Summary of the Optional Appendices

1. Vision

Appendix 1 sets out the context for the Project. It outlines our overall vision for the future electricity system needed to support and accelerate a cost effective transition to a low carbon economy, the central role for the customer within this and the important contribution our project will play in seeking to achieve it.

2. Customer Engagement Approach

Appendix 2 explains how we will select and engage consumers and then maintain engagement through the cycle of the programme. Our plan is that wherever we identify a need for customer involvement with the programme we seek interaction with customers with existing installed equipment in order to minimise programme costs.

3. Components

Appendix 3 describes the building blocks from which the trials will be built. It is in five parts. First, we describe the various monitoring devices that will be used to capture data, including British Gas's smart meter. Second, we describe the consumer equipment being encouraged under the Government's low carbon agenda that has the potential to cause challenges for the network (PV, heat pumps, etc). Third, we describe the non-network tools that can be deployed to address these challenges (time of use tariffs enabled through smart meters, and smart appliances). Fourth, we describe the network-related tools (EAVC, real time thermal rating and storage) that can be used as part of a solution. Finally, we describe the control systems that interface between the network equipment and the customer-side equipment.

4. Methodology

Appendix 4 describes the methodology that will be employed for the trials to test each of the Learning Outcomes utilising combinations of components described in appendix 3. For each Learning Outcome, it:

- Sets out in more detail what we are seeking to achieve
- Describes the reasons for wishing to pursue the particular Learning Outcome, including references to relevant academic work and previous supporting trials
- Proposes combinations of expressed customer choice, non-network solutions and network solutions most likely to achieve the Learning Outcome – the test cells
- Defines the nature and number of the test cells to be used in the trials
- Discusses the process for the tests:
    - control and comparator
    - success criteria
    - phasing/timescales
    - analysis approach
    - deployment approach

5. Location

Appendix 5 explains why the geographical locations of the elements of the project have been chosen and their particular advantages.

6. Business Case

Appendix 6 supplements the discussion in Boxes 14 and 15 on the carbon benefits and net benefits the solution will deliver. It contains the following:

- Net financial benefits the project will provide to existing and future customers;
- Carbon savings the project expects to deliver;
- Approach and methodology which the project has taken in assessing financial and carbon benefits; and
- Key assumptions which underpin the project's business case.