EEMDL

ENERGY EMISSIONS MODELING AND DATA LAB

Technology Selection Tool

In the evolving landscape of environmental compliance, the need for precise and adaptable emissions measurement is paramount. Traditional methods often fall short in addressing the dynamic nature of emission sources, particularly at the site and source levels. Recognizing this gap, our tool emerges as a pioneering solution, engineered to assist operators in selecting the most suitable measurement techniques tailored to their specific needs, while aligning with the stringent OGMP level 4 and 5 expectations.
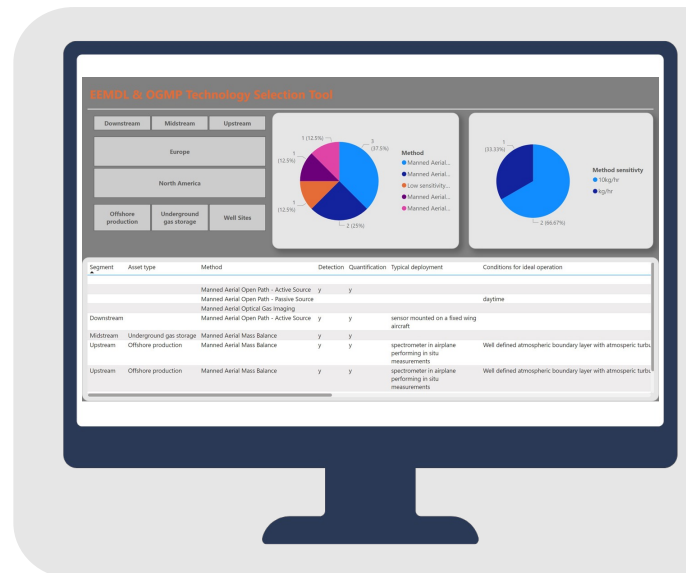
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Objective:

Analyze best practices by integrating a comprehensive database of measurement techniques, drawn from scientific literature and industry best practices. Unlike existing solutions that offer mere lists of vendors, our tool delves deeper, categorizing methods based on insightful performance characteristics and real-world applicability, thus providing a nuanced understanding of each technique's potential.

Functionality:

- **Intelligent Filtering:** Navigate through a vast array of measurement techniques with our smart filtering system, designed to match your site-specific requirements and emission characteristics.
- **Comprehensive Database:** Access an unparalleled compilation of measurement methods, synthesized from scientific research and practical insights, all in one place.
- **Insightful Analytics:** Benefit from detailed performance metrics and method categorizations, enabling informed decision-making for effective emission management.
- **OGMP Compliance:** Ensure your measurement strategies are in full compliance with OGMP level 4 and 5 standards, thanks to our tool's alignment with these rigorous expectations.

Use Cases

Site-Level Measurement Selection:
- Tailor your measurement approach to site-specific conditions, optimizing for accuracy and efficiency.

Source-Level Analysis:
- Drill down to the source level, identifying the most effective techniques for pinpointing and quantifying emissions.

Regulatory Compliance:
- Stay ahead of regulatory requirements with a tool that's built to adapt to the latest standards and expectations.

Status

Released:
- A comprehensive demo of the tool is currently in development. This demo will demonstrate the tool's real-world applications, showcasing its capabilities in enhancing emission management strategies and meeting evolving regulatory requirements.

EEMDL is a joint research initiative of the **University of Texas at Austin**, **Colorado State University**, and the **Colorado School of Mines**.