

Gas Network Innovation Competition Full Submission
Supplementary Answer Form

Project: CLoCC

Tick if this answer has been provided verbally: ☐

Project code	NGGTGN03	Question Number	19						
Question date	08/09/2015	Answer date	10/09/2015						
Submission section question relates to	a) Enviro+consumer bens								
Topic									
Question	Please can you clarify how the £1m connection costs savings identified in this project are realised? For example, what is technological innovation and what is process innovation?								
Notes on question	N/A								
Answer	<p>The table below illustrates where we believe we can achieve our £1m connection costs savings through both technological and process innovation:</p> <table border="1"> <thead> <tr> <th></th><th>Indicative costs (£k)</th><th>Innovation Opportunities</th></tr> </thead> <tbody> <tr> <td>Feasibility and Detailed Design</td><td>250</td><td> <p>Very significant saving potential</p> <p>Technical savings - as the design will be an "off the shelf" design and will have been scaled for multiple connection sizes through the use of parametric modelling techniques we would expect any feasibility and design costs to be minimal.</p> <p>Process savings – the visual on-line portal will allow customers to visualise the connection reducing interactions and time.</p> </td></tr> </tbody> </table>				Indicative costs (£k)	Innovation Opportunities	Feasibility and Detailed Design	250	<p>Very significant saving potential</p> <p>Technical savings - as the design will be an "off the shelf" design and will have been scaled for multiple connection sizes through the use of parametric modelling techniques we would expect any feasibility and design costs to be minimal.</p> <p>Process savings – the visual on-line portal will allow customers to visualise the connection reducing interactions and time.</p>
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	Land and Planning	150	Moderate savings as the use of existing infrastructure and modular skid based solutions will reduce the land requirement and have a smaller footprint. We also intend to as much as possible pre-approve the skid design by consulting with Planning Authorities during the project.
	Main Works Contractor (inc. materials)	1300	<p>Very significant saving potential</p> <p>Technical savings – through use of best in class technology, which will lead to lower material + construction costs for example wireless instrumentation which will obviate the need for civil works and new gas quality equipment with much lower upfront costs and lower on-going operating costs,</p> <p>Process savings – the upfront design of an above ground skid unit will allow the vast majority of work to be done offsite and there will be minimal requirement for civils other than a foundation on site. The construction on-site time, which is a key driver of cost, will be a fraction of the current process.</p>
	Project Services and National Grid Staff Costs	300	<p>Significant saving potential</p> <p>Process saving – the visual on-line portal will streamline the customer interaction and minimise network analysis requirements . In addition the off the shelf skid design will reduce project duration resulting in cost savings.</p>
	Total	2000	
Attachments			