

Electricity Network Innovation Competition Full Submission
Supplementary Answer Form

Project: OSEAIT

Tick if this answer has been provided verbally: ☐

Project code	NGET_OSEAIT	Question Number	23
Question date	08 September 2015	Answer date	11 September 2015
Submission section question relates to	Submission Spreadsheet		
Topic	Benefits		
Question	For Method 1, the Base Cost is £[REDACTED] while the Method Cost is £[REDACTED]. Please explain how these numbers were derived.		
Notes on question			
Answer	<p>Base Costs</p> <p>The Base Cost is calculated on not having a dedicated facility and still being capable of delivering and implementing the Innovation Programme over a 20 year period. This would require the barriers currently stopping these projects being trialed on the live network to be removed.</p> <p>The following assumptions have been made:</p> <ul style="list-style-type: none">• The number of sites each project would need to be trialed on in order to obtain all the required information to allow implementation.• The opportunities which might arise in terms of ageing assets on the network.• If given sufficient time, results from individual projects will combine to deliver the same output as the Innovation Programme included in the submission. <p>An alternative view would be to assume the Innovation Programme is impossible to deliver without the facility and so the Base Cost and Time would have been nil.</p>		

	<p>Method 1</p> <p>Method 1 was calculated based on the requirement to build a new facility from scratch. This would require land (brownfield/greenfield site) and the construction of a new substation.</p> <p>The total cost to deliver this new facility would be [REDACTED]. In calculating this cost the following have been considered:</p> <ul style="list-style-type: none">• The costs of the land;• The works required to construct a new outdoor air insulated double busbar 400kV substation (consisting of 15 bays; 2 busbar couplers; 2 busbar sections, 4 transformer bays and 7 feeder bays);• The cost of control room;• The cost of protection panel rooms; and• The cost of associated civil works. <p>The proposed innovation programme is £[REDACTED]. The submission stated £[REDACTED] in error. The total Method Cost is hence in the order of £[REDACTED] as opposed to the £[REDACTED] in the submission. The scale of the error does not impact the conclusion one can draw from the net benefits table.</p>
Attachments	