

ENERGY, MINERALS AND NATURAL RESOURCES

# TheGlobalFuel

One governed record for every producing asset, and for everything the business does with what that asset produces.

ASSET REGISTRY

PRODUCTION AND RESERVES

OFTAKE AND SHIPMENTS

INVENTORY AND LOGISTICS

ESG AND COMPLIANCE



Pre-launch. Launching 2026, currently in waitlist mode. Everything described here is either shipped in the current build or explicitly marked as planned.

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## 01 The short version

TheGlobalFuel is a single control plane for the resources value chain: what you own and operate, what it produces, what you have committed to sell, where the material actually is, and what you have to be able to prove about all of it.

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### 13

#### Commodities

Crude, gas, LNG, coal, iron ore, copper, bauxite, lithium, gold, rare earth, biofuel, hydrogen and electricity on one model.

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### 12

#### Asset kinds

Wells, oil and gas fields, mines, quarries, refineries, processing plants, power plants, storage terminals, pipelines, wind and solar farms.

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### 1

#### Connected record set

Asset to production to reserves to contract to shipment to inventory to emissions, with no export step between them.

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### Day 1

#### Governance included

Role-based access, audit trail, multi-tenancy, files and notifications come with the platform rather than being bolted on later.

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## 01 A patchwork, and what replaces it

### TODAY

Businesses that produce the world's energy and minerals still run on a patchwork. Production sits in one spreadsheet, contracts sit in an inbox, inventory sits on a separate ledger, permits sit in a binder, and the emissions number is reconstructed at quarter end. Nothing lines up, no two teams quote the same figure, and leadership steers a portfolio it can only see one asset at a time.

### WITH THEGLOBALFUEL

TheGlobalFuel sits in the middle of that. Every producing asset — a well, a field, a mine, a quarry, a refinery, a power plant, a storage terminal, a pipeline, a wind or solar farm — becomes one structured record. Production, reserves, inventory lots, offtake contracts, shipments, emissions and permits all hang off that record and read from the same source of truth. Mark a shipment delivered and its volume rolls into the contract it fulfils; nobody re-keys it anywhere.

### THE PROMISE

**Record it once, where the work happens. Commercial, logistics, compliance and leadership are already looking at the same record.**

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## 01 Two deliberate choices

It is multi-commodity on purpose. A barrel of crude, a tonne of ore and a megawatt-hour of power live on the same model, so an operation moving across the energy mix never has to change platform to do it.

And it is headless: everything on screen is equally reachable through a governed API, so the platform drives your control rooms, field apps and finance systems rather than trapping the data inside a closed product.

# Who it is for

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## Oil and gas operators

Wells, fields and terminals with production, reserves, offtake and emissions in one place instead of four systems that disagree at month end.

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## Renewable and power operators

Solar sites, wind farms and power plants modelled alongside fossil assets, so generation, availability and grid delivery sit in the same portfolio view.

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## Logistics and supply-chain coordinators

Pipeline, rail, truck, tanker, bulk-vessel and grid movements on one shipment record, with the bill of lading attached to the cargo it belongs to.

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## Portfolio executives and enterprise architects

A consolidated view across commodities and regions, and a headless API to wire resource data into finance, field systems and partner platforms as infrastructure.

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## Mining and minerals companies

Mines, quarries, stockpiles and concentrate, tracked by tonnage and grade from pit to port, with chain of custody assembled as you operate.

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## Commercial and offtake teams

Offtake, supply and sales agreements as structured commitments tied to real deliveries, so long or short position is visible rather than inferred from a PDF.

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## ESG, sustainability and compliance officers

Emissions by greenhouse-gas scope, permits, licences and provenance recorded against the operations that create them, so an audit is answered from a maintained record.



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## 03 What breaks today

None of these problems are exotic. They are the ordinary, expensive friction of running a resource business on tools that were never designed to know about each other.

### Asset and production data live in disconnected spreadsheets

There is no shared answer to the simplest question a resource business asks: what do we own and operate, and what is it doing right now.

- Every producing asset becomes one structured record carrying its kind, commodity, lifecycle status, location and coordinates, nameplate capacity, working interest and accountable operations lead.

### Month end reconstructs reality from memory

Decisions are taken on a report that describes a world several weeks old, and the people who could have acted on it have already moved on.

- Output, grade and downtime hours are captured against the asset and reporting period as they happen, each entry stamped and attributable, feeding utilisation, inventory and analytics immediately.

### Contracts, deliveries and settlement live in different tools

Nobody can say with confidence whether the business is on track against its obligations, or where it is long or short, without a manual reconciliation exercise.

- Offtake, supply and sales contracts are modelled with counterparty, side, pricing basis, currency and contracted volume, and a delivered shipment rolls its volume into the contract exactly once, automatically.

### Material goes dark between pit, port and plant

Cargo disappears between handoffs, paperwork arrives separately from the goods, and demurrage and write-offs are discovered rather than prevented.

- One shipment record covers all six transport modes with origin, destination, carrier or vessel, a scheduled to loading to in-transit to delivered timeline, and the bill of lading attached to the movement itself.

### Inventory is a stale snapshot nobody fully trusts

Dispatches and sales are planned against a number that was true last week, which is how you end up selling material you have already committed.

- Inventory lots are held by location, commodity and grade with a status of available, reserved, in transit, consumed or written off, and a per-unit valuation, so the balance moves as production and movements move.

### ESG and compliance are rebuilt every reporting cycle

Sustainability figures drift away from operational reality, and a regulator's question turns into a fire drill across half the organisation.

- Emissions are recorded by greenhouse-gas scope against the asset and period that produced them, with methodology and a third-party verification flag; permits and licences carry expiry dates, evidence documents and a lifecycle the platform surfaces before they lapse.

### Every commodity and region uses its own system of record

A portfolio moving across the energy mix pays to re-platform, and loses its operating history in the process.

- Fossil, mineral and renewable assets share one model across 13 commodities and 12 asset kinds. Adding a commodity is configuration, not a migration project.

### The system of record cannot be driven from anywhere else

Integration work turns into re-keying, and resource data stops at the boundary of whichever product happens to own it.

- The platform is headless. Every capability on screen is reachable through the same governed GraphQL interface, with typed clients, a command-line tool and an agent surface over it.

## 04 What you get

1 OF 2

The product is a small number of building blocks that are deliberately connected. Each one is useful alone; the value is that a change in one is visible in all the others without an export.

### REGISTRY

#### Asset record

One structured record per producing or holding asset across 12 kinds, with commodity, full lifecycle status from exploration to retirement, free-text location plus coordinates, nameplate capacity and unit, working interest and an accountable operations lead.

### OPERATIONS

#### Production capture

Measured volume for an asset over a daily or monthly period, in barrels, cubic metres, MCF, tonnes, kilograms, megawatt-hours or gigajoules, with measured grade or quality and downtime hours. This is the raw signal every downstream view depends on.

### SUBSURFACE

#### Reserve estimates

Point-in-time recoverable-volume estimates classified in SPE-PRMS style as proved, probable, possible, contingent or prospective, each with an as-of date, recovery factor, unit and stated methodology, so the resource base is dated and auditable.

### COMMERCIAL

#### Offtake contracts

Sell or buy agreements with counterparty, term, delivery location, contracted and delivered volume, and a pricing basis of fixed, index-linked, spot or formula with price or index and currency, moving through draft, negotiation, signed, active, suspended, completed or terminated.

### LOGISTICS

#### Shipments

Physical movements delivering against a contract by pipeline, tanker, rail, truck, grid or bulk vessel, with origin, destination, volume, carrier or vessel, a scheduled to delivered timeline, and a bill-of-lading or certificate document reference.

### CONTINUED

**Stock, sustainability, regulatory and provenance follow.**

### STOCK

#### Inventory lots

Balances of commodity held at a location, with lot code, grade, quantity and unit, per-unit valuation and currency, a status lifecycle, and an optional link to the asset that produced the material.

### SUSTAINABILITY

#### Emission records

Greenhouse-gas emissions for an asset over a reporting period by GHG Protocol scope 1, 2 or 3, in tonnes of CO2 equivalent, with a source or category label, the calculation methodology or emission-factor reference, and a third-party verified flag with timestamp.

### REGULATORY

#### Compliance certificates

Seven categories of obligation — environmental permit, emissions report, extraction licence, export licence, safety audit, carbon credit and chain of custody — each with issuing authority, certificate number, issued and expiry dates, a responsible owner, an evidence document and a status lifecycle.

### PROVENANCE

#### Chain of custody

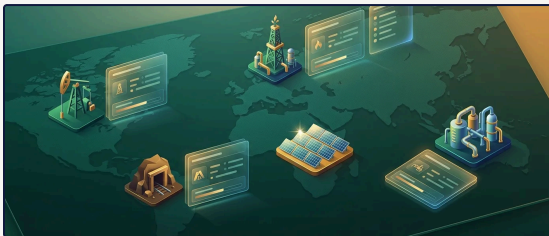
A six-stage custody chain assembled only from real linked records: the asset, the production booked against it, the inventory lot it produced, the shipment that moved it, the delivery that closed it out, and the chain-of-custody certificate with its evidence. Stages with no record degrade to an honest empty state rather than being interpolated.

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## 05 Put to work

These are the jobs the platform is built to do, written as scenarios rather than case studies. TheGlobalFuel is pre-launch, so nothing below describes a real operation, and where a capability is planned rather than shipped it says so.

## 05 Own it, measure it, book it



### OPERATIONS MANAGER

#### Model every asset — well, mine, field or facility — in one place

The answer to what we own and operate lives in three spreadsheets, a shared drive and one person's head, and none of them agree on status.

- One registry the whole business filters by commodity, kind and status, and the foundation every production entry, contract, shipment and emission record attaches to.

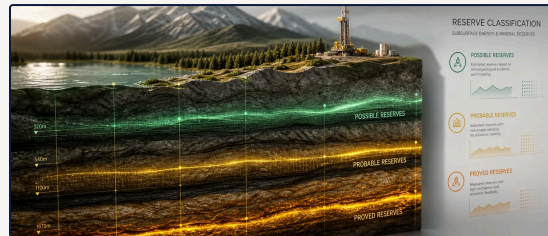


### SITE ENGINEER

#### Capture output the day it happens, not the month after

Production is logged locally and reconciled weeks later, so nobody can tell a bad day from a bad trend until the quarter is already lost.

- Performance against plan becomes a continuous picture, and downtime is a recorded fact on the asset rather than an anecdote.



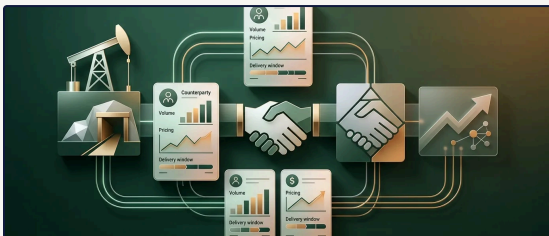
### RESERVES MANAGER

#### Book and track recoverable reserves by category

Reserve figures live in an undated analyst spreadsheet, so nobody can say which estimate the last commitment was actually based on.

- A dated, categorised, auditable view of the resource base, and a defensible basis for the offtake commitments the business can responsibly make.

## 05 Sell it, move it, count it

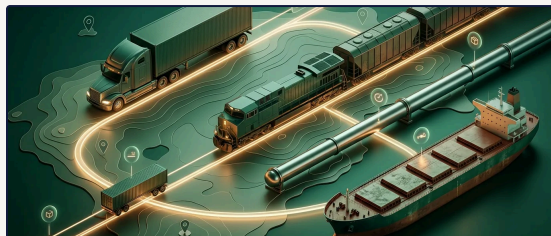


### COMMERCIAL MANAGER

#### Run offtake and supply contracts without losing the thread

The agreements the business lives on are PDFs in an inbox, so fulfilment status is a question somebody has to go and ask.

- Fulfilment, remaining volume and long or short position are visible on the record rather than reconstructed from correspondence.



### LOGISTICS COORDINATOR

#### Move material from pit to port to plant on one thread

Every handoff is a different system or a different email chain, and cargo routinely goes dark somewhere in the middle.

- One thread per movement, paperwork travelling with the cargo, and downstream teams who know what is coming and when.



### TERMINAL AND STOCK CONTROLLER

#### Know what is in every tank, stockpile and warehouse

Stock is a number somebody wrote down last week, which is how the same tonnes get sold twice.

- How much, where, and of what quality becomes a maintained answer that logistics and commercial teams can plan against.

## 05 Prove it



### SUSTAINABILITY LEAD

#### Measure emissions instead of estimating them at quarter end

The ESG number is assembled from a separate spreadsheet, so it drifts from operational reality and cannot survive scrutiny.

- An asset-level emissions picture derived from the same operational records the business already keeps, traceable back to the production it came from.

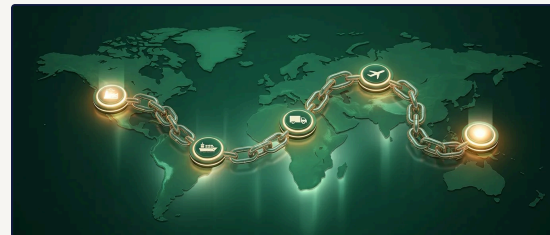


### COMPLIANCE OFFICER

#### Stay ahead of permits, licences and obligations

Renewals are remembered rather than tracked, and the evidence for each one is filed somewhere nobody can find under pressure.

- Renewals happen on schedule, and a regulator's question is answered from a maintained, attributable record rather than a search.



### RESPONSIBLE SOURCING

#### Prove where material came from and how it moved

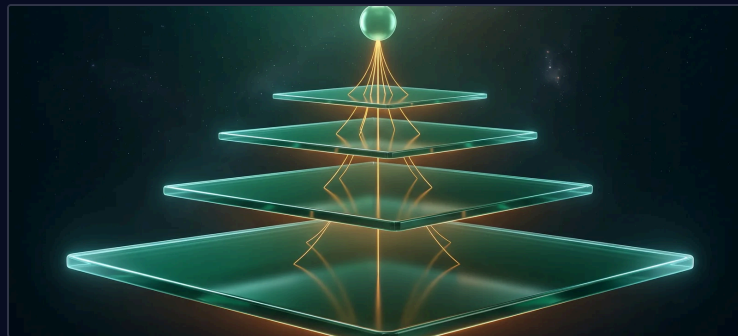
Buyer due diligence asks about a cargo that shipped months ago, and the answer has to be reassembled from paperwork.

- A provenance trail that falls out of operating normally, with honest gaps where the record genuinely does not exist.

## 06 Built AI-native

### AI that works from the same barrel, tonne and certificate you do

AI in resource software usually means a chat window bolted onto the side of a product, working from a copied index that was current the last time somebody remembered to sync it. TheGlobalFuel takes the opposite approach: the assistant and any external agent read and write the same asset, production, contract, shipment, inventory, emission and compliance records your team does. There is no separate AI copy of the truth to drift, and nothing the AI reports can be newer or wider than what you could already open yourself.



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## 06 Permission first, reasons second, cleverness last

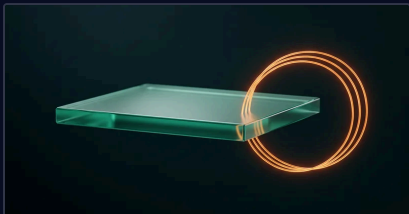
### PERMISSION BEFORE INFERENCE

The second design decision is that permission is checked before the model runs, not by the model. Access is enforced at the edge from the composed schema, so you, the assistant and your own agent are limited identically. A request for another workspace's cargo returns nothing. Every change lands in the same history as one you typed, with credentials stripped and long values trimmed, so an agent-initiated production entry is exactly as attributable as a manual one.

### EXPLAINABILITY BEFORE CLEVERNESS

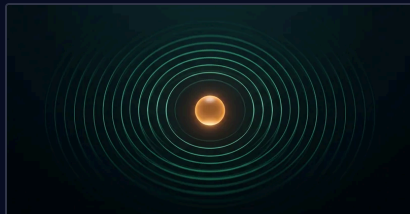
The third is explainability before cleverness. The alerting layer that ships today is a small, legible rule set evaluated over live records; each item quotes its rule verbatim and links to the record that tripped it. Checks that would need long operating history to be honest — trend breaks, seasonality, genuine anomaly detection — are deliberately refused rather than approximated in the browser. That is the contract the planned decision layer is being held to: a proposal must state its basis, cite the records it was computed from, and land next to one clear action.

## 06 Four pillars



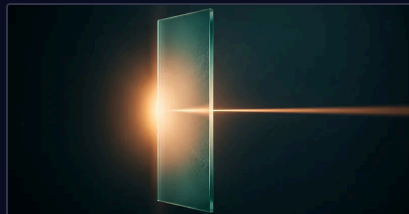
### **One set of records, no AI copy**

The assistant and outside agents operate on the same asset, contract and shipment records your team does. There is no separate index to fall out of date, and no reconciliation between what the product shows and what the AI believes.



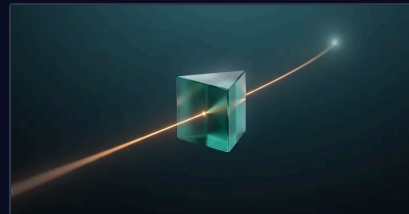
### **It already knows the record you opened**

Open a well, a cargo or an offtake contract and that record becomes the subject. Seven detail record types and every list view are resolved from the route, so this asset works without pasting an id, and a shared link carries the subject with it.



### **Your permissions decide, not the model**

Authorisation is evaluated before the model is invoked. An assistant or agent signed in as you can never see or do more than you can, and the same quota and audit rules apply to an AI-made change as to a typed one.



### **Reasons first, cleverness second**

Every alert states the rule it fired on and links to the record behind it. A suggestion that cannot cite the records it came from is treated as a defect, not a hunch, and checks that need history the product does not have are refused outright.

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## 06 Shipped today

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### An assistant on every screen

Present on all fifteen product screens — assets, production, reserves, contracts, shipments, inventory, emissions, compliance, provenance, analytics, reports and alerts — rather than parked on a separate AI page.

You never leave the record to get an answer about it.

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### 29 tools for your own AI agent

A Model Context Protocol server covering the asset registry, production, reserves, contracts, shipments, inventory lots, emission records and verification, and compliance certificates, plus shared platform modules.

Bring your own agent rather than being confined to the built-in one.

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### Knows the record you are looking at

Seven record types — asset, offtake contract, shipment, inventory lot, emission record, compliance certificate and reserve estimate — plus every list view are resolved on sight from the route.

No ids to paste, and a shared link opens on the same subject.

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### Eleven alerts that quote their rule

Certificate lapses and status drift, over- and under-delivered contracts, stalled cargo, heavy downtime on a production entry, unverified emissions and written-off lots, all evaluated over live records.

Each shows the exact rule wording and a link to the record, so it can be checked.

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### A deliberately thin context envelope

Exactly nine details travel with a question: current URL and page, resolved record type and id, platform and app version, viewport, user agent and a timestamp.

No volumes, prices, counterparty names or notes are packed into the prompt.

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### Every AI-made change is on the record

Mutations and security-sensitive single-record reads are written to the same history your team already reviews, with passwords, keys and credentials stripped and long values trimmed.

An agent-made production entry is as attributable as a typed one.

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## 06 In progress, and on the roadmap

### IN PROGRESS

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#### Framework-aligned disclosure figures

Emission totals by scope, the share independently verified, and certificate counts by category and status, computed straight from your records as arithmetic rather than model output. The calculation works; the review-and-finalise screen is still being built.

#### A 19-case behaviour test set

Nineteen written cases pin expected behaviour, including refusing to mark an emission independently verified on request, refusing to invent a certificate number and refusing to backdate a production entry. The harness that runs them automatically is not built.

#### Credit check on every AI turn

Limits hold today, but the charge lands on a shared pool rather than one scoped to this product.

### ROADMAP

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#### Confirmation before irreversible agent actions

Named as a gap. Until it ships, treat an agent's access exactly as you would a signed-in operator's.

#### Offtake, output and renewal decisions

Whether a contract is heading long or short and what movement would close it, whether an asset is out of character against its own history, and which renewals to start now. Every input is already queryable; the layer that ranks and proposes is not built.

#### A scheduled daily sweep and monthly close

An unattended run that works the daily checks, reconciles delivered against contracted volume each month, drafts the disclosure it can calculate, and queues anything consequential for approval. It will draft and propose only; finalising a disclosure stays a human decision.

## 06 Reachable from, and in numbers

### REACHABLE FROM

- The in-app assistant, mounted in the shell and present on all fifteen product screens
- Any Model Context Protocol client — bring your own agent and sign in with a short code
- The alerts surface, where eleven rule-based checks run over live records
- The governed GraphQL API, which the assistant and agents both call rather than bypass
- The command-line tool and the typed Node and Python clients over the same interface
- Scheduled unattended runs for the daily sweep and monthly close — planned, not built

### IN NUMBERS

- 29 domain tools exposed to external AI agents, spanning registry, production, reserves, contracts, shipments, inventory, emissions and compliance
- Eleven deterministic alert rules, each quoting its wording verbatim and deep-linking to the record that tripped it
- Exactly nine context keys leave the page with a question; no volumes, prices, counterparty names or notes are included
- A six-stage custody chain assembled only from linked records, with empty stages shown as empty
- No forecast, score or recommendation exists in the product today — the input side is real, the ranking layer is not

What the AI does not do yet: there is no forecasting, no anomaly score and no recommendation engine in the product. The ranked decision layer, plain-language traversal of the custody graph and the unattended daily and monthly loops are designed and ticketed, not available. The confirmation gate for irreversible agent actions is not switched on, so treat agent access exactly as you would a signed-in operator's.

## 07 Who does what

1 OF 2

Six roles are seeded into every workspace automatically. Levels run ADMIN above EDITOR above VIEWER, granted per resource type, and grants are sparse: a resource type a role does not list is denied to it. The omission is the access control.

### Portfolio Owner

Cares about: the whole estate, and who is allowed to change what within it.

The portfolio executive or resource leader who steers many assets, commodities and regions as one book. The only role with administrative reach across every domain, including offtake contract terms and asset retirement, so accountability for the whole record sits in one place.

- Full control of the asset registry
- Production and reserve administration
- Offtake contract terms and lifecycle
- Shipments and inventory valuation
- Emissions and compliance records
- Retire an asset from the registry

### Operations Lead

Cares about: output against plan, downtime, and the integrity of the asset record.

The person named accountable on a producing asset. Runs the registry end to end and owns the production and reserve record everything downstream depends on. Deliberately granted no contract permission at all, so operations never see deal pricing.

- Create and update assets
- Drive asset lifecycle to retirement
- Own production and reserve data
- Edit inventory and shipments
- Record emissions against assets
- Read-only on compliance certificates

### Commercial Manager

Cares about: fulfilment against obligation, and whether the book is long or short.

The commercial and trading team who model sell and buy agreements, move them through their lifecycle, schedule the shipments that fulfil them and reserve the inventory they draw from. Reads the registry to know what the business can responsibly commit, but cannot alter operational records.

- Create and edit offtake contracts
- Advance contract lifecycle
- Schedule and update shipments
- Reserve and release inventory
- View assets, production and reserves
- No emissions or compliance access

**ESG and Compliance Officer**

Cares about: defensible figures, current permits, and an evidence trail that survives an audit.

The sustainability and compliance team. Owns the emission and certification record, including marking a figure third-party verified and advancing a permit through its lifecycle, and can read operational and movement data to assemble chain of custody without changing any of it.

- Record and revise emissions
- Register permits and licences
- View assets, production and shipments
- Mark an emission third-party verified
- Advance certification lifecycle
- No contract or inventory access

**Field Operator**

Cares about: getting today's reality onto the record before it is forgotten.

Site, terminal and logistics crews doing the day-to-day capture: volume, grade and downtime for the period, the lot sitting in a tank or on a stockpile, and each movement's status as it leaves and arrives. Sees the asset they work on but never contract pricing, reserves or regulatory filings.

- Capture production for the period
- Create and update inventory lots
- View the asset they work on
- Record grade and downtime hours
- Move shipments loading to delivered
- No reserve, contract or ESG access

**Auditor**

Cares about: whether the record supports the claim, without touching the record.

Internal auditors, external verifiers and regulators who need to answer a question from a maintained, attributable record. Every grant is read-only across the registry, production, reserves, movements, emissions and certifications.

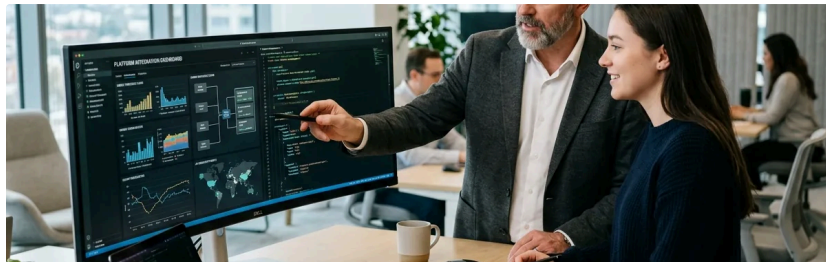
- Read the full asset registry
- Read shipment and delivery records
- Read permits, licences and evidence
- Read production and reserve history
- Read emissions and verification state
- No write access anywhere

## 08 Under the hood

TheGlobalFuel is headless first. Every asset, production record, reserve estimate, offtake contract, shipment, inventory lot, emission record and compliance certificate is a federated GraphQL type, and the interface calls exactly the same operations an integrator would. There is no privileged internal path that the API cannot reach, which is why an external agent, a typed client and the product screens all behave identically.

Authorisation is enforced at the API edge, not re-implemented per feature. Every query and mutation field carries an access directive declaring the action, resource and scope it requires; the gateway reads that from the composed schema, checks it, and only then forwards the request. Eight resource types are enforced at workspace scope, two of which — contracts and inventory lots — are gated above viewer level because they carry pricing and valuation data.

The domain is collision-safe and workspace-scoped by construction. Every record belongs to a workspace, so multi-tenancy is a property of the data model rather than a filter somebody remembered to apply. Schema changes ship as versioned migrations so they behave the same across environments and on re-runs, and state changes publish on an event stream so downstream systems stay in step without polling.



### THE SPLIT THAT MATTERS

Operations and commercial are separated in the permission model, not by convention. The Operations Lead who owns the asset, production and reserve record holds no contract permission at all, and contract and inventory reads are gated above viewer because they carry counterparty pricing and per-unit valuation. That separation is enforced by the platform, so it survives staff turnover and reorganisation.

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## 08 Capability by area

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### Federated domain model

Assets, production, reserves, contracts, shipments, inventory, emissions and compliance are federated entities keyed by id, so they can be referenced and extended from other parts of a shared graph rather than duplicated.

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### Connections and pagination

Cursor-style connections for assets, contracts, production records, inventory lots and emission records, with per-workspace indexing by status, kind and commodity for fast filtering at scale.

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### Units as first-class

Barrels, cubic metres, MCF, tonnes, kilograms, megawatt-hours and gigajoules coexist, so a barrel of crude, a tonne of ore and a megawatt-hour of power share one backbone without forcing one into another's shape.

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### Versioned schema migrations

The data model ships as ordered, versioned migrations rather than ad-hoc changes, so an environment can be rebuilt or a migration re-run without drift.

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### Access control on every field

Each query and mutation declares the action, resource and scope it requires. The check happens at the edge from the composed schema; the domain service never re-implements authorisation and never validates tokens itself.

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### Closed-loop volume accounting

Marking a shipment delivered rolls its volume into the linked contract's delivered total exactly once, so contract fulfilment stays correct without a reconciliation job or a nightly batch.

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### Attribution and soft delete

Records carry created, updated and on-behalf-of attribution plus soft delete, so nothing is anonymous and nothing is irrecoverably lost. Public types expose created and updated timestamps; the fuller attribution lives in the audit trail.

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### Event streaming

State changes publish on an event stream so downstream systems, analytics sinks and partner integrations stay in step without polling the API.

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## 08 Standards it speaks, systems it plugs into

### OPEN STANDARDS IT SPEAKS

- GraphQL, with Apollo Federation v2 entity keys on every domain type
- OpenID Connect single sign-on for interactive users
- OAuth 2.0 device authorisation flow for command-line and agent clients
- OAuth 2.0 client credentials for machine and service access
- Model Context Protocol for AI agent tools, resources and prompts
- GHG Protocol scope 1, 2 and 3 classification in tonnes of CO2 equivalent
- SPE-PRMS-style reserve categories with recovery factor and methodology
- Signed webhooks for outbound event delivery
- Signed-URL access for evidence documents and bills of lading
- ISO 8601 timestamps and standard currency codes throughout

### PLUGS INTO

- ERP and finance systems for the commercial and settlement side
- Field, SCADA and sensor data sources for operational capture — ingestion is on the roadmap
- Logistics and carrier partner systems for movements and delivery status
- Analytics and data-warehouse pipelines over the same governed API
- Identity providers via OpenID Connect single sign-on
- AI agents and desktop assistants over Model Context Protocol
- Typed Node and Python clients for automation and notebooks
- A command-line client for scripting and continuous integration
- Outbound webhooks for asset, contract, shipment and compliance events
- Shared workspace services for files, tags, conversations, notifications and scheduling

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## 08 How it deploys

### **Multi-tenant cloud**

The default. Workspace-scoped isolation on shared infrastructure, provisioned in minutes rather than as a project.

### **Dedicated tenancy**

An isolated environment for regulated or larger operations, available as an enterprise option with its own commercial terms.

### **Self-hosted**

Offered as an enterprise option in annual tiers sized by managed-asset count, with support and update cadence set by tier.

### **Data residency**

Region selection is available as an enterprise option and is agreed in the order form rather than self-served.

### **Headless adoption**

Adopt the API first and keep your own front end. Every capability on screen is reachable through the same interface.

### **Phased rollout**

Feature flags allow new surfaces to be enabled per workspace or per user, so an operation can stage adoption asset by asset.

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## 09 Security & trust

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Resource operations carry commercially sensitive and regulated data, so the controls below describe what is built rather than what is aspired to. Where a certification is not yet held, it is named as not yet held.

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### Single sign-on

OpenID Connect for interactive users, with OAuth 2.0 device authorisation for command-line and agent clients and client credentials for machine access, so every surface authenticates against one identity layer.

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### Services do not validate tokens

Identity arrives at the domain service as verified request context from the gateway. There is no second, divergent implementation of authentication to keep in step or to get wrong.

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### Financial data gated above viewer

Offtake contracts carry counterparty, pricing basis, index and currency; inventory lots carry per-unit valuation. Read and list on both are restricted to editor level and above, so a general read-only role cannot enumerate commercial terms.

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### Six seeded roles, sparse grants

Roles are seeded automatically into every workspace and reconciled on each run. A role lists only the resource types it grants, and anything it does not list is denied — the omission is the control.

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### Authorisation at the edge

Every query and mutation carries an access directive declaring its action, resource and scope. The gateway enforces it from the composed schema before the request reaches the domain service, which never re-implements authorisation.

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### Workspace isolation by default

Every asset, production record, contract, shipment, lot, emission record and certificate is workspace-scoped in the data model, so tenant separation is structural rather than a filter that has to be remembered.

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### Separation of operations and commercial

The role that owns the asset, production and reserve record holds no contract permission at all. That boundary is expressed in the seeded role catalogue rather than left to convention.

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### End-to-end audit trail

Every mutation, and security-sensitive single-record reads, flow into a searchable, exportable activity timeline with actor, target and result. Audit data is retained for seven years on every plan.

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### Attribution and soft delete

Records carry created, updated and on-behalf-of attribution, and removals are soft deletes, so a deletion is a modelled, reversible event rather than a disappearance.

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### Quota enforcement at the action layer

Usage limits are checked where the mutation happens rather than reconciled afterwards, and an AI-initiated write consumes the same allowance as a manual one.

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### Supply-chain scanning in the build

Dependency and infrastructure vulnerability scanning, software bill of materials generation, secret scanning and image scanning run as part of the build pipeline, with a security review before every change is merged.

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### Governed evidence storage

Bills of lading, quality certificates and compliance evidence live in the shared file service with signed-URL access, governed by the same roles and audit as the records that reference them.

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### Per-environment secret management

Secrets are held in per-environment managed vaults and are never the origin of a configuration file, so no environment can read another environment's credentials.

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### Responsible disclosure

A published security contact and a documented disclosure process, with a security policy served at the site's well-known path.

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## 09 Stated plainly

### CERTIFICATION

TheGlobalFuel is pre-launch and holds no completed third-party certification today. SOC 2 Type I and ISO/IEC 27001:2022 are targeted for late 2026 with SOC 2 Type II following in 2027, and ISO/IEC 27701 privacy certification after that. India's DPDP Act obligations are treated as continuous compliance with an external readiness assessment planned; a formal GDPR gap assessment is planned for 2027.

Card data is handled through payment-provider tokenisation, so PCI DSS scope is limited to a self-assessment attestation before in-app paid checkout, not a full certification. No claim is made to HIPAA. Production single sign-on, SCIM provisioning, audit streaming to a SIEM and data-residency selection are enterprise options rather than defaults.

### TWO KNOWN ACCESS-MODEL LIMITATIONS

Because contract and inventory reads are gated above viewer level for their financial content, an auditor or ESG officer who legitimately needs contract terms or physical stock balances cannot be given read-only visibility without an editor role that also grants write.

And emission verification enforces the same update action as an ordinary edit, so an independent verifier cannot be granted verify-only rights. Both are recorded as limitations rather than papered over with extra roles.

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## 10 One product, many front doors

The API is the product surface everything else is built on. Several clients around it are still pre-launch, and the list below says which is which rather than implying they all ship today.

### **Governed GraphQL API**

The headless backbone. Every asset, production, reserve, contract, shipment, inventory, emission and compliance operation, as a federated subgraph with access control on every field. Available today and the primary surface.

### **MCP server**

29 domain tools plus read-only resources and two guided prompts for asset onboarding and trade and ESG operations, so any Model Context Protocol client can operate the platform under your identity. Available today.

### **Web app shell**

The full workspace-native product: registry, production, reserves, contracts, shipments, inventory, emissions, compliance, provenance, analytics, reports and alerts across fifteen screens. Being finalised ahead of launch.

### **Node and Python clients**

Typed programmatic access for automation, integrations and serverless functions, and the same API surface in idiomatic Python for data, analytics and integration teams. Pre-launch.

### **Command-line tool**

Terminal-native automation and scripting for resource operations and continuous-integration workflows, authenticated by device code. Pre-launch.

### **Desktop and progressive web app**

A signed operations console for macOS, Linux and Windows, and an installable browser experience with resilient navigation and quick access to critical operational views. Planned.

### **Editor and browser extensions**

A developer extension for exploring the domain schema and validating queries, and a permission-aware companion for quick record lookups, alerts and links back into the workspace. Planned.

### **Mobile and field companion**

Native iOS and Android access plus a mobile-first flow for site checks, production observations, compliance evidence capture and handoff notes. Planned.

### **Documentation and community**

Guides, API reference and integration walkthroughs, alongside a community hub for operators, commercial teams and integrators. Documentation is live; the community hub opens with launch.

## 11 Plans

TheGlobalFuel is pre-launch and pricing has not been published yet. The tiers below are the planned launch configuration in the primary regional band, listed before tax, and are priced on the size of the portfolio you manage rather than on how many people log in.

### FREE

**\$0**

Trying the platform on a single field, mine or site, with no card required.

- 3 managed assets, 2 operator seats, 1 workspace
- 2 active offtake contracts
- 50 production and 50 emission records a month
- Full feature access — tiers differ by capacity, not by locking features

### STARTER

**\$99/mo or  
\$79/mo annual**

Single-site operators up to roughly 15 assets getting onto a real backbone.

- 15 managed assets, 5 operator seats, 1 workspace
- 10 active offtake contracts
- 5,000 production records a month
- 50 compliance certificates and permits

### GROWTH

**\$399/mo or  
\$319/mo annual**

Multi-asset operators trading at volume and running an ESG programme.

- 75 managed assets, 15 operator seats, 3 workspaces
- 50 active offtake contracts
- 50,000 production records a month
- 14-day trial available

### BUSINESS

**\$999/mo or  
\$799/mo annual**

Established producers up to roughly 300 assets needing full control and a service level.

- 300 managed assets, 50 operator seats, 10 workspaces
- Unlimited active offtake contracts under fair use
- 500,000 production records a month
- Full ESG and analytics depth

### ENTERPRISE

**From \$12 per  
managed asset  
/ month**

Multi-commodity, multi-region portfolios and regulated operators, on an annual contract.

- Custom managed-asset and record quotas
- Production single sign-on and SCIM provisioning
- Audit streaming to a SIEM and data-residency options
- Dedicated tenancy or self-hosting

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## 11 How pricing works

### **Priced on portfolio, not seats**

Cost scales with the number of managed assets, not the number of people using the console. Adding operators within a tier does not change the price, so collaboration is not taxed.

### **Capacity add-ons instead of forced upgrades**

Individual limits can be raised without changing tier: managed-asset packs from \$39 a month, offtake-contract packs from \$29, production-record packs from \$29, emission-record packs from \$49, storage from \$15 and API request packs from \$19. Add-ons are available from Starter upwards.

### **Regional pricing**

Four public regional bands replace one-off purchasing-power exceptions, so the platform stays reachable in emerging markets. Figures here are the primary band; your final price depends on billing country and tax rules, and web billing is canonical.

### **Enterprise shapes and services**

Dedicated tenancy, self-hosting in annual tiers sized by managed-asset count, managed operations retainers, migration engagements and support-hour packs are quoted separately. AI model usage is not included in plan pricing — the planned model is that you connect your own provider key, and a model catalogue and bring-your-own-key have not shipped yet.

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## 12 Why teams choose it

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### The value chain is one record set, not one integration project

Asset, production, reserves, contract, shipment, inventory and emissions are connected records by design. Marking a shipment delivered rolls its volume into the contract exactly once. Incumbents reach the same result through integrations or a monthly reconciliation.

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### Headless first, not a packaged app with an API bolted on

Everything the interface can do is reachable through the same governed GraphQL surface with permission checks on every field, which is why an external agent and the product screens behave identically.

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### Multi-commodity where the market is single-commodity

13 commodities across 12 asset kinds share one model, so a portfolio holding crude, ore and a solar farm runs on one platform. Most competing products are oil and gas only, minerals only, or renewables only.

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### ESG derived from operations rather than collected separately

Emissions are recorded against the asset and period that produced them, with methodology and a verification flag, so sustainability figures trace to the production behind them instead of being reconstructed in a parallel system.

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## 12 Why teams choose it

2 OF 2

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### Provenance falls out of operating normally

A six-stage custody chain is assembled from real linked records, with a dedicated chain-of-custody certificate category. No separate traceability programme and no distributed ledger project required.

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### Governance inherited rather than rebuilt

Role-based access, audit, multi-tenancy, files, tags, notifications, billing and quotas are present from the first release, so a workspace is enterprise-shaped on day one rather than after a hardening project.

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### Multi-modal logistics in one shipment record

Pipeline, rail, truck, tanker, bulk vessel and grid share one lifecycle and one document reference. Most logistics tooling in this sector is specific to a single mode.

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### Honest about the gap between shipped and planned

Every capability in the product's own material carries a built, in-progress or planned marker, and the roadmap items — position valuation, settlement depth, maintenance, supplier management, forecasting — are named as roadmap in the sales material, not implied as available.

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## 12 Honest answers to hard questions

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**You are pre-launch. Why would we bet an operation on that?**

You should not bet an operation on marketing. The backend foundation — registry, production, reserves, contracts, shipments, inventory, emissions and compliance on a federated API with permission checks, migrations and event streaming — exists in the build today, and the web interface is being finalised ahead of the 2026 launch. What is not built is listed as not built throughout this document. The reasonable move is a scoped pilot on one asset or one contract, not a full cutover.

**Our incumbent has deeper hydrocarbon accounting than you do.**

Correct, and that is worth being straight about. Production allocation splitting across working interests and reserve economics are not built; they are a genuine strength of established hydrocarbon suites. TheGlobalFuel captures production and registers reserve estimates today, and its advantage is the connected chain around them — contract, shipment, inventory and ESG on the same records — not depth of allocation accounting.

**Where is the AI? Everyone says AI-native.**

Three things work now: an assistant on every screen that already knows the record you have open, eleven rule-based alerts that quote their rule and link to the record, and 29 tools for your own AI agent. Two are half-built: the disclosure calculation has no review screen, and the behaviour test set has no automated harness. There is no forecast, no anomaly score and no recommendation engine in the product. Anyone claiming otherwise about this product would be overselling it.

**We need SOC 2 and ISO 27001 before we can sign.**

Then TheGlobalFuel is not procurable for you yet, and pretending otherwise would waste your time. SOC 2 Type I and ISO/IEC 27001:2022 are targeted for late 2026 with Type II in 2027. The controls themselves — single sign-on, edge-enforced authorisation, workspace isolation, seven-year audit retention, supply-chain scanning — are described here and can be reviewed now, but no certificate exists today.

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## 12 Where it sits against the alternatives

### VS ENERGY MARKET-DATA SUBSCRIPTIONS

Those products are excellent at telling you what the market is doing, backed by decades of curated well and market data that TheGlobalFuel does not have and does not intend to resell. They are not a system of record for the assets, contracts, shipments and inventory you actually own.

### VS HYDROCARBON ACCOUNTING SUITES

They are deeper than TheGlobalFuel on allocation splitting, measurement and reserve economics. TheGlobalFuel differs by spanning minerals, metals, renewables and hydrogen on the same model, and by tying offtake contracts to shipments and inventory natively rather than modularly.

### VS ENTERPRISE ERP SUITES

An enterprise suite covers finance, procurement and maintenance far more broadly, and TheGlobalFuel has no ambition to replace the general ledger. The trade is scope against time and cost. Maintenance and work orders are roadmap here, which is a real gap against them.

### VS EHS AND ESG PLATFORMS

They lead on named framework packs, process-safety and incident workflows, all of which are planned rather than built here. What TheGlobalFuel offers instead is emissions and permits sitting on the same records as the operations that generate them, so the figures are traceable to source.

### VS TRADING AND RISK SYSTEMS

Trading and risk systems go far deeper on position valuation, mark-to-market, hedging and credit exposure. Its strength is the physical side: the material behind the position, tracked from production through movement to delivery.

### VS SPREADSHEETS AND POINT TOOLS

They are free, familiar and genuinely flexible, and for a single site with one contract they may be enough for a while. The cost shows up as reconciliation, disputed figures and compliance fire drills, and it grows with the portfolio rather than with the tooling.

START TODAY

# Bring the whole value chain onto one record

TheGlobalFuel launches in 2026. Joining the waitlist gets you an early look at the model and the chance to shape it against your own operation.

- Join the waitlist and tell us which commodities and asset kinds you run
- Walk the use cases that match your operation and see where the model fits and where it does not
- Review the API and the role catalogue with your architects and your compliance team
- Scope a pilot on one asset or one offtake contract before committing anything wider

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PRODUCT SITE

[theglobalfuel.com](https://theglobalfuel.com)

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USE CASES

[theglobalfuel.com/use-cases](https://theglobalfuel.com/use-cases)

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HOW THE AI WORKS

[theglobalfuel.com/ai](https://theglobalfuel.com/ai)

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DOCUMENTATION

[docs.theglobalfuel.com](https://docs.theglobalfuel.com)

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TALK TO US

[contact@theglobalfuel.com](mailto:contact@theglobalfuel.com)

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Pre-launch product catalogue. No adoption, performance or certification claims are made. Prices are the planned launch configuration in the primary regional band, before tax, and are not yet published. Proprietary — Burdenoff Consultancy Services Pvt. Ltd.