

Network Innovation Competition Full Submission

Supplementary Answer Form

Tick if this answer is Confidential: ☒

Tick if this answer has been provided verbally: ☐

Project code:	NGGTGN01	Question Number	20								
Question date	03 October 2013	Answer date	10 October 2013								
Submission section question relates to											
Topic											
Question	<p>If this application were a mature technology, where would you utilise it (and for what purpose)</p> <p>a) Within the T1 price control?</p> <p>b) Post T1 price control?</p> <p>Please delineate your answer for applications on (i) Rolls Royce and (ii) non Rolls Royce compressors.</p>										
Notes on question											
Answer	<p>If VECTOR was a mature technology offered by all manufacturers, we would consider this for all compressor replacements and re-wheels during RIIO T1 and T2</p> <p>NIC cost/benefit analysis shows VECTOR would be most likely applicable to about 15 units across 9 sites which may be affected by varying flow patterns caused by proximity to future CCGT clusters and entry points.</p> <p>Of these, 8 Rolls Royce compressors are installed in 5 sites (~53% of total).</p> <p>We currently have been allowed funding under the RIIO settlement for the following investments at compressor sites:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th style="width: 50%;">Compressor Site</th><th style="width: 50%;">RIIO Project Group</th></tr> <tr> <td>Peterborough new build</td><td>Emissions</td></tr> <tr> <td>Huntingdon new build</td><td>Emissions</td></tr> <tr> <td>Aylesbury new build</td><td>Emissions</td></tr> </table>			Compressor Site	RIIO Project Group	Peterborough new build	Emissions	Huntingdon new build	Emissions	Aylesbury new build	Emissions
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	<table border="1" data-bbox="308 107 1347 174"> <tr> <td data-bbox="308 107 828 174">Bishop Auckland re-wheel X 2</td><td data-bbox="828 107 1347 174">1 in 20 Obligation</td></tr> </table> <p data-bbox="308 241 1347 425">Based on the location of the above units, if VECTOR was a mature technology we would fit it to Huntingdon which is in the proximity of a future CCGT cluster. Huntingdon is a facility which currently has only one Rolls Royce compressor. We may also fit it to the other units if the benefit of the increase in operating savings was sufficient to offset any higher capital cost.</p> <p data-bbox="308 456 1347 712">As part of the uncertainty mechanisms within RIIO-T1, we will propose further investments for emission compliance and network flexibility. VECTOR would be considered on a case by case for each of the investments put forward, as described above for the units where we have already received funding. We would also follow a similar approach in subsequent price controls. Therefore as per our NIC submission we would expect to fit the technology to a minimum of 15 units within the medium term.</p>	Bishop Auckland re-wheel X 2	1 in 20 Obligation
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Attachments			
Verbal Clarifications (Consultants)			