CMP434 Implementing Connections Reform
CM095 Implementing Connections Reform

Workgroup Meeting 2, 14 May 2024

Online Meeting via Teams

ESO


WELCOME

Agenda

Topics to be discussed	Lead
Timeline and Topics	Chair
Workgroup Membership Check	Chair
Overview of primary process	Proposer (JH)
Clarifying which projects go through the primary process	Proposers/SMEs
New Relevant Embedded Small/Medium Power Station considerations in the primary process	SME (AP)
Offshore considerations in the primary process	SME (DD)
Changes and the primary process	SME (DD)
Any Other Business • Actions • Query log	Chair
Next Steps	Chair

Timeline and Topics

Claire Goult – ESO Code Administrator

Timeline for CMP434 and CM095 as at 02 May 2024

Milestone	Date	Milestone	Date
Workgroup Nominations (4 Business Days)	26 April 2024 to 02 May 2024	Code Administrator Consultation (9 Business Days)	19 August 2024 to 02 September 2024
Ofgem grant Urgency	01 May 2024(5pm)	Draft Final Modification Report (DFMR) issued to Panel (3 Business Days)	09 September 2024
Assuming Ofgem have granted Urgency Workgroup meetings 1 - 10	07 May 2024 14 May 2024 16 May 2024 22 May 2024 28 May 2024 05 June 2024 11 June 2024 13 June 2024 18 June 2024 20 June 2024	Panel undertake DFMR recommendation vote (Special Panel)	13 September 2024 (by 2pm)
Workgroup Consultation (8 Business Days)	25 June 2024 – 05 July 2024	Final Modification Report issued to Panel to check votes recorded correctly	13 September 2024 (by 4pm)
Workgroup meeting 11 - 15	16 July 2024 18 July 2024 24 July 2024 30 July 2024 06 August 2024	Final Modification Report issued to Ofgem	13 September 2024 (by 5pm)
Workgroup report issued to Panel (2 Business Days)	13 August 2024	Ofgem decision	06 November 2024
Special Panel sign off that Workgroup Report has met its Terms of Reference	16 August 2024	Implementation Date	01 January 2025

Outline of Workgroup(s) Meeting Topics

WG meeting 1	• Set the scene, ToR, timeline, ways of working, context -why connections reform, what are the issues and solutions, what is and isn't scope, cross code impacts, who is impacted and how?
WG meeting 2	• Clarifying which projects go through the primary process. • Clarifying any deviations from primary process e.g. for certain technologies.
WG meeting 3 and WG meeting 4	• Gate 1 criteria (including financial element requirement) and process • Gate 1 Licence changes • Introducing the concept of a Connections Network Design Methodology (the content and any approvals of this to be covered outside the Code Modification process) and DFTC
WG meeting 5 and WG meeting 6	• Gate 2 Criteria (including financial element requirement) , Letter of Authority changes (allowable amendments to red line boundaries and introduction of duplication checks), including impacts to Queue Management (Milestones and impact to all contracts) and NESO designation (criteria and process)
WG meeting 7 and WG meeting 8	• Gate 2 process (including how DNOs notify the ESO of Relevant Embedded Small Power Stations or Relevant Embedded Medium Power Stations which meet Gate 2 criteria) • Gate 2 licence changes
WG meeting 9 and WG meeting 10	• Gate 1 and Gate 2 disputes process, • Gate 1 offer/contract content, • Gate 2 offer/contract content • Implementation approach • Identify which STCPs will change (STC only) • Identify which sections of legal text will change (Separate CUSC and STC) • Finalise WG Consultation (Separate CUSC and STC)
WG meeting 11	• Assess WG Consultation responses, discuss new points • Discuss potential alternatives and agree who develops these
WG meeting 12 and WG meeting 13	• Finalise WG Alternatives (CUSC 1st then reflect in STC) • Legal Text (Separate CUSC and STC)
WG meeting 14	• Finalise Legal Text (Separate CUSC and STC) • WG Alternative Vote (Separate CUSC and STC) • This is where we are re: Alternatives (Separate CUSC and STC)
WG meeting 15	• Workgroup Report (Separate CUSC and STC) • Workgroup Vote (Separate CUSC and STC)

Workgroup Membership Check

Claire Goult – ESO Code Administrator

CMP434 - Implementing Connections Reform Workgroup Proposed Membership

Code Administrator Modification Chair: Claire Goult
Code Administrator Technical Secretary: Stuart McLarnon

Code Modification Page
Code Governance Rules

Role	Name	Company	Industry Sector
Proposer	Joe Henry	ESO	System Operator
Workgroup Member	Alex Ikonic	Orsted	Generator
Workgroup Member	Barney Cowin	Statkraft	Generator
Workgroup Member	Bill Scott	Eclipse Power Networks	Network Operator
Workgroup Member	Brian Hoy	Electricty North West Limited (ENWL)	Network Operator
Workgroup Member	Callum Dell	Invenergy	Generator
Workgroup Member	Charles Edward Cresswell	Cero Generation	Generator
Workgroup Member	Claire Hynes	RWE Renewables	Generator
Workgroup Member	Deborah MacPherson	Scottish Power Renewables	Generator
Workgroup Member	Ed Birkett	Low Carbon	Generator
Workgroup Member	Garth Graham	SSE Generation	Generator
Workgroup Member	Grant Rogers	Qualitas Energy	Generator
Workgroup Member	Greg Stevenson	SSEN Transmisson (SHET)	Onshore Transmission Licensee
Workgroup Member	Helen Snodin	Fred Olsen Seawind	Generator
Workgroup Member	Helen Stack	Centrica	Generator
Workgroup Member	Hooman Andami	Elmya Energy	Generator
Workgroup Member	Joe Colebrook	Innova Renewables	Generator

CMP434 - Implementing Connections Reform Workgroup Proposed Membership

Code Administrator Modification Chair: Claire Goult
Code Administrator Technical Secretary: Stuart McLarnon

Code Modification Page
Code Governance Rules

Role	Name	Company	Industry Sector
Workgroup Member	Kyran Hanks	WWA Ltd	Panel Member
Workgroup Member	Luke Scott	Northern Powergrid	Network Operator
Workgroup Member	Paul Jones	Uniper	Generator
Workgroup Member	Paul Youngman	Drax	Central service for generation and supplier licences
Workgroup Member	Pedro Javier Rodriguez Delgado	Lightsourcebp	Generator
Workgroup Member	Phillip Addison	EDF Renewables	Generator
Workgroup Member	David Tuffery	NGED	Network Operator
Workgroup Member	Mark Field	Sembcorp Energy (UK) Limited	Legal, Regulation and Compliance
Workgroup Member	Michelle MacDonald Sandison	SSEN	Network Operator
Workgroup Member	Zygimantas Rimkus	Hutcheson Associates (Nominated on behalf of Buchan Offshore Wind)	Consultancy
Workgroup Member	Ravinder Shan	FRV TH Powertek Limited	Generator
Workgroup Member	Richard Woodward	NGET	Onshore Transmission Licensee
Workgroup Member	Rob Smith	Enso Energy	Generator
Workgroup Member	Sam Aitchison	Island Green Power	Developer
Workgroup Member	Simon Lord	ENGIE	Generator
Workgroup Member	Allan Love	Scottish Power Transmission	Onshore Transmission Licensee

CMP434 - Implementing Connections Reform Workgroup Proposed Membership

Code Administrator Modification Chair: Claire Goult
Code Administrator Technical Secretary: Stuart McLarnon

Code Modification Page
Code Governance Rules

Role	Name	Company	Industry Sector
Workgroup Member	Wendy Mantle	Scottish Power Energy Networks	Network Operator
Workgroup Member	Zivanayi Musanhi	UK Power Networks	Network Operator
Authority Representative	Lee Wilkinson / Rory Fulton	Ofgem	-
Workgroup Member	Anthony Cotton	Energy Technical & Renewable Services Ltd	Other

Observers

Role	Name	Company	Industry Sector
Observer	Barnaby Wharton	RenewableUK	Trade association - representing generators
Observer	Gillian Hilton	SSE Group	Network, Supplier and Generator
Observer	Jeremy Sainsbury	Fred Olsen Renewables	Generator
Observer	Kirill Glukhovskoy	AQUIND Limited	Interconnector Licensee
Observer	Kyle Smith	Energy Networks Association	Other - Trade Association
Observer	Loukas Papageorgiou	RWE	Generator
Observer	Matt Predescu	Eclipse Power Solutions	Network Operator
Observer	Max Forshaw	Octopus Energy Group	Generator
Observer	Sarah Graham	Ocean Winds	Generator
Observer	Graz Macdonald	Waters Wye & Associates	Consultant
Observer	Alice Varney	ElecLink	Interconnector
Observer	Amir Fazeli	Emeren	Unknown

CM095 - Implementing Connections Reform Proposed Workgroup Membership

Code Administrator Modification Chair: Lizzie Timmins
Code Administrator Technical Secretary: Andrew Hemus

Code Modification Page
Code Governance Rules

Role	Name	Company	Industry Sector
Proposer	Graham Lear	ESO	System Operator
Workgroup Member	Allan Love	Scottish Power Transmission	Onshore Transmission Licensee
Workgroup Member	Claire Hynes	RWE Renewables	Generator
Workgroup Member	Garth Graham	SSE Generation	Generator
Workgroup Member	Greg Stevenson	SSEN Transmission (SHET)	Onshore Transmission Licensee
Workgroup Member	Helen Snodin	Fred Olsen Seawind	Generator
Workgroup Member	Joe Colebrook	Innova Renewables	Generator
Workgroup Member	Kyran Hanks	WWA Ltd	Other / Consultant
Workgroup Member	Paul Jones	Uniper	Generator
Workgroup Member	Richard Woodward	NGET	Onshore Transmission Licensee
Authority Representative	Lee Wilkinson / Rory Fulton	Ofgem	-

Observers

Role	Name	Company	Industry Sector
Observer	Jeremy Sainsbury	Fred Olsen Renewables	Generator
Observer	Joel Mattthews	DTC	Offshore Transmission Licensee
Observer	Amir Fazeli	Emeren	Unknown

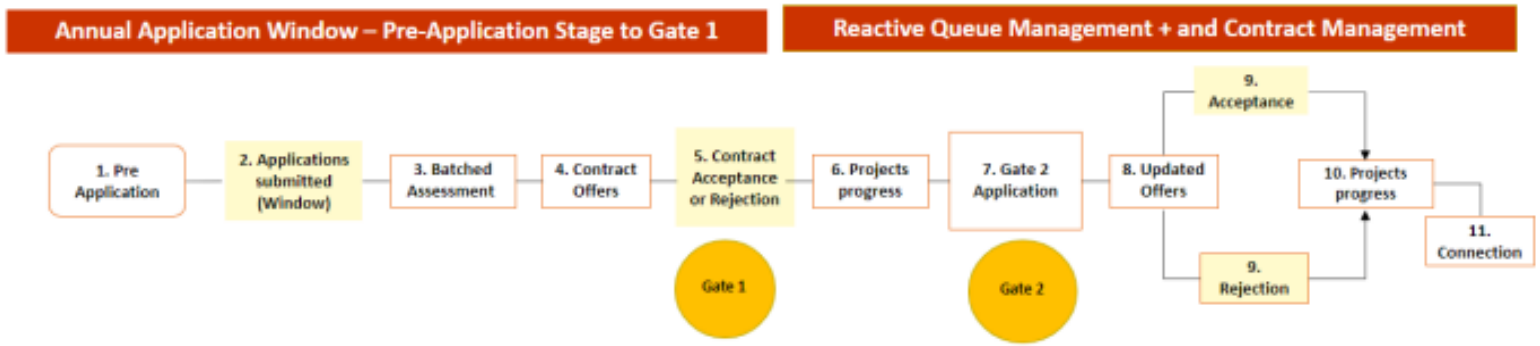
Overview of Primary Process

Joseph Henry – ESO

Primary Process

New Process

- Annual application process with 2 formal gates
- Applicable to relevant projects received after “go live” – 1st January 2025
- Gate 1 – Indicative Connection Date and location given following batched assessment. Right to Technology and Capacity granted
- Gate 2 determines project specifics such as queue position, connection date and location confirmed, and User commitment sought to apply with QM milestones
- **NB – Distribution Forecasted Transmission Capacity (DFTC) submission is submitted in application window**



Clarifying which projects go through the primary process

Proposers/SMEs

Primary Process

Who does this apply to?

We propose that the following groups of customers will follow the primary process (Gate 1) from ‘go live’ date (planned for 1 January 2025):

• New Directly Connected Generation, New Directly Connected Demand, New Interconnectors (and Offshore Hybrid Assets), New Relevant Embedded Small Power Stations (via the DNO), New Relevant Embedded Medium Power Stations (via the DNO), New Embedded Large Power Stations and any significant Modification Applications in relation to such projects.

New Relevant Embedded Small/Medium Power Station considerations in the primary process (DFTC)

Alison Price – ESO SME

Distribution Forecasted Transmission Capacity – Deviation from Primary Process

High level overview of DFTC
The introduction of a **DFTC submission** to allow DNOs to forecast capacity in the Application Window on behalf of Relevant Embedded Small Power Stations and Relevant Embedded Medium Power Stations on an anticipatory basis so that the DNOs can continue to make connection offers to their customers.
The connection offer from the DNO to the Relevant Embedded Small/Medium Power Station would have a transmission component similar to a Gate 1 offer at transmission i.e. it would provide an indicative connection date and location.
They would only receive a confirmed offer after the Relevant Embedded Small/Medium Power Station has gone through Gate 2.
The concept of Gate 2 will apply to Relevant Embedded Small/Medium Power Stations that demonstrate they have met the Gate 2 criteria through the DNO.

Thresholds for Relevant Embedded Small/Medium Power Stations across GB.

Small: (i) NGET - less than 50MW, (ii) SPT - less than 30MW, (iii) SHETL - less than 10MW
Medium: NGET's 50MW or more but less than 100MW

Clarification on Customer Groups and the DFTC submission/Gate 2 Application process

Customer Group	Comments	Gate 1 Application Window	Gate 2 Application Window
New Relevant Embedded Small/Medium Power Station	DNO's will provide a DFTC submission in the Application Window for New Relevant Embedded Small/Medium Power Station.	DFTC submission by DNO	Batched submission by DNO
As above with a BEGA	To get a BEGA, will need to go through the Tx application process as well as the DFTC process.	DFTC submission by DNO and Application process - User	Batched submission by DNO and Application process - User
New Relevant Embedded Small/Medium Power Station connected through IDNO's embedded in a DNO	Distribution iDNOs that want to connect new Relevant Embedded small/medium Power Stations will apply to the DNO.	Will be included in the DFTC submission by DNO	Batched submission by DNO
As above with a BEGA	To get a BEGA, will need to go through the Tx application process as well as the DFTC process.	DFTC submission by DNO and Application process - User	Batched submission by DNO and Application process - User
New Relevant Embedded Small/Medium Power Station connected into transmission connected IDNO	IDNO's will provide a DFTC submission in the Application Window for New Relevant Embedded Small/Medium Power Station.	DFTC submission by IDNO	Batched submission by IDNO
As above with a BEGA	To get a BEGA, will need to go through the Application process as well as the DFTC process.	DFTC submission by IDNO and Application process - User	Batched submission by IDNO and Application process - User

Thresholds for Relevant Embedded Small/Medium Power Stations across GB.

Small: (i) NGET - less than 50MW, (ii) SPT - less than 30MW, (iii) SHETL - less than 10MW
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Offshore considerations in the primary process

Dovydas Dyson – ESO SME

Offshore Considerations in the Primary Process

Leasing Rounds

When announcing a leasing round, The Crown Estate (TCE) and Crown Estate Scotland (CES) can choose whether to:

a) apply in lieu of developers and then novate the agreements to developers to better align with leasing timelines or

b) continue the developer led route where developers continue to apply.

- Either option will still follow the primary process.
- Choices can vary between TCE and CES and indeed across leasing rounds.
- Work will continue with TCE and CES to detail and develop each scenario.

Ah Hoc and Offshore Hybrid Assets

- Developers will continue to apply, following the primary process.

Changes and the primary process

Dovydas Dyson – ESO SME

Changes and the primary process

1. Deviations within the primary process

Offshore and DFTC – will both follow the primary process but will have their noted differences.

2a. Minor changes that can sit outside of the primary process during Gate 1 and Gate 2

Will be those that do not require any system studies, are more administrative in nature and can take place outside of the primary process. E.g.

- Novations
- Notices from TOs to ESO and then from ESO to Developers
- Commissioning / Decommissioning and related notices
- Charging notices

2b. Clarification on BEGAs

- DFTC's which want a BEGA. i.e. those developers that have their capacity requirement submitted via DFTC but that elect to contract via a BEGA will need to utilise the DFTC submission process and the TX application process.

Modifications and Primary Process

3a. Significant changes once Gate 2 is reached

Any changes which may need to be studied by the TO's as it may have a system operation or design impact may be submitted during the annual application submission window of the primary process. E.g.

- TEC Reduction – subject to any abortive / user commitment costs that may arise.
- CEC Change
- Date Change – *only* if permitted under a Queue Management exceptions process.

3b. TEC Increase once Gate 2 is reached

- Would be a new Gate 1 application for the additional TEC to be submitted during the annual application submission window of the primary process.

4. Significant changes during Gate 1

- Similarly to 3a. any changes which may need to be studied by the TO's would need to be submitted during the annual application submission window of the primary process. The mechanics of that, e.g. whether these changes will require a new Gate 1 application or the modification of the existing Gate 1 to be worked through.

Any Other Business

Claire Goult – ESO Code Administrator

Workgroup Raised	Owner	Action
WG1	PM	To share further data is shared in relation to the transmission queue
WG1	JH/PM	To clarify if it is the modification is intending to cover a demand application at the distribution level which causes a transmission reinforcement.
WG1	JH	Tighten up the language RE: User Commitment Methodology/ Final Sums
WG1	JH	Changing the wording from 'change the Network Charging arrangements' to 'Network use of system Charging arrangements' are out of scope
WG1	JH/RW	Collaborate and finalise the Terms of Reference whilst cross checking against CM095.

Next Steps

Claire Goult – ESO Code Administrator