

Upstream Enhanced Emissions on Energy Studio: Impact

Frequently Asked Questions

This FAQ document contains information on the key attributes of Upstream Enhanced Emissions, on **Energy Studio: Impact**.

Introduction and Background

What are Upstream Emissions?

Upstream oil & gas operations produce scope 1 greenhouse gas (GHG) emissions through diesel/gas fuel combustion, flaring, venting and fugitives, and scope 2 emissions through power consumption.

The ratio to oil and gas production determines GHG emissions intensity, which is an increasingly important differentiating metric for upstream operators and their stakeholders to understand and reduce, and on which to base strategic and commercial decisions. While producers participate in voluntary and regulatory reporting, the lack of a common benchmark makes it difficult to truly compare emissions intensity.

Why are S&P Global Commodity Insights' Upstream Emissions estimations important?

The oil & gas industry lacks a transparent, consistent measure for the greenhouse gas emissions coming from its upstream activities.

This makes it difficult for companies, investors and governments to accurately compare GHG emission intensity, identify opportunities for abatement and account for emissions impact in decisions to allocate capital.

We have developed proprietary models for estimating greenhouse gas emissions (GHG) from upstream activities, which we apply to our world-class upstream databases to provide comprehensive, granular, standardized and transparent GHG emissions estimates.

To address a problem like greenhouse gas emissions, you must be able to break it down into smaller problems that have simpler solutions.

For instance, governments and regulators place an increasing emphasis on reducing methane (CH₄) emissions, as it is a far more potent greenhouse gas than carbon dioxide (CO₂) over the short term (i.e. 20 year period). Different GHG types and sources require different controls and abatement technologies.

Our upstream emissions dataset provides a breakdown by main greenhouse gas (CO₂, CH₄, N₂O), and by source (combustion, flaring, venting, fugitives, other) for 6m wells in North America, throughout their operating life.

Emission intensity varies within a field or play, and not all models can distinguish poor performers from best in class.

When making decisions based on emissions estimates, you need to know how much you can rely on them. By drawing on the wealth of input variables in our upstream data and building our models around this, we can deliver highly granular and differentiated estimates. For each number, we can tell you how reliable our estimate is.

Our estimates are powered by the depth of our upstream data and its unparalleled coverage. We leverage multiple data sources: reported, regulatory, as well as our own deep upstream analytics and we are constantly integrating new information. We have over 10 years of detailed technical emission modelling expertise and have purpose-built models for onshore, offshore, oil sands and other forms of extraction.

Upstream Enhanced Emissions is available on Energy Studio: Impact

What is launching and when?

Effective February 15, 2023, Upstream Enhanced Emissions has formally launched to Energy Studio: Impact. Clients can access a full dataset of monthly GHG emissions estimates for the 6 million wells in our North America dataset, with a dedicated North America Emissions dashboard to explore the dataset and get their analysis started.

Who can access Upstream Enhanced Emissions on Energy Studio: Impact?

Clients of Energy Studio: Impact, North America / United States / Canada can access upstream emissions data if they purchase the corresponding North America / United States / Canada Enhanced Emissions products.

Upstream Enhanced Emissions data is also available for the rest of the world, primarily delivered on **Vantage** as well as via API.

Which Upstream Enhanced Emissions products are available on Energy Studio: Impact?

- North America Enhanced Emissions
- United States Enhanced Emissions
- Canada Enhanced Emissions

Clients of North America Content Enhanced Delivery can also access via Snowflake or API.

Note – they must subscribe to either Energy Studio: Impact or North America Content Bundle before subscribing to the Enhanced Emissions dataset.

What are the benefits of Upstream Enhanced Emissions?

- Benchmark how your assets' emissions compare to peers
- Identify high-performing and under-performing wells and projects
- Understand the nature of GHG emissions from the upstream sector
- Identify advantaged barrels by incorporating emissions intensity into portfolio strategy
- Incorporate GHG emissions-associated costs and risks into project and transaction valuations

Where can I find the new Upstream Enhanced Emissions?

Available through Energy Studio: Impact - Dashboards>North America Emissions Dashboard

Where can I find additional resources?

- Upstream Enhanced Emissions [product page](#)
- [North Sea Emissions Uncovered storymap](#)

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