

LCN Fund Full Submission

Supplementary Answer Form

Tick if this answer is Confidential: ☐

Tick if this answer has been provided verbally: ☐

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| Project code: | WPDT2003 | Question Number | 23 |
| Question date | 06/10/2011 | Answer date | 13/10/2011 |
| Submission section question relates to | | | |
| Topic | Technical | | |
| Question | Has any modelling been carried out to show the theoretical potential benefits of the Method in terms of achieving higher utilisation of the LV feeder? | | |
| Notes on question | | | |
| Answer | <p>Yes, high level modelling has been carried out to estimate the benefits at bid design level. The University of Bath modelled potential energy storage dispatch strategies for demand side response with customers and DNOs operating with different percentages of the energy storage. The different charging and discharging profiles of the battery were superimposed onto customers demand profile to model the demand profile of customers with a BRISTOL solution.</p> <p>This modelling showed the flattening in customers demand profile for different scenarios, cost, carbon and network congestion. During the detailed design stage, when the trial locations have been identified, the configuration of the BRISTOL equipment has been confirmed and variable tariff designed; detailed modelling will be carried out for each customer location with the different PV panel outputs. This modelling will be extrapolated to estimate the effects on the LV feeder and the increased utilisation for demand and generation during different times of the year; this will be compared with the actual benefits observed at the trial locations and the substation feeder.</p> | | |

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| Attachments | None |
| Verbal Clarifications (Consultants) | |