

Future Gas Series: Part 2 – The Production of Low Carbon Gas | Call for Evidence

The following questions are divided into two sections. The first section comprises questions which also relate the entirety of the *Future Gas Series* and the second section relates specifically to Part 2 on the inquiry series. Carbon Connect are accepting written submissions relating to some or all of the below questions.

General Inquiry Questions

- What opportunities & benefits are offered by the use of low carbon gas as a route to decarbonise heat supply? What are the potential costs & problems associated with using low carbon gas?
- What policy levers are available to government to guide the decarbonisation of heat; why and how could they be used to support the increased use of low carbon gas?
- What should the different roles be for national and local government in managing the decarbonisation of heat and the use of low carbon gas? Are there other organisations that will need to play a key role?
- How can low carbon gas best be employed across the whole energy system, especially with regard to storage potential?
- How should a potential transition to the use of low carbon gas to provide heat be funded? Are there particular costs or savings associated with the use of low carbon gas to provide heat? How does this compare to other solutions?
- What lessons could be learnt from other large-scale infrastructure programmes such as the transition from town to natural gas, the introduction of combi boilers, the digital switchover, the iron mains replacement programme, or the rollout of smart meters?

The Production of Low Carbon Gas Questions

- What different ways are there to make (i) biomethane; (ii) bioSNG; (iii) hydrogen; and what are their relative advantages and challenges?
- How can these methods be improved and encouraged to maturity?
- What implications does producing low carbon gas have for our energy security?
- How sustainable are the different methods of producing low carbon gas?
- How affordable and practical are the different methods of producing low carbon gas at scale?
- Where could and should low carbon gas production be located?
- What government support (e.g. subsidies) or regulation is needed to encourage investment in low carbon gas production?
- What should the future of the RHI be with regards to low carbon gas?
- How are decisions over low carbon gas production currently governed and how should they be in the future?
- What are the next steps required to develop and deploy CCUS technology and infrastructure for use with low carbon gas in the UK?
- What options are there for the storage of low carbon gas, and what are their pros and cons?
- What additional opportunities arise with the roll out of low carbon gas (e.g. transport, DSR services)?