

MCP SERVER

NO CODE

CLOUD HOSTED

# Enverus Energy Intelligence MCP

Access global energy data through your AI agent.

Enverus Energy Intelligence equips your AI agent with real-time access to global oil and gas data. You can track active drilling rigs, monitor well production telemetry, check basin activity, and review high-level energy market trends directly through conversation.

**A+** Quality Score 100/100

oil-and-gas

rig-tracking

market-intelligence

drilling-permits

asset-management

energy-data



# The infrastructure that powers AI agents in the real world.



Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

# Your AI Connections Run Through Vinkius Cloud

The world's largest  
managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

*The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*

— Architecture principle

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## Four Pillars of the Vinkius Runtime

### 01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

### 03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

### 02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

### 04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

**AES-256**

Encryption at rest

**Ed25519**

PKI vault signatures

**24h TTL**

Ephemeral session keys

**V8 Isolate**

Sandboxed execution

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## One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

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## Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

### 01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

### 02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

**03 — SSRF Guard**

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

**05 — Cryptographic Audit Trail**

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

**04 — DLP & PII Redaction**

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

**06 — Honeypot Trap System**

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

## Emergency Kill Switch

EU AI Act Art. 14(1)  
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

**01 — Server deactivated**

The MCP server is immediately taken offline across the entire cluster.

**02 — All tokens revoked**

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

**03 — WebSocket connections killed**

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

## Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

**Control Plane**

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

**FinOps**

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

**Firewall & DLP**

PII redaction activity, sensitive data protection counters, and security event timeline.

**Agent Activity**

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

**Tool Health**

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

**Incident Log**

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at [cloud.vinkius.com](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Enverus Energy Intelligence MCP

10 tools available

Cloud-hosted on Vinkius

Need deep insights into the global energy sector? This MCP connects your AI client directly to Enverus's massive dataset. Forget jumping between specialized databases or waiting for reports. You simply ask your agent a question—like 'What are the current M&A deals in the Permian Basin?'—and it pulls the necessary data, whether you need high-level market summaries or specific well performance metrics. This capability lets you get instant answers on anything from tracking active rigs to auditing organizational energy assets. By connecting Enverus Intelligence via Vinkius, your agent gains a single pane of glass view across asset oversight, production intelligence, and global market analysis. You just talk through the research; the MCP handles the complexity.

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## Core Capabilities

### 01 — Audit Energy Assets

Instantly get high-level counts of active oil/gas wells and drilling rigs across various basins.

### 03 — Monitor Well Performance

Pull historical and current production data, including BOE/d volumes and gas-to-oil ratios, for a specified well.

### 05 — Pinpoint Basin Activity

Filter and list rigs and wells that are active within a precise geological basin boundary.

### 02 — Track Operational Rigs

List all currently operating drilling rigs and retrieve detailed technical settings for any specific rig ID.

### 04 — Analyze Market Shifts

Access summaries of global energy market trends or list recent mergers and acquisitions in the sector.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/enverus-energy-intelligence](https://vinkius.com/mcp/enverus-energy-intelligence) — connect your AI agent in three steps.

- 01 Connect your AI client to the Enverus Energy Intelligence MCP.
- 02 Authorize access using your Enverus API Key in the Vinkius portal.
- 03 Tell your agent what you need. Ask it to 'List all active rigs in Texas' or 'Show me production stats for well ID 42-123-45678.'

The bottom line is that the MCP translates complex energy queries into structured data, giving you actionable answers without leaving your chat window.

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## Built For

Investment professionals and deep-dive energy analysts need this. It's for anyone who gets stuck manually compiling reports from disparate industry databases—the kind of person tired of logging into five different dashboards just to get a market snapshot.

### Energy Analyst

Uses the MCP to quickly check rig locations and well production data while on-site or in the field, verifying operational status immediately.

### Investment Professional

Monitors sector-wide transactions and basin activity by asking for lists of recent mergers or asset divestitures to gauge market health.

### Operations Manager

Researches current drilling permits and organizational energy metadata instantly, ensuring compliance checks before authorizing new operations.

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## What Changes When You Connect

- 01 You stop compiling reports. Instead of manually running multiple queries across different platforms, asking your agent to 'List all active rigs in the Permian basin' gets you immediate results.

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- 02** The system handles complex production tracking. Rather than calculating gas-to-oil ratios by hand, simply ask for 'production telemetry for well ID 42-123-45678,' and you get the full breakdown instantly.
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- 03** Market research is faster. Instead of reading through multiple press releases to track industry trends, asking for a summary of energy market intelligence gives you the key takeaways right away.
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- 04** Compliance checks are simple. Need to know what's happening with permits? Using 'list\_drilling\_permits' bypasses weeks of manual regulatory paperwork review.
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- 05** You get a full picture of assets. Instead of running separate reports for rigs and wells, you can run the 'quick\_energy\_asset\_audit' to see total counts across your operational areas.
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## Real-World Applications

### Evaluating Investment Targets

An investment professional asks their agent: 'What were the top five M&A deals last quarter, and what is the current state of drilling in that region?' The agent uses 'list\_energy\_m\_and\_a\_deals' and then 'quick\_energy\_asset\_audit' to give a comprehensive market health report.

### Planning a New Drilling Campaign

An operations team member uses the MCP to first run 'list\_drilling\_permits' to check compliance, then uses 'list\_active\_drilling\_rigs' to see resource availability, making planning decisions instantly.

### Troubleshooting Production Issues

An engineer needs immediate data on an underperforming well. They ask the agent for the specific 'get\_well\_production\_telemetry' and then follow up with 'list\_basin\_specific\_activity' to see if nearby rigs are also having issues.

### Market Due Diligence

A consultant asks for a high-level overview of the energy landscape by calling 'get\_energy\_market\_intelligence\_summary' and then reviewing recent assets using 'list\_energy\_m\_and\_a\_deals'.

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# Patterns to Avoid

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## Searching for a single number

### ✗ AVOID

Trying to find the total count of wells by searching general web articles, which might give an outdated or misleading estimate.

### ✓ INSTEAD

Use the 'quick\_energy\_asset\_audit' tool. It pulls real-time counts directly from the Enverus database for accurate numbers.

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## Mixing up asset types

### ✗ AVOID

Asking a general search engine to list both active rigs and wells, resulting in an unformatted mess that requires manual filtering.

### ✓ INSTEAD

Use 'list\_active\_drilling\_rigs' for all equipment or 'list\_oil\_and\_gas\_wells' when you only care about the production assets. Keep your queries specific.

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## Skipping context

### ✗ AVOID

Asking to check a well's performance without providing the exact well ID, leading to the agent asking for more info and wasting time.

### ✓ INSTEAD

Always start by identifying the asset. If you need production data, use 'get\_well\_production\_telemetry' and provide the specific Well ID right in your prompt.

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## The Right Fit

Use this MCP if your job requires integrating massive amounts of real-time industrial data—specifically energy market shifts, asset location tracking, or detailed well metrics. You need to know *what* is happening on a rig or in a basin right now. Don't use it if you are just doing general industry reading; stick to traditional search engines for articles. If your goal is only to find the best company name for a presentation, don't use it—a general LLM is fine. But if you need to verify current compliance status by checking 'list\_drilling\_permits,' or gauge market health using 'list\_energy\_m\_and\_a\_deals,' this MCP is non-negotiable.

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## The Energy Data Black Hole

Today, getting a full picture of energy assets means jumping through hoops. You start by logging into the rig tracking portal to find active locations; then you open the production dashboard to check well telemetry; after that, you switch over to a separate M&A site just for market trends. It's tedious copy-pasting and constant context switching.

With this MCP, all those siloed datasets come together under one conversational roof. You simply tell your agent what research question you have—whether it's checking 'list\_active\_drilling\_rigs' or auditing asset counts—and the system pulls everything into one clean answer.

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## Enverus Energy Intelligence MCP: Full Visibility

You eliminate the need for multiple logins, disparate reports, and hours of cross-referencing spreadsheets. No more manually gathering data from different regulatory or operational portals.

Now, you talk to your agent like a subject matter expert talking to a research assistant. It handles the deep data calls—from 'list\_basin\_specific\_activity' to detailed 'get\_rig\_technical\_details'—and gives you instant, actionable intelligence.

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# Enverus Energy Intelligence: 10 Tools for Energy Data

These tools allow your agent to perform specific actions like retrieving asset metadata, listing active rigs, auditing wells, or fetching real-time production telemetry.

#	TOOL	DESCRIPTION
01	<code>get_enverus_api_metadata</code>	Verifies the authorization status and necessary details for your Enverus API connection.
02	<code>get_energy_market_intelligence_summary</code>	Pulls a high-level summary detailing current energy market trends and key talking points.
03	<code>quick_energy_asset_audit</code>	Generates an instant, summarized count of total rigs and wells across the system.
04	<code>get_rig_technical_details</code>	Retrieves specific equipment settings and current activity status for a particular drilling rig.
05	<code>get_well_production_telemetry</code>	Fetches the historical and real-time output metrics (like BOE/d) for a specific oil or gas well ID.
06	<code>list_basin_specific_activity</code>	Lists all active rigs and wells contained within a defined geological basin area.
07	<code>list_drilling_permits</code>	Retrieves a list of recently issued drilling permits for compliance checks.
08	<code>list_energy_m_and_a_deals</code>	Lists recent mergers, acquisitions, and asset transactions that happened in the energy sector.
09	<code>list_active_drilling_rigs</code>	Provides a complete list of every drilling rig currently tracked by Enverus.
10	<code>list_oil_and_gas_wells</code>	Lists oil and gas wells that match specific criteria you provide, such as location or type.

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## See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

### **U** List active drilling rigs in the Permian basin.



I've found 15 active rigs in the Permian basin, operated by companies including 'Chevron' and 'Occidental'. Would you like the technical details for rig 'PERM-001'?

### **U** Show me production stats for well ID '42-123-45678'.



Well ID '42-123-45678' (Eagle Ford #1) is producing 450 BOE/d. The gas-to-oil ratio is 1,200 scf/bbl. Production has remained stable over the last 30 days. Should I pull the historical production trend?

### **U** What are the latest energy M&A deals?



I've retrieved 5 recent deals, including the '\$2.5B Acquisition of Bakken Assets' by 'Continental Resources' and a '\$500M divestiture' in the Eagle Ford. Would you like to see the asset breakdown for the Bakken deal?

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## Frequently Asked Questions

### **01** How do I check if a well is active using Enverus Energy Intelligence MCP?

You can use the `quick_energy_asset_audit` tool for a general count, or you can run `'get_well_production_telemetry'` and provide a specific Well ID to see its current production status.

### **02** Can I find out about recent energy mergers using Enverus Energy Intelligence MCP?

Yes. Use the `list_energy_m_and_a_deals` tool. It pulls records of recent transactions, allowing you to track sector shifts without reading dozens of news articles.

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**03 Does this MCP help with drilling permits?**

Absolutely. The `list_drilling_permits` tool lets your agent retrieve a list of recently issued permits, which is crucial for compliance and planning checks.

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**04 What if I only know the basin name, not the rig ID?**

You can use the `list_basin_specific_activity` tool. It takes a geological basin as input and lists all associated rigs and wells within that area for you.

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**05 Is 'get\_energy\_market\_intelligence\_summary' enough for my research?**

It provides high-level summaries, but if you need proof points or specific asset details, follow up by using a tool like `'list_active_drilling_rigs'` to ground the summary in real data.







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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://cloud.vinkius.com), then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
 <b>Claude AI</b>	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 <b>Cursor</b>	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 <b>VS Code</b>	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"enverus-energy-intelligence": { "url": "..."} </code>
 <b>Windsurf</b>	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 <b>ChatGPT</b>	Settings → Tools & plugins → Add MCP server → Paste endpoint
 <b>Gemini</b>	Extensions → Add MCP Server → Paste endpoint URL

## ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  **Ask ChatGPT** 
-  **Ask Claude** 
-  **Ask Perplexity** 
-  **Ask Gemini** 
-  **Ask Grok** 

READY TO CONNECT

# Enverus Energy Intelligence is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and  
start building. No SDK. No deployment. Just results.

[Start at cloud.vinkius.com](https://cloud.vinkius.com) →

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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