

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	17
Question date	28/8/15	Answer date	3/9/15
Submission section question relates to	Section 4a		
Topic			
Question	Why has NGGD decided that BEAT 2 is an appropriate methodology to use in the project objectives?		
Notes on question			
Answer	<p>In assessing the overall environmental benefit of a technology, it is important to perform a lifecycle analysis. For waste fuels this means considering not just the emissions from processing the waste feedstock but also the emissions saved through avoided alternative disposal routes.</p> <p>The BEAT2 methodology was created to provide Defra and Environment Agency staff with the means to do exactly this full lifecycle assesment, and is also widely used by DECC. It gives a good estimate of the impact of a technology on the UK's GHG emissions and the country's progress in achieving climate change targets.</p> <p>The methodology assumes that waste not used for BioSNG production would be sent to landfill, and landfill gas would be used for electricity generation, which is a fair reflection of current UK practice. It also includes emissions associated with the construction and maintenance of plants.</p> <p>Overall, NGGD considers that the BEAT2 methodology offers a well-proven and robust methodology for calculating greenhouse gas impact, and</p>		

	<p>considers important factors that are ignored by methodologies such as EC RED (see Question18).</p> <p>The difference between the values calculated by BEAT2 and by RED shows the importance of including the lifecycle considerations addressed by BEAT2.</p>
Attachments	