FOR IMMEDIATE RELEASE

March 2, 2022

COEFFICIENT RELEASES NEW REPORT, "METHANE QUANTIFICATION: TOWARD DIFFERENTIATED GAS – AN ASSESSMENT OF METHANE MEASUREMENT AND MONITORING TECHNOLOGIES"

New assessment reviews leading and emerging technologies currently being deployed to measure and monitor methane while establishing a set of criteria for assessing three principles for methane emissions measurement, monitoring, reporting, and verification, namely: Transparency, Trust, and Transactability.

Washington, D.C. – Today, CO2EFFICIENT LLC (COEFFICIENT) released a new report, "Methane Quantification: Toward Differentiated Gas - An Assessment of Methane Measurement and Monitoring Technologies," reviewing leading and emerging technologies that are being deployed for methane measurement and monitoring. With enhanced transparency of methane emissions across the supply chain, natural gas suppliers can begin to differentiate their products based on their environmental impacts.

The International Energy Agency's 2022 Global Methane Tracker states that "methane emissions from the energy sector are about 70% higher than reported in official data" and almost one third of global methane emissions come from natural gas extraction, processing, transport, and end-use equipment.

Up until recently, most companies and regulators focused on leak detection and repair (LDAR). According to COEFFICIENT's report, the technologies being developed and deployed today can eventually be utilized to continuously monitor and measure emissions from the wellhead to the burner tip. This introductory report is designed to begin a dialogue around the policy and market opportunities of these technologies.

"While LDAR is undoubtedly needed, it simply is not adequate to get a full picture of actual emissions," said Tom Lawler, a Partner at COEFFICIENT. "Our current process is akin to asking the fire department to drive through a city periodically to see if anything is on fire. No one would feel safe with that sort of approach to fire prevention. We should not be comfortable with that approach to methane, either."

The assessment reviews leading and emerging technologies that are being deployed for methane measurement and monitoring, specifically:

1. The measurement capabilities of various technology categories;
2. How specific technologies have been piloted or deployed in the field; and

3. Leading technology initiatives that have integrated multiple technologies, and in some cases, implemented approaches for independent verification of emissions and certification of differentiated gas.

The assessment covers six technology categories and more than 30 detailed profiles of leading methane emissions technologies. It also highlights "Technologies in Action"—leading technology initiatives where multiple stakeholders collaborated to integrate numerous measurement and monitoring technologies in the field and validate the resulting data for use in reporting and certification.

Sensor technologies expanded rapidly in recent years and promise to enable increasingly cost-effective methane solutions. Sensors are generally mounted or integrated with other technologies, and these technologies each have strengths and limitations for measuring methane emissions. A system approach will be needed to fully achieve methane emission quantification.

"We have an opportunity to ensure real emissions reductions, consumer trust, and new markets for differentiated products. This assessment addresses a critical piece of achieving this future," said Tom Hassenboehler, a Partner at COEFFICIENT. "A small number of companies are already pursuing this opportunity by adopting three principles for methane emissions quantification, namely: transparency, trust, and transactability."

The current geopolitical environment has created a compelling leadership opportunity for the U.S. oil and gas sector to get ahead of regulator and investor expectations on methane emissions through quantification and reduction.

Development of a framework that promotes strong performance metrics for all segments of the gas supply chain and a market for differentiated natural gas must connect the dots between transparency, trust, and transactability. A strong and robust future for natural gas will require high quality data and rigorous monitoring, reporting, and verification (MRV) to gain credibility in the eyes of non-governmental organizations (NGOs) and policymakers. In addition, it will require the integration of methane emissions data with financial performance data that can help provide the currently missing link between environmental, social, and governance (ESG) reporting and data-driven climate accounting.

To download the report, please click here.

Contact Information:
Tom Hassenboehler, COEFFICIENT
thass@co2efficient.com

About COEFFICIENT:
COEFFICIENT is a mission-based strategic consultancy focused on advancing public policy and market solutions in the energy and environmental sectors. Located in Washington, D.C., COEFFICIENT is a leader in developing transformational 21st century climate policies that integrate environmental sustainability and corporate governance with digital technology solutions. Learn more at www.co2efficient.com.