

The Carbon Recycling Network

A BBSRC Network in Industrial Biotechnology &
Bioenergy (NIBB)

Nigel P Minton

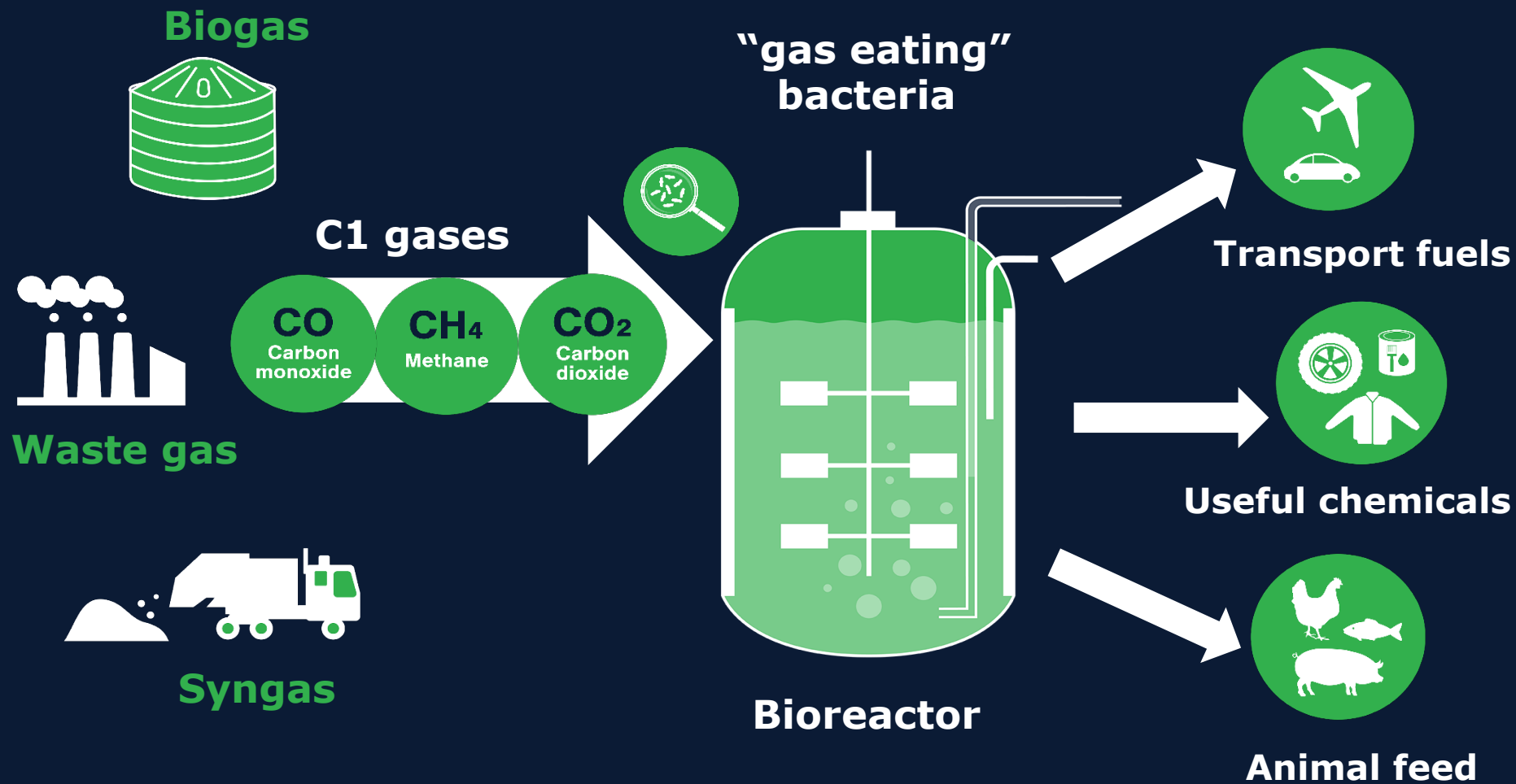


Biotechnology and
Biological Sciences
Research Council



- **Greatest challenges** facing industry and society are the future **sustainable production** of chemicals and fuels from **non-food resources** while at the same time **reducing GHG emissions & pollution**
- To date, the focus has been on the use of lignocellulosic biomass feedstocks
- Reliant on an **energy intensive pre-treatment step**, and thereafter, the **addition of costly exogenous hydrolytic enzymes** needed to convert the partially deconstructed biomass into the sugars needed by the fermentative process organisms
- The costs involved are making the development of **economic processes** extremely challenging





Advantage

- uses cheap, plentiful waste
- no competition with food for land
- carbon neutral, doesn't add to greenhouse effects
- sustainable and secure
- breaks reliance on oil & petrochemicals

Management Board Members



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Southampton
(Col)



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UCL
(Col)



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Nottingham
(Col)



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Sheffield
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(Manager)

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LanzaTech

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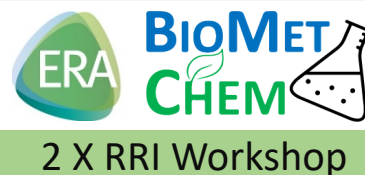


Johnson Matthey



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Members



Proof of Concept Awards (POCs)

**'Industrial Decarbonisation: Challenges
& Opportunities'**

5 X Proof of Concept Awards made @ £309K



Conference
Jan 2020

Conference
27-28 April
2021



Proof of Concept Awards – 2nd Call
‘Towards Net Zero with waste gas utilization’

Deadline - 28th February 2021

<https://carbonrecycling.net/funding-opportunity/>