CleanConnect.ai AI Solutions For Energy

Upstream · Autonomous Operations

The Autonomous Wellsite — One Platform. Every Site Function. Zero Unnecessary Trips.

CleanConnect.ai integrates compliance automation, safety monitoring, security intelligence, and remote equipment control into a single platform — enabling truly autonomous wellsite operations.

SECTOR	SITE TYPE	PRODUCTS USED	OUTCOME
Upstream · E&P	**Wellpads · Production**	**Minerva · Full A365 Suite**	**Full Autonomous Ops**

THE VISION

The autonomous wellsite is deployable today. CleanConnect.ai brings together hardware, AI software, and EPA-approved compliance methods into one platform handling every function traditionally requiring a physical site visit: compliance, LDAR, safety, security, and equipment control.

> The result is a wellsite that monitors itself, reports on itself, secures itself, and safely manages its own equipment — all under remote human oversight. Field crews are reserved for work that genuinely requires physical presence.

PLATFORM CAPABILITIES

① Automated Compliance — Flare Monitoring & LDAR

EPA-Approved Autonomous LDAR

LeakFinder™ conducts autonomous leak detection under EPA OOOOb/c, replacing manual OGI surveys with continuous AI-driven screening.

Continuous Flare & Pilot Monitoring

Automated Method 22 smoke monitoring plus continuous pilot-light status verification — with auto-generated EPA-ready compliance reports.

② Safety Intelligence — People, Spills, Fire & Smoke

People & Vehicle Detection + No-Go Zones

AI cameras detect personnel and vehicles in real time, triggering instant alerts when hazard zones or restricted areas are entered.

Liquid Leak & Spill Detection

Early visual detection of liquid releases on pads and containment areas — reducing potential regulatory fines and remediation costs through rapid response.

Fire & Smoke Early Warning

Thermal and optical sensors detect heat signatures and smoke at the earliest stage, triggering automated emergency alerts.

③ Security Intelligence — LPR & Theft Prevention

License Plate Recognition

AI-driven LPR cameras log all vehicle entries and exits, compare against authorized lists, and alert on unknown vehicles.

24/7 Theft & Intrusion Detection

Continuous perimeter monitoring with AI-powered human presence detection and automated evidence logging.

④ Remote Equipment Control — Safe Starts & Shutdowns

→ **Visual Pre-Confirmation**

Operator reviews live Minerva feeds to confirm site conditions and absence of personnel in the hazard zone.

→ **Remote Command Execution**

Start, stop, or adjust equipment remotely through Autonomous365 — with full audit logging.

→ **Post-Action Verification**

Minerva cameras confirm equipment responded as expected. Anomalies are flagged immediately.

RETURN ON INVESTMENT

5+
State regulatory approvals for autonomous LDAR methods

$M+
Savings potential from compliance, safety, security & visit elimination

1
Integrated platform: compliance, safety, security, and remote control

Regulatory Approval — Not Just AI

The only company with EPA and multi-state approval for autonomous LDAR as an Alternative Test Method.

One Platform, Every Function

Replace fragmented point solutions — separate LDAR contractors, security cameras, safety observers — with one system.

Dramatic Cost Reduction

Consolidating monitoring while eliminating non-productive visits drives measurable cost reduction year over year.

Future-Ready Operations

Operators with autonomous wellsite infrastructure will have a structural advantage as regulations and labor markets tighten.

EPA OOOOb/c Approved · Autonomous LDAR · Flare & Pilot Monitoring · People & Vehicle Detection · No-Go Zone Alerts · Liquid Spill Detection · License Plate Recognition · Remote Equipment Control · Fire & Smoke Detection · Intrusion Detection · SOC 2 Type 2 Certified

Build your autonomous wellsite today.

The only platform combining EPA-approved autonomous compliance with full-site safety, security, and remote control.

Book a Demo → cleanconnect.ai

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