

Greenhouse Gas Quantification and Reduction

Regulation, shareholder demand, and consumer advocacy are driving companies to better understand their carbon footprints and to make the changes needed to combat the effects of

climate change. INTERA helps quantify carbon footprints and identify reduction frameworks that are tailored to each client's goals and objectives. From conducting a greenhouse gas (GHG) emissions inventory and setting science-based emissions targets to identifying and supporting the implementation of emissions reduction strategies to support transition to the low-carbon economy.

Our key GHG and decarbonization services include:

- Strategic GHG Management Advice
- GHG Inventories and Reporting
- GHG Reduction Strategies
- Carbon Footprinting
- Low Carbon Transition Plans

■ Strategic GHG Consulting and Carbon Footprint Analysis, Gulf of Mexico and Louisiana, USA

Challenge: To provide subject matter expertise on managing GHG emissions and quantify the carbon footprint of oil and gas production operations and associated activities on the outer continental shelf in the Gulf of Mexico

Solution: INTERA developed an emissions inventory of QuarterNorth Energy's sources of GHGs that are classified as Scope 1 and 2 emitters, using the protocol and methods prescribed by the World Business Council on Sustainable Development and the World Resource Institute. These include emissions from offshore production and storage operations, onshore storage and shorebase operations, transportation via seas, air, and land, and electricity consumed from the local power grids to support onshore logistics and corporate offices. Two benchmark years (2017 and 2021) were evaluated to illustrate the change in footprint over a five-year interval. Emissions for offshore operations were sourced from the Bureau of Ocean Energy Management's Air Quality System. Emissions from other sources were calculated using EPA prescribed methods and equations. The values developed through this inventory exercise were then aggregated to quantify total emissions with respect to GHG releases and to identify the greatest sources of GHG emissions. We also provided advice on the best methods for data collection and quality assurance, source emissions reduction methods, and on interpretation of current and emerging regulations that affect operations.

Results: Our efforts provided QuarterNorth Energy with a better understanding of impacts from operations on climate change and identified appropriate steps to reduce GHG emissions.

