

	TVV	
	Appendices Summary	

THAMES VALLEY VISION LCNF PROJECT

Appendix Summary

The following appendices are included with the LCNF Bid Submission to support our Thames Valley Vision project. They include background papers, location maps, supporting academia papers, technical proposals, and details of recent customer and community events held in the local area. Therefore, we consider the attached appendices are all relevant and required to support and reinforce the Southern Electric Power Distribution (SEPD) LCNF Bid.

- Appendix 1.1 - The TVV 3Ms Smarter Operations Diagram.**
An illustration of the Thames Valley Vision project.
- Appendix 1.2 - A TVV Workpackage Schematic**
An illustration and summary of the Work Packages structure highlighting the key work package deliverables.
- Appendix 1.3 - GE LCNF Technical Proposal.**
This document summaries GE's (our technology and solution provider) plans and solutions for the future anticipated low carbon challenges.
- Appendix 2.1 - Summary Network Monitoring Devices**
A detailed summary and analysis of device locations in Bracknell and description of the types of equipment.
- Appendix 2.2 - University of Strathclyde's paper of State Estimation.**
Provides the rigour for the creation of a Bracknell grid monitored network.
- Appendix 2.3 - Business Systems Architecture Overview**
Illustrates the before and after business systems arrangements for the operation and subsequent deployment of the TVV project.
- Appendix 2.4 - LCNF Smarter Building / Demand Side Response Proposal**
A typical DSR proposal for using with large usage customers in the TVV area.
- Appendix 14.1 - Microgeneration Installations in SEPD area**
A series of graphs indicating the increased uptake in Microgeneration technologies and resultant increased load predictions. Reinforced by the BBC news report on Wednesday 1st September 2010, which reported a large increase in the take up of PVs across the UK.
- Appendix 14.2 - Net Benefit Analysis of the TVV Project**
A KEMA report providing a view on the potential GB wide Net Benefits of Demand Side Response on a low carbon electricity network.

Appendix 14.3 –	Consumer Consortia Overview Illustrations of the 1 st Large Business Event held at GE's office including the Smarter Grid demonstration unit and also the 1 st Local Community Event held at the Bracknell Lookout Discovery Centre. We also enclose a sample "Letter of Intent" which relates to the I&C Consumer Consortium members.
Appendix 14.4 –	"Business Link" Video A link to a video of Mark Mathieson (Director of Distribution) speaking and being interviewed by the local Bracknell News reporter on the subject of Future Energy.
Appendix 14.5 –	Thames Valley Vision Brochure (Draft) The TVV promotional brochure to be used to engage various stakeholders and provide a common source of information the project.
Appendix 16.1 –	University of Reading – Active Demand Modelling UoR's report on Active Demand Modelling and how it will be implemented as part of the TVV project
Appendix 16.2 –	UoR Introduction to Modelling Q & A Paper Frequently asked questions along with answers to how more comprehensive modelling will be required in the future low carbon energy.
Appendix 16.3 –	The Effects of Low Carbon on Load Factors A TVV report detailing the existing low voltage load factors (20-40%) and the effects on the load factors by utilising smarter networks solutions and DSR – refers to the Motorway example – where design in the past have been prepared for a "hot sunny bank holiday" or peak "traffic periods".
Appendix 17.1 –	Planning Model Flow Diagrams Illustration of the current and proposed planning processes and tools.
Appendix 18.1 –	Learning Matrix A diagram indicating the various interested stakeholders and how the project will attempt to address each group.
Appendix 18.2 –	Envision Centre Brochure The Duke Energy/ KEMA learning centre called "Envision Centre" located in Cininatti, USA
Appendix 18.3 –	Link to the Envision Centre learning centre
Appendix 22.1 –	KEMA Letter of Support
Appendix 26.1 –	Risk Register The initial project register of risks, actions and target dates associated with the project