and we need to ensure we're best placed to keep pace with change and meet that important challenge.

Because of the way we're managing the business and the pace of change in the industry, there was an urgent need to revisit our vision and values.

Our customers need cleaner, greener energy to enable and enhance 21st century life in the North West and our principles set out how we respond to that challenge.

Electricity North West is operating in a dynamic, rapidly changing environment. Our customers rely on us now more than ever before. We keep them connected with friends, family and the wider world; keep their electric cars running; ensure their house is warm when they get home from work and enable them to work smarter and more flexibly. We keep customers' lives running smoothly.

Electricity used to be a centralised model that changed little technically over many years – we kept the lights on. However, this is becoming far more complicated and multi-directional. To help us manage and meet the challenge of adapting to successfully operate in this fast-moving sector, we needed to develop a new forward looking purpose and set of principles (what we do and why we do it)

Agenda

Session	Time
Registration & lunch	12:30 - 13:00
Welcome & Introduction	13:00
DG in our area	13:05
Statement of Works	13:15
Incentive on Connections Engagement - 2018/19 Work Plan Review	13:35
LVDG Update	14:05
Break - 15 Minutes	14:10 - 14:25
Assessment & Design Fees	14:25
EU Code Implementation	14:55
Panel Questions	15:10
Close	

DG in Our Area
Steffan Jones - Infrastructure Solutions Manager

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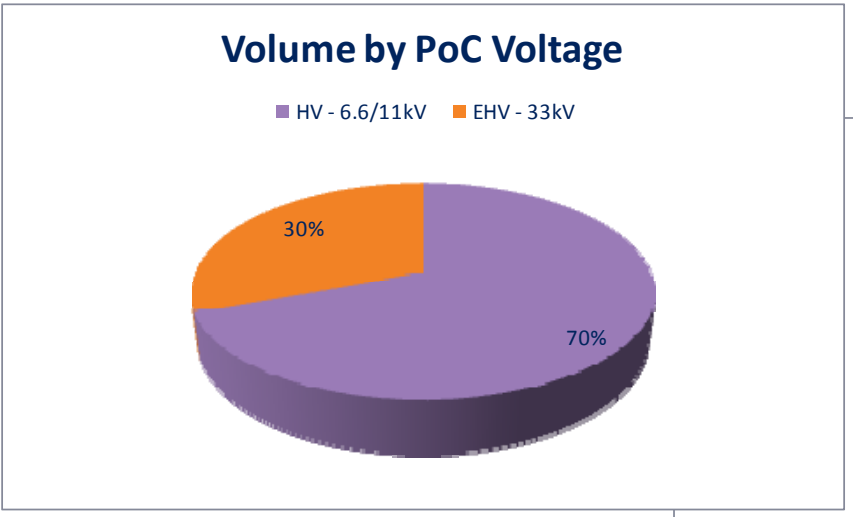
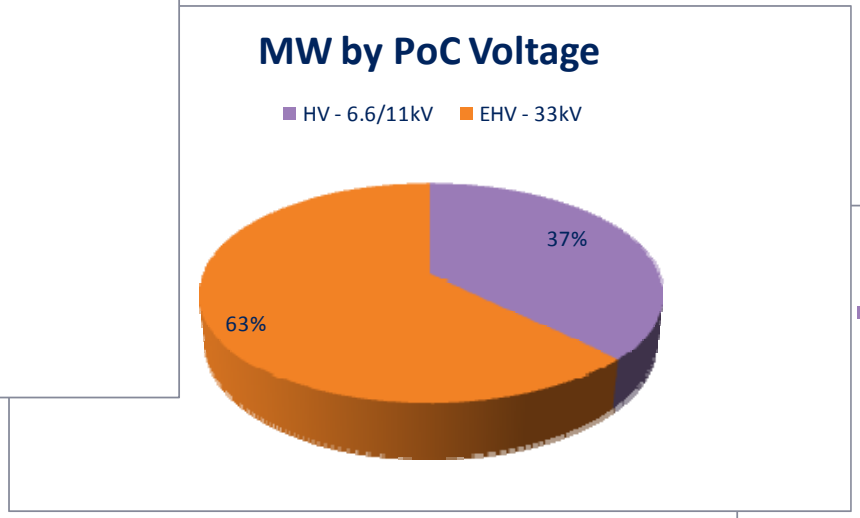
DG connected into ENWL Network in FY18

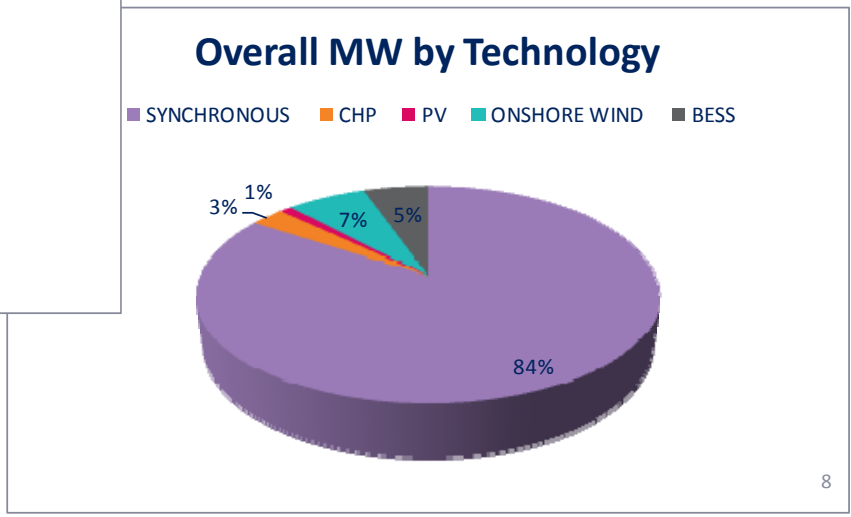
DG schemes >1MW connected or booked in to be connected...

TOTAL NUMBER OF GENERATORS CONNECTED IN FY18 **23**

TOTAL CAPACITY OF GENERATORS CONNECTED IN FY18 **185 MW**







Statement of Works
Steffan Jones - Infrastructure Solutions Manager

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Process Development Overview

Traditional

- SoW submitted at a project level
- Allowed timing at project need
- Issues with queue management
- All costs relate to the applying project

PRE FY17

Bulk

- SoW submitted at a GSP level
- Allows better queue management
- Potential efficiencies on cost apportionment between Developers

FY17

Appendix G

- Requires a Bulk / Catch Up Submission
- Allows DNO to manage queues to defined headroom
- Increased Administration
- Replaces SoW as Modification Application is first NGET intervention

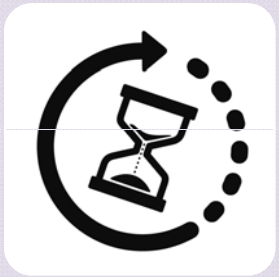
FY19

T.I.A.

- Transmission Impact Assessment
- Future process likely to be based on Appendix G process

FUTURE ?

The process timeline...



Document Preparation	Submittal Payment Technical Queries	Technical Competence	National Grid Review	National Grid Formal Response	Review Clarifications Communicate with Customers Validity Period	Project Progression
5 - 15 Days	15 - 35 Days		28 Days		90 Days	
		Milestone		Milestone		Milestone

ENWL GSP's - 17 GSP's or 14 GSP Groups

Lakes

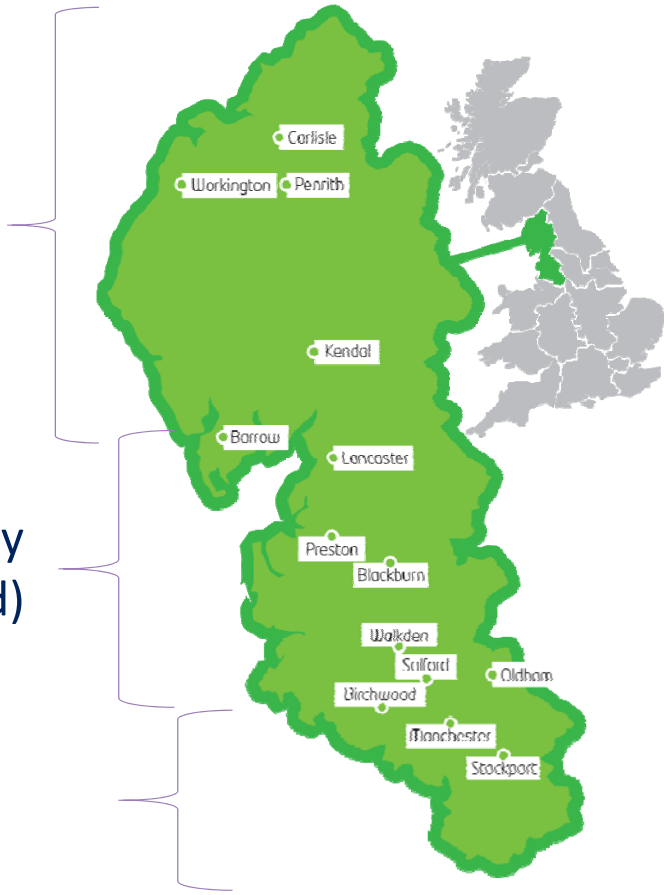
- 3 GSP's Harker, Hutton and Heysham (2 Groups)

Lancs & Central

- 8 GSP's Stanah, Penwortham (E&W), Rochdale, Padiham, Washway Farm, Kearsley and Kearsley Local. Also Bold (SP) (6 Groups + Bold)

South

- 6 GSP's Whitegate, Stalybridge, Carrington, South Manchester, Bredbury, Macclesfield Super Grid (6 Groups)



The Current ENWL Status of Play

- As of February 2018....
- We have submitted Bulk SoW applications on 12 of 14 GSP Groups
- Remaining GSP Groups and DNO Interconnector are in process of preparation
- We have received responses on 11 of the 12 SoW submittals
  - 5 of the 11 indicate Transmission issues and Modification Applications are required
  - Of these 5, Modification Applications have been issued for 3 and the remaining two are in preparation
- We have received one Modification Application response and this is now under review
- We have instigated the move to Appendix G process on 7 of the 14 GSP Groups

ICE Work Plan Review
Rebecca Johnston - ICE Manager

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Introduction

- Rebecca Johnston
- 5 years with the Wayleaves Section
  - Grid and Primary
  - Secondary Networks
- 2nd January – Customer Engagement ICE Manager

2017 – 2018 Work Plan progress

Action	Output/KPI	Performance
Improve visibility of our flexible connections	**Output:** All generation quotations will highlight where a flexible connection has been offered	Flyer complete
Improve constraint data provided with flexible connection quotations	**Output:** Historical data to be provided for all flexible connection quotations. Up to 5 years' data to be provided in accordance with our records	Complete
Facilitate regular engagement sessions	**KPI:** Hold 10 events overall and target 80% of attendees review our events as 'useful' or 'very useful'	Ongoing
Implement online application	**Output:** Launch of online application and measure impact via number of applications submitted through the new process. Target 10% of applications to be made online	Ongoing
Develop a local energy strategy	**Output:** Stakeholder workshops held and draft local energy strategy circulated for ratification	Complete

2017 – 2018 Work Plan progress

Action	Output/KPI	Status
Champion Virtual Private Networks in industry to support more flexible and efficient connections	**Output:** Develop proposals for Virtual Private Networks	Ongoing
Host community energy event	**Output:** Host event and target 80% of attendees reviewing the event as 'useful' or 'very useful'	Complete
Continue to improve LV time to quote	**KPI:** Target average of 28 Working Days	Ongoing
Continue to improve HV time to quote	**KPI:** Target average of 45 Working Days	Ongoing
Continue to improve EHV time to quote	**KPI:** Target average of 58 Working Days	Ongoing

2017 – 2018 Work plan

Action	Output/KPI	Status
Provide quarterly updates on progress of actions	**Output:** Progress updates published online and distributed via mailing lists. Engage with stakeholders in workshops to monitor effectiveness of these updates, target 80% attendees reviewing our newsletters as 'useful' or 'very useful'	Ongoing
Develop Community Energy distribution list and share relevant updates	**Output:** We will target a minimum of 50 stakeholders by March 2018 and share newsletter updates on a quarterly basis	Complete
Establish DG owner-operator panel	**Output:** Establish a DG owner-operator panel	Complete
Target improvements in customer satisfaction	**KPI:** Target an average of 82% satisfaction with delivery and 85% satisfaction overall	Ongoing

Process

Agree draft ICE actions & measurable KPIs/outputs	Allocate ‘owners’	Test draft ideas with stakeholders	Review & update respond to feedback	Test updated ideas with stakeholders	Finalise Publish ‘non actions’
(Dec)	(Dec/ Jan)	(Jan)	(Feb)	(Feb/ Mar)	(Apr)

Internal engagement → External engagement → Act on feedback → Finalise & Issue

Proposed 2018-2019 Workplan DG LV

Commitment	Action	Output/Key Performance Indicator	Delivery Date
Improve connection charging approach to make charging fair our customers	Conduct an impact assessment and plan implementation of assessment and design fees.	Engage with stakeholders regarding our proposals	Q4
We will share our vision for the transition of DNOs to DSOs.	Engage with stakeholders on our transition to DSO strategy	Hold an engagement session with our stakeholders	Q4
Target improved customer satisfaction.	Our aim is to target an improvement in overall customer satisfaction	*NB current 17-18 target is 85%* KPI: 85% satisfaction (subject to statistically significant sample sizes)	Q4
Target improved Time To Quote for LV DG quotations	We aim to outperform the regulatory standard by providing quotes on average in 28 working days (compared to the guaranteed standard of 45 workings days)	We will continue to work to 28 days	Q4
We will engage with community energy stakeholders on our network information	We will engage with community energy stakeholders on our network information	Hold an engagement session with community energy stakeholders	Q4
We will continue to offer opportunities for stakeholders to engage with us	We will facilitate a workshop specifically for our LV DG stakeholders	Hold a workshop centred around LV DG topics where 80% of attendees surveyed rate the event as ‘useful’	Q4
We will continue to offer pre-application surgery sessions and webinars	Host connection surgeries for LV DG customers	Offer a minimum of 3 x surgery sessions/webinars 80% of attendees to rate event as ‘useful’ or ‘very useful’	Q4

Sources of feedback

feedback	Sponsors	Where?	Who?	Our commitment 2018/19
“It’s good to be providing a regular route for customer feedback”	4	Expert Stakeholder Panel	DG stakeholders	Target improved customer satisfaction subject to statistically significant base sizes.
We were told that customers needed more support and dialogue when it comes to viewing our network information	5	Community Energy workshop	Community Energy stakeholder	We will engage with community energy stakeholders on our network information
We were told that our workshops are useful and provide a good opportunity to meet our staff	5	Community Energy workshop DG Workshop	Community Energy and DG stakeholders	We will continue to offer opportunities for stakeholders to engage with us
"Going to offices and speaking to someone and seeing the maps to understand why some areas and locations might not work is really important"	5	Community Energy workshop	Community Energy stakeholder	We will continue to offer pre-application surgery sessions

Proposed 2018 – 2019 Workplan DG HV/EHV

Commitment	Action	Output/Key Performance Indicator (KPI)	Delivery date
Improve connection charging approach to make charging fair for our customers	Conduct an impact assessment and plan implementation of assessment and design fees.	Engage with stakeholders regarding our proposals	Q4
We will share our vision for the transition of DNOs to DSOs.	Engage with stakeholders on our transition to DSO strategy	Hold an engagement session with our stakeholders	Q4
We will review our EHV connection offers	We will review our connection offers and introduce a new offer pack in line with ours and stakeholder needs	Issue new connections offer pack	Q2
We will improve visibility of remaining available capacity	We will publish improved information on available thermal capacity & fault level	Publish online	Q2
Improve speed of response where transmission works required for a distribution connection	We will transition to a new transmission-distribution interface process, publish the new process on our website and publish transmission updates	We will communicate the new process to customers, transition to the new process and publish the process	Q4
Develop and continue DG owner/operators panel	Hold 1 x DG owner operator forum sessions for generators at 33/132kV	Hold a DG owner operator panel session . 80% attendees to rate the event as 'useful'	Q3
Target improved Time To Quote timescales for EHV quotations	17/18 – 58 working days We aim to outperform the regulatory standard by providing quotes on average in 58 working days (compared to the guaranteed standard of 65 workings days)	We will continue to work towards a 58 day average Time To Quote	Q4
We will continue to offer opportunities for stakeholders to engage with us	Offer surgery session and webinars and a workshop covering a range of topics	Offer 8 opportunities for stakeholders to engage covering a range of relevant topics 80% of attendees to rate event as 'useful' or 'very useful'	Q4

Sources of feedback

feedback	Sponsors	Where?	Who?	Our commitment 2018/19
We were told that we should communicate areas that are hard to connect to as a result of 'wider works'	5	Expert stakeholder panel Workshops	DG HV and EHV stakeholders	We will improve visibility of remaining available capacity
"I'd like a commitment of working with customers regardless of whatever process is used, more engagement essentially, don't leave us in a black hole"	4	Expert stakeholder panel	DG HV and EHV stakeholders	Improve information provision on transmission connection process
"Better communication between yourselves and NGET thus improving SOW process"	4	Workshops	DG HV stakeholder	Improve information provision and speed of response on transmission works required with a distribution connection
"As a consultant working with a number of developers, I would however like to have more engagement at early stages of a project where we're tasked to look at system sizes etc"	1	Surveys	DG HV stakeholder	Continue to host workshops and pre-application surgery sessions

Feedback sheets

Thank you

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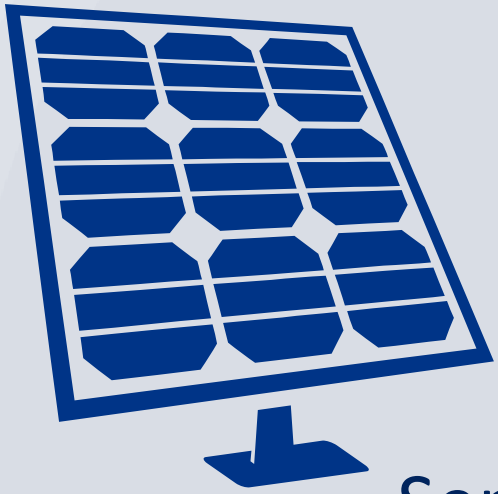

LVDG

Separate Work Plans for 2018 – 2019
Specific LVDG workshops – suggestions for topics?

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“COFFEE BREAK”
Please be ready to continue in 15 minutes

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Connection Offer Expenses – our approach

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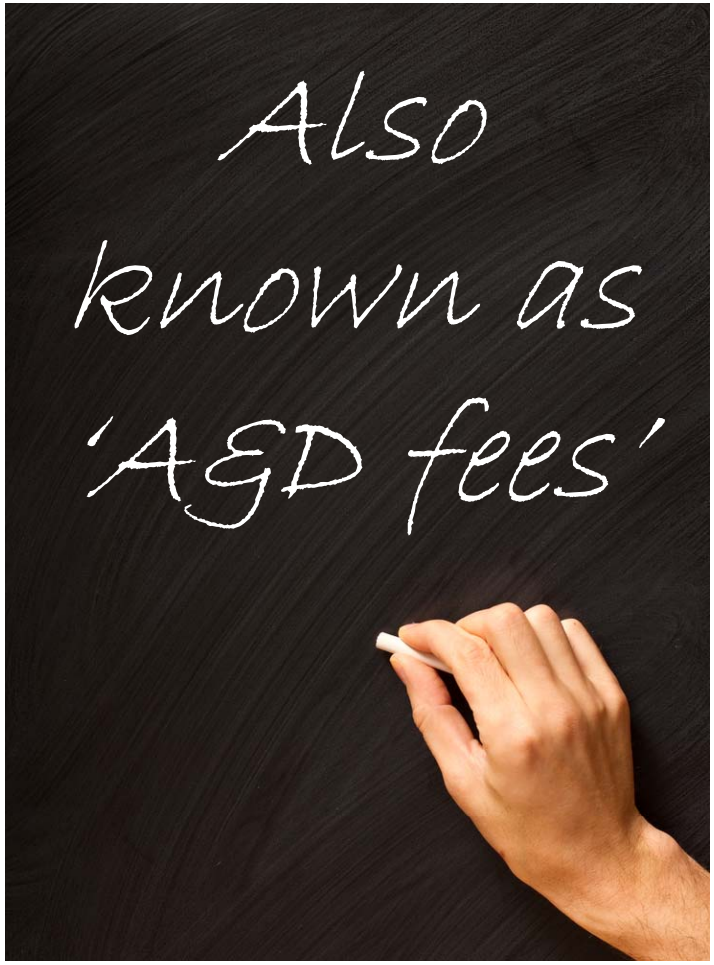
Connection Offer Expenses

BEIS intend to introduce new regulations from April 2018

These will allow DNOs to charge customers for their connection offer whether it is accepted or not

BEIS intention is to allow a fairer allocation of costs to customers



What do we propose to charge for?

What we won't be charging for
Budget Estimates
Minor connections (1-4)
Cancellations within cooling off period
Offers for service alterations or diversions

What we will be charging for
EHV offers (demand and generation) from May 4th 2018
LV and HV offers (demand and generation) but from a later date
Requotes including interactivity requotes
Cancellations (after cooling off period)
Gen+ initial assessments

These charges will be due whether the connection offer is accepted or not

The basic process

Customer Application	Connection Offer issued	Connection Offer validity period	Acceptance
Email informing customer is liable for payment for quote but with 10 working day cooling off period	Connection offer issued together with invoice for £1,000 with 30 day payment terms	Quote validity period normally 180 days but will end after 30 days if invoice not paid	Customer pays balance of Connection Offer Expenses if they accept as part of Acceptance Fee

Revised process if payments not made

Customer Application	Connection Offer invoice issued	Connection Offer issued	Acceptance
Email informing customer is liable for payment for quote but with 10 working day cooling off period	Connection offer invoice for £1,000 with 30 day payment terms issued	Connection offer only issued after payment received with validity period normally 180 days	Customer pays balance of Connection Offer Expenses if they accept as part of Acceptance Fee

Gen+ process

Customer Submission	Budget costs and POC	Confirmation of viable options	Connection Offer issued	Connection Offer validity period
Customer submits up to six variations for same site eg different capacities and/or technologies together with **£500** payment	We provide budget costs and POC for all six variants within 30 working days	You will have 7 days to confirm if any are viable and you want to progress through to a full offer using submission date as application date	Connection offer issued together with invoice for £1,000 with 30 day payment terms	Quote validity period normally 180 days but will end after 30 days if invoice not paid

Our charges

For Connection Offers issued in ENWL area

Initial charge for any EHV Connection Offer:
£1,000

Residual charge on acceptance:
£20,200 for a full works offer

Residual charge on acceptance:
£15,800 for non contestable work only

How is our Connection Offer charge calculated?

- ✓ Includes cost of all Budget Estimates issued
- ✓ Includes the cost of all Gen+ initial assessments (less initial charge)
- ✓ Includes costs of all Connection Offers that are accepted
- ✓ Includes the costs of all Connection Offers that are not accepted

All costs associated with issuing Connection Offer are recovered through the Connection Offer charges: part recovered from initial £1,000 fee and rest on acceptance

Why do other DNO charges appear lower?

- ☐ Includes cost of all Budget Estimates issued
- ☐ Includes the cost of all Gen+ initial assessments
- ☑ Includes costs of all Connection Offers that are accepted
- ☐ Includes the costs of all Connection Offers that are not accepted

Only the cost of that Offer is included in the charge; other charges are included as an on-cost on the construction work and paid on acceptance

Summary

Four different options available to you for EHV offers

Budget Estimate	Gen +	Full Works Offer	POC Only offer
•No charge •Can't accept •No queue position	•Initial charge of £500 payable in advance •Further charge of £1,000 for full offer •Queue position retained	•Initial charge of £1,000 for Dual Offer •Balance of £20,200 if full works accepted •Balance of £15,800 if POC only accepted	•Initial charge of £1,000 for Connection Offer •Balance of £15,800 on acceptance

Applicable from 4th May 2018

QUESTIONS

&

DISCUSSION

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EU Code Implementation
Steffan Jones - Infrastructure Solutions Manager

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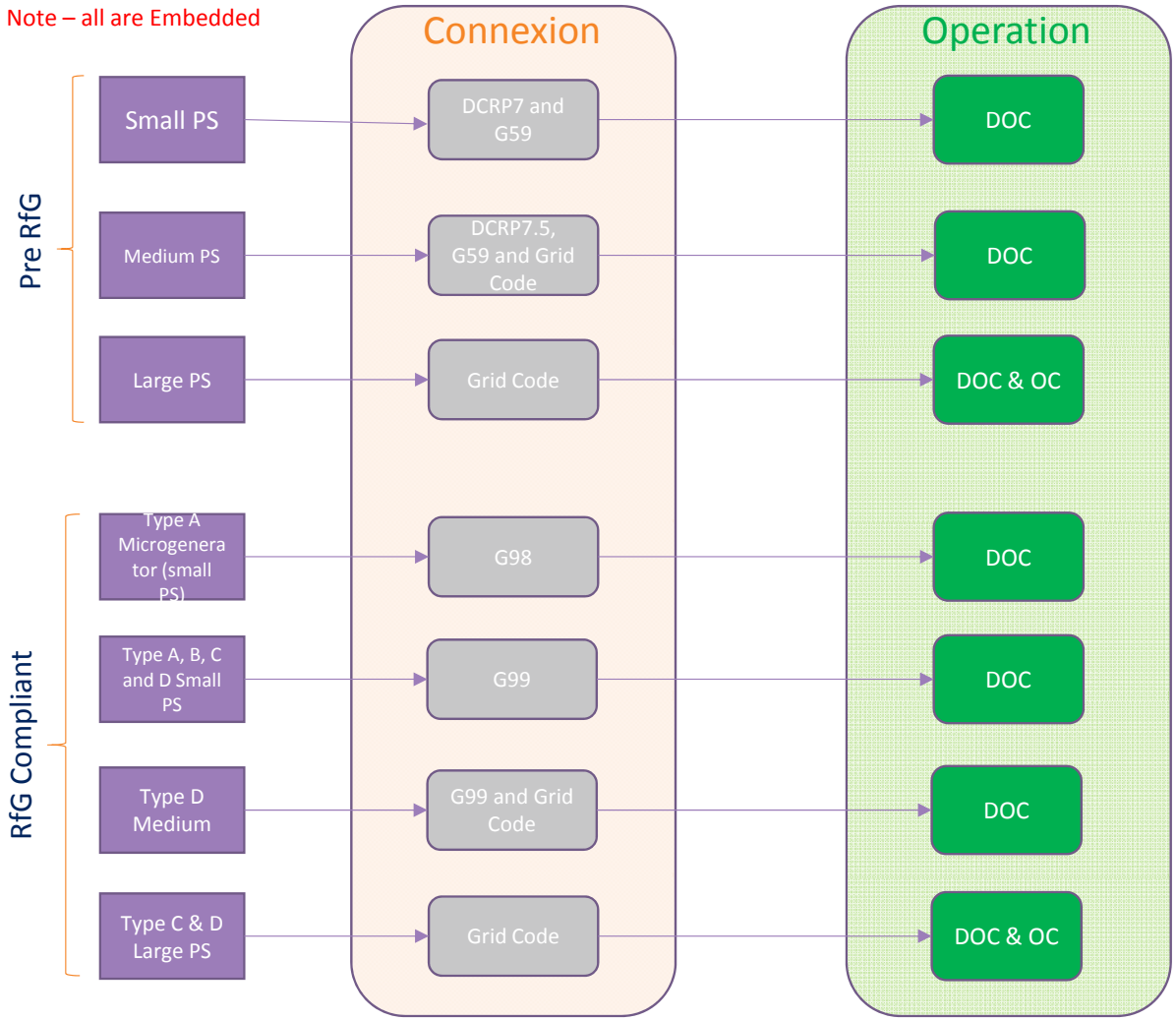
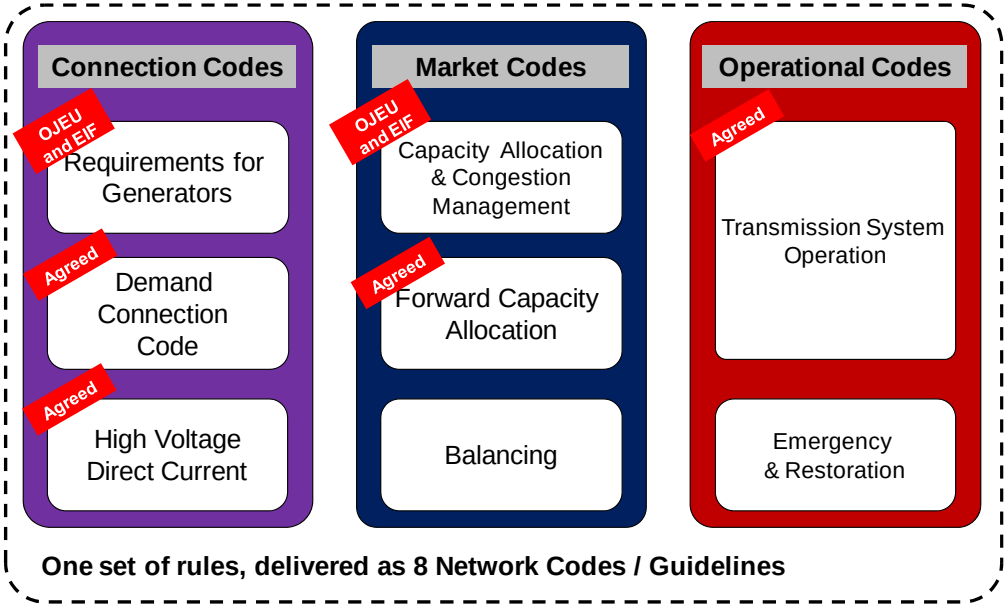
Requirements for Generators

- Requirements for Generators (RfG) became a legal entity May 2017
- Applies to all generation commissioned after May 2019
- ENA EREC G98 & G99 drafted to incorporate GB requirements of the RfG
  - G98 covers microgeneration <16A/phase
  - G99 covers generation >16A/phase
- Currently in consultation, full approval May 2018
- ENA to publish user guides in parallel
- G98/G99 launch event planned, to explain in detail the changes
- Format of event TBC, possibly London, Cardiff and Glasgow
- Watch this space!

Interface with D Code & G Code



European Network Codes



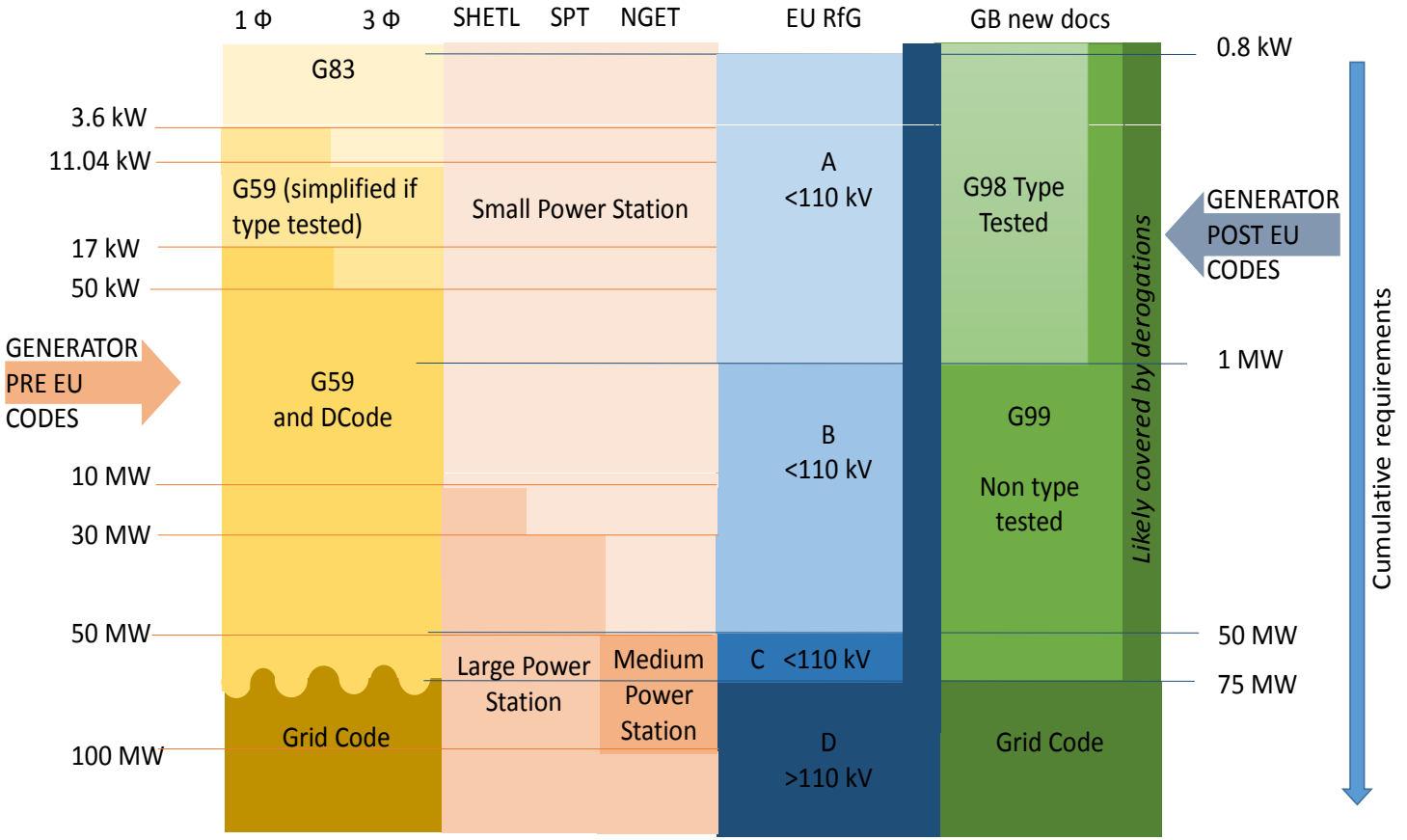
RfG Bandings

Connection Voltage <110kV

Band A	800W – 1MW
Band B	1MW – 10MW
Band C	10MW – 50MW

Connection Voltage >110kV
Or
>50MW

Band D



Panel Q&A

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Wrap Up and Close

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