



## PROJECT SUMMARY

## BAT Assessment – Natural Gas Dewpointing

Confidential Client, UK



### KEY PROJECT ELEMENTS

- PPC  
IMPROVEMENT
- GAS REFINERY
- ACHIEVING BAT
- MINIMISING  
NATURAL GAS  
DEWPOINTING  
IMPACTS

CRA was commissioned by a UK gas refinery to carry out an assessment of the options available to reduce the environmental impact of a gas dew-pointing process. The refinery was in the process of making an application to operate under the Pollution Prevention and Control (PPC) Regulations. Under the requirements of PPC, the assessment was necessary to ensure that the Operator was using the Best Available Techniques (BAT) to prevent or minimise impacts of activities on the environment.

CRA performed a systematic assessment to determine BAT for this installation, identifying performance targets and assessing the technical, operational and economic feasibility of options to meet BAT requirements as set out in the Gasification, Liquefaction and Refining Sector Guidance Note. The options evaluated included retention of the current processing plant with various technical, operational and management improvements to reduce impacts. These options were compared against replacement of the current combustion engine driven compressor process with alternative engines, as well as complete replacement of compressor based technology for gas dew-pointing. All options were assessed in terms of technical and operational feasibility, the likely reduction in emission impacts to be achieved and cost effectiveness.

From the BAT assessment an improvement programme was defined to achieve BAT through implementation of technical, operational and managerial changes to the existing process.