ENERGIZE YOUR STRATEGY

The Next Generation of Bloomberg’s Energy Offering

Bloomberg
CONTENTS

02 THE EDGE YOU NEED TO NAVIGATE THE ENERGY MARKET
03 BLOOMBERG’S ENHANCED ENERGY OFFERING
03 NEWS & FUNDAMENTALS
04 IN-DEPTH INDUSTRY ANALYSIS & RESEARCH
05 BLOOMBERG NEW ENERGY FINANCE
06 PRICE DISCOVERY
07 ENERGY ANALYSIS
08 CHARTING
09 MAPPING
09 FULLY CUSTOMIZABLE ON LAUNCHPAD
09 BE ON ANYWHERE
10 ENHANCE YOUR WORKFLOW WITH BLOOMBERG
THE EDGE YOU NEED TO NAVIGATE THE ENERGY MARKET

Constantly changing energy markets demand superior timing to identify risk, find value and improve profitability. Our service constantly evolves to help you develop and execute powerful energy trading and investment strategies. You can identify, evaluate and seize opportunity faster than ever before.

Find supply and demand models and data as well as comparisons of short and long-term prices and high-speed weather data, immediately. Use our powerful analytics and flexible charting to extract meaning from a mass of data. Delve into our rich analysis and research offering from Bloomberg New Energy Finance (BNEF) and Bloomberg Intelligence (BI). Set alerts on key news items, price movements and market events such as refinery or plant outages.

Bloomberg content includes proprietary supply and demand models, LNG flow data, infrastructure outages and much more. We also aggregate a huge range of data from worldwide sources. The result is unique market insights that can lead to profitable trading and investment opportunities.
BLOOMBERG’S ENHANCED ENERGY OFFERING

Oil
Obtain the best news, research, prices, fundamentals, spatial data and analytical tools to succeed in a market filled with volatility and risk.
- Track all of the related markets that affect oil prices, including currency, credit, fixed income and equity markets
- Generate trade ideas by using our exclusive, automated calculators and models
- Track oil movements at sea, refinery outages, and spot price differentials
- Follow refinery and pipeline outages, storage levels, refinery economics and netbacks, arbitrage flows and weather to anticipate diesel, gas oil, heating oil, and jet fuel supply and demand
- Bloomberg New Energy Finance analysis on the disruptive nature of electric vehicles

Gas
Access a world of information about natural gas markets, including:
- Outage information and operational data from multiple sources, including REMIT-related transparency sites and critical notices from pipelines
- Generation fuel monitors, gas commentary and regional basis reports from Genscape
- MAPS <GO> gives you direct access to pipeline flow data — download it to excel and into your models. Conduct capacity analysis, look at flow reversals and monitor supply and demand intra-day
- Weekly gas analysis: storage and flow estimates, supply/demand fundamentals and drilling economics
- Bloomberg New Energy Finance analysis on LNG supply and demand

We also offer a wide range of calculators and charting tools that are easy to use, highly accurate and customizable. You can use them to:
- Calculate and chart spark and dark spreads
- Track real-time LNG tanker movement into any port
- Price long-term oil indexed gas contracts
- Run risk and scenario analysis on our robust derivative platform to price and monitor options and swaps

Power
Gain transparency into global power pricing, trends and fundamentals such as:
- Historical and forecast weather data
- Proprietary power models, such as German and UK wind generation and electricity demand
- Spark and dark calculators and charting tools that are easy to use, accurate and customizable
- Bloomberg New Energy Finance analysis on power market supply and demand, market reform, economics, and utility business models

- WATT <GO> combines the Bloomberg Professional® service’s powerful analytics with Genscape’s expansive U.S. power-plant monitoring data. Whether you’re estimating intra-state pipeline burns using ERCOT generation data, or tracking top-line revenue changes for power producers, WATT <GO> delivers unique insight into the U.S. power stack.

Renewables & Carbon
Achieve insights into global renewable markets, policy and emission trading schemes.
- Latest information on global emissions markets, regional trading, allocation and reduction tools
- Bloomberg New Energy Finance premium research and analysis of electricity and power markets including wind, solar, nuclear, carbon capture and storage, carbon pricing, electric vehicles, EV batteries, energy storage and efficiency, and more.
- Environmental, Social and Governance data
- Wind and solar data sets including pricing and installations
- Corporate renewable PPAs
- Renewable build forecasts and project economics

Coal
- Access clean pricing and charting from OTC markets and exchanges
- Coal Retirement Model
- Analyze our live vessel tracking and unique coal shipment tracking alongside our comprehensive database of statistics
- Gauge buying appetite with our dark spread and coal to gas switching analysis

NEWS & FUNDAMENTALS

Breaking News
TOP <GO> is your gateway to comprehensive real-time news from tens of thousands of sources, including Bloomberg’s exclusive coverage.
Track today’s top stories across power and gas markets, oil, coal, renewables, emissions, currencies and macroeconomics. Create personalized news pages, filters and alerts based on your specific needs.

Get the First Word for Global Oil
FIRST <GO> is your source for Bloomberg First Word for Oil. Get insight and perspective from experienced news and market professionals who provide real-time updates and insights into the events and key data moving the price of crude.

Get immediate updates on key news events and a concise first take on the global oil market. First Word for Oil delivers real-time commentary on news affecting crude oil prices, from pipeline explosions and port closures to political turmoil and economic statistics affecting the market.
IN-DEPTH INDUSTRY ANALYSIS & RESEARCH
Bloomberg Intelligence Energy Industry Research & Data — BI <GO>

Dedicated Energy Research
Bloomberg Intelligence (BI), the research arm of Bloomberg L.P., offers independent analysis and data on the utilities, power generation, midstream and E&P industries — all on the Bloomberg Terminal®.

Both through BI and across the Terminal, you will find exhaustive energy data — all proprietary from Bloomberg or third-party sources.

Available data allows users to:
- Track and generate trading ideas from over 300 power, gas and fuel commodity prices with powerful visualization
- Discover, analyze and download key energy market margins including LNG netbacks and spark/dark spreads
- Understand long-term context with annual data on demand, supply and derived utilization rates
- Analyze short term and long term supply and demand trends on crude oil
- Receive quarterly updates on permit, well activity, and production for the key drivers of incremental oil and natural gas supply in the U.S. Analyze production by company by shale, acreage holdings, rig count by hydrocarbon and county level

Bloomberg Brief – Oil Buyer’s Guide, Power & Gas, Clean Energy
Bloomberg Brief newsletters combine Bloomberg data and news with industry-specific original content and commentary to help you stay informed and ready for your daily business needs. These newsletters offer access to proprietary Bloomberg data and breaking stories that move markets, free of charge to Bloomberg Professional service users.

Discover the full breadth of energy news from Bloomberg
BLOOMBERG NEW ENERGY FINANCE
Bloomberg New Energy Finance (BNEF <GO>) provides independent analysis and insight, enabling energy professionals to navigate change and generate opportunities in an evolving energy economy.

BNEF’s coverage of the electricity and power markets spans policy and technology developments, supply chain, country and company data, long-term forecasts, and more.

Never Miss Out on New Content
Set up alerts with BNEF <GO> to receive content as soon as it’s released. Access BNEF content via topic code NI BNEF <GO>. You can also find BNEF research via topic and country specific NI codes (e.g., NI WIND, NI POWERMARKET), through company-specific CN and BRC wires, or on RES <GO>.

Access Reports
Get BNEF analyst reports directly on the Terminal. Reports are viewable as PDF, or Excel® files (under Actions, click Open Attachments) to easily suit your workflow. You can also bookmark your favorite reports.

Download on Your Mobile Device
Find and read BNEF reports on your mobile phone or tablet through the Bloomberg Professional app.

Bloomberg New Energy Finance is now available on the Bloomberg Terminal at BNEF <GO> or NI BNEF <GO>.

BNEF’s premium research and analysis includes:
- Research: over 700 short and long form reports a year
- Data: the world’s most comprehensive database of projects, policies, companies and investments
- Models and analytical tools
- News: daily feed delivered to your inbox or mobile app
PRICE DISCOVERY

CFVL <GO> – is a proprietary pricing engine that incorporates all available data to give you the best indication of price even for less liquid instruments. These prices can be pulled at real time into Excel via the API.

CPLY <GO> – provides key information on standard commodity plays, which helps you identify trading strategies and spot anomalies. CPLY covers the top plays for the Oil, Metals, Agriculture, and the North American Natural Gas market, giving you the data you need to make quick, informed decisions.

BOIL <GO> – provides a complete picture of global spot oil and refined products pricing, so you can quickly identify price movement and potential arbitrage opportunities. Prices are organized by geographical region and broken down by spot crude prices, oil products, swap benchmarks, and retail pump prices.

BGAS <GO> – provides a comprehensive view of pricing for the North American natural gas spot market. Pricing is organized by geographical region and hub so you can quickly find the markets that are most important to you.

EUM <GO> – is a consolidated spot and forward pricing function for European gas, power, carbon and coal markets, as well as JKM LNG prices. It offers a quick overview of energy pricing across the OTC and exchange markets, as well as comprehensive information on the markets that are relevant to you.

SEUM <GO> – provides additional power pricing data; covering the hourly and half-hourly day ahead and within day power markets.

CFVP <GO> – takes fair value real-time forward curves and applies historical daily profiles to calculate prices for individual hours and hourly blocks to different forward periods from a specific day to a whole year. You can drag and drop a load or demand profile from Excel.

Energize your strategy
ENERGY ANALYSIS

Natural Gas & Power Tools

**NGAS <GO>** – leverages short term supply, demand, production, storage and flow analysis from LCI Energy Insight for the United States, Canada, and Mexico. Make more informed decisions using LCI’s weekly forecast and commentary.

**EUMM <GO>** – consolidates Bloomberg’s proprietary supply and demand modeling for European gas and power markets, as well as the high-speed, market-moving weather data which drive them, so you can make more accurate trading decisions.

**FDM <GO>** – lets you explore commodity fundamental data by product, location, type, source and keywords and filter information on natural gas, power, coal and other products of interest.

**SD <GO>** – calculates and charts spark spreads, dark spreads, marginal costs and fuel switches. It helps you quickly and accurately identify trends, relative value opportunities and price support and resistance levels.

- Input custom values for fixed costs, transportation, efficiency or heat rate, and CO2 adjustments, so you can accurately analyze real conditions in the physical market. Price two spreads at a time to compare different markets, different fuels or base versus peak and then add a new data series such as the marginal cost of production or fuel switch levels for one or both or your spreads.
- The Excel API allows you to pull real time market data into your own spreadsheets tools and models.

**Oil Analytics**

**REFO <GO>** – provides an overview of aggregated worldwide regional outages of refining process units, so you can analyze related statistics and a graphical representation of outage data, including the outage status, capacity, duration, and whether the outage was planned or unplanned. REFO assists you with forecasting refinery outages and alerts you when an unplanned outage occurs or when a planned outage is scheduled.

**SPRK <GO>** – allows you to monitor and analyze live and historical forward spark spreads by region, fuel type zone and hub. Quickly and easily visualize spark spreads to get a complete snapshot of North America’s power markets. One-click provides the user with historical correlation/regression/spread analysis.
CHARTING

There are a large number of charting tools available for use with pricing and fundamental data. Our seasonality charts were developed specifically for seasonal markets such as power and gas.

**SEAG**<sup>GO</sup> – allows you to overlay several years data to identify seasonal patterns in pricing or fundamentals such as gas storage levels.

**GIP**<sup>GO</sup> – shows intraday data such as how the price of forward power and gas markets are trading today or how much gas is flowing between two locations.

**GP**<sup>GO</sup> – is an easy to use charting tool that can be fully customized to include a wide range of technical analysis studies for one or several data sets.

**CCRV**<sup>GO</sup> – provides a simple way to track the evolution of the term structure of a forward curve over time.

**HS**<sup>GO</sup> – is a flexible spread charting tool to help track and analyze the development of related price series such as summer against winter gas, peak against off-peak power. Additional analysis such as correlation and regression studies can be simply added to allow richer analysis of the market.

Use important flow points to track historical gas flows and see the major market shifts. **COSY**<sup>GO</sup> gives you templates to allow you to build analysis quickly and effectively.

**CIX**<sup>GO</sup> – allows you create and manage custom indices.

---

![SEAG GO Seasonality Chart](image)
BMAP <GO> – enables you to survey the energy landscape by locating, tracking and interacting with a broad range of commodity assets. Visualize power plants, wind farms, LNG terminals and vessels, oil tankers, dry bulk cargo vessels and much more on our interactive map and accompanying data table.

MAPS <GO> – leverages the power of visualization to illustrate relationships between data and geography. MAPS allows you to intuitively search map data, so you can gain macro and market insights into trends and patterns in the information.

FULLY CUSTOMIZABLE ON LAUNCHPAD
LPAD <GO> – enables you to create a powerful and flexible desktop workspace.

With this unique tool, you can build your own monitor screen layout that includes only the data sources and tools that are important to you. Actionable sets of information are available for gas, power, coal and other commodity categories.

It’s easy to customize LaunchpadTM by accessing a menu of recent releases, featured components and sample views on the opening screen. Links throughout the screen connect you to tutorials, user guides and other training information.

BE ON ANYWHERE
Gain access to real-time data on every market, unparalleled news and research, powerful analytics and communications tools on the Bloomberg Professional service — from wherever you are. Bloomberg Anywhere® delivers a seamless, personalized experience that keeps you connected from virtually anywhere, from any type of device.

Follow custom monitors created in Launchpad with real-time updates, apply news filters and receive security alerts, anytime from anywhere.
ENHANCE YOUR WORKFLOW WITH BLOOMBERG

Energy Traders
Bloomberg is the platform of choice in the energy space, combining macro and asset-specific breaking news, aggregating key fundamental data and pricing, as well as providing advanced analytics to assist energy traders in making more informed trading decisions.

<table>
<thead>
<tr>
<th>MARKET SURVEILLANCE &amp; FUNDAMENTAL ANALYSIS</th>
<th>PRICING &amp; ANALYTICS</th>
<th>EXECUTION</th>
<th>RISK MANAGEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market moving news and sector specific newsletters</td>
<td>Price discovery - Spots - Forecast - Futures - Fair value curves</td>
<td>Listed commodity futures trading</td>
<td>Listed &amp; OTC derivatives</td>
</tr>
<tr>
<td>In-depth micro and macro research across industries, companies, and policies</td>
<td>Trade analytics and charting</td>
<td>OTC commodities and derivatives trading</td>
<td></td>
</tr>
<tr>
<td>Economic numbers impact supply and demand</td>
<td>Derivative trade analytics and valuation tools</td>
<td>Listed commodity futures and options trading</td>
<td></td>
</tr>
<tr>
<td>Fundamental analysis</td>
<td>Prebuilt Excel templates</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Energy Investors
Bloomberg provides energy investors with a leading multi-asset financial information platform, plus trading and enterprise wide solutions, so that you can stay ahead of the competition, be efficient with your resources, and take advantage of more opportunity in the marketplace.

<table>
<thead>
<tr>
<th>PRE TRADE ANALYTICS</th>
<th>EXECUTION MANAGEMENT</th>
<th>EXECUTION MANAGEMENT</th>
<th>PORTFOLIO/RISK MANAGEMENT</th>
<th>COMPLIANCE &amp; REPORTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Validate investment ideas from analysts</td>
<td>- Work with traders on execution strategy</td>
<td>- Communicate orders to middle and back office</td>
<td>- Monitor portfolio performance in real time</td>
<td>- Monitor compliance, restricted lists</td>
</tr>
<tr>
<td>- Conduct broad energy market analysis</td>
<td>- Leverage proprietary models</td>
<td>- Leverage relevant compliance controls</td>
<td>- View holdings as a standalone or against a benchmark</td>
<td>- Trade reporting</td>
</tr>
<tr>
<td>- Synthesize research</td>
<td>- Seamless order entry using TradeBook as a brokerage</td>
<td>- Swaps and options</td>
<td>- Rebalance portfolios to models and benchmarks</td>
<td>- Accounting</td>
</tr>
</tbody>
</table>

Procurement/Supply Chain Managers
As the global marketplace expands and demographics change, the supply, consumption and transport of goods as well as the players have changed rapidly in all commodity sectors. Bloomberg can provide market transparency in fundamentals, pricing and peer analysis on a simple aggregated basis via our all-inclusive multi-asset financial information platform. Complete trade life cycle functionality is available including risk management and enterprise-wide solutions. Bloomberg provides a complete solution that delivers on supply chain manager needs, while offering the ability to streamline and protect profits.

<table>
<thead>
<tr>
<th>MARKET SURVEILLANCE</th>
<th>PRICING TOOLS</th>
<th>TRADE VALUATION/EXECUTION</th>
<th>PORTFOLIO/RISK MANAGEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Analysing market conditions and supply</td>
<td>- Product and material pricing - Physical pricing tools - Futures pricing tools</td>
<td>- Swaps and options - OTC trade execution</td>
<td>- Monitor portfolios/hedge performance in real time</td>
</tr>
<tr>
<td>- Peer/counterpart analysis</td>
<td>- Forecasting and analysis</td>
<td>- Conduct “what-if” sec</td>
<td></td>
</tr>
</tbody>
</table>
ABOUT THE BLOOMBERG PROFESSIONAL® SERVICE
Bloomberg, the global business and financial information and news leader, gives influential decision makers a critical edge by connecting them to a dynamic network of information, people and ideas. The company’s strength — delivering data, news and analytics through innovative technology, quickly and accurately — is at the core of the Bloomberg Professional service, which provides real time financial information to more than 325,000 subscribers globally. Headquartered in New York, Bloomberg employs more than 19,000 people in 192 locations around the world.