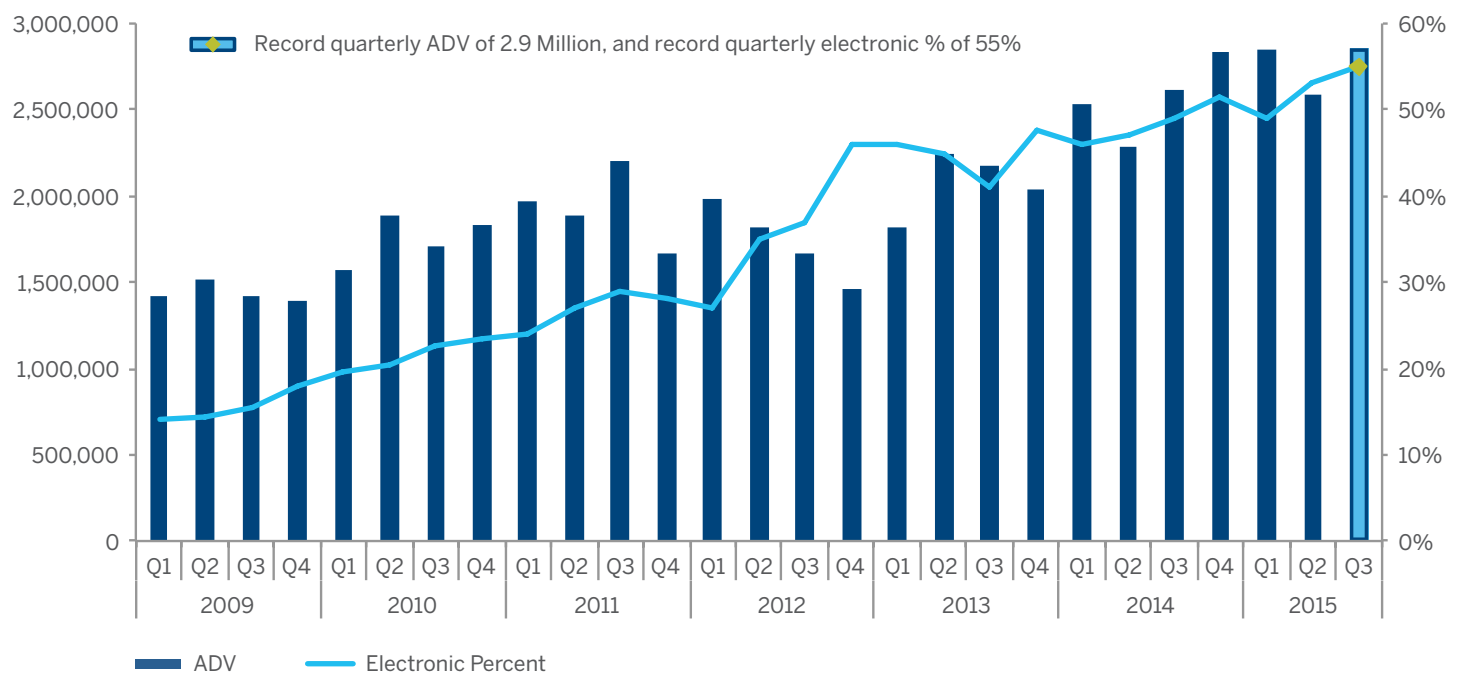


Trade the Marketplace with Benchmark Options on Futures Across Six Major Asset Classes

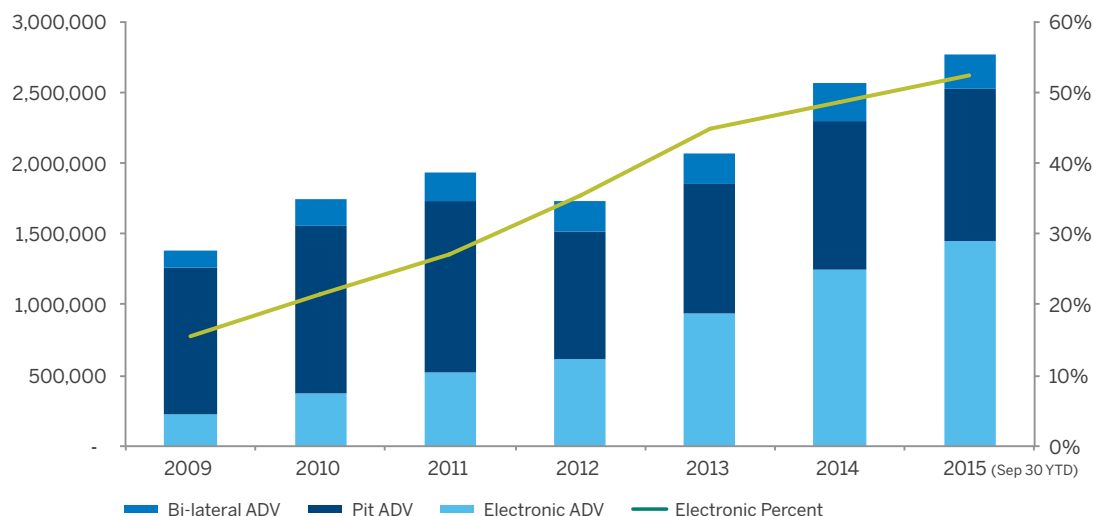
Asset Class	ADV		% Traded Elec		Open Interest (2015 Avg)
	2015 YTD	YoY % Change	2015 YTD	YoY Change	
Interest Rates	1,533,385	+6%	36%	+4%	31,423,170
Equity Index	559,246	+18%	91%	+0%	4,407,956
Energy	277,088	+15%	43%	+10%	9,203,439
Agriculture	268,025	+17%	60%	+4%	3,822,668
FX	86,577	+39%	97%	+7%	786,090
Metals	36,371	-10%	67%	+11%	1,633,180
Total Options	2,760,691	12%	53%	+6%	51,276,503

OPTIONS ON FUTURES | QUARTERLY ADV GROWTH



Enjoy execution flexibility of multiple ways to access deep liquidity, with the freedom to choose the venue or combination that best suits your needs.

OPTIONS ADV BY VENUE



CME Globex | 53% of volume YTD

- **ADV:** 1.5 million traded daily, up 550% since 2009
- Connect and trade through your preferred third-party software, an application you develop or – to get maximum functionality – CME Direct, our free, hyper-fast, highly configurable front end
- **Robust options functionality**
 - Request for Quote (RFQ): Instantly get electronic quotes on multi-leg options strategies
 - Request for Cross (RFC): Relationship based trading within the central limit order book
 - Extensive spreading capabilities: 25 standard spreads, custom multi-leg, implied and inter-exchange spreads

Bilaterally | 9% of volume YTD

- **ADV:** 231,000 traded daily
- Privately negotiate eligible trades with the counterparty credit risk mitigation of clearing
- Execute block trades or Exchange of Options for Options (EOO) transactions
- Choose from multiple ways to report: Front End Clearing, GCC or CME ClearPort

On the Floor | 39% of volume YTD

- **ADV:** 1 million traded daily, +4% YoY
- Tap into price discovery, efficient execution and liquidity of active, brokered floor markets

cmegroup.com/options

YTD data through September 30, 2015.

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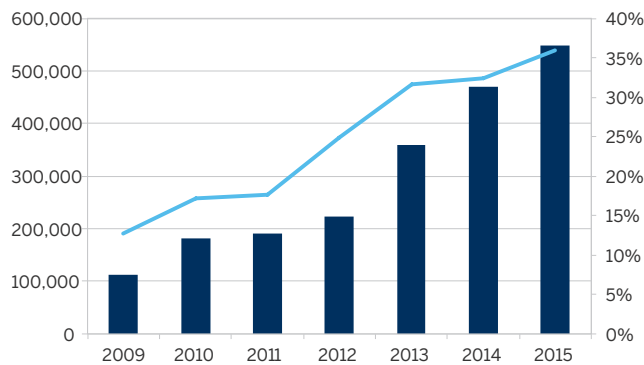
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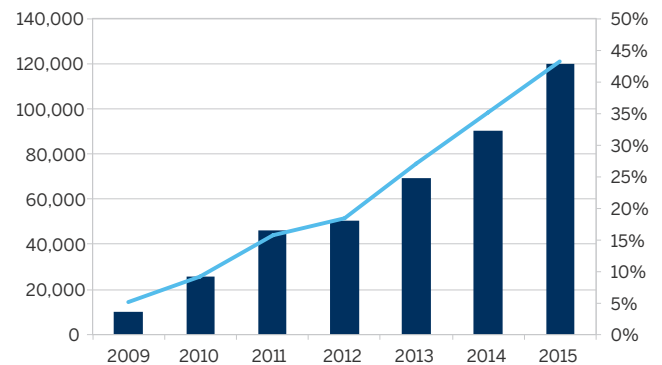
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Access Growing Electronic Options Liquidity In Any Asset Class

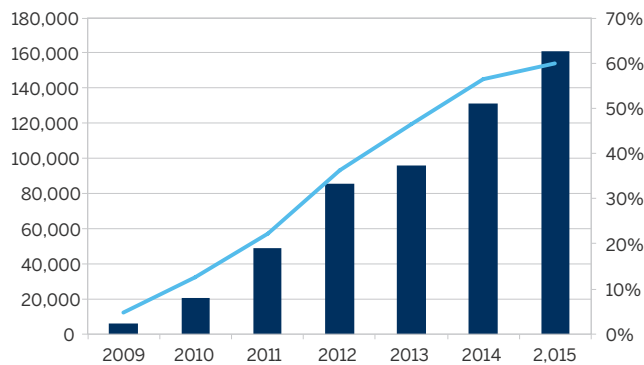
INTEREST RATE OPTIONS



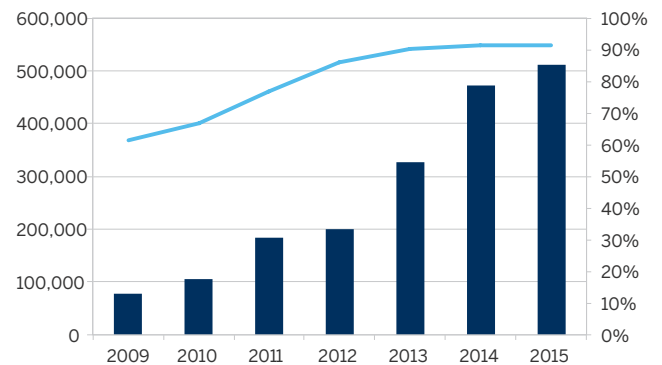
ENERGY OPTIONS



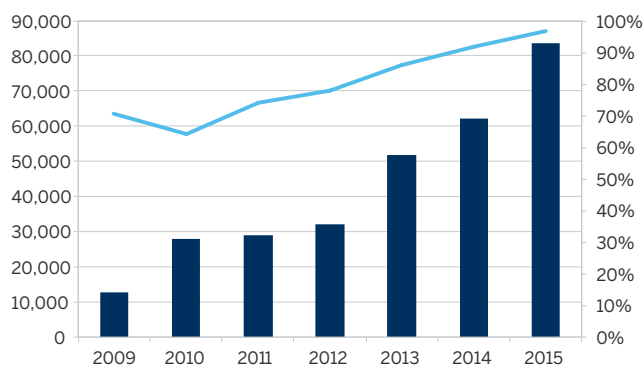
AGRICULTURAL OPTIONS



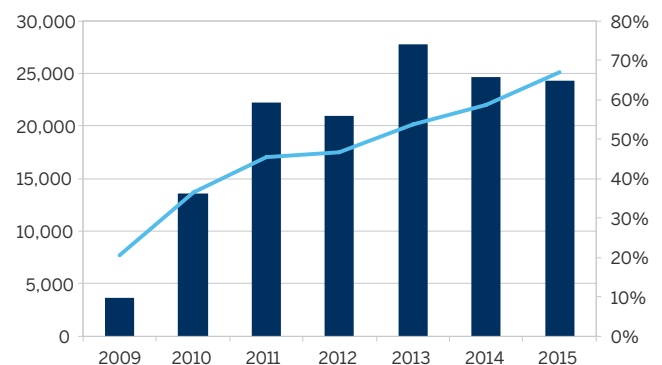
EQUITY INDEX OPTIONS



FX OPTIONS



METALS OPTIONS



■ Electronic ADV — Electronic Percent

Learn more at cmegroup.com/options.

2015 data YTD through September 30

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Interest Rate Options

More than \$992 billion notional traded daily in CME Interest Rate options; Do you know all of your options across the yield curve?

BENCHMARK OPTIONS

Option Product	Ticker (CME Globex)	Electronic ADV	All Venue ADV
Eurodollar Options (incl. Mid-Curves)	GE, GEO-GE5	201,960	958,743
30 Day Fed Funds	OZQ	97	1,142
10-Year Note	OZN	236,432	374,331
U.S Treasury Bond	OZB	70,658	97,500
5-Year Note	OZF	59,147	90,469
2-Year Note	OZT	5,768	10,943
Ultra T-Bond	OUB	256	361
Weekly Treasury Options	Varies	81,695	116,083

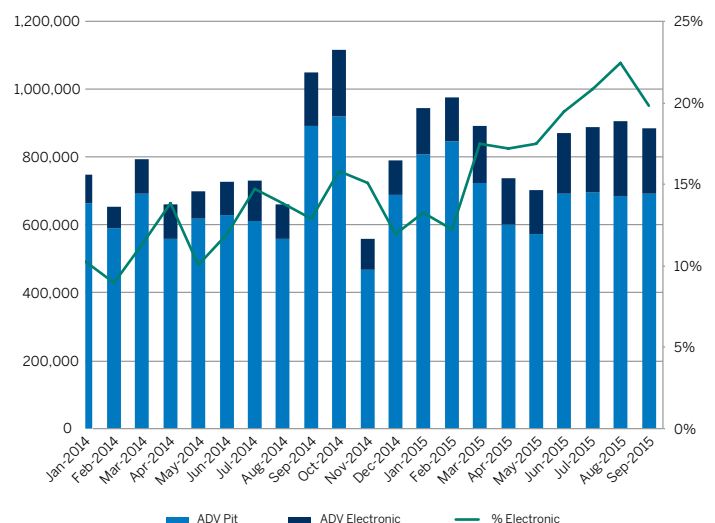
Q3 2015 data

KEY DEVELOPMENTS

Discover Superior Options with CME Eurodollars

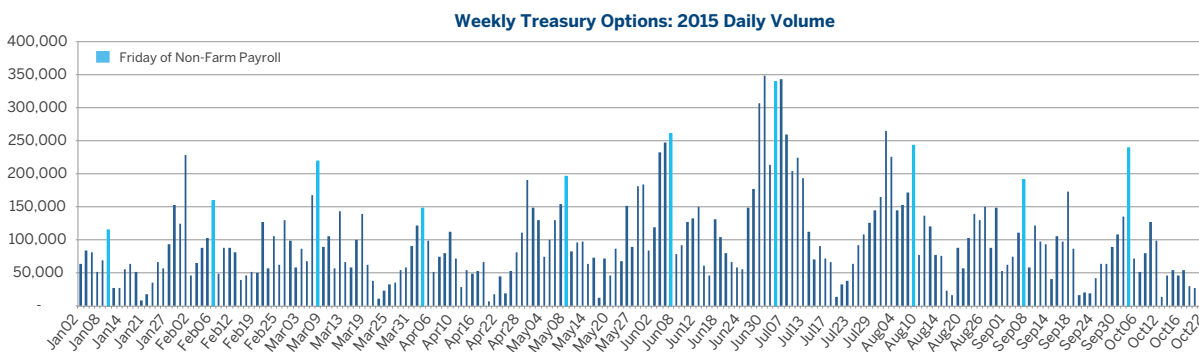
- **Electronic Eurodollar options growth** on CME Globex continues with a record 21% of options trading electronically in Q3 2015. Electronic ADV was more than 200K contracts, up from 94,722 in Q3 2014
- **Open interest over 27 million contracts** across serials, quarterlies and Mid-Curves
- **Multiple expirations from 1 week to over 3.5 years**
 - Mid-Curve options, including weeklies, allow customers to effectively manage their curve risk
 - Weekly expirations available in the 1, 2 and 3 year Mid-Curves
 - Expanded serials (4 total) in the Eurodollars and Mid-Curves offer expiration flexibility around FOMC meetings
 - 16 quarterly Eurodollar option expirations out close to 4 years through the Blues

Eurodollar Options ADV and % Electronic



Treasury Options

- Treasury options available in 2, 5, 10 year notes along with Bond and Ultra bond
- Weekly, serial and quarterly expirations available across all contracts
- Q3 ADV 573K across all Treasury options
- A record 65% of all volume in Q3 traded on Globex, 346K contracts a day
- Weekly Treasury options reached a record high ADV of 116,083 in Q3 2015, up 47% from Q3 2014
- Weekly options on U.S. Treasury futures providing users increased flexibility for managing existing option positions, specifically in anticipation of market events like Treasury auctions, FOMC meetings and non-farm payroll reports



Fed Funds Options Provide a Predictive Tool

CME Group's 30-Day Federal Funds futures and options contracts represent a direct reflection of collective marketplace insight regarding the future course of Fed monetary policy. In addition to their value as a predictive tool, Fed Fund futures and options also provide an efficacious means of hedging and gaining exposure to short-term interest rate risks.

- Fed Fund futures volume has increased substantially in Q3 2015 to over 114K ADV, up 204% from Q3 2014
- *Fed Fund options:*
 - Over 1,300 contracts traded per day, +483% Year over Year (YoY)
 - Year to date, Fed Fund options trading is up 1,158% YoY, with open interest of 48,507 contracts
 - Standard Fed Fund options along with 6 month and 1 year Fed Fund Mid-Curves available for trading

ACCESS

CME Direct for Interest Rates Traders

Access electronic futures, options and block trade information all on one screen with CME Direct.

- Option RFQs: execute covered and multi-leg strategies on CME Globex
- Block Ticker: displays customizable real-time Block trade data
- Sophisticated trading grids: facilitate fast spread and outright trading
- Straight-Through Processing: enables real-time trade flow between front and middle office

RESOURCES

- Block Trading: cmegroup.com/interestratesblocks
- Weekly Treasury options expiration calendar: cmegroup.com/wto
- Weekly Mid-Curve options expiration calendar: cmegroup.com/midcurves
- CME Direct: cmegroup.com/direct

Learn more at cmegroup.com/interestratesoptions.

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Equity Index Options

CME Equity Index options on futures offer around-the-clock liquidity, market depth, and extensive product choice on the world's benchmark indices to suit a variety of trading strategies.

BENCHMARK OPTIONS

Option Product	Ticker (CME Globex)	ADV (% Change YoY)	% Electronic	% Puts
E-mini S&P 500	ES	350,845 (32%)	100%	64%
E-mini S&P 500 Weeklies	EW1,EW2, EW4	175,354 (37%)	100%	62%
E-mini S&P 500 End-of-Month	EW	62,298 (34%)	100%	66%
S&P 500	SP	44,204 (37%)	0%	72%
S&P 500 Weeklies	EV1, EV2, EV4	5,338 (-15%)	0%	79%
S&P 500 End-of-Month	EV	6,296 (98%)	0%	84%
E-mini NASDAQ 100	NQ	4,017 (-49%)	100%	64%
E-mini NASDAQ 100 Weeklies	QN1, QN2, QN4	962 (-40%)	100%	53%
E-mini Dow (\$5)	YM	613 (23%)	100%	66%

Q3 2015 Data

KNOW YOUR OPTIONS: 5 REASONS TO TRADE OPTIONS ON S&P 500 FUTURES¹

1. The futures market is where the volume, price discovery and technical levels in the S&P 500 occur.

Together the E-mini and Standard S&P 500 futures trade \$168bn notional per day – 35 percent more than trading in all 500 underlying constituents and six times the trading in S&P 500 ETFs.

S&P 500 futures trade 23 hours a day while the cash index is only calculated for 6.5 hours. S&P 500 futures trade more notional before the U.S. market opens than S&P 500 ETFs trade all day.

Technical levels are defined in the futures, not the underlying cash market. Trade options on the product that global investors are watching.

2. Physical delivery is more effective for many strategies.

The delta of a futures option position remains constant through expiry. In-the-money options convert into equivalent futures positions while out-of-the-money contracts expire to flat. Cash index options always expire to flat forcing investors to rebalance hedges and creating potential slippage risk.

Futures options expire to a 30-sec VWAP of the underlying future – a “clean” price completely contained within the futures complex².

Weekly and End-of-Month options are exercised and assigned automatically providing greater certainty for investors by removing the risk of abandonment or contrarian exercise.

¹ Data as of August 31, 2015.

² The only exceptions are quarterly options, which expire jointly with the futures at the cash index SOQ.

3. 28 percent market share cannot be ignored.

CME options on S&P 500 futures have a five-year compound annual growth rate of 42 percent and maintain 28 percent market share versus CBOE cash options.

Q3 2015 ADV hit an all-time quarterly ADV record of 650,386 contracts, too (See Figure 1 below).

Densely-packed strikes and 59 annual expiries ensure all the granularity and coverage investors need to express the view they want. Each contract trades in a single orderbook with no multi-exchange fragmentation.

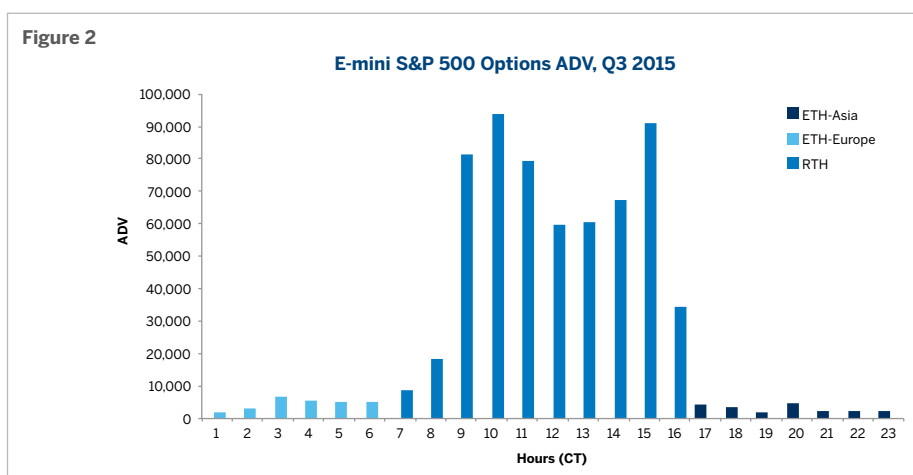
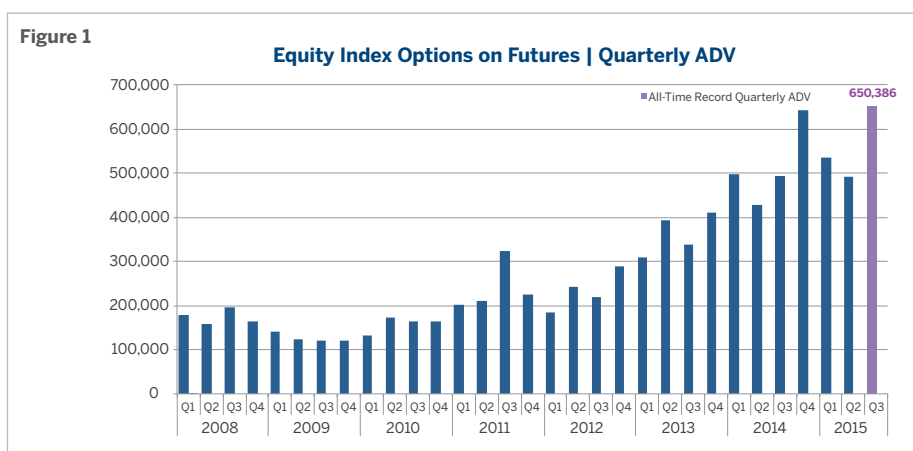
4. Futures portfolio margin is more capital efficient than securities margin.

Clients can achieve considerable cost savings by cross-margining options with offsetting futures delta hedges. Portfolio margining results in a single performance bond requirement and daily variation margin adjustment.

5. Thirty market makers support E-mini options 23 hours per day on CME Globex.

Clients can capitalize on actionable liquidity whenever news happens with over 25,000 contracts per day trading outside of US trading hours (See Figure 2 below).

Trade options on the E-mini contract electronically around the clock or use the Standard options hybrid model of overnight electronic trading and open outcry floor trading during U.S. market hours.



Access Tools, Reports and more at cmegroup.com/equityoptions.

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NYMEX Energy Options

The most extensive and liquid energy options marketplace, delivered with freedom to choose the venue and trading software that best suits your needs.

BENCHMARK OPTIONS

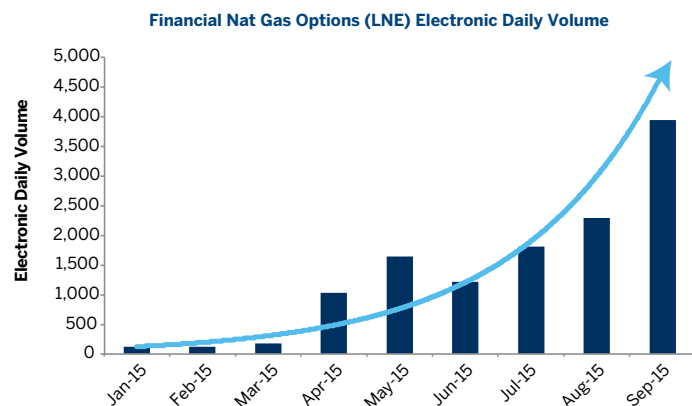
Option Product	Ticker (CME Globex)	Q3 ADV (% Change YoY)	Q3 % Electronic	Open Interest (in contracts)*
WTI Crude Oil	LO	195,292 (+50%)	63%	3,555,000
Brent Crude Oil	BZO	Launched 10/12/15	N/A	N/A
Henry Hub Natural Gas	ON, LNE (LN on ClearPort)	78,390 (-1%)	18%	3,148,130
NY Harbor ULSD	OH	2,522 (-50%)	9%	73,096
RBOB Gasoline	OB	1,520 (+52%)	22%	29,633

*as of 10/14/15

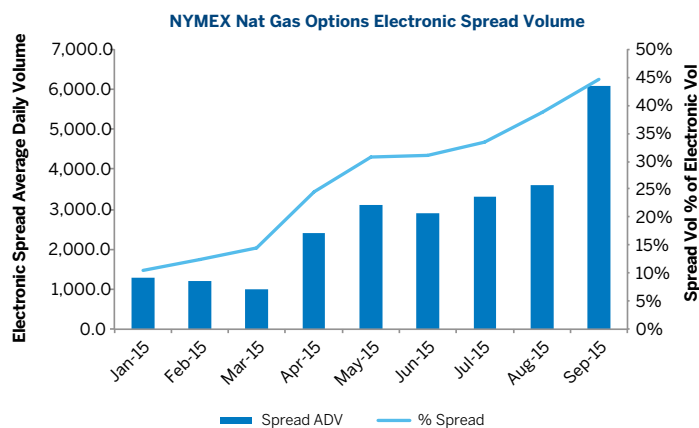
KEY DEVELOPMENTS

Natural Gas Options Moving to the Screen

- Electronic ADV of NYMEX's benchmark financial Natural Gas option (LN) is up 500% in 2015.
- Natural Gas options volume was 18% electronic in September 2015, compared to just 11% in September 2014
- Connect and trade through your preferred trading software, using proprietary software, or get the most options features from our highly configurable, CME Direct front-end, for free.



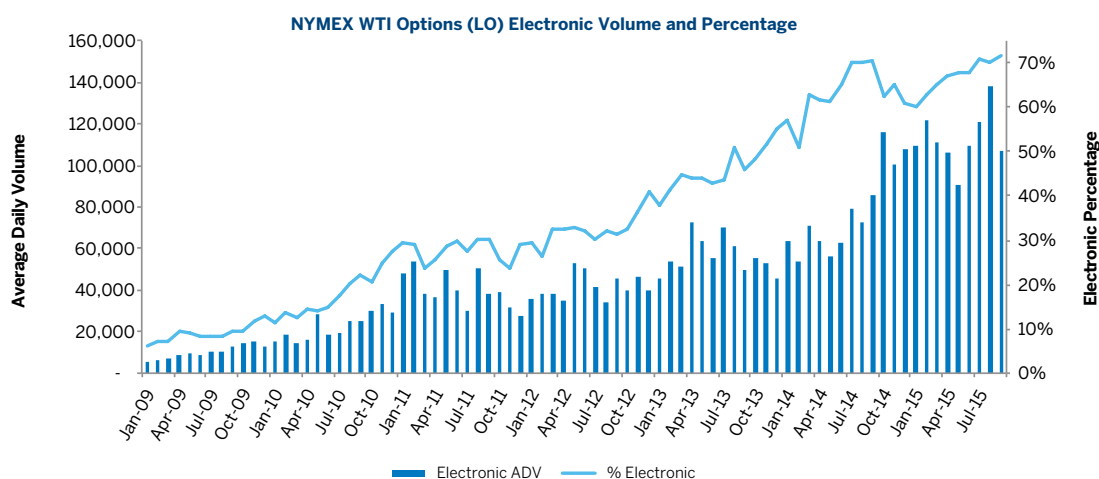
LNE has seen record volume in 4 of the last 5 months. Through 10/21, October ADV is on pace to set yet another record.



Spreads made up a record 45% of electronic volume in Nat Gas options in September.

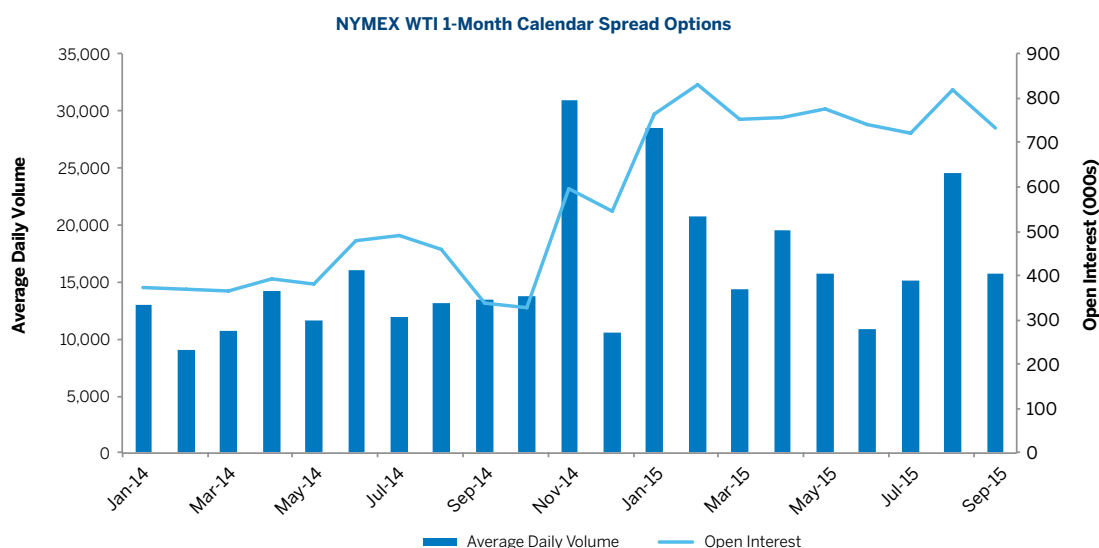
WTI Crude Oil Options

- With over 70% traded electronically, it's never been easier to trade options on the world's most actively traded energy benchmark.
- Spreads have made up over 30% of electronic volume in Crude options in Q3.



A WTI contract to fit any need

- WTI American Style Option (LO): 163,994 ADV, +54% YoY
- WTI Calendar Spread Options (Physical) (WA) and (Financial) (7A): 18,191 ADV
- WTI Average Price Options (AO): 3,444 ADV
- WTI Weekly Options (LO1-LO5): Nearly 1,000 ADV



BRENT OPTIONS WITH FUTURES-STYLE MARGINING (BZO) LAUNCHED OCT 12

- Futures-style margined options premium is not paid until exercise or expiration
- Margining style matches the prevailing Brent market convention
- Fee waiver through December 2016
- Further capital efficiencies for customers who trade energy products on NYMEX

Learn more at cmegroup.com/energyoptions.

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Agricultural Options

CME GROUP'S DIVERSE SELECTION OF AGRICULTURAL OPTIONS OFFERS MARKET PARTICIPANTS THE LIQUIDITY THEY NEED TO CAPTURE VOLATILITY OR EVENT-DRIVEN TRADING IN AN ASSET CLASS THAT OFFERS A MULTITUDE OF OPTION STRATEGIES.

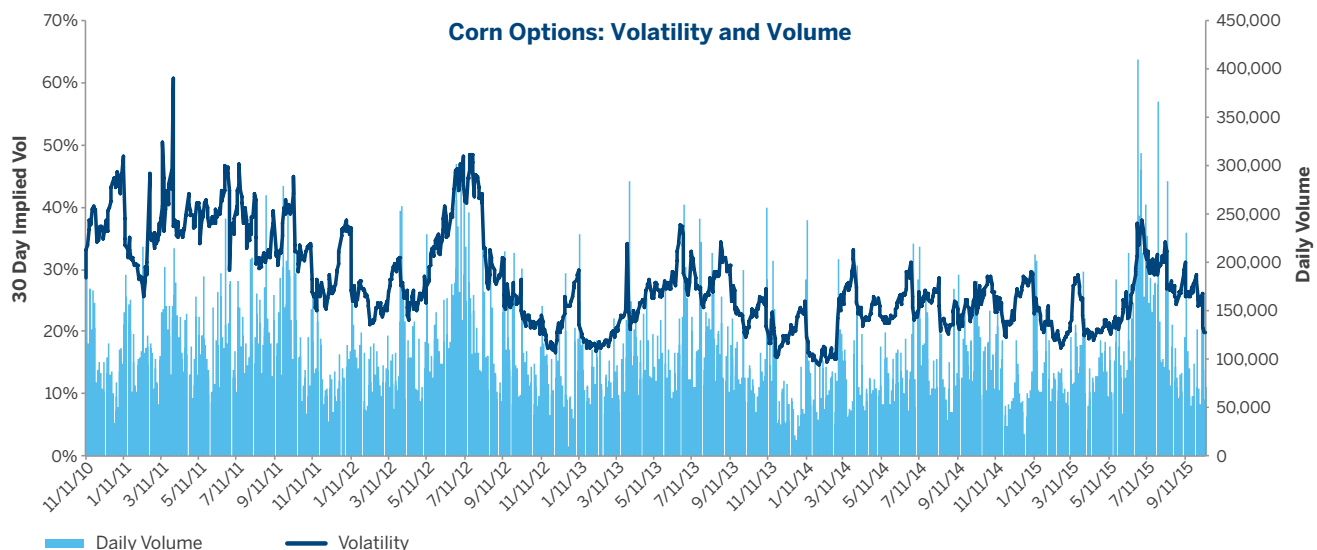
BENCHMARK OPTIONS

Option Product	2015 ADV YTD	YoY % YTD	% Elec	% Puts	2015 30 Day Implied Vol Range	2015 Avg OI
Corn	96,032	21.0%	59%	49%	37%-17%	1.6 M
Soybean	73,204	15.4%	64%	56%	29%-14%	712K
Live Cattle	14,099	-14.2%	68%	53%	34%-10%	246K
SRW Wheat	31,761	30.1%	55%	50%	43%-21%	370K
Soybean Meal	11,586	27.2%	60%	57%	75%-20%	201K
Lean Hogs	11,089	-18.7%	75%	57%	45%-15%	235K
Soybean Oil	7,598	8.6%	36%	47%	27%-17%	116K
Feeder Cattle	1,708	30.3%	90%	60%	31%-6%	199K
Class III Milk	1,093	-21.7%	55%	44%	22%-15%	56k
KC HRW Wheat	2,038	20.0%	31%	58%	41%-16%	25k
Total Ag Options	268,025	17.0%	60%	52%	—	3.9 M

Data is 2015 YTD through Q3

CORN OPTIONS

Corn options have averaged over 100K contracts a day with an average implied volatility of 28%



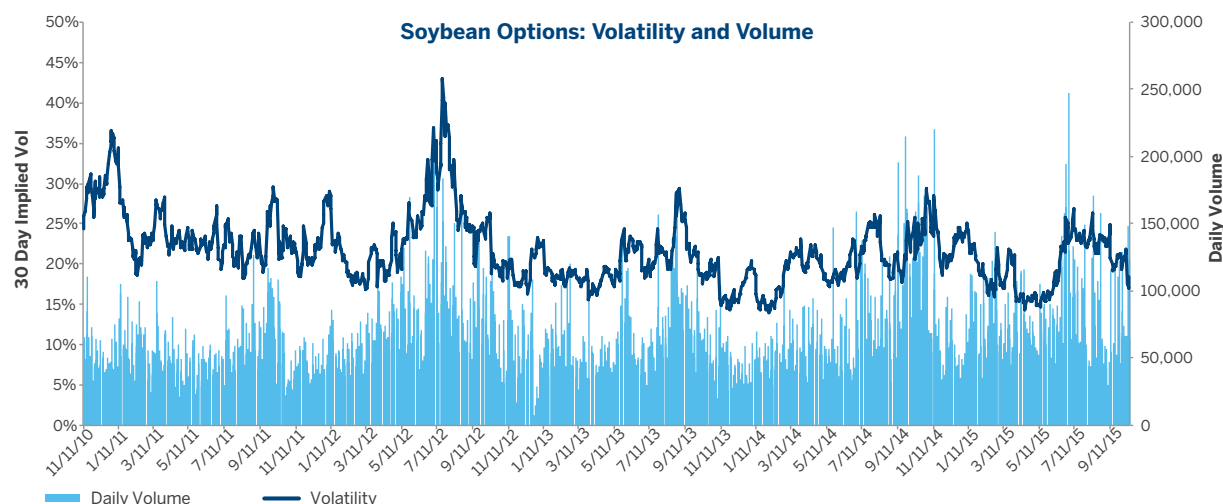
SIGN UP FOR NEW DAILY MARKET REPORTS

Get the full view of Agricultural options markets with daily email reports on volume, open interest, put/call ratios, and most active contract months/strikes.

Sign-up at cmegroup.com/daillyags

SOYBEAN OPTIONS

Soybean options have averaged over 66K contracts a day with an average implied volatility of 22 %



LIVE CATTLE OPTIONS

- Live Cattle Options had their 2nd best month to date with over 475K contracts traded in September.
 - › Implied December Live Cattle volatility at elevated levels (~20% vol)
 - › 6 Limit day in September
 - › December Futures contract fell more than 10% in September

SHORT-TERM OPTIONS

- **Short-Dated New Crop (SDNC) Options:** Cost-effective way to take a position in new crop futures contracts (pre-harvest)
 - › ADV over 20,000 contracts during the key growing season months (April to August)
 - › Open interest spiked to a record 426K contract during June
 - › Launching Nov 2: South American SDNC Soybean options, based on May CBOT Soybean futures contract
- **Weekly Options:** Weekly expiration to target specific market movements and gain exposure at a lower premium
 - › 2,400 contracts traded daily in 2015, +7% YoY

Learn more at cmegroup.com/agoptions.

Grain and Oilseed options are listed with and subject to the rules and regulations of the CBOT.

Livestock and Dairy options are listed with and subject to the rules and regulations of the CBOT.

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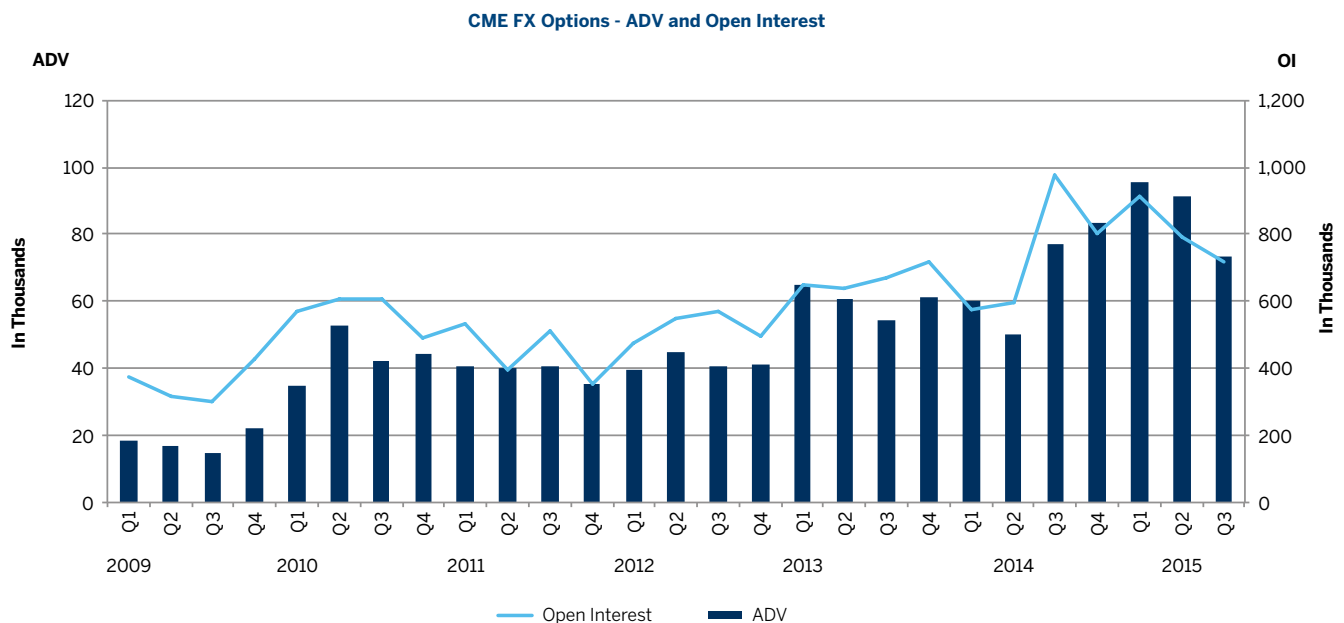
CME FX OPTIONS

Access the largest regulated Forex marketplace in the world, with more than \$10 billion in daily FX Options liquidity. That's why our market was voted "Best FX Options Platform" at the *Profit & Loss Readers' Choice Awards* and why nearly all market participants choose to execute their Options electronically with CME Group.

BENCHMARK OPTIONS

Option Product	Ticker (CME Globex)	2015 ADV	YoY % YTD	2015 % Elec	% Calls (Sep)	2015 Average Open Interest
EUR/USD	6E	51,192	95%	97%	45%	372,249
JPY/USD	6J	11,546	8%	95%	62%	139,668
GBP/USD	6B	11,125	-12%	95%	51%	122,144
AUD/USD	6A	6,374	4%	98%	61%	71,843
CAD/USD	6C	5,609	-1%	98%	53%	62,370
CHF/USD	6S	663	-38%	100%	53%	16,395
MXN/USD	6M	66	419%	92%	52%	1,367

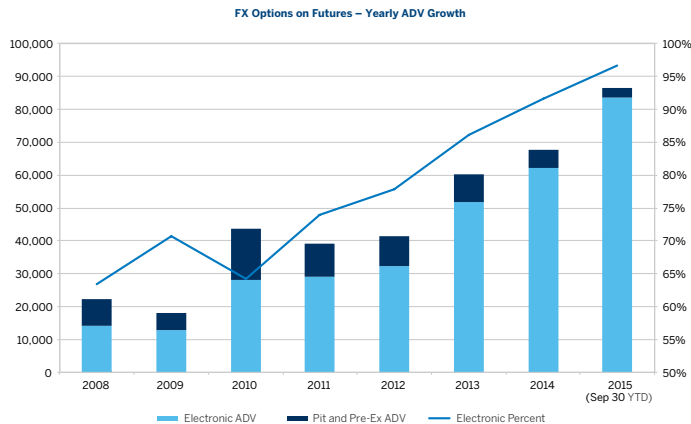
2015 data is YTD through September 30



KEY DEVELOPMENTS

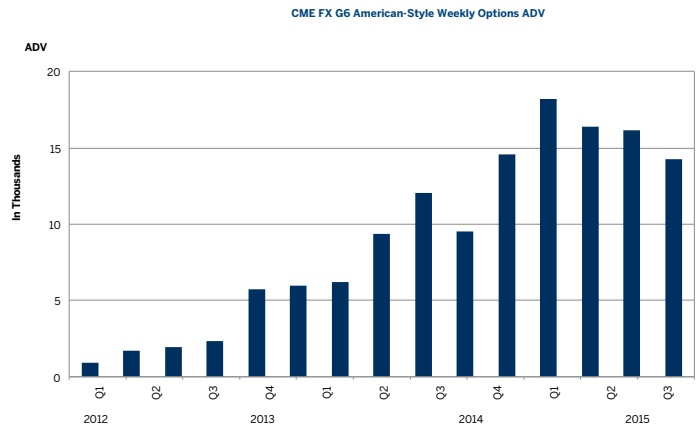
FX Options Evolution to the Screen

- Electronic execution of FX Options is at an all-time high of 97%, +7% YTD YoY
- Record month-end Open Interest in April 2015
- Euro FX Options reached all-time record high ADV of 68,439 in March 2015



CME FX G6 American-Style Weekly Options

- FX Weekly Options experience record high ADV of 20,112 in March 2015, and are currently +21% YTD YoY
- FX Weekly Options can be used to hedge risk around specific market events, such as Fed updates, employment reports, and other economic events.



WHAT'S NEXT

Block threshold reduction

Reduced block thresholds allow for more flexibility:

- From 50 lots to 10 lots in 30 FX futures
- From 50 lots to 20 lots in 10 companion FX Options
- From an award-winning Clearing House and FX Options platform.

Now, submit your blocks directly into ClearPort with your smartclick log in.

Are you a Broker?

- We have a number of initiatives to grow your business. Contact us today at fxteam@cmegroup.com

Learn more at cmegroup.com/options.

*"Clearing House of the Year, Global Capital, 2015; Best FX Options Platform" at the Profit & Loss Readers' Choice Awards, 2014.

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Metals Options

Get nearly 24-hour access to opportunities with the suite of COMEX and NYMEX metals options at CME Group, the world's most liquid metals marketplace.

METALS OPTIONS

Option Product	Ticker (CME Globex)	Q3 2015 ADV (% Change YoY)	% Electronic	Open Interest
Gold	OG	32,283 (+13.7%)	70%	1,329,232
Silver	SO	4,720 (-28%)	85%	146,191
Iron Ore	ICT	169 (+912%)	0%	36,044
Palladium	PAO	155 (-76%)	7%	5,212
Platinum	PO	143 (-72%)	15%	3,815
Copper	HX	98 (-18%)	74%	2,963
Gold Weeklies	OG1-OG5	86 (-39%)	82%	261

Q3 2015 data

KEY DEVELOPMENTS

Precious Metals

- Precious metals options open interest has grown 15% annually for the last 7 years.

Iron Ore Options

- Iron Ore options (ICT) have grown 36% annually for the last three years.

Copper Options

- Current fee waiver for COMEX members and fee reduction for non-members, makes CME Group the most cost-effective clearing venue for your Copper options trading needs.

Record Electronic Trading

- 67% electronic Year to Date (YTD) through September and on pace to be a record year.
- In July 2015, a record 73% of Metals options traded electronically on CME Globex, compared to 61% in July 2014.
- Request For Quote (RFQ) Average Daily Volume CAGR of 40% since 2012.

OPTIONS TOOLS AND RESOURCES

Daily Metals Market Report

Subscribe to receive daily reports recapping the previous day's Metals market activity including, volume, open interest, put/call ratios, and most active contract months/strikes.

cmegroup.com/dailymetals

Liquidity Alerts

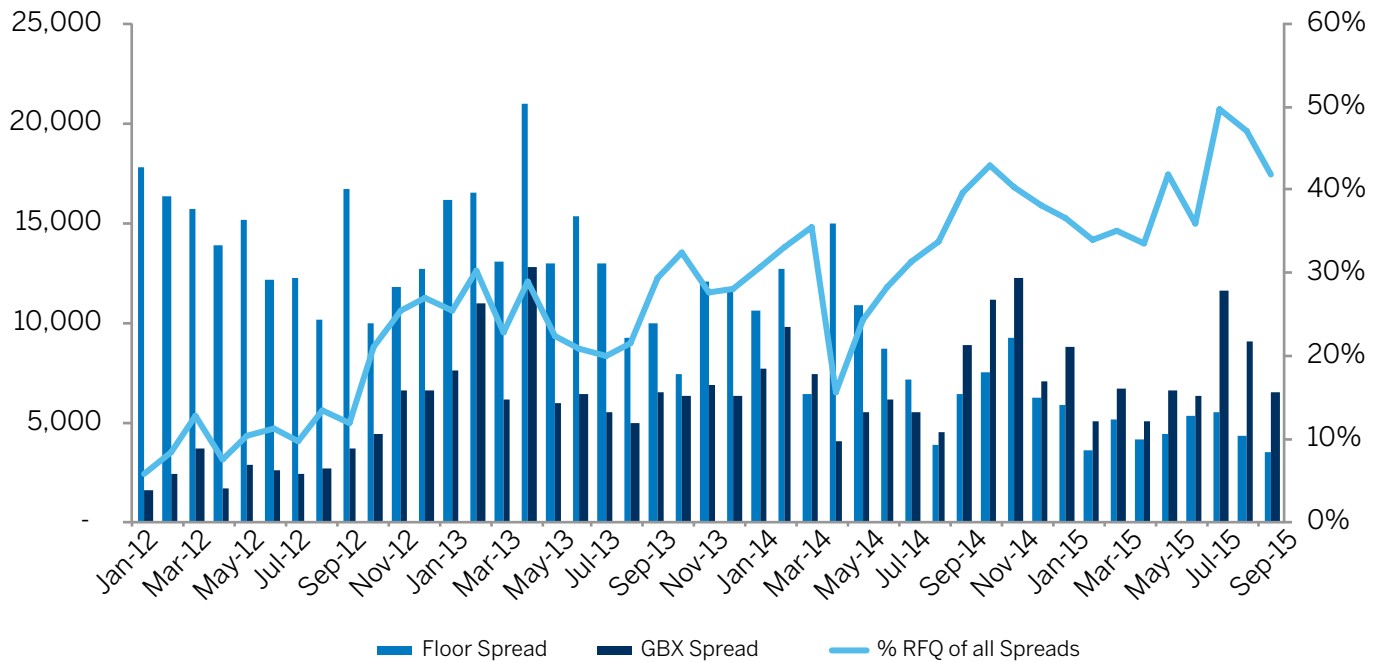
Receive real-time notifications when trades are executed and the market is moving in both Base Metal and Precious Metals Options.

cmegroup.com/mtliquidityalerts

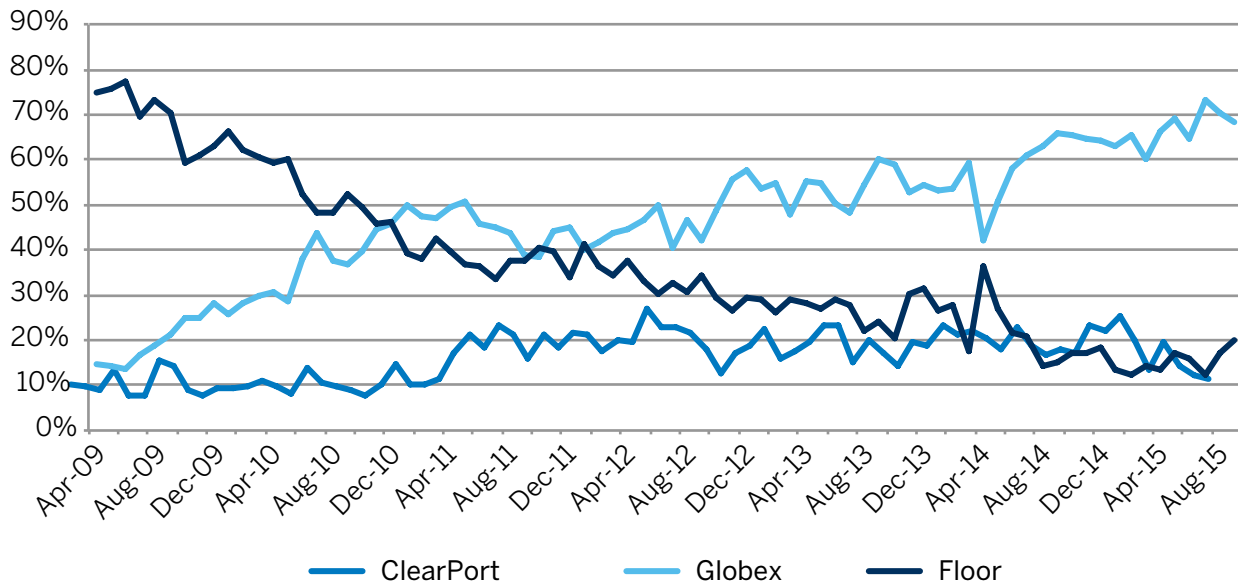
**YOUR BEST RISK MANAGEMENT SOLUTIONS
START WITH BETTER OPTIONS**

 **CME Group**

Metals Options RFQ ADV Performance



Metals Options Volume by Venue



Learn more at cmegroup.com/options.

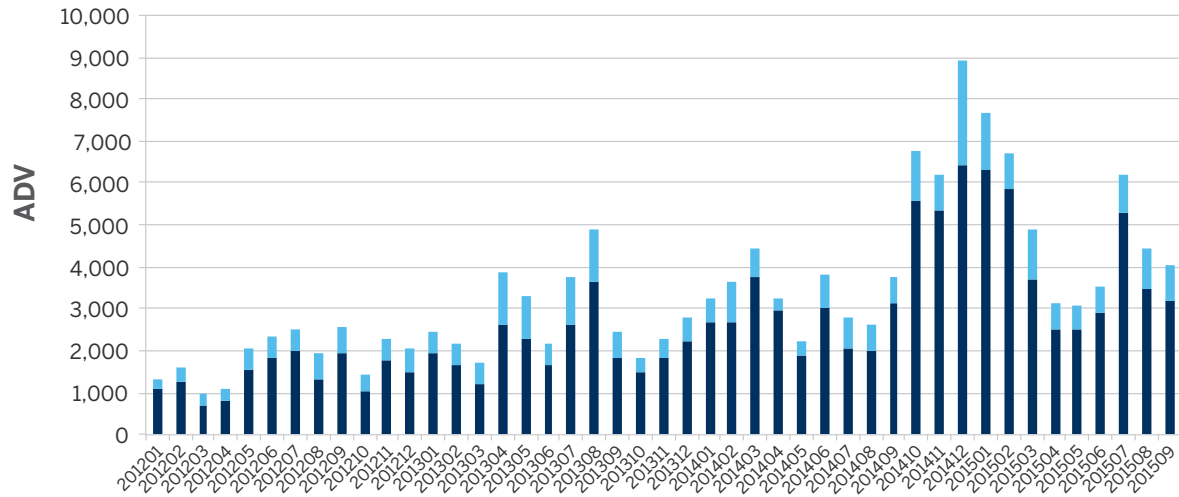
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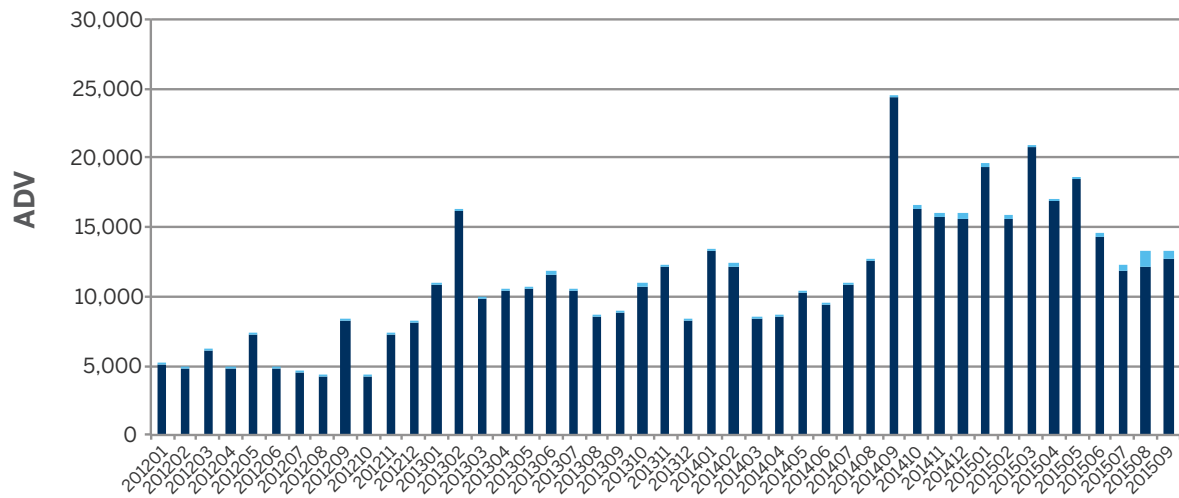
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ENERGY OPTIONS



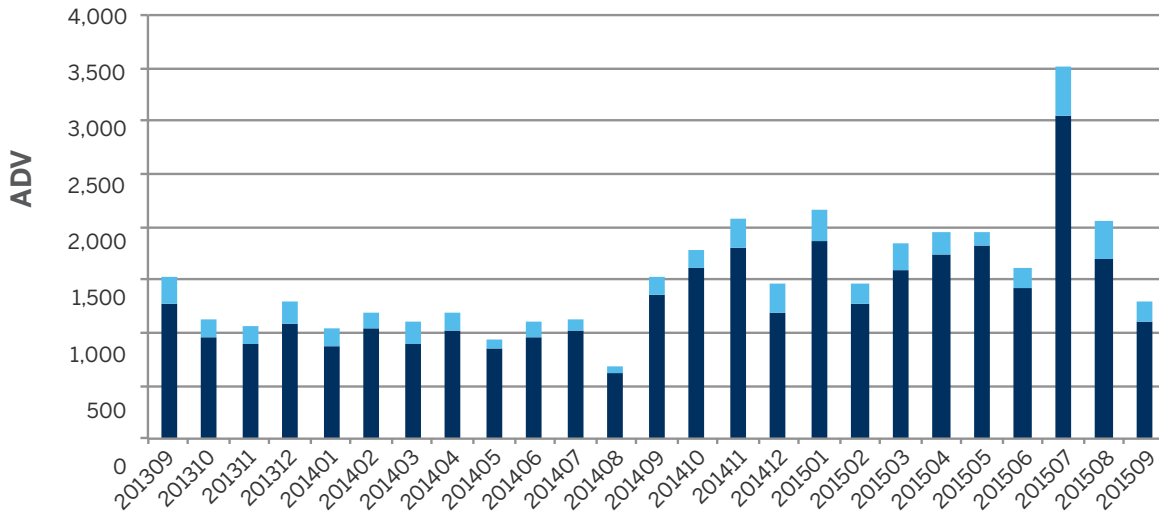
FX OPTIONS



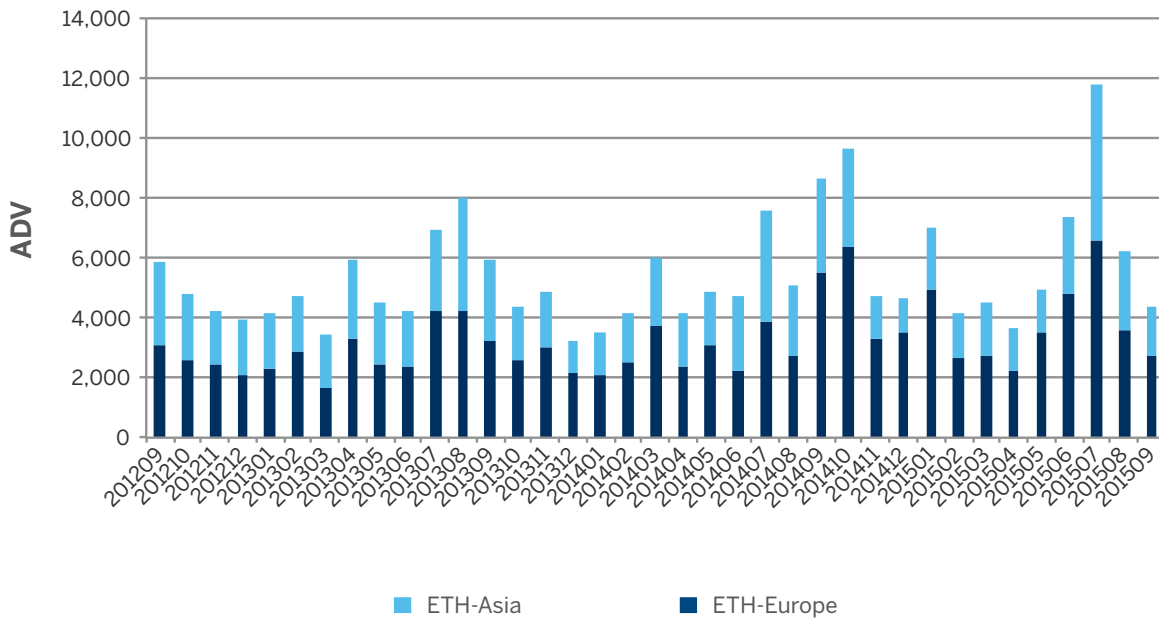
ETH-Asia

ETH-Europe

METALS OPTIONS



AGRICULTURAL OPTIONS



ETH-Asia

ETH-Europe

cmegroup.com/rfq

Chart data is monthly average daily volume (ADV) on CME Globex

ETH-Asia hours are defined as 16:00 – 22:59. ETH-Europe hours are defined as 23:00 – 6:59. Regular hours are defined as 7:00 – 15:59. All hours are Chicago time.

Powerful Tools and Resources

GET GREATER INSIGHTS FROM OUR SUITE OF POWERFUL ANALYTICS AND REPORTS TO HELP IDENTIFY TRENDS AND TRADE OPPORTUNITIES FASTER AND MORE DECISIVELY.

IN-DEPTH ANALYTICS

QuikStrike Essentials

This base version of QuikStrike's benchmark pricing and analysis platform provides access to current and historical volatility (by strike), volume and open interest information, delta sheets, pricing analysis, spread analysis, and risk graphs.

Volatility Term Structure Tool

Compare charts of current implied volatilities across expiration to the view from one week earlier.

Option Settlements Tool

Analyze settlement values for all CME Group options products, including both settlement prices and implied volatilities.

Open Interest Profile Tool

Analyze open interest and open interest change patterns for each expiration within the selected product.

Most Active Strikes Tool

See what is hot now by viewing volume, open interest, and open interest change activity on the most active strikes, by calls, puts, and combined calls and puts.

Weekly Options

View a daily snapshot of CME Group's Weekly options complex.

Commitment of Traders

Gain a better understanding of how market participants are positioning themselves with this graphical representation of the CFTC's report on market open interest by client segment.

Access all of these analytic tools at
cmegroup.com/quikstrike

DATA-RICH REPORTS

Get full recaps of the previous day's activity with daily email reports on volume, open interest, put/call ratios, and most active contract months/strikes:

Agricultural Options | cmegroup.com/dailyags

Foreign Exchange Options | cmegroup.com/dailyfx

Energy Options | cmegroup.com/dailyenergy

Interest Rates Options | cmegroup.com/dailyrates

Equity Index Options | cmegroup.com/dailyequity

Metals Options | cmegroup.com/dailymetals

REAL-TIME INTELLIGENCE

CME Messenger

Put liquidity at your fingertips using CME Messenger, a fast, focused and fully compliant instant messaging platform integrated with CME Direct for commodity trading. Request a demo at cmegroup.com/messenger

Messenger for the Trader

- Fast – Price complex options strategies in seconds without leaving the chat window using our bundled service or your own proprietary models.
- Focused – Be alerted to what you deem important while ignoring time-consuming distractions.
- Intelligent – Separate markets from conversations, convert text to data, capture critical market information and use it.
- Organized – Configure your workstation using multiple views, fonts and priorities for maximum efficiency and usability.
- Consolidated – Link your AIM, Yahoo, Twitter and Microsoft IM profiles for IM network aggregation from a single instant messaging application.

Messenger for the Broker

- Fast – Instantly broadcast IMs to multiple customers all at once to ensure they get the right info at exactly the right moment.
- Flexible – Configure blasts and distribution lists to meet your specific trading needs and support your customers.
- Efficient – Instantly view values and Greeks for complex options strategies as you type.
- Clear – Submit Block trades in less than a minute and reduce errors with our Click and Clear technology.
- Collaborative – Share info across your desk and provide superior customer service with our rooms and Pivot Points.
- Aggregated – Link your AIM, Yahoo, Twitter and Microsoft IM profiles for IM network aggregation from a single instant messaging application.

Liquidity Alerts

Get real-time IM alerts when trades are executed in the products YOU care about

Use your existing AIM, Yahoo, or CME Direct Messenger accounts to

- Receive trade, block and RFQ activity alerts directly via IM
- View alerts in real-time in an easy-to-read format
- Available for Energy, Metals, and Agricultural Futures and Options

Easily subscribe using your IM name:

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- cmegroup.com/agliquidityalert
- cmegroup.com/mtliquidityalert

Access our complete suite of resources at cmegroup.com/options.

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