

Appendix 1: Conventional Questionnaire

Questionnaire - GARAH Conventional Resource Assessments

Introduction

This questionnaire is intended to assess the data availability in your country related to conventional oil and gas resources in the North Sea study area. The aim of the GARAH project is to assess cross-border resources, and our approach here is not only to compare existing reporting on resource assessment, but also to compare methodologies. Initially, we are interested in existing assessments of conventional resources and associated methodologies and existing assessments of potential resources, such as yet to find, and associated methodologies. We will then take a play-based approach to collate information on conventional petroleum systems across the North Sea, and compare exploration data to see if further insight can be made regarding particular plays and regions of exploration interest.

Note: All geographic data should be supplied in ED50 31 or ETRS89-LAEA format

Note: All references should be in Geological Society of London format

Name of your geological survey:

1. State-of-the-art of conventional hydrocarbons in the North Sea offshore.

For your country, Please provide a brief overview of the current situation with regards to oil and gas exploration and production, for example: current licensing activities; planned or recent exploration activities; relinquishments; production forecasts/numbers; government priorities and policy. List relevant overview publications.

Max 500 words (without references)

2. Status of national assessments – Conventional

- a) Does your country's government/survey have a recent published resource assessment(s) for hydrocarbon resources in the North Sea? If yes, provide reference details. If not, can you provide summary resource estimates and/or methodologies? Include a reference to the USGS resource assessment that covers your country area and other published relevant regional assessments.

Oil and Gas Authority (OGA), November 2018, "UK Oil and Gas Reserves and Resources as at end 2017", London.

https://www.ogauthority.co.uk/media/5126/oga_reserves_resources_report_2018.pdf

- b) Provide details (numbers, units and methodology) of your resource assessment **in the spreadsheet**. This should be done for your country's North Sea resources as a whole, and, if you have more detailed

assessment units for regions, these can be included, for example: UK Northern North Sea; Central North Sea etc.

- c) Do you know of any other relevant resource assessments for your country area? List references below.

e.g. USGS reports
summary papers

- d) How does your country's assessment deal with prospective resources or Yet To Find? Give details of how these potential resources are classified. For example, into 'Reserves', 'Prospective' and 'Contingent' resources, and/or further subdivisions. Provide details of methodology and definitions used.

3. Summary of Play Types

- a) List the main play types in your country's North Sea sector **in the spreadsheet**. These are to be listed based on: play type status (proven, conceptual etc.); reservoir (Age or Epoch and lithology); hydrocarbon present (i.e. heavy oil, dry gas etc); main source(s) (including age and kerogen types); main seal (including age and lithology); trap type (structural or stratigraphic). Please also include a general geographic location (e.g. Viking Graben, Broad Fourteens Basin).
- b) For your country, summarise which play types have been most successful, which are relatively underexplored, and which are most promising for future exploration. List relevant references.

500 words max (not including references)

4. Exploration History

- a) From the year 2003 (by end of drilling), list all publically available released exploration wells drilled into the **spreadsheet**. Include details of: TD; Water Depth; x,y co-ordinate location; owner or company.
- b) Do you have further released well information relating to regional hydrocarbon assessments, for example: target lithology or reservoir; target play type; result (i.e. discovery or dry); discovery type (i.e. oil, gas etc). If so, is it possible to compile this information for the last 15 years within this project? Please list below what may be available and how long it would take to compile.