

ICS 75.010
CCS Z04



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48149-2026

**Technical guidelines for methane emission monitoring in
onshore oil and gas industry**

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(English Translation)

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

GB/T 48149-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 January 2027.

It is under the responsibility of the Standardization Administration of China.

Classification: ICS 75.010; CCS Z04.

1 Scope

These technical guidelines concern the monitoring of methane emissions in the onshore oil and gas industry. They cover principles and classification for selecting monitoring methods, measurement and monitoring of flare systems and process venting, component-level leak detection, and site-level emission detection. Annexes describe specific techniques such as pan-tilt laser telemetry, portable instrument and high-flow sampling methods, and vehicle-mounted and drone-mounted detection.

They are meant to guide enterprises engaged in onshore oil or natural gas exploration, development and long-distance transportation in work such as emission supervision, emission factor development, leak detection and repair, and the accounting and verification of emissions and reductions.

It is a recommended (GB/T) standard, so it is voluntary unless a regulator, customer or company programme adopts it. It was issued on 28 August 2026 and takes effect on 1 January 2027.