

**Introduction & ways of working** 

**Camille Gilsenan, ESO** 

# Agenda

Timing	Subject	Presenter
14:00 – 14:05	Introduction and Welcome	Camille Gilsenan
14:05 – 14:20	Actions Log	Alison Price
14:20 – 14:35	Transition Plan	Camille Gilsenan
14:35 – 14:50	Five Point Plan	Alison Price
14:50 – 15:10	Connections Reform	Paul Mullen
15:10 - 15:20	Next Steps Recap & AOB	Camille Gilsenan

# Scope of sub-group - as agreed at CUSC Panel

Taken from ToR, the scope of the sub-group is as follows:

- Provide clarity on the horizon of strategic connection change.
- Signposting to more medium-term change such as Connections Reform.
- Focusing immediate discussion on connections five-point plan initiatives including the ESO's new policy for battery storage connections.
- Breaking down the ESO's line of thinking regards to implementation of these initiatives and addressing concerns raised by stakeholders both in terms of governance and post implementation impacts.
- Provide opportunity to deep dive on those change initiatives of interest. This will ensure the industry can understand how
  this change will manifest and work in practice or understand the current remit of ESO exploratory work
- Aim is therefore to help identify any CUSC code governance gaps or downstream impacts and ensure these gaps or impacts are addressed appropriately and stakeholder are engaged on this journey.

ID	Description	Owner	Notes	Update		Status		
025	Connection applications	KP	To split out applications into new and mod apps	•		·		CF
031	Data quality	CG	To feed back into the business, that the information to be shared as part of the network design needs to be of good quality – cited in meeting was the level of quality in the TEC register	part of the controls process. The ESO are currently investigating how we can be more transparent with connections data and provide more granular data (e.g. via better data sets and interactive mapping). This will also be addressed as part of the Connections Reform Action Plan. You can get in touch with your connections contract manager or		part of the controls process. The ESO are currently investigating how we can be more transparent with connections data and provide more granular data (e.g. via better data sets and interactive mapping). This will also be addressed as part of the Connections Reform Action Plan. You can get in touch with your connections contract manager or the connections.box at <a href="mailto:transmissionconnections@nationalgrideso.com">transmissionconnections@nationalgrideso.com</a> and your query		CF
032	Non-firm Markets	WKW	Update sub-group on DESNZ position regarding BESS non-firm participating in the Capacity Market and ESO position on Frequency and Stability Markets	Responses are applicable for BESS non-firm/accelerating storage restrictions only. Frequency - tbc; we aim to establish an approach that will allow entry into our markets.  Stability mid-term (Y-1) yes; customers with accelerated storage restrictions should be able to provide inertia even at 0 MW. Customers should refer to the tender rules published through the Mid Term (Y-1) Stability market web page for certainty.  Capacity Markets: this is still being checked with DESNZ;	14 Nov	CF		
033	DNO firm not being treated as 100% firm – not clear what this means for frequency markets	CG	Take back to ESO Frequency Response team for awareness that there are many questions that sit with the ESO frequency response team that they may need to be aware if – such as the recent UKPN update on DNO non-firm	ESO have fed back to relevant FR teams within ESO. See action 38.	14 Nov	CF		

ID	Description	Owner	Notes	Update	Target Date	Status
036	TEC register	KP	When queue will form part of TEC register and the definitive position of why ESO cannot share queue positioning		19 Dec	CF
037	Demand Register	KP	Advise if the ESO is looking to create a Demand register	Work is ongoing to create a Demand register as there is industry appetite for this information. However, it is likely to require a code change to enable the publication of this data.	19 Dec	New

ID	Description	Owner	Notes	Update	Target Date	Status
038	Services for firm & non-firm	CG	To confirm which services, firm and non-firm parties can participate in	Currently, parties can participate in any <b>reserve and response</b> market depending on whether they can meet the service terms of the product and the prequalification process (however, if you're part of an ANM, as part of your DNO connection agreement, the ESO will need to further consider this on a case-by-case basis).  Firm and non-firm parties can participate in the ongoing <b>Voltage</b> 2026 tender event and the Mid-Term (Y-1) <b>Stability Market</b> . Service providers will need to ensure/understand how their connection arrangement can meet the 90% availability criteria specifically. Generally, parties will need to meet all the service terms and the tender requirements/criteria. <b>MW Dispatch</b> is a paid turn down to 0 MW Service so should be available to non-firm connections, if an embedded generator has SSC 4 we are expecting that they should sign up. If the generator is not generating at the time, we ask others at the GSP to reduce to zero as they are held off by another system constraint (non-firm). They are not paid at that time as didn't provide a service on that occasion.  As non-firm connection increases, and the impact of non-firm providers on the availability of the service can be assessed, the ESO may need to review this position, including the service terms.	19 Dec	New
039	TEC amnesty	KP	Confirm the impact of TEC amnesty – how much given up, can be reused/brought forward	Connections will look to do a summary following closure of TEC Amnesty in Q4 of 2024.		New

ID	Description	Owner	Notes	Update	Target Date	Status
040	Queue Management	KP	Diarise these meetings before Christmas	Link to QM webinars emailed to CISG attendees 27/11. Link can also be found <a href="here">here</a>		New
041	CISG sub-group meetings	CG	Share transition plan to close sub-group	Slide is in pack for discussion at meeting,		New
042	Update on Authority decision date CMP298	AP	Update sub-group if decision delayed	Ofgem published an expected publication dates timetable 8 <sup>th</sup> December; CMP298 had an EDD of 12 <sup>th</sup> December.	19 Dec	New
043	CMP298 Implementation Group	AP	Catch up with Paul Mott to discuss what the state of play is with the CMP298 Implementation group.  Additional question received post subgroup mtg: Is CMP298 approval required in order for 'Planning Limits' (AKA Technical Limits) at GSPs being implemented	<ol> <li>(1) Due to the continued extension of the decision date for CMP298 and the priority transmission and distribution initiatives in flight, reconvening the CMP298 implementation group wasn't seen as a necessity in the implementation of CMP298. ESO has continued to prepare themselves to implement the code mod, and are prepared for a decision from Ofgem at the latest EDD of 12th December.</li> <li>(2) GSP technical limits has been developed as part of an ENA Strategic Connections Group and does not form part of CMP298, therefore does not need the code mod to be approved in order for this to be implementation. Please see ENA 3PP for more information on this piece of work.</li> </ol>	19 Dec	New

ID	Description	Owner	Notes	Update		Status
044	Two-step offer process	KP	Does the ESO see any issues that post March 2024, there will be offers which contain differing CPA's for Users  Additional comment received post sub-group - How will ESO manage the use of two different CPA methodologies for users post March 2024. New offers (including Mod Apps) post March 2023 will use the new CPA methodology but offers issued pre-March 2023 will use the old methodology	The aim of the CPA assumption and subsequent TWR review was to update customers agreements as and where it was possible to do so. Therefore, as part of this review every customer that had a signed agreement, was included in the background and also expressed an interest (EOI), have as part of this had their connection studied (in England and Wales, Scotland is still ongoing) and in the near future will be notified if they can have a date acceleration to their project. The CPA is a live process that will continue to evolve as customers get added and others fall away.	19 Dec	New

# Additional questions received

Question received prior to meeting	Response					
Should non-firm connections pay less TNUoS because they have a less secure connection to the transmission network?	As this question relates to Charging and challenging the status- quo, TCMF is best placed for this question to be raised.					
Communication to industry/implementation plan of the LIFO method and the management of the LIFO stack by the Control Room	5 point plan (5) Non-firm offer development will mimic the industry standard LIFO method when managing non firm offers. The detail of this will be worked out and communicated with industry when the notification process is developed.					

# Transition Plan - Topics

Topic	Visibility	Signposting
Connections Applications	<ol> <li>Monthly TCMF &amp; CISG meeting</li> <li>Monthly Connections Agora</li> </ol>	We can add you to the distribution list for these meetings otherwise sign-up details for meetings and outputs of meetings can be found <a href="here">here</a> and <a href="here">here</a> .
5 point plan (1) TEC amnesty	Closing down – updates will no longer be provided	
5 point plan (2) & (3) CPA review & Treatment of Storage	<ol> <li>Monthly Connections Agora</li> <li>Connections Newsletters</li> </ol>	Sign up to the Connections newsletter <u>here</u>
5 point plan (4) Queue Management	<ol> <li>Queue Management webinars</li> <li>Connections Newsletters</li> </ol>	Any questions you have can be directed to your Connections Contract Manager in the first instance or you can email the Connections mailbox: <a href="mailto:transmissionconnections@nationalgrideso.com">transmissionconnections@nationalgrideso.com</a> For publicly available information, click <a href="mailto:here">here</a>
5 point plan (5) Non-firm offer development	<ol> <li>Monthly Connections Agora</li> <li>Connections Newsletters</li> </ol>	If you are part of the roll-out, please direct any questions you have to your Connections Contract Manager. If you are not part of the roll-out, please raise any questions at the agora.
Connections Reform	<ol> <li>Monthly TCMF &amp; CISG meeting</li> <li>Monthly Connections Agora</li> <li>Connections Process Advisory Group</li> <li>Connections Newsletters</li> <li>Possible targeted stakeholder workshops to help finalise position on outstanding issues</li> </ol>	For specific queries- box.connectionsreform@nationalgrideso.com  For publicly available information, click <a href="mailto:here">here</a>

## **Transition Plan**

Topic	Visibility	Signposting
New modifications	<ol> <li>Monthly TCMF &amp; CISG meeting</li> <li>CUSC panel</li> </ol>	We will continue to discuss new ESO modifications at TCMF & CISG prior to taking mod to CUSC panel.
		Comments on modifications can continue to be sent to ESO Code Governance team: code.administrator@nationalgrideso.com

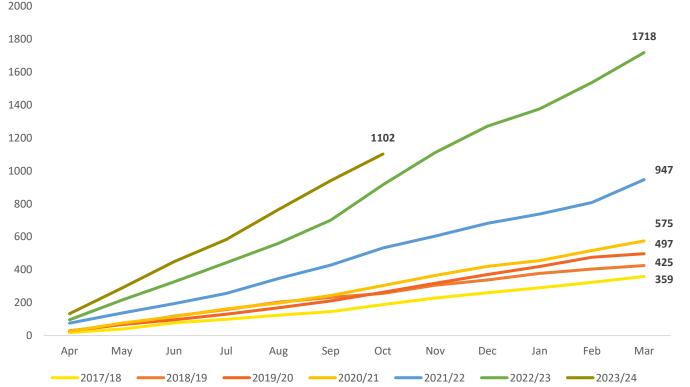


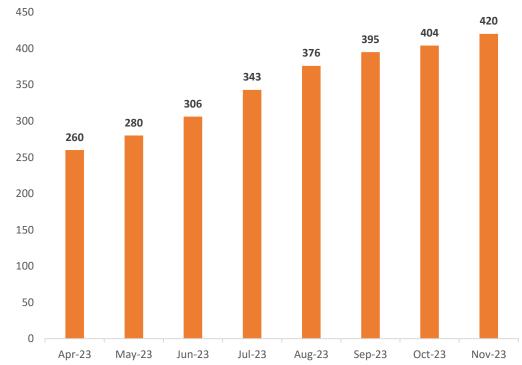
### **Connection Applications**

The number of licenced connection applications has increased over the last 5 years, with a marked increase over the last 2 years. This increase is driven mainly by new Offshore Wind and Battery Energy Storage applications.

The increase in applications has in turn increased the contracted background and connection queue to **420GW**, which is an increase of **160GW** in the last 8 months (transmission only).



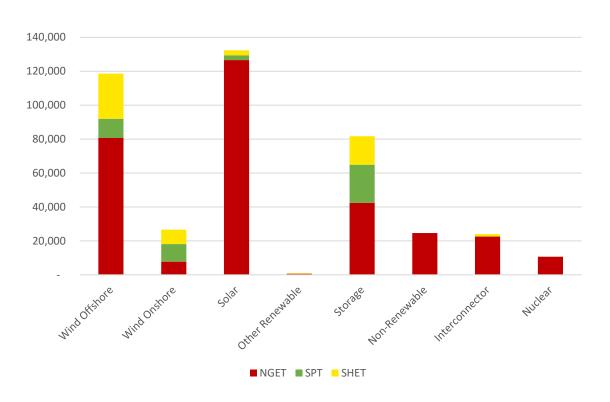


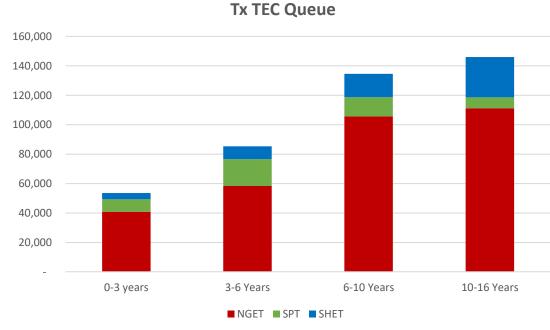


### **Connections Queue**

The contracted background is still growing, with more applications offsetting a falling acceptance rate.

Circa <u>420GW</u> of generation projects are currently seeking to connect to the electricity transmission system, yet our data shows that up to <u>70%</u> of those projects may never be built. There is <u>142GW</u> currently in the distribution queue.

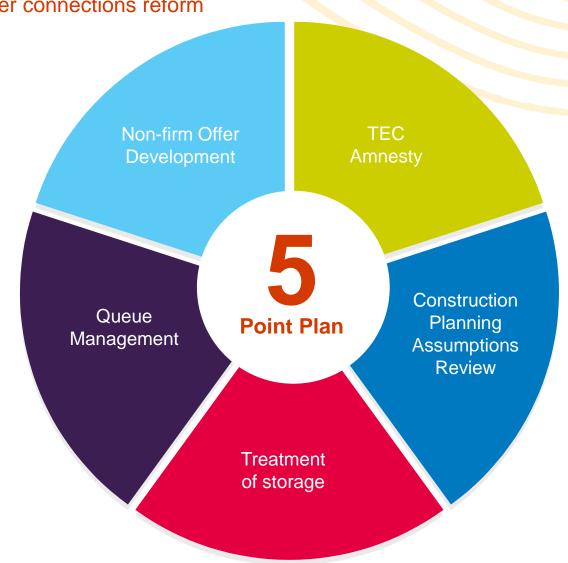




### Our 5 Point Plan

Our 5-Point Plan is a set of Tactical Initiatives ahead of the wider connections reform

- 1. TEC Amnesty
- 2. Construction Planning Assumptions Review
- 3. Treatment of Storage
- 4. Queue Management
- 5. Non-firm Offer Development





# CPA Review and Treatment of Storage

#### Construction Planning Assumptions Review (CPA)

We are changing the assumptions that most projects in the queue will connect to reflect a 30-40% connection rate

#### Treatment of Storage (BESS)

We are revising the way storage connections are modelled using insight resulting of a better understanding of its behavior. These changes will allow storage to connect quicker and support unlocking more capacity to connect others.

#### Transmission Works Review (TWR)

Together the above changes are being reflected in the Transmission works review where we hope to improve connection dates and reduce works.

In England and Wales the two step offer process has been introduced to allow the TWR to be completed alongside the usual connections process

The existing connections process is still in operation in Scotland.



### Queue Management

- There is currently no mechanism in the CUSC to terminate projects that are not progressing.
- CMP 376 is the CUSC Mod which would give the ESO powers to terminate agreements that are not progressing
- Final work group report was submitted to Ofgem on the 7th June
- Currently developing a substantial guidance document and working with TO's on implementation
- CMP 376 was approved on the 13<sup>th</sup> November



### Non-firm Offer Development

#### Context

We published an <u>update</u> in June. It allows storage to connect once certain non essential enabling works are completed on a non-firm (customer choice) basis.

### What has happened since then

We have been working with the TOs and the DNOs (through the ENA's Strategic Connections Group) to develop the detail that underpins the policy. In addition we have analysed our <u>EOI</u> to understand the appetite for an accelerated non firm connection date for storage.

### Update

We will imminently launch tranche 1 for E&W . This will be for ~20 customers (~10GW) and will include Queue Management milestones

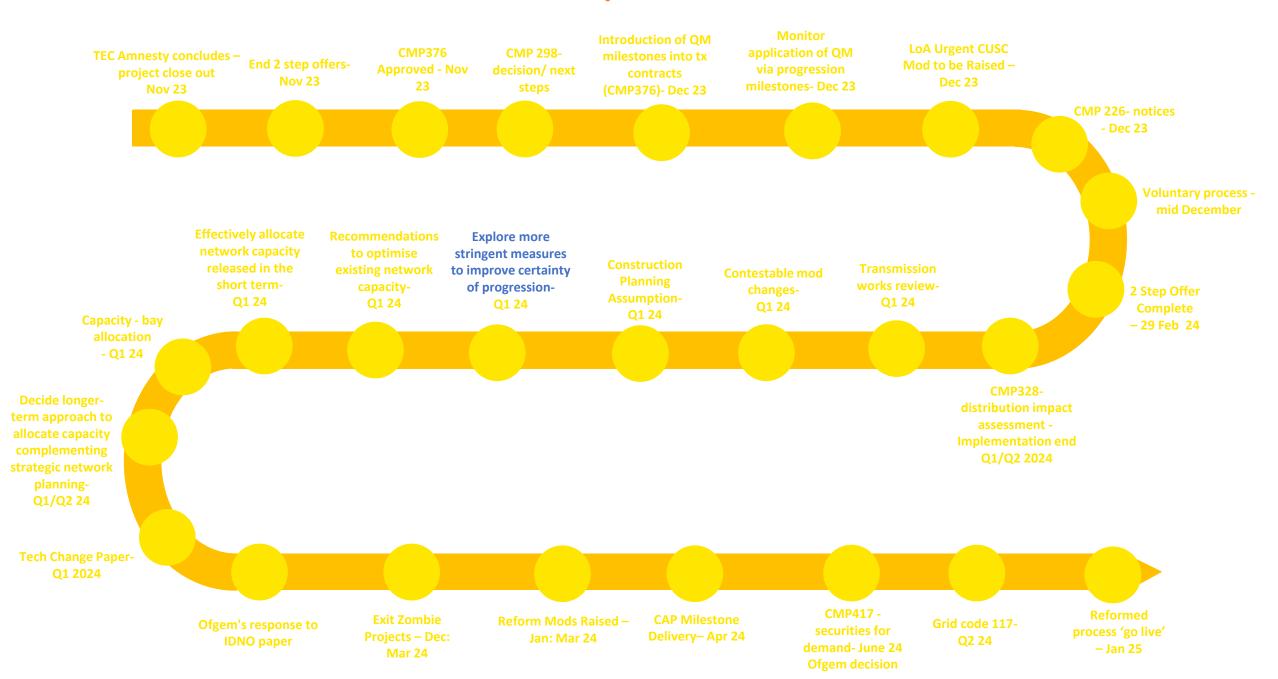
Tranche 2 (E & W) to be worked up from March onwards.

Dates to roll out the initiative for Scottish storage sites are still under discussion and are dependent on us finalising the policy

Small and medium distribution connected sites are being progressed together with ENA Strategic Connections Group



## **Connections Roadmap - the next 6 months...**

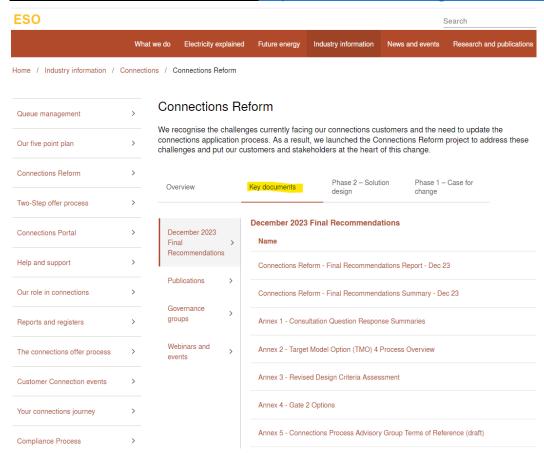




# Connections Reform – Final Recommendations published/

Summary of our Final Recommendations - https://www.nationalgrideso.com/document/298491/download

Final Recommendations - https://www.nationalgrideso.com/industry-information/connections/connections-reform#Key-documents



In person event held 12 December and webinar 14 December to explain final recommendations

# Our proposed implementation strategy and timeline

Aiming for **go live by 1 January 2025** 

Key aspects of reformed process to be developed on an expedited basis as part of the Minimum Viable Product

Based on progressing necessary code modification under the urgency criteria

View to submitting these modifications in April 2024 for approval by Ofgem in mid to late 2024

IMPLEMENTATION PLAN			2023			2024 20												5
		Q4			Q1			Q2			Q3						Q1	
TASK	0	N	D	J	F	М	Α	М	J	J			0	N	D	J	F	М
GOVERNANCE																		
Final reform recommendations published																		
PHASE 3 Mobilised															/			
Expected decision on additional changes to be made																		
Connections Delivery Board																		
Connections Process Advisory Group																		
Communications strategy																		
PRE 'GO-LIVE' CHANGES																		ı
Letter of Authority - base-level implemented*																П		
Pre-Application - enhanced industry information on ESO website				Р	art	1						Par	t 2					
Online portal pre-Application stage functionality																		
REFORMED PROCESS - MVP																		
Process mapping and detailed design of end-to-end process																П		
Network design methodology																П		
Licence change - Ofgem-led																П		
Urgent Code Changes - CUSC, STC, STCP (GC & DCUSA tbc)																		
Identify changes required, draft changes through CPAG																		
Raise code changes at Panel																		
Code Change Process																		
IT and systems																		
Data and processes																		
Develop secondary processes																		
People - Recruit additional staff (ESO, TOs, DNOs)																		
People - Training for ESO, TO, DNO staff																		
Industry guidance (pre-launch, then annual review)																ш		
Internal guidance, SOPs and training																		
REFORMS GO-LIVE																		
Publish guidance																		
Release portal functionality																		
Stakeholder events																		
Launch communications																		
REFORMS LIVE - WINDOW 1 OPENS																		
Note:																		

#### Note:

<sup>\*</sup> An enhanced Letter of Authority will also be included within proposed code changes The "Non-MVP" reformed process changes timetable is to be confirmed

#### **Governance**

We will create a new Connections Process Advisory Group from January 2024

- to enable industry to steer detailed process design and code modifications within parameters in final recommendations
- independent chair
- fortnightly meetings
- will report into new Connections Delivery Board

#### Connections Delivery Board will:

- provide strategic direction on changes to the connections process; and
- hold organisations to account for timely and coordinated delivery of these changes



## Next Steps

Implementation phase starting from January 2024.



### **Email us**

Box. connections reform@national grideso.com

## **Next steps**

- Focus topic for next meeting
- Proposed date of next meeting is 23. January
- AOB

# **Long Term Actions – to be passed on to BESS non-firm project** team

ID	Description	Owner	Action	Update
007	Non-firm – Curtailment information	WK/DR	What information will the rest of market have on the quantum of curtailment behind T boundaries, both ahead of time and real time?	24/10/23 - The detailed process for notifying storage has not been developed yet and will be developed ahead of the first storage providers connecting under this initiative ~2026
800	Non-firm – Curtailment times	WK/DR	How long is the curtailment to be active— in market timeframes for the products being used by the ESO, such as settlement period(s) in BM?	24/10/23 - The detailed process for notifying storage has not been developed yet and will be developed ahead of the first storage providers connecting under this initiative ~2026
012	Non-firm and TNUoS task force	CG	TNUoS taskforce have non-firm as out of scope however the ESO is trying to encourage it. Reach out to TNUoS taskforce to discuss why it may not be in their scope of work	ESO has discussed this briefly with OFGEM and it's been raised at TNUoS taskforce. More thought needed on this before the appropriate forum for discussion is confirmed.
028	Constraint notifications	WKW/A Q	Review feedback received on constraint notifications from subgroup as a consideration throughout the development of the BESS non-firm product	The ESO has heard the concerns about notifications and this will be factored into the development of the notification process. See action 7.
029	Constraint notifications	CG	ESO to clarify what constraint data they publish in real time	Agreed at sub-group 14/11 to categorise this as a long- term action as it needs to be picked up by the project team once in-situ

