ProGHG

Automated greenhouse gas (GHG) reporting application

ProGHG Benefits

- Provides true, accurate and complete compliance reporting as required by the EPA GHG rule
- Reduces preparation time significantly from months to days or hours
- Reduces labor costs by at least 80% (per case data)
- Provides better data tracking
- Ensures long-term sustainability
- Incorporates Subpart W emission calculation formulas
- Provides source data analysis
- Assists in identifying areas of improvement
- Enable easy data transfer to other reporting tool or other platform when needed

The Current Situation

The most recent U.S. Environmental Protection Agency (EPA) mandatory GHG reporting rule, Title 40, U.S. Code of Federal Regulations, Part 98, Subpart W, requires onshore petroleum and natural gas facilities owner and operators to report GHG data and emissions exceeding 25,000 metric tons per year in eight industry segments.

GHG Subpart W reporting challenges are many. In addition to enormous data input volumes, files come from disparate sources often with varying terminologies. Data incompleteness within and among sources is a problem as are inconsistencies and discrepancies. Many users still utilize manual processes to collect, integrate and validate data. This is both manpower intensive and promotes poor reporting quality.

The Wood Group GHG Solution

Wood Group provides **ProGHG**, the system that automates the GHG reporting process and assists oil and gas producers with a complete solution. The systematic approach consists of four modules addressing all essential report processing elements – **data input, data integration and validation, emissions calculations and reporting, and emissions analysis. ProGHG** works effectively with a variety of databases including equipment inventory, historian (including OSIsoft PI System™ and Aspen InfoPlus.21), relational databases (including Microsoft SQL server and Oracle) and Systems Applications and Products (data processing).

Key Features

- Provides direct data input
- Allows collection from existing data sources
- Validates using engineering knowledge with sets of embedded business logic
- Calculates in accordance with 40 CFR Subpart 98
- Incorporates Subpart W – onshore production emission calculation formulas
- Source data analysis reviews data issues and suggests corrections
- Emission summary analysis identifies improvement areas
- Stores raw source, validated, final reporting data and emission parameters for record keeping and analysis

For more information visit:

www.woodgroup.com

Wood Group's ProGHG software automates the reporting process with four robust modules. It focuses on automating the data integration and validation.

Data Import/Data Input

This relational database stores all data input from various sources, including disparate files. It categories them as equipment inventory data, operational and event data, production data, and non-system data. Categories utilize data tables for storing equipment inventory, production and operational data subject to GHG reporting. The import module allows data input from user's existing systems as well as an interface for direct data input.

Data Integration and Validation

A common identifier links all relevant information for each wellhead/wellpad. Data from all sources is integrated to answer the GHG rule question to report information that is valid, accurate and complete and consistently addresses missing or year-to-year data discrepancies.

ProGHG implements business logics scripted in the database grouped by equipment type from collection and integration. Using production and operations data it determines the equipment for inclusion in GHG reporting. This function cross-checks well lists against equipment count, inventory, activity, operating status and production data.

Emission Calculation and Reporting

ProGHG uses EPA-specified calculations based on validated data. Preconfigured formulas can be changed easily and data input can be updated as needed. Output calculations are aligned with EPA reporting formats.

Emission Analysis

ProGHG analytics include a year-to-year comparison by each emissions source with a drill-down for analyzing changes. A data input analysis visually assists in understanding data defaults and variances.