

Alt-FEMP Executive Summary

Company	Program start	Program end	# of sites
Repsol Oil & Gas Canada Inc.	April 28, 2022	December 31, 2024	93

Once an alternative fugitive emissions management program is approved, AER staff draft this executive summary. This is a summary only, published to help interested stakeholders understand what has been approved. These summaries are found on our website, www.aer.ca > Protecting What Matters > Holding Industry Accountable > Industry Performance > Methane Performance > [Alternative Fugitive Emission Management Program Approvals](#). For additional information on these approvals, contact methane.reduction@aer.ca.

Summary

Repsol Oil & Gas Canada Inc. (Repsol) will implement an alternative fugitive emission management program (alt-FEMP) in the Hinton-Edson and Rocky Mountain House areas using unmanned aerial vehicles (UAVs) and close-range follow-up optical gas imaging (OGI) surveys.

The alt-FEMP will cover 93 Repsol facilities. The facilities selected within the proposed program areas are a mix of batteries and associated satellite facilities, injection/disposal facilities, and compressor stations. These facilities are regulated under section 8 of *Directive 060*.

Screening surveys will be performed using the UAV system at a frequency (annual or triannual) defined by the facility subtype code as per *Directive 060* (table 4). Reports from the survey data (equipment details and emissions rates) will guide close-range follow-up surveys.

Repsol will review the data and schedule follow-up inspections for leaks that are physically tagged. Follow-ups will occur at all equipment groups where a detection occurs.

Third-party independent modelling has demonstrated the proposed program will achieve greater emission reduction over the regulatory requirements. The model used company-specific data from the recent fugitive emissions campaign. In addition to the program elements listed above, Repsol will continue to perform preventive maintenance as part of its operations and maintenance procedures.

Simulation results from LDAR-Sim show that the Alt-FEMP program will result in an additional 40 515 kilograms of methane emissions per year compared to regulatory OGI.