

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	18
Question date	28/8/15	Answer date	3/9/15
Submission section question relates to	Section 4a		
Topic			
Question	Can NGGD provide information on the EC RED methodology referred to? Do you have any information to provide a greater insight into the basis of these measurements and whether they account for other uses of RDF/other waste to energy systems		
Notes on question			
Answer	<p>The EU's Renewable Energy Directive (Directive 2009/28/EC, attached) is the legislation detailing the EU's binding commitment to sourcing 20% of its energy from renewable sources by 2020. Part C of Annex V of the legislation sets out the methodology for calculating greenhouse gas emissions from the production and use of transport fuels, biofuels and bioliquids. This methodology has been referred to as the 'EC RED methodology'.</p> <p>When applied to BioSNG produced from waste feedstocks, the relevant emissions considered by the EC RED methodology are:</p> <ul style="list-style-type: none">- Emissions related to energy emissions during processing (i.e. from heat and electricity inputs)- Emissions related to transport of feedstocks and distribution of products- Emissions from the fuel in use <p>While the methodology has been embodied in EU legislation, and is used to</p>		

	<p>determine subsidy eligibility, it does not constitute a full lifecycle analysis, which is why the BEAT2 methodology has also been used.</p> <p>In particular, the EC RED does not consider the methane that would have been emitted were the waste to have been sent to landfill, resulting in an underestimate of the full lifecycle benefit of the technology, as is made clear by the BEAT2 figures.</p> <p>EC RED does not include consideration of other uses of RDF or waste-to-energy systems; instead, it aims to calculate the emissions associated with BioSNG production from the point of collection of the waste to the point of delivery to the grid/customer.</p> <p>The NNFCC report requested in Questions 12 provides further details on the modelling undertaken and the assumptions used; see especially Sections 2 and 3.</p>
Attachments	<i>EC RED, Directive 2009-28-EC.pdf</i>