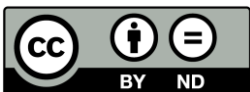


The background features several overlapping circles and arcs in teal and purple. A large teal circle is centered, with a purple circle overlapping its right side. A grey circle is partially visible on the left. Thin teal and purple lines form arcs across the page.

# Monitoring Technology Compatibility Assessment

## Qube

November 2023



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## Purpose

The MiQ Foundation, as the Standard holder, has developed this monitoring technology compatibility assessment to streamline market research conducted by Operators and other stakeholders to assess the compatibility of methane monitoring technologies against the requirements in the Monitoring Technology Deployment pillar of the MiQ Standard.

This document does not endorse or reflect the personal views of the MiQ Foundation and is not intended to be exhaustive. The sole aim of this document is to provide stakeholders with an impartial summary mapping the characteristics of methane monitoring technologies and methods to MiQ requirements. This document does not guarantee that a monitoring technology or method will be compliant for a specific deployment of that technology or method. MiQ auditors may reference the information in this document while conducting MiQ audits, but still must assess each deployment individually. MiQ encourages Operators to carry out additional independent assessments of technologies and methods for their specific deployments.

MiQ has conducted the following assessment based on best available data, vendor provided documentation and published studies at the time of preparation. MiQ reserves the right to make updates to the documentation on a periodic basis to conform with new MiQ Standard updates and updated vendor documentation.

MiQ is not liable for any information provided or technology capabilities guaranteed by the technology provider.



## EQUIVALENCY DETERMINATION

<b>Applicability</b>	Section 3.2.3	<p>An Operator using CMS over a subset of Sites (&lt;100%) can implement a deployment strategy for Source Level and/or Facility Scale inspections that differs from the pre-defined strategies in Table 2 of the MTD Subsidiary Document 3 of the MiQ Standard.</p> <p>Please refer to the <a href="#">MiQ Equivalency Table</a> for additional information or contact MiQ.</p>
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## RECONCILIATION CONSIDERATIONS

<b>Reconciliation</b>	MI Section 3.3 - <i>Item 4</i>	<p>Qube sensors can attribute emissions at the equipment group level. They are typically deployed as a network of 3-5 fixed devices around the perimeter of a facility. A Producer/Operator utilizing the sensors may need to follow up with a ground inspection to attribute emissions accurately to an individual source if the emissions timeseries and SCADA are unable to confirm the source via a desktop study.</p> <p>This technology quantifies emission rate using physics guided AI which takes into consideration plume behaviours, sensor measurement and environmental measurements.</p> <p>Due to the nature of continuous monitoring technologies, Operators can set alerting thresholds and get real time data of detected events via email, SCADA and/or dashboard. This data allows Operators to infer emission duration and emission source.</p> <p>Causal Examination using operational and maintenance data may be required to understand cause and origin of a detected event.</p>
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## ADDITIONAL DOCUMENTS

**Qube News and Resources**

<https://www.qubeiot.com/resources>

## Document Status

Table: Version History

Version	Date	Summary of Change
1.0	2023-08	First Publication