

Alt-FEMP Executive Summary

Company	Program start	Program end	# of sites
Crescent Point Energy Corp.	July 25, 2023	December 31, 2024	89

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

Crescent Point Energy Corp. (CPE) is a Western Canadian Sedimentary Basin upstream oil and gas producer that owns and operates facilities in Alberta. Since 2021, CPE has implemented regular leak detection and repair (LDAR) programs in accordance with provincial regulations. CPE will implement a pilot alternative fugitive emissions management program (alt-FEMP) across 108 of the 127 facilities that require a FEMP. The alt-FEMP will operate until December 2024.

A representative control region encompassing 19 CPE facilities (15% of all FEMP facilities) was omitted from the modelling. In the control region, OGI surveys in accordance with *Directive 060* will occur, providing data that will be compared with the performance data from the selected alternative program.

The selected alternative program for this proposal involves deploying a full OGI survey of all triannual facilities in Q2 2023 and Q2 2024, aerial-based gas mapping LiDAR (a-LiDAR) screenings in Q3 2023 and Q2 2024, and truck-based screenings in Q4 2023 and Q4 2024, to screen all 108 facilities in the alt-FEMP region. Fugitive emissions reductions will then occur at a fraction of the highest-emitting sites (in this application “site” refers to a legal subdivision). The selected alternative program is estimated to achieve similar emissions reductions to the *Directive 060* default approach. This will also decrease safety risks by limiting the number of subcontractor hours in the field, which is a priority for CPE.

The alt-FEMP methodology is as follows:

Step 1	Survey	Conduct OGI surveys at all triannual facilities (as defined in <i>Directive 060</i> , table 4) in Q2 2023 and Q2 2024. Fugitive emissions will be differentiated from vented emissions. Fugitive emissions will be tagged and recorded for repair, while vented emissions will be recorded for potential future reduction programs.
Step 2	Screen	Conduct site-level screening. The selected alternative program will deploy four screening campaigns throughout the program: <ol style="list-style-type: none"> 1) a-LiDAR screening, Q3 2023 2) Truck-based screening, Q4 2023 3) a-LiDAR screening, Q2 2024 3) Truck-based screening, Q4 2024

		The screening technologies will capture both vented and fugitive emissions. Screening campaigns will occur more than three months apart, and a-LiDAR will be deployed in snow-free months.
Step 3	Rank	<p>Following each screening campaign, emissions will be attributed to a site and the sites will be ranked highest to lowest by their total emissions. The follow-up threshold percentage determines the top number of sites to be visited for emissions localization and repair. The selected program has the following follow-up requirements after each designated screening event:</p> <ul style="list-style-type: none"> • Screening campaign 1 (Q3, 2023): 40% follow-up • Screening campaign 2 (Q4, 2023): 40% follow-up • Screening campaign 3 (Q2, 2024): 40% follow-up • Screening campaign 4 (Q4, 2024): 40% follow-up
Step 4	Follow-Up	Follow-up emissions localization will occur on the ground at the sites outlined in Step 3. Here, fugitive emissions will be differentiated from vented emissions. Fugitive emissions will be tagged and recorded for repair, while vented emissions will be recorded for potential future reduction programs.
Step 5	Repair	At the follow-up sites, all fugitive repairs will be made according to <i>Directive 060</i> timelines once a fugitive leak has been localized.