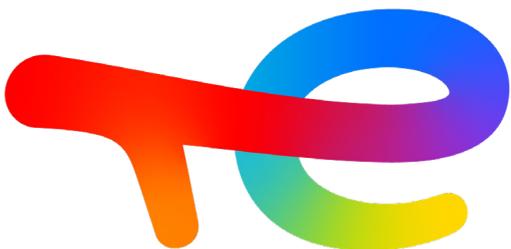


Working together with you
to improve your site's
energy efficiency



Optimizer is a digital solution designed to help you manage your site's energy consumption, reduce your carbon emissions with your current energy sources and help you plan for your energy transition

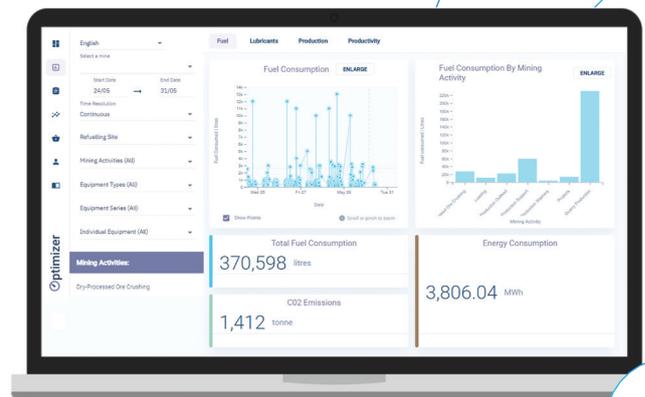


TotalEnergies

An energy efficiency service

Industrial sites such as mines, cement plants, construction, forestry/ logging and agricultural are **complex ecosystems of people, machinery and materials**, and it can be **difficult to spot energy inefficiencies**. With such a large proportion of your costs resulting from fuel, lubricants and electricity, this means you could be wasting hundreds of thousands of dollars each year

That's why TotalEnergies created Optimizer: **a simple, intuitive digital platform** that enables you and your teams to ensure all the site's energy and lubricant stock is properly used – while operating at full capacity. Backed by our team of experts, we support you every step of the way to **ensure optimal efficiency and support your energy transition**



Available in 3 versions

Optimizer Lite



Optimizer Lite includes vehicle recognition for secure pump activation, alert systems for tank overfills and daily, weekly and monthly usage reports

Optimizer Pro



Via a multi-energy customizable dashboard, Optimizer Pro identifies the misuse of all energy sources and allows you to improve operational costs, while reducing your carbon emissions

Optimizer Advanced



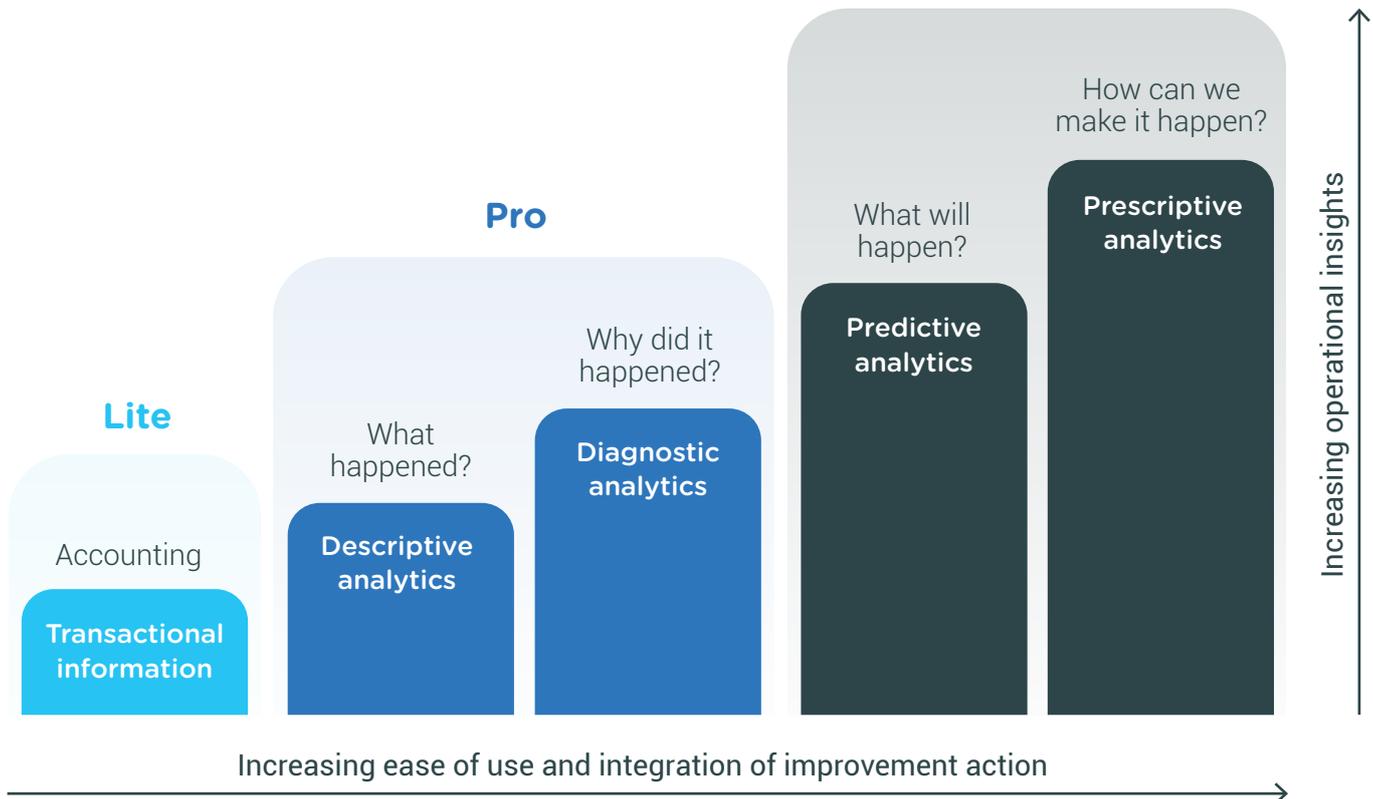
Optimizer Advanced uses the information gathered with Optimizer Pro from your actual site data to compare your existing energy sources with simulations against the various future energy options, and allows you to make the best decisions for your energy transition

Supply & Consumption

Analysis & Management

Planning & Forecasting

Advanced



Optimizer structure

	Lite	Pro	Advanced
Tracking of dispensing to final equipment	●	●	●
Identification of equipment and refueling data at site	●	●	●
Tracking of distance and/or operating hours of equipment/plant	●	●	●
Stock Management at primary storage facility	●	●	●
Tracking of stock movements around sites	●	●	●
Automatic detection of fraud and inappropriate use	●	●	●
Alerts and notifications	●	●	●
Analysis of fuel consumption by refueling site, operational activity, equipment types and individual equipment		●	●
Calculation and reporting operational KPIs		●	●
Monitoring and reporting CO ₂ equivalent emissions		●	●
Tracking of fuel, CO ₂ emissions, lubricant, and production performance against expected values		●	●
Monthly insights into fuel, lubricant, and production performance		●	●
Monthly energy review by TotalEnergies and energy performance management experts		●	●
Provision of Action Plan to be taken to improve production efficiency		●	●
Energy profiling of the operations			●
Opportunity Scoping to identify projects for reducing energy and CO ₂			●
Development of a short, medium and longterm carbon transition plan			●

Why choose Optimizer?



Use less, save more

Reduce your costs by improving your energy consumption

By using Optimizer to analyse and manage their fuel, lubricant and electricity usage, **our customers have reduced their energy costs by up to 8%**



Get the big picture – and the small details

Optimizer gives you accurate details from across site to improve Management and Finance reports, so you can take a **broader view**, and **individual teams can see how they can contribute** to the entire operation's improvements

This means that everyone is aligned on a single goal: **to reduce cost while operating at full capacity**



High performance everywhere

When you can **easily identify which machines or operators are not performing efficiently**, you can take steps to improve them, either through maintenance or training

You will **clearly see abnormalities between supply and actual usage** and you can determine whether fraud is a factor on your site



Reduce your CO₂ emissions

In addition to an energy transition plan, Optimizer helps you **reduce your current carbon emissions** with actions for each part of the fleet, which then allows for the best decision moving forward

This means that you and your stakeholders can be assured that you're taking **every possible step to conduct your operations responsibly and more sustainably**



Peace of mind for your team

Tracking and managing fuel and lubricant usage is a complicated process. The result is loss of productivity and inaccurate reporting

Optimizer simplifies the job by **reducing or eliminating paperwork and integrating all information in a single dashboard** – and generating reports in real time



Recognise what is important – forget the rest

Too much data can stop you from noticing important anomalies – for example, a gap between the fuel delivered to a vehicle and the fuel consumed

Optimizer generates **exception-based alerts** when an unusual pattern is identified, which means **you don't need to waste time analysing normal, efficient operations**

Customer success story

Tier 1 Miner
in Ivory Coast



The Issue

Controlling costs when
gold prices are falling

As one of the largest gold mining companies in the world, they knew that when gold prices were falling, **they needed to keep a tight control of their operating costs** to survive and thrive

As energy savings were a critical way to reduce operating expenses at one of the company's sites in the Ivory Coast, **implementing Optimizer to monitor, manage and reduce energy consumption was an easy choice**

The Result

Real-Time data integration
improved efficiency and cutting of costs

Optimizer provided the mine site with real-time insights and control over energy consumption, enabling enhanced efficiency and cost savings across its mining operations



\$470K

Nearly half-a-million dollars in annual cost savings



16%

Fuel consumption required for monthly ore haulage cut by up to 16%

Customer feedback

“Optimizer gives me the means to measure and assess the efficiency of our energy-saving plans”

Performance Manager

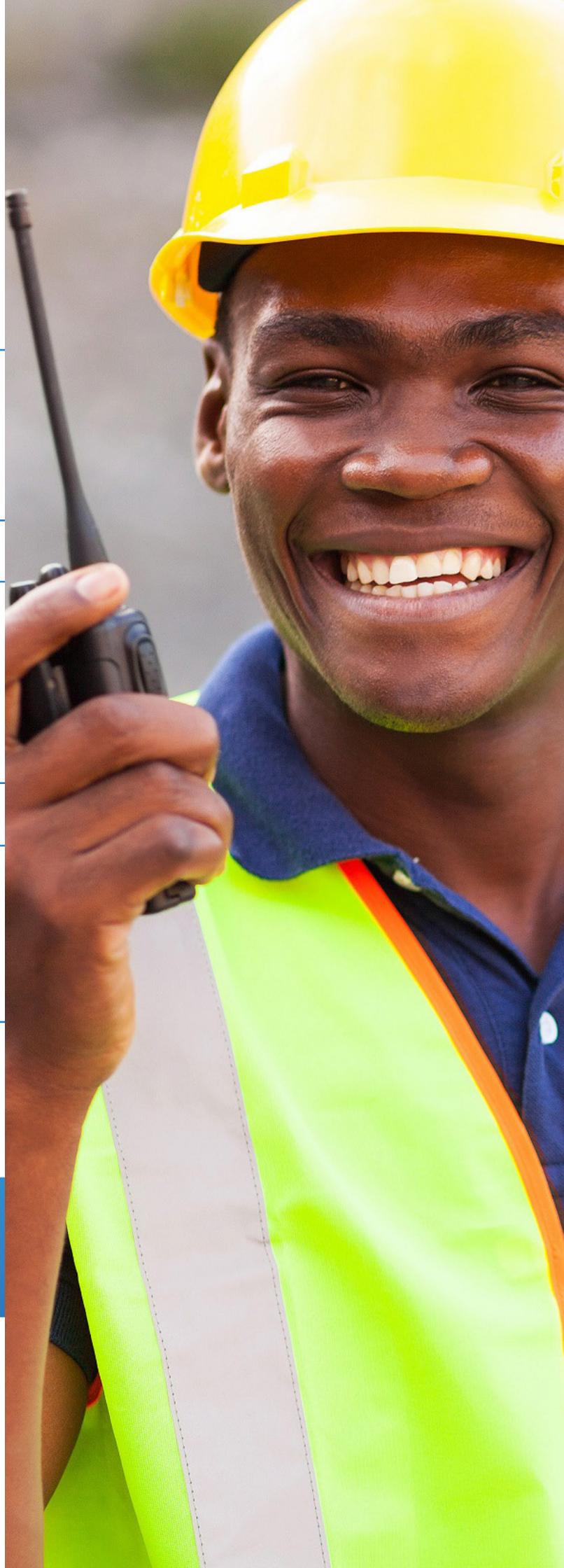
“Optimizer’s tools allow me to monitor my contractors’ activity and to negotiate contracts based on factual operational data”

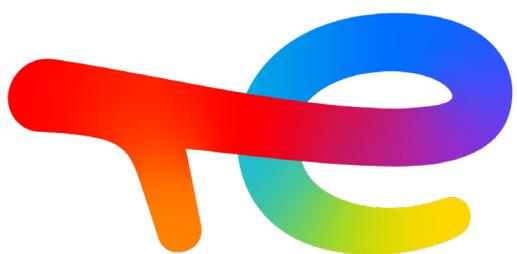
Supply Chain Manager

“Thanks to Optimizer’s team, we can take advantage of all the data that we had so much trouble analyzing”

General Manager

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