CleanConnect.ai AI Solutions For Energy

Upstream · Midstream · Downstream

Intelligent Flare Monitoring — Continuous Visibility. Actionable Intelligence. Zero Blind Spots.

CleanConnect.ai combines Visual AI, methane OGI, and patent-pending direct measurement to give operators complete, continuous flare intelligence — replacing periodic inspections with real-time, exception-based operations.

SECTOR	SITE TYPE	OUTCOME
Upstream · Midstream · Downstream	**Any Flare-Equipped Facility**	**Operate by Exception**

PLATFORM CAPABILITIES

① Visual AI Smoke Detection — Method 22 Compliance

Automated Smoke Event Logging
CC.ai's AI continuously monitors flare stacks for visible smoke, automatically logging events with timestamps and duration for EPA-ready reporting.

Pilot Light Monitoring
Real-time pilot outage detection with instant automated alerts, enabling rapid response before uncombusted gas vents to atmosphere.

② Methane OGI — Combustion Efficiency & Slip Detection

Methane Slip Visualization
CleanConnect.ai OGI cameras detect uncombusted methane passing through the flare, identifying combustion inefficiency invisible to the naked eye.

EPA OOOOb/c Autonomous LDAR
Approved autonomous leak detection integrated with flare monitoring — a single compliance platform covering both LDAR and flare requirements.

③ Project Vulcan — Direct Methane Quantification

Continuous DRE Verification
Patent-pending TDLAS technology measures Destruction Removal Efficiency 24/7, replacing periodic stack testing with always-on data for OTM-52 and Subpart W.

Combustion Optimization
Real-time air-to-fuel ratio data enables operators to fine-tune combustion, improve DRE, reduce emissions, and extend equipment life.

OPERATOR OUTCOMES

- **24/7 Monitoring —** Continuous flare monitoring replaces periodic inspections. Crews are dispatched only when the system detects a problem — saving truck rolls and keeping personnel safe.
- **$M+ Savings —** Continuous combustion data reveals performance trends, enabling proactive maintenance, improved DRE, and reduced wasted gas — turning flares from cost centers into optimized assets.
- **1 Platform for Exceeding Regulatory Requirements —** Smoke detection, OGI, and direct measurement in one system. Automated Method 22 reports, OTM-52 DRE verification, Subpart W reporting, and MiQ/OGMP 2.0 support with audit-ready records.
- **Real Data —** Direct, continuous measurement provides high-fidelity data for voluntary and regulatory reporting — proving performance, not estimating it.

EPA Method 22 · OTM-52 · Subpart W · MiQ · OGMP 2.0 · OOOOb/c Approved · SOC 2 Type 2

Take control of your flare operations.

The only platform combining Visual AI smoke detection, methane OGI, and direct measurement for complete flare intelligence.

Book a Demo → zach@cleanconnect.ai

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