

Department of Energy & Climate Change
3 Whitehall Place,
London SW1A 2AW
T: +44 (0)300 6599
E: david.mackay@decc.gsi.gov.uk
www.decc.gov.uk

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Dear

RE: UNCONVENTIONAL GAS: CALL FOR EVIDENCE

The Department for Energy and Climate Change (DECC) is trying to expand and deepen its evidence base on the global future for unconventional gas production by collecting the views of a wide range of experts. I would particularly value and be grateful for your input into this process.

Please see overleaf a list of questions and issues that DECC is particularly interested in. I would be grateful if you were able to address these issues directly, however feel free to provide information in the format you judge most appropriate.

It would be particularly helpful if responses could be received by the end of October. Please send any responses to Antonia Custance Baker, one of DECC's economists, at antonia.custancebaker@decc.gsi.gov.uk Please also feel free to contact Antonia on 0300 068 6984 directly to discuss this issue.

Yours Sincerely,

David MacKay FRS
Chief Scientific Advisor, Department of Energy and Climate Change
Professor of Natural Philosophy, Cavendish Laboratory, University of
Cambridge

- 1) Where and how great are unconventional gas resources outside of North America?**
 - In particular, how do you see the distribution of gas resources within Europe?

- 2) What do the economics of developing unconventional gas look like?**
 - How do the costs compare across unconventional plays or between unconventional and conventional plays?
 - What are the key drivers of these costs?
 - What are main technical and economic challenges to bringing unconventional gas to market?

- 3) Where (in which region) and what magnitude are current and planned unconventional gas projects?**
 - What fraction / magnitude of investments are aimed at developing unconventional gas?
 - At what stage are these investments (e.g. FID, under construction, development stage)?
 - What do you see is that likelihood of different plays being delayed or not coming to market at all?
 - What are your projections for the amount of unconventional gas (in your portfolio) that will be produced in the coming years?

- 4) What are the barriers in each region to the further development of unconventional gas?**
 - These might be:
 - Environmental regulations;
 - Land rights;
 - Geology;
 - Technology; and
 - The availability of infrastructure.