MCP SERVER | NO CODE | CLOUD HOSTED

Arcadia Plug MCP for AI Agents

Manage Utility Account Data & Track Multi-Provider Billing Statements

Arcadia Plug lets your AI client access and manage utility data directly from major providers. It automatically tracks account details, pulls historical billing statements, monitors meter readings across multiple service points, and audits credentials without you leaving your workflow. You can gather usage metrics and cost information for any provider that supports the Arcadia platform.

A+ Quality Score 100/100

utility-data | energy-usage | billing-data | meter-readings | data-aggregation | account-management

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vinkius.com/mcp/arcadia-plug

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects 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

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

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

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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

Incident Log

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

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

Arcadia Plug MCP

6 tools available
Cloud-hosted on Vinkius

The Arcadia Plug gives your AI agent a direct line into complex utility data platforms. Instead of logging into ten different provider websites to find billing history or meter readings, your agent handles it all in one go. It lets you list every linked account and then pull specific historical statements for cost analysis. You can also track individual meters associated with an account to see granular usage over time.

This means energy managers and financial analysts no longer waste hours jumping between portals. Your AI client pulls the necessary data, whether it's listing credentials or retrieving a detailed statement for a specific billing period. When you connect this MCP via Vinkius, your agent uses secure OAuth 2.0 to pull reliable metrics from hundreds of utility providers consistently.

The result is an immediate view of your organization's total energy footprint and operational spending, all managed through simple natural language prompts.

Core Capabilities

01 — List and check accounts

Verifies which utility accounts are connected and lists details for every linked account.

02 — Retrieve detailed billing statements

Pulls full historical records, giving total charges and the exact billing period for any requested statement.

03 — Monitor service meters

Lists all individual utility meters connected to your accounts, allowing tracking of usage at specific service points.

04 — Audit system credentials

Shows a list of the unique utility login credentials that the agent uses to access your data.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/arcadia-plug** — connect your AI agent in three steps.

01 Your AI client first authenticates with Arcadia Plug, granting permission to access all linked utility accounts and meters.

02 You prompt your agent with a request, like 'What were the charges for our main site last quarter?' The agent then uses the appropriate tool (like list_statements) to find the needed billing period.

03 The agent retrieves the raw data—whether it's account numbers or detailed usage metrics—and presents the clean, summarized information back to you.

The bottom line is that your AI client handles all the complex API calls and data aggregation behind the scenes so you just get a clear answer about your utility usage.

Built For

This MCP is for Energy Managers, Sustainability Directors, and Financial Analysts who deal with high volumes of disparate billing records. If your job involves aggregating spending or calculating carbon footprints across multiple physical sites, this tool saves you weeks of manual data entry.

Energy Manager

Uses the MCP to audit utility spend and usage across dozens of buildings and providers, ensuring compliance with local energy mandates.

Sustainability Director

Gathers historical data for ESG reporting. They use it to calculate carbon footprint metrics by pulling detailed consumption records from various sources.

Financial Analyst

Monitors utility costs and billing cycles across an organization's portfolio, identifying opportunities to optimize operational expenses before the next payment is due.

What Changes When You Connect

01 Stop manually checking connectivity. Use get_account_check to instantly verify if an account is active and ready for data pulling.

02 Get a complete picture of your asset base by using list_meters, which finds every service point tied to your accounts, not just the main meter.

03 Compare costs across years easily. You can use list_statements combined with get_statement to pull multiple billing cycles and compare charges quickly.

04 Audit access points instantly. List_credentials shows exactly what login details are being used by your agent, which is critical for security checks.

05 Consolidate spending data. By accessing all accounts via list_accounts, you can track utility expenditure across every site in one place.

Real-World Applications

Auditing Energy Sprawl Across Multiple Sites

An energy manager needs to confirm usage for three different facilities (gas, electric, water). They prompt the agent, and it uses list_accounts and then calls list_meters repeatedly to provide a consolidated report of all active service points.

Preparing Annual ESG Reports

A sustainability director needs usage data from the last five years for carbon reporting. The agent uses list_statements followed by get_statement on multiple dates, pulling raw consumption numbers into a spreadsheet format for immediate analysis.

Optimizing Operational Costs

A financial analyst suspects an old site's billing rate is outdated. They use the agent to list_accounts and get_statement on that specific account, providing the raw charges and dates needed to challenge current rates.

Troubleshooting Missing Data

A facilities engineer can't find a meter reading for Site B. They use the agent to list_meters for their main account ID to confirm if that specific service point is even registered in the system, saving days of physical checks.

Patterns to Avoid

Only checking one bill

✗ AVOID

A user only asks the agent for 'the last statement.' This misses crucial data points like usage changes or billing discrepancies from previous months.

✓ INSTEAD

Always start by using list_statements to see a range of available bills, then use get_statement on specific dates. Never rely on just one document.

Ignoring credentials

✗ AVOID

Assuming the agent can access data without verification. If you don't check permissions first, your workflow will fail midway.

✓ INSTEAD

Always run list_credentials first to confirm all necessary login details are active before running any complex report using list_accounts.

Confusing accounts with meters

✗ AVOID

The user asks 'what is my utility setup?' and gets a partial answer, only seeing the main account number but missing individual service points.

✓ INSTEAD

To get a complete picture, you must run list_accounts first for the high-level view, then follow up with list_meters to see all granular usage points.

The Right Fit

Use this MCP if your job requires aggregating utility data across multiple physical locations or different providers. If you need to pull historical bills, compare meter readings over time, or audit accounts that are spread out—this is your tool. Don't use it if you only need a single, simple metric like 'what day is the next billing cycle?' For those narrow questions, a dedicated calendar or reminder tool works better. If you just want to know today's weather, don't waste time here; go find a weather API instead.

Arcadia Plug: Automating Utility Billing Statement Retrieval

Right now, tracking utility spending is a nightmare. You spend hours logging into provider portals—ConEd, PG&E, etc.—and manually downloading PDF statements just to get the total charges and billing dates. Then you have to copy-paste that data into an Excel sheet, hoping you don't miss a column or misread a date.

With this MCP, your agent handles all that painful process for you. You ask it, 'Show me the last three statements for Site Alpha.' It pulls the raw metrics and presents them in a clean table format, letting you immediately see charges and periods without touching a PDF.

Arcadia Plug: Improving Energy Usage Visibility with Meter Data

Manually checking usage is even worse. You might have one main meter reading, but if you also use natural gas or electric service points, those meters are separate. You end up comparing apples to oranges because the data sources aren't centralized.

This MCP solves that by listing every individual service point and its associated meter ID. It gives your AI client a unified view of all usage across different utilities and locations, so you can finally track total consumption accurately.

6 Tools in the Arcadia Plug MCP for Utility Data Management

Use these tools to audit connections, list accounts, retrieve statements, check meters, and verify utility credentials through natural language prompts.

#	TOOL	DESCRIPTION
01	`get_account_check`	Verifies if a specific Arcadia utility account has been successfully connected for data access.
02	`get_statement`	Retrieves the full details, charges, and billing period for one specified historical statement.
03	`list_accounts`	Generates a list of every utility account associated with your organization that can be managed by the AI agent.
04	`list_credentials`	Provides a full inventory and status check of all stored utility login credentials used for data retrieval.
05	`list_meters`	Lists every individual meter or service point across your accounts, allowing you to track usage at specific locations.
06	`list_statements`	Pulls a list of all available historical utility bills and statements for review.

See It in Action

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

U List all utility accounts linked to the corporate entity.

✅ **Utility Accounts Found:**

- **Provider:** ConEd Energy Solutions
* **Account ID:** 12345678 (Active)
* **Status:** Good Standing
* **Type:** Electrical
- **Provider:** City Gas & Light
* **Account ID:** G9876543
* **Status:** Active
* **Type:** Natural Gas

You have 2 primary accounts ready for data retrieval.

U What was the total usage and charges from last year?

🗓️ **Billing Summary (Last Year):**

PROVIDER	SERVICE TYPE	TOTAL CHARGES	PERIOD END DATE
ConEd	Electric	$14,520.00	Dec 31, 2023
City Gas & Light	Natural Gas	$6,890.00	Dec 31, 2023

*The total combined utility cost for the period ending December 31, 2023, was **$21,410.00**.*

U Which meters are on account 'C-98765'?

📍 **Meters Associated with C-98765:**

The following service points are linked to that account:

- **ID: met_1122** (Primary Electrical Meter)
* **Type:** Electricity
* **Location:** Main Office, Level 1
- **ID: met_3344** (Gas Utility Meter)
* **Type:** Natural Gas
* **Location:** HVAC Room B

Frequently Asked Questions

01 **How does Arcadia Plug help me track utility bills from different providers?**

It pulls statements from multiple utilities into one place, letting you compare charges side-by-side. You simply ask for the timeframe, and it gathers all necessary billing details automatically.

02 **Can I use Arcadia Plug to see my total energy usage across all buildings?**

Yes, by listing all accounts and then finding individual meters using list_meters, you can get a comprehensive picture of consumption points across your entire portfolio. It aggregates the data for you.

03 **What if I need to check an old utility bill that isn't easily found?**

You first use list_statements to see all available billing records, and then request details using get_statement on a specific date or period. It helps you locate any historical data point.

04 **Is Arcadia Plug secure for handling sensitive login information?**

Yes, it uses industry-standard OAuth 2.0 security protocols to access your data. You can even use list_credentials to audit exactly what logins are being used by the system.

05 **What kind of data does Arcadia Plug provide for ESG reporting?**

It provides granular usage metrics and historical billing records necessary for carbon footprint analysis. You get reliable, dated consumption numbers that you can use directly in your reports.

Go Live in 60 Seconds

Get your connection token from **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
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"arcadia-plug": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	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

Arcadia Plug 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 →

vinkius.com · support@vinkius.com

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