LCNF Full Submission

Supplementary Answer Form

DNO Name:	Central Networks	Question Number:	CN014
Question Date:	16/09/10	Answer Date:	20/09/10
Question Topic:			

Original Question No:		Original Answer Date:	
Original Question:			
Original Answer:			

Question:	Important learnings from the project include: "economic analysis tools", "Customer behaviour models" risk evaluation models" etc as described in box 24; Can you elaborate who will be developing these tools (and the extent to which they differ from approaches already available)?

Answer:	These tools will be developed by Central Networks and research partners (Open University, Cranfield University and others) as part of the research efforts. See appendix 3 for our research themes, knowledge capture and dissemination strategy and an overview of our partners. Low carbon networks will require different modelling and analysis approaches for a number of key reasons: • Smart grid is inherently more risky – Increased reliance upon customer behaviour and commercial arrangements imply that new methods will be required to understand and quantify the risks associated with managing the network differently. • Data from our trials will allow us to better model customer behaviour under different circumstances and commercial arrangements. • There will be a requirement to evaluate whether smart grid or traditional reinforcement solutions are superior in any given circumstance. The benefits attributable to

	deployment of smart grid solutions are dependent upon the uptake of low carbon technologies such as electric vehicles and heat pumps which are in turn dependent on the oil and gas price respectively as well as any potential governmental incentives. This means that economic analysis will need to use scenarios, other methodologies to provide robust results.

Attachments:	