

Electricity Network Innovation Competition Full Submission
Supplementary Answer Form

Project: REVISE

Tick if this answer has been provided verbally: ☐

Project code	WPD/EN/NIC/05	Question Number	26
Question date	30 August 2018	Answer date	03 September 2018
Submission section question relates to	Section 2		
Topic	Business case		
Question	Please describe in more detail the counterfactual for the three proposed project methods.		
Notes on question	None		
Answer	<p><u>Advanced Connection Solution</u></p> <p>The counterfactual for the ACS as discussed in Section H.1 consists of establishing a traditional t-connection which comprises:</p> <ul style="list-style-type: none">• New pole• Pole mounted disconnector• Associated termination equipment• Ancillary items i.e. earthing, stay wires, insulators, cross-arm etc. <p>The t-connection is currently the standard lowest cost scheme for connecting new DG.</p> <p><u>Dynamic Protection System</u></p> <p>As explained in Section 2.1.2, there is currently no Solution which could adequately protect a network which is capable of a multitude of different configurations. With the implementation of INR the flexibility of the network will increase and counterfactual Solutions such as those discussed in Section 3.5.1 will not be practicable and therefore cannot be implemented as such there is no counterfactual equivalent for DPS.</p>		

	<p><u>Intelligent Network Reconfiguration</u></p> <p>Building upon our response to Question 16 and the details provided in Section H.3, the counterfactual case for the INR method is traditional reinforcement of the existing network to create additional capacity. This traditional reinforcement consists of the following:</p> <ul style="list-style-type: none"> • Installation of a new 33kV circuit: <ul style="list-style-type: none"> – Average length of 3.48km using LTDS data – Comprising of cable and overhead line sections based on average volumes installed over the last seven years – Terminations • Installation of new switchgear in the form of a 33kV circuit breaker at the Bulk Supply Point and associated ancillary equipment.
Attachments	None