

## **Grid Code Reactive Power Working Group**

### **Terms of Reference**

#### **Background**

Papers were presented to the May 2008 GCRP (pp08/20, pp08/21 and pp08/26) highlighting a number of issues associated with the provision of system services, including reactive power, from new technologies. The GCRP recommended establishing a joint Reactive Power working group with the CUSC (Balancing Services Standing Group) to pursue the issues initially under the governance of the Grid Code, although any changes to the Codes that the Working Group may eventually recommend would need to be progressed subsequently under the relevant governance arrangements of each Code. There may also need to be changes to the SQSS arising from the deliberations of the Working Group.

#### **Objectives**

The objective of the group is to discuss the issues raised in pp08/20, pp08/21 and pp08/26 and agree a way forward regarding appropriate modifications to the Grid Code and the CUSC in respect of provision of reactive power. The Working Group will report back to the Panel and make recommendations. An overview of the formal governance process for both the Grid Code and the CUSC is detailed in a diagram in annex 1.

#### **Membership**

The membership of the working group will be drawn from the GCRP or their nominated representatives, the CUSC Panel or their nominated representatives, the Relevant Transmission Licensees and Ofgem.

#### **Scope of Work**

The group will consider the following issues, as agreed by the GCRP:

- (a) Identify whether any of the new generation technologies that are likely to connect to the GB Transmission System prior to 2020 may not be able to meet the existing Grid Code obligations with respect to reactive power.
- (b) Identify possible solutions in either the Grid Code and/or the CUSC to resolve any issues resulting from the above analysis
- (c) Identify all the consequences of each option considered for the Grid Code and CUSC and any other associated documents within the framework
- (d) Identify advantages and disadvantages of each option including an estimate of the cost implications
- (e) Identify any interactions and issues associated with the provision of reactive power and propose solutions to resolve any interactions and issues
- (f) Agree a preferred option(s)
- (g) Consider implementation issues and propose a solution to resolve any issues

#### **Deliverables**

Based on the outcome of the Working Group's deliberations, National Grid will produce:

- a GCRP paper recommending a way forward on the above issues, taking into account the group discussions
- a CUSC Panel paper recommending a way forward on the above issues
- draft legal text of any proposed Grid Code changes and CUSC changes as appropriate

### **Timescales**

The working group will aim to complete its work for the [September] 2009 GCRP meeting.

**Annex 1**

