

# SOGL Prequalification processes



Grid Code Review Panel - 16 May 2018

*Rob Selbie* – National Grid

# Agenda

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- Background
- SOGL prequalification requirements
- Proposed Grid Code modification
- Impacts and other considerations
- Implementation

## Background

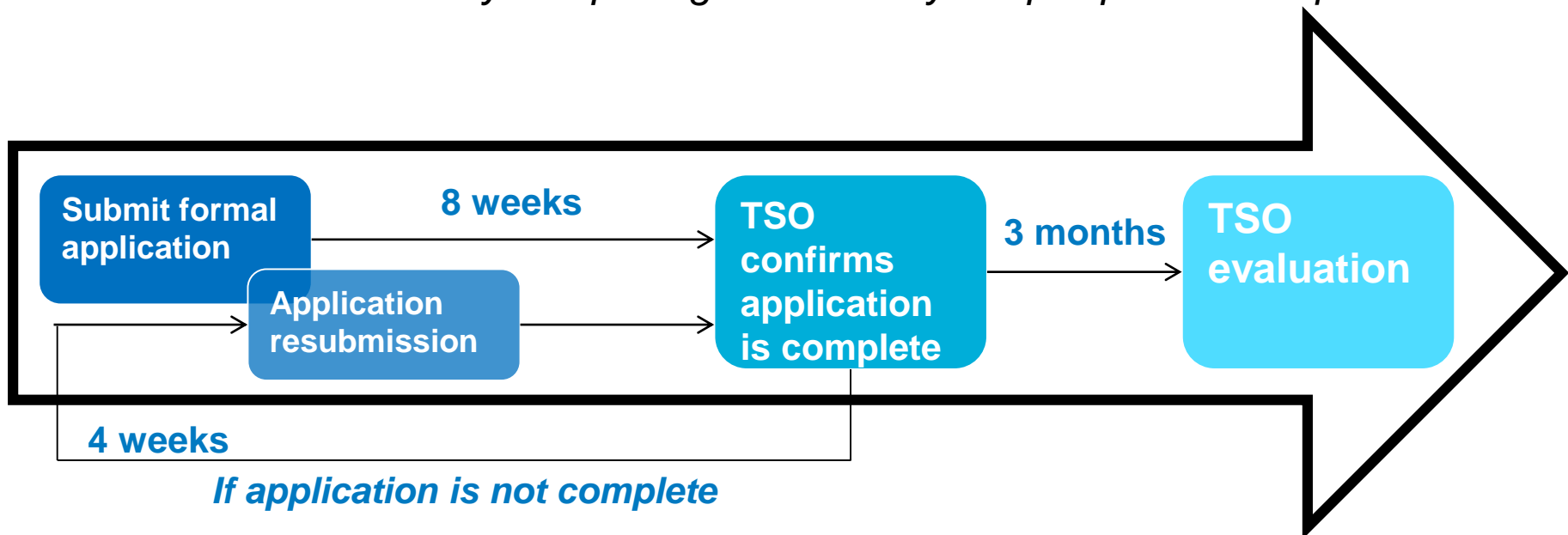
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- The EU System Operation Guideline (SOGL) requires NGET to develop prequalification processes for Frequency Containment (FCR), Restoration (FRR) and Replacement Reserves (RR) by 18 September 2018.
- These prequalification processes are new processes in GB.
- In line with stakeholder feedback NGET proposes to develop these new processes under the established governance of the Grid Code.
- This Grid Code modification does not need to be finalised by the 18 September 2018 deadline. NGET will publish the details of the processes in September 2018, whilst acknowledging any further development which may be ongoing.

## SOGL prequalification requirements

***“prequalification’ means the process to verify the compliance of a reserve providing unit or a reserve providing group with the requirements set by the TSO”***

- SOGL requires “each TSO shall develop an FCR prequalification process” by September 2018.
- “A potential FCR provider shall demonstrate to the reserve connecting TSO that it complies with the technical and the additional requirements set out in Article 154 by completing successfully the prequalification process”



## SOGL prequalification requirements

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Each FCR providing unit and each FCR providing group shall;

- a) activate the agreed FCR by means of a proportional governor reacting to frequency deviations or alternatively based on a monotonic piecewise linear power-frequency characteristic in case of relay activated FCR.
- b) be capable of activating FCR within the frequency ranges specified in Article 13(1) of Regulation (EU) 2016/631.
- c) and comply with the following properties
  - i) Maximum combined effect of inherent frequency response insensitivity and possible intentional frequency response dead band of the governor of the FCR providing units or FCR providing groups of 15 mHz
  - ii) FCR full activation time of 10 s
  - iii) FCR full activation frequency deviation of  $\pm 500$  mHz
- d) specify the limitations of the energy reservoir of its FCR providing units or FCR providing groups

*\* Note I have focussed on FCR requirements here, but requirements also exist for FRR and RR.*

## SOGL prequalification requirements

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[Article 155 SOGL]

*“6. The qualification of FCR providing units or FCR providing groups shall be re-assessed:*

- (a) at least once every 5 years;*
- (b) in case the technical or availability requirements or the equipment have changed;  
and*
- (c) in case of modernisation of the equipment related to FCR activation.”*

*\* Note I have focussed on FCR requirements here, but requirements also exist for FRR and RR.*

## Proposed Grid Code Modification

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- Modification proposes to introduce a new section to the Grid Code to describe the SOGL prequalification processes.
- NGET believes existing GB balancing services used to manage frequency can be maintained but must be mapped to one of the above categories. E.g. primary response maps to FCR, STOR to RR.
- The processes described in this modification will describe the necessary process in accordance with the EU requirements.

## Why in the Grid Code?

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- Prequalification processes must be developed by 18 September 2018, and SOGL specifies some minimum requirements. There is no governance requirement in SOGL for the process development, and no regulatory approval required.
- Joint work with the DCRP may be required as some balancing services are procured from distributed providers.
- May also be necessary to signpost the Grid Code prequalification processes in C16, so ensure visibility for parties not subject to the Grid Code.
- Consistent with the approach taken under GC0104.



# Justification against Applicable Grid Code Objectives

| Relevant Objective   | Identified impact |
|--|-------------------|
| To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity  | Positive          |
| To facilitate competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity) | Positive          |
| Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole   | Positive          |
| To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and  | Positive          |
| To promote efficiency in the implementation and administration of the Grid Code arrangements   | Neutral           |

## Impacts and other considerations

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- Potential cross-code working with Dcode
- Workgroup participation from smaller balancing services providers would be valuable, potential engagement through Open Networks Project and Power Responsive
- Noted that GC0097 is also developing prequalification processes for TERRE
- No identified consumer or environmental impacts

## Implementation

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- Large degree of flexibility in SOGL on implementation options and timescales.

Options;

- Automatic prequalification for existing service providers with review in 5 years time
- Prequalification processes defined and implemented as and when with new service providers
- Other options to be developed by the workgroup

## Code Administrator



Chrissie Brown  
16 May 2018

# Code Administrator Proposed Progression

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- Panel is asked to:
  - Agree that this modification will **not** have a material impact and therefore should be treated as Self-Governance
  - Agree that these modifications should be developed by a Workgroup and whether a consultation should be administered
  - Agree that if yes to the question above where these discussions should occur
  - Discuss and agree when Workgroup Report will should be issued to GCRP (Prioritisation of modification)
  - Agree the Terms of Reference for the modification