

Gas Network Innovation Competition Full Submission
Supplementary Answer Form

Project: Commercial BioSNG Demonstration Plant

Tick if this answer has been provided verbally: ☐

Project code	NGGDGN02/1	Question Number	20
Question date	28/8/15	Answer date	3/9/15
Submission section question relates to	Section 4		
Topic			
Question	On what basis has the scale of the plant been selected? What evidence is there that this is adequate for potential commercial scale interests.		
Notes on question			
Answer	<p>The scale of the Project has been selected to ensure that the process flow matches a full scale facility and that moving to a full scale facility only requires an increase in size of equipment rather than changes in design or functionality. For example, the catalysts are configured such that further scale-up is achieved through multiple reactor tube banks within the reactors. This means that the Commercial Demonstrator provides direct evidence that a full scale facility will operate reliably at the expected performance.</p> <p>The scale up from the Commercial Demonstrator to a full commercial plant is around tenfold, which has been market tested as an appropriate final scale-up. Evidence that the commercial plant will provide sufficient comfort for investors is provided by the experience of other technologies. Waste to energy demonstration facilities developed by Energos, AlterNRG, Enerkem and Nextera at similar scale to that proposed here (2-5MWth) have all led to construction of full scale facilities.</p> <p>This view is supported by the Department for Transport which took a similar view in setting the required size of their commercial demonstration</p>		

	programme.
Attachments	