

Addressing Uncertainty and Accuracy in Greenhouse Gas Emission Estimation and Inventories by the Global Oil & Gas Industry

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Abstract

The uncertainty of oil & natural gas Company's greenhouse gas emissions inventory, or of its quantified emission reductions assessment, is determined by the uncertainties of the estimates of the key (largest) contributing sources. In turn, this depends on availability of sufficient data to estimate emissions and properly account for their variability. The emergence of emissions trading systems and new reporting and disclosure schemes has created a need for industry to better understand and address the uncertainties inherent in the data used for emission inventories, or emissions reductions calculations.

This paper provides an overview of activities being undertaken by a collaboration of oil and natural gas industry associations to solicit varied perspectives on priority areas for reducing emissions inventory uncertainties at the entity level, and to develop industry relevant tools to address them.

Key words:

greenhouse gases, emissions inventory, uncertainty, accuracy, entity emissions