

## Successful Delivery Reward Criteria

### Box 13: Please set out your proposed Successful Delivery Reward Criteria

Successful Delivery Reward criterion	Evidence
Replication of existing supply arrangements and storage heating control system associated with the Trial households on new Demand Management System. Prove the functionality of the Demand Control Units (which will also be available in smart meters) and the connectivity solution. Complete by 1 <sup>st</sup> March 2012.	Ability to demonstrate that the system works as per the existing arrangements. Produce report demonstrating the operation of the system compared to the historic operation of the system and that demand control units replicate radio teleswitch system faithfully.
Control of the heating systems with improved scheduling for the Trial group of households. Ability to demonstrate smoothing out the storage heating load demand curve compared to the baseline load demand curve for the properties under normal operations. Complete by 1 <sup>st</sup> May 2012.	Demonstrate reduction in peak demand achieved in comparison to baseline established over initial period. Quantify percentage reduction in peak heating load across the Trial area.
Laboratory simulation of additional control functionality, to be incorporated into the Demand Management System, taking cognisance of different factors such as network loadings, pricing signals, local weather, generation type etc. Completed by 1 <sup>st</sup> July 2012.	Laboratory demonstration of a working simulation model in response to a range of external operational conditions which can be shared with interested parties. Publication of algorithms used within the simulation.
Implementation of enhanced Demand Management System into the live system, incorporating additional functionality as developed in the laboratory simulation. Completed by 1 <sup>st</sup> November 2013	Demonstration of enhanced control provided by the Demand Management System due to the incorporation of additional functionality over multiple seasons. Quantify percentage reduction in peak heating load and associated carbon savings. Update of algorithms previously published from the simulation if necessary. Publish formal comparison of new system in comparison to revised scheduling and initial load profile.

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Project analysis, knowledge capture and dissemination of learning outcomes including the quantification of carbon benefits and re-evaluate potential benefits across the UK. Carry out evaluation of the project success and consider if it should be expanded. Completed by end December 2013.	<p>Publication of closedown report detailing:</p> <ul style="list-style-type: none"><li>• process followed,</li><li>• lessons learned,</li><li>• Customer feedback</li><li>• Future recommendations.</li></ul> <p>Hold open event with interested parties as means of disseminating knowledge and tours of site if required. Publication of final algorithms used and accompanying academic paper.</p>