

Methane Detection and Quantification Technology Roadmap

With a crowded vendor landscape and rapidly evolving technologies, regulations and voluntary initiatives, it is easy to invest in tools that do not most effectively align with your emissions reductions needs given the unique nature of your assets and emissions profiles.

Highwood's Methane Detection and Quantification Technology Roadmap service designs or refines a fit-for-purpose detection and quantification strategy, grounded in industry-leading technical expertise and LDAR-Sim modelling so you can invest in the right tools and coverage for your goals and frameworks.

Benefits

By completing this roadmap, you improve the ROI and defensibility of methane detection and quantification technology spend by selecting technologies and deployment strategies that match your assets, emissions profile and reporting requirements.

Use cases

- You are planning new measurement investments and need a defensible technology strategy
- You have multiple tools/vendors but lack a coherent coverage plan across assets and sites
- You need to align technology choices with OGMP 2.0, MiQ, and/or regulations

Inputs

- Methane detection and quantification technology deployment goals
- Asset/site context and deployment constraints (access, operating conditions, logistics)
- Known emissions characteristics and operational patterns (as available)
- Budget range, internal preferences, and any existing vendor shortlist

Outputs

- Assessment of current technology portfolio, coverage, and gaps
- Benchmarking against industry practices and emerging innovations
- LDAR-Sim modelling to evaluate emissions reduction, costs, measurement uncertainty, and safety considerations through driving and on-site time
- Recommendations for technology selection and deployment strategies aligned to your methane detection and quantification deployment goals
- Prioritized roadmap for pilots and future measurement investments

Estimated timeline

3–6 weeks, depending on the number of assets, technologies in scope, and data availability.



Next step

Speak to a Methane Advisor to define goals, scope, and the decisions this roadmap needs to enable.

