

## Greenhouse Gas Benchmarking and Data Validation Solutions



### Our Business Intelligence Tool

Montrose, in collaboration with FirmoGraphs, has developed a Business Intelligence (BI) tool that consolidates publicly available data from EPA's Flight Greenhouse Gas (GHG) emissions database for benchmarking and analysis purposes.

### Benchmarking

This tool includes built-in functionality to calculate CO<sub>2</sub>e and methane intensities to compare emissions data across different industry segments, states, geographic areas, and O&G basins of all operators reporting to the EPA. Equipment-level emissions also provide the opportunity to review how each source type makes up your total emissions and how it compares to industry averages.

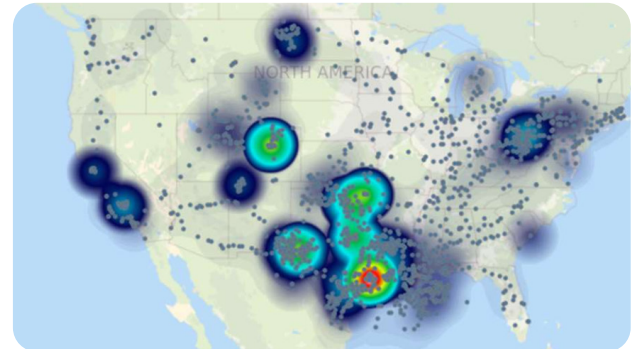
Facility-specific emissions can aid in internal benchmarking by providing insight into which locations maintain the lowest level of emission intensities. High performers can be used as examples to build upon while low performers can be targeted for emission reduction initiatives.

### Validating Submission Data

Our tool offers the ability to load internal data sets from sources outside of the EPA Flight database. Preconfigured visualizations have been established to validate Subpart C and Subpart W reportable data with common validation checks utilized by the EPA to assess for any inaccurate data. By identifying potential issues and addressing them prior to submission into EGGRT, you won't have to deal with the problem of addressing agency questions and compiling resubmittals.

### Develop Industry Average Emission Factors

Many sustainability frameworks and regulatory requirements are allowing operators to develop their own set of emission factors based on measurement data that accurately reflects the industry averages. By taking actual measurements and comparing it to the industry average, operators may be able to make their case to use a more accurate set of emission factors, bringing down their overall emissions and intensities. This is aligned with recent Subpart W updates.



**Figure 1:** Example visualization of a heat map that shows emissions associated with Subpart W.

### Scope of Data

The Climate Mart is a database created by FirmoGraphs using publicly available data between 2017 to 2022 from the following data sources:

- EPA's Mandatory GHG Reporting Rule data for Subparts C, D, V, W, X, and Y leveraged from the EPA's Flight database. This data set is updated each year when the most recent reporting year's data has been published.
- Other data sets could include: OSHA recordable incident data, financial KPIs, ESG data from shareholder proxy filings.