

Alt-FEMP Executive Summary

Company	Program start	Program end	# of sites
Pine Cliff Energy Ltd.	July 12, 2023	December 31, 2024	214

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

Pine Cliff Energy Ltd. (Pine Cliff) is implementing a pilot alternative fugitive emissions management program (alt-FEMP). Pine Cliff is a conventional upstream oil and gas producer with 239 facilities in two areas in Alberta (218 in the Greater Three Hills region and 21 in the Medicine Hat region).

A representative control region encompassing 25 facilities (11% of total facilities) was omitted from the alt-FEMP. In the control region, Pine Cliff will conduct optical gas imaging (OGI) surveys in accordance with Directive 060, providing data that will be compared with the performance data from the selected alternative program.

The alt-FEMP will use two methods: unmanned aerial vehicles (UAVs) equipped with OGI cameras and close-range follow-up quantitative optical gas imaging (QOGI) surveys. The UAV-OGI surveys will be performed at the frequency required by Directive 060, and the close-range follow-up surveys will be done on any detected leaks using regulatory-approved equipment and methods. The pilot will be conducted over the 2023 and 2024 compliance years.

The two-year alt-FEMP methodology is as follows:

Step 1	Screen	Conduct site-level UAV-OGI screening at all 239 Pine Cliff sites at the scheduled frequency as per table 4 of <i>Directive 060</i> .
		The screening technologies will capture both vented and fugitive emissions. Screening campaigns will occur more than three months apart.
Step 2	Survey	All emissions will be followed up on with an on the ground OGI survey. Any fugitive emissions will be identified and tagged.
Step 3	Repair	All identified and tagged fugitive emissions will be repaired according to <i>Directive 060</i> timelines.