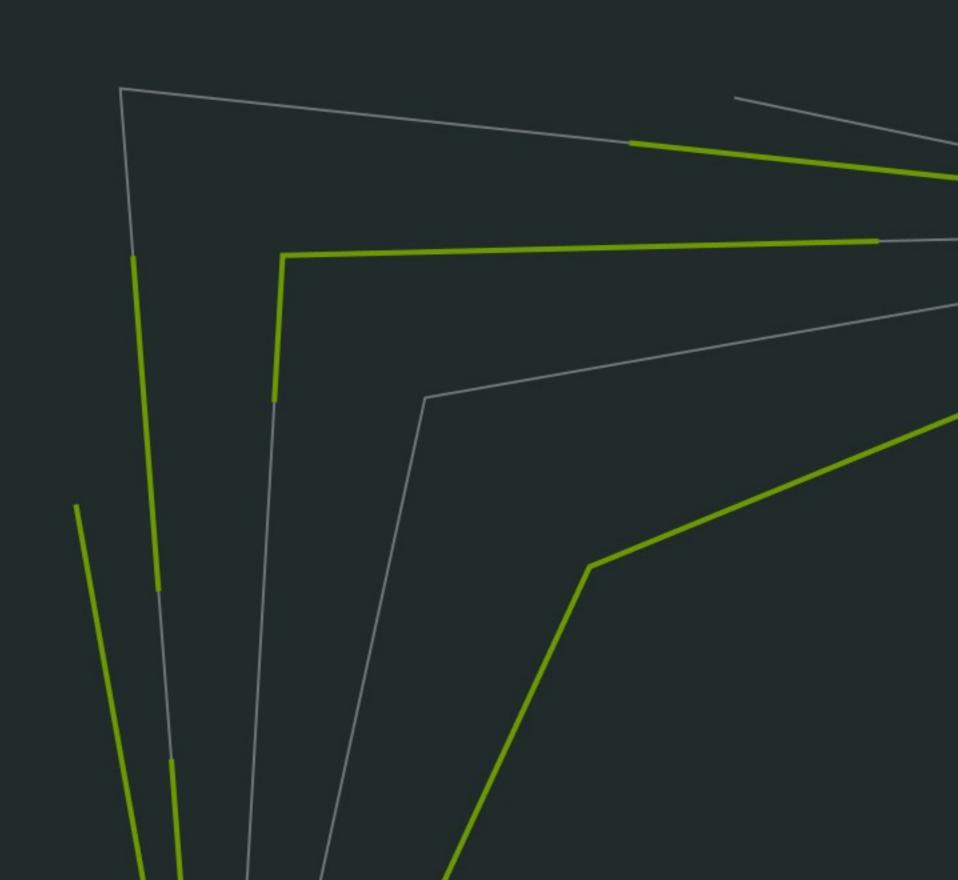


NOVEMBER 2023

Research Roundup

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Research Roundup – November 2023

- 01. Recent Market Action
- 02. Making the Headlines This Month
- 03. Where We are at in the Bitcoin Cycle
- 04. What is Going on with Bitcoin Fees?
- 05. In Case You Missed It Recent Research Reports





Bitcoin and Ether Best Performing Assets YTD



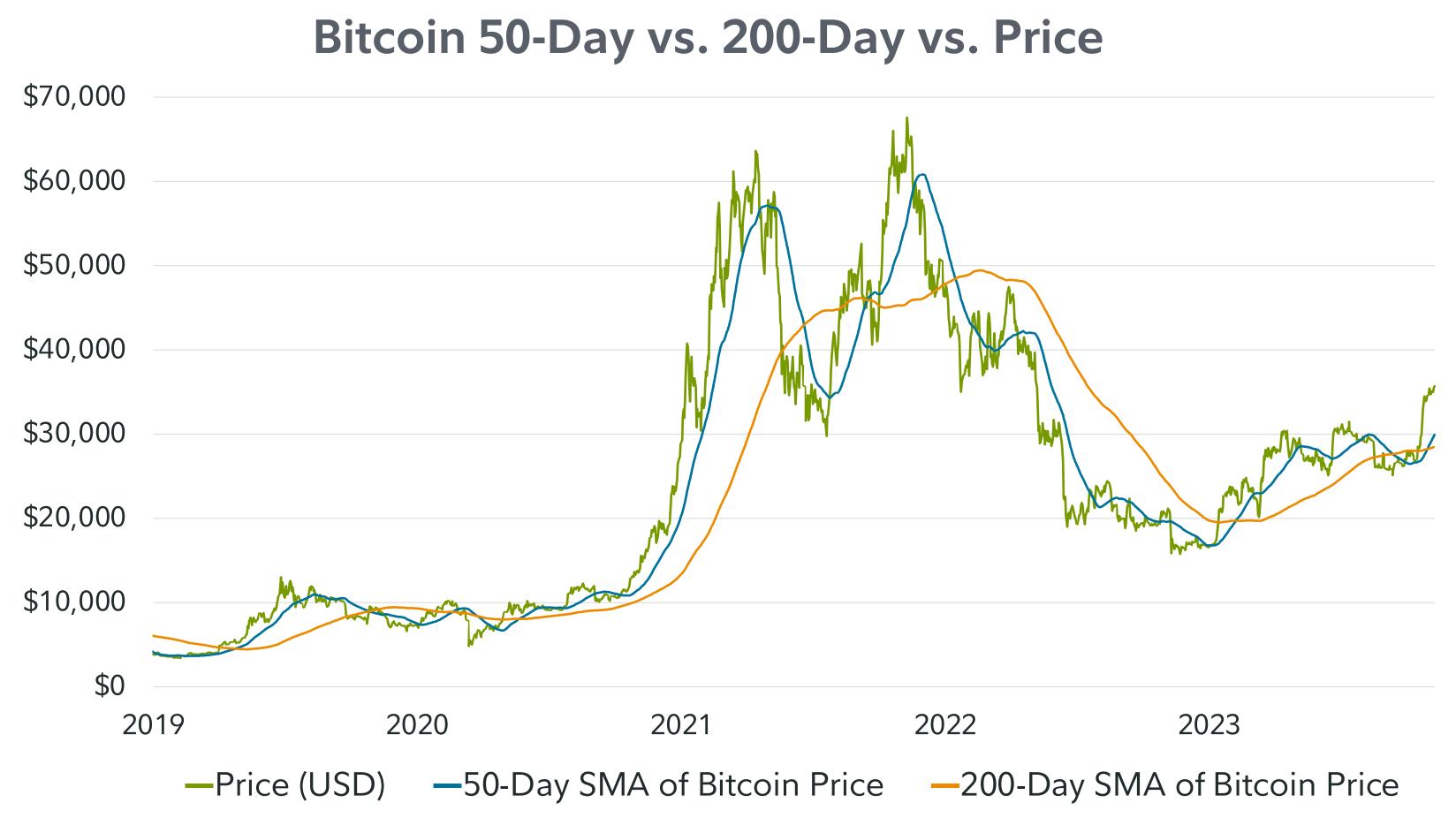


- Year-to-Date returns are now 120%+ for BTC and 75%+ for ETH
- 1-month performance:
 31% BTC and 28% ETH
- Driven by ETF speculation?
- Ether outperforming bitcoin - ETF catalyst or something else?

Source: Coin Metrics, 11/13/2023.



Bitcoin Forms Golden Cross Pattern

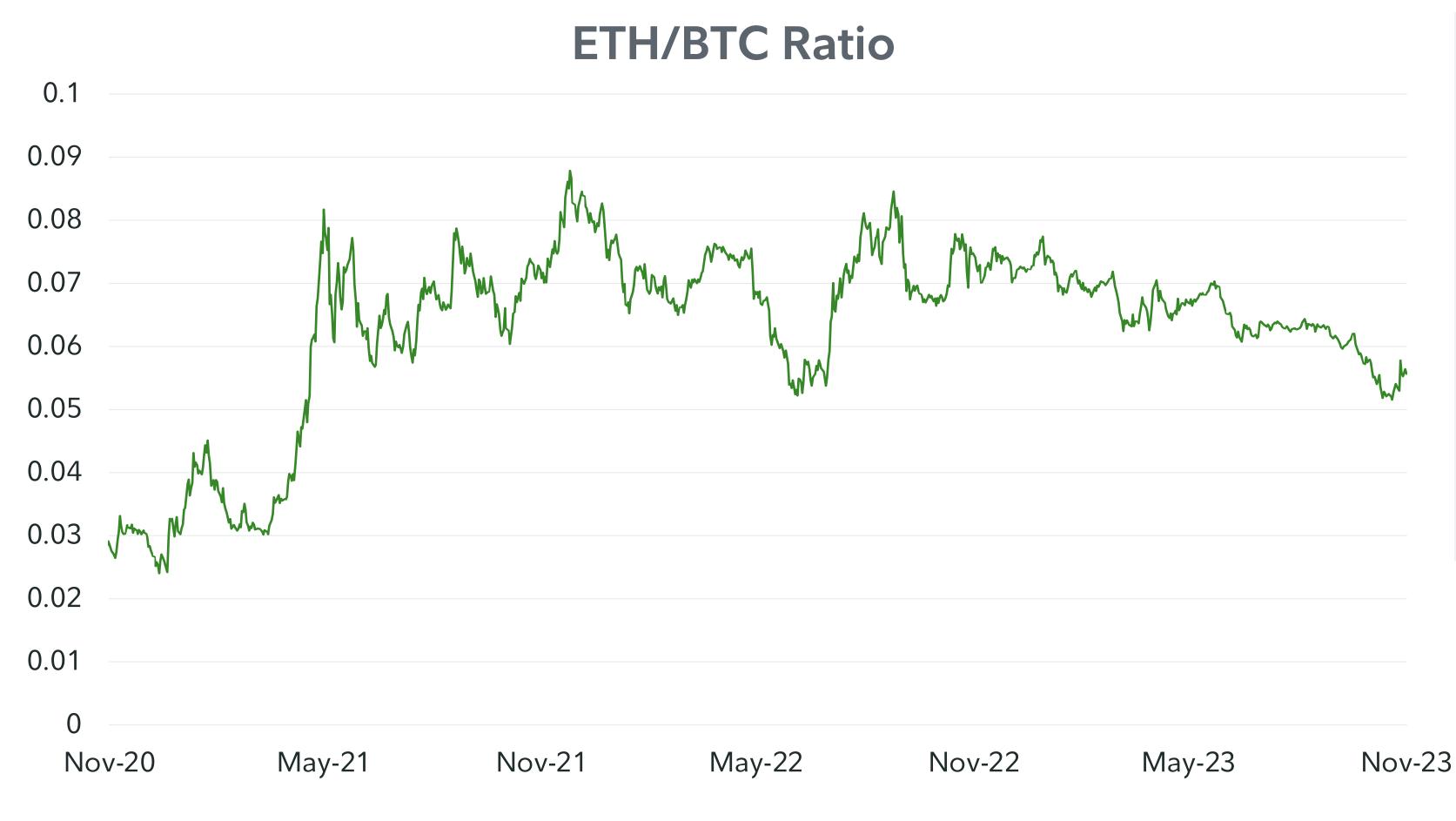


- 50-Day moving average crosses above 200-Day, indicating bullish sentiment
- Price trading above these levels since mid-October
- Potentially driven by ETF speculation and gamma squeeze in options market

Source: Glassnode, 11/13/2023



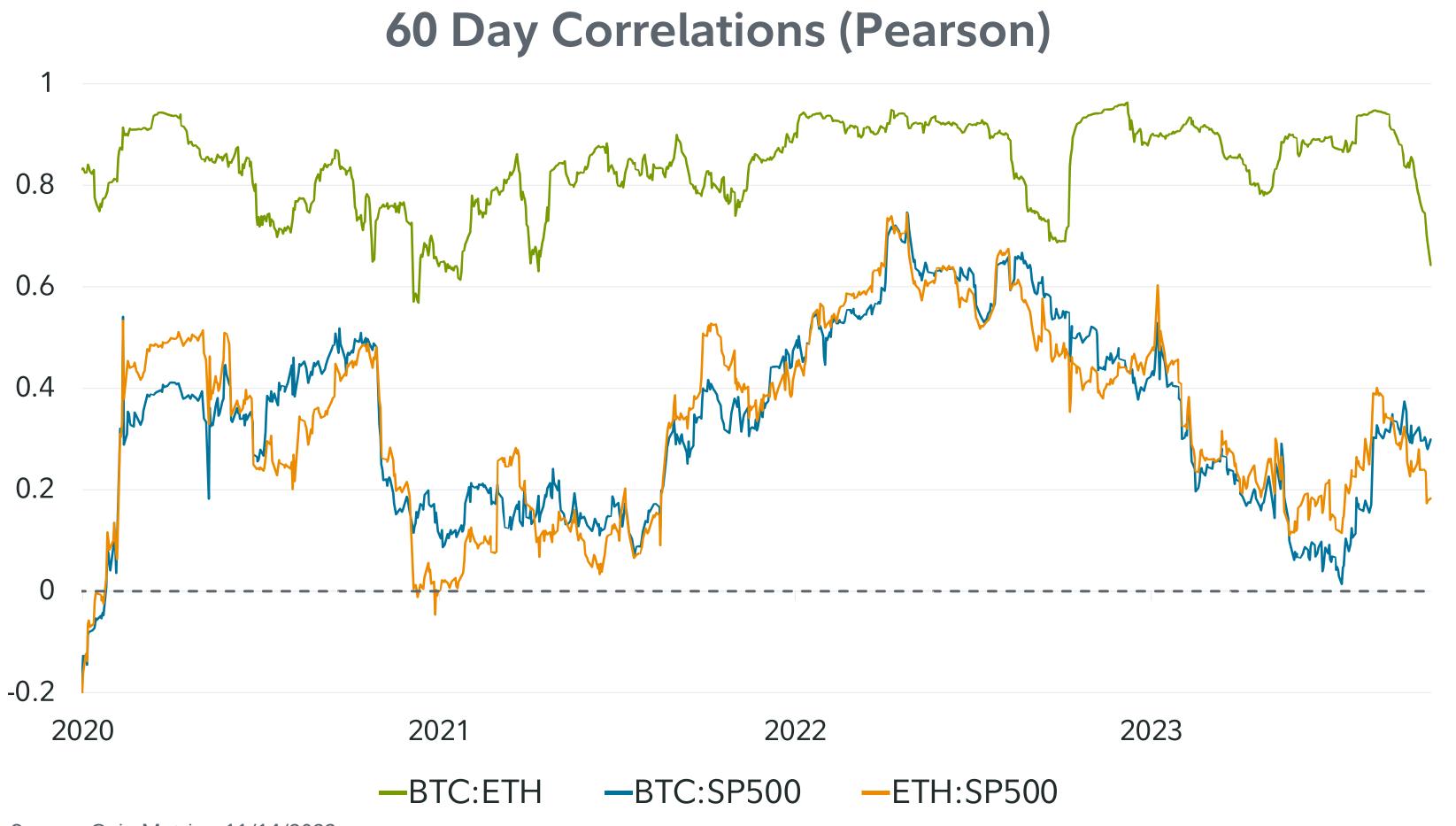
Relative Performance (1M) of BTC and ETH



- The positive news around ETF products for both assets has favored BTC more recently
- Possibly due to shorter time horizon to product launch as well as halving in '24

Source: Glassnode, 11/13/2023

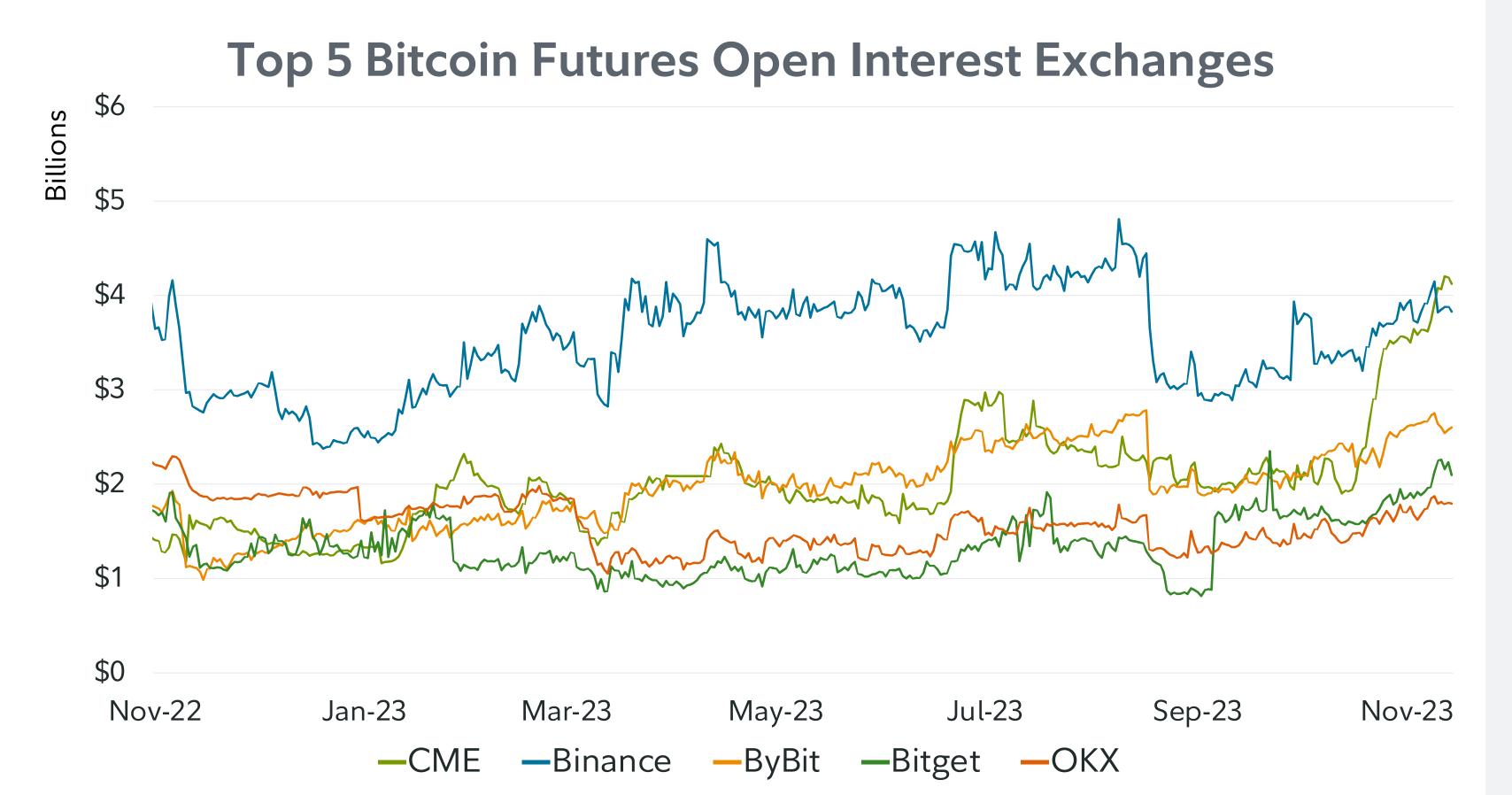
Bitcoin and Ether Decoupling from Equities?



- Bitcoin and ether correlation to equities continue to decline towards zero
- Correlation of 0 indicates no relationship between price action
- Bitcoin and ether correlation has seen sharp drawdown to around 0.6

Source: Coin Metrics, 11/14/2023.

Is Futures Market Activity a Sign of Institutional Demand?

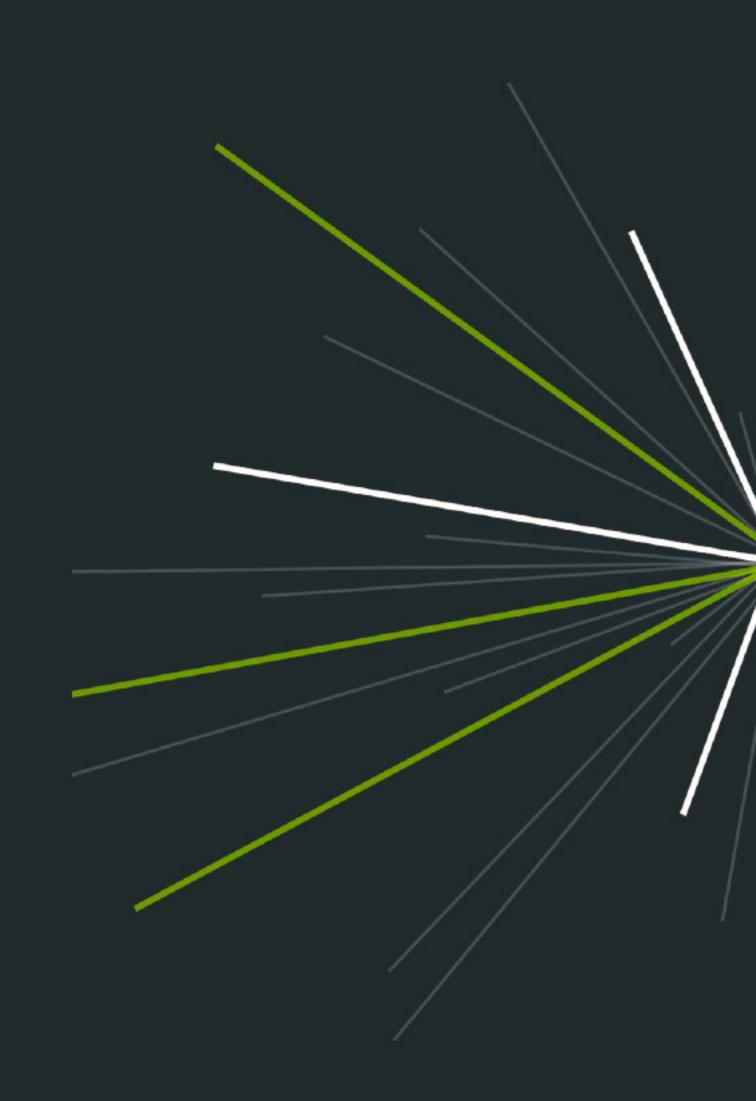


- CME surpasses Binance for largest amount of futures OI on exchanges
- Bitcoin futures open interest refers to the total number of outstanding Bitcoin futures contracts in the market
- Cboe Digital to launch margined futures for bitcoin and ether – are these signs of increasing institutional demand?

Source: The Block, 11/15/2023.



Making the Headlines This Month



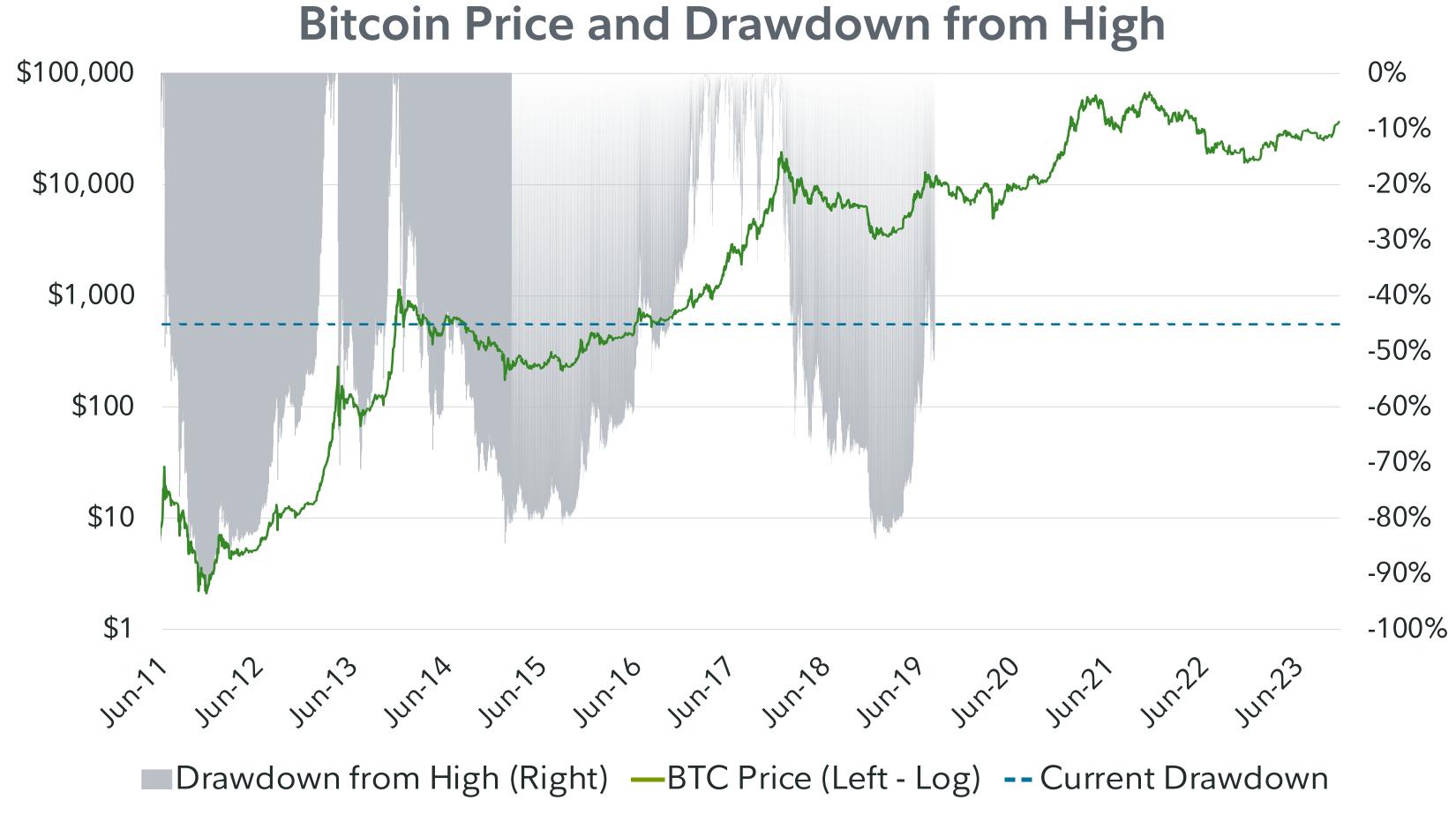
Recent News

- Blackrock has <u>filed</u> for a spot ether ETF.
- A New York judge <u>approved</u> a Celsius repayment plan involving the use of a mining firm.
- A jury <u>found</u> Sam Bankman-Fried guilty on all counts; he faces up to 115 years in prison.
- Ethereum Layer 2 network Scroll went <u>live</u> in late October.
- Modular data availability Layer 1 network Celestia went live on October 31st.
- Cryptocurrency exchange Kraken <u>announced</u> plans to launch a Layer 2 network.
- Centralized exchange OKX <u>launched</u> a decentralized Layer 2 testnet using Polygon's chian development kit.



Where We are at in the Bitcoin Cycle

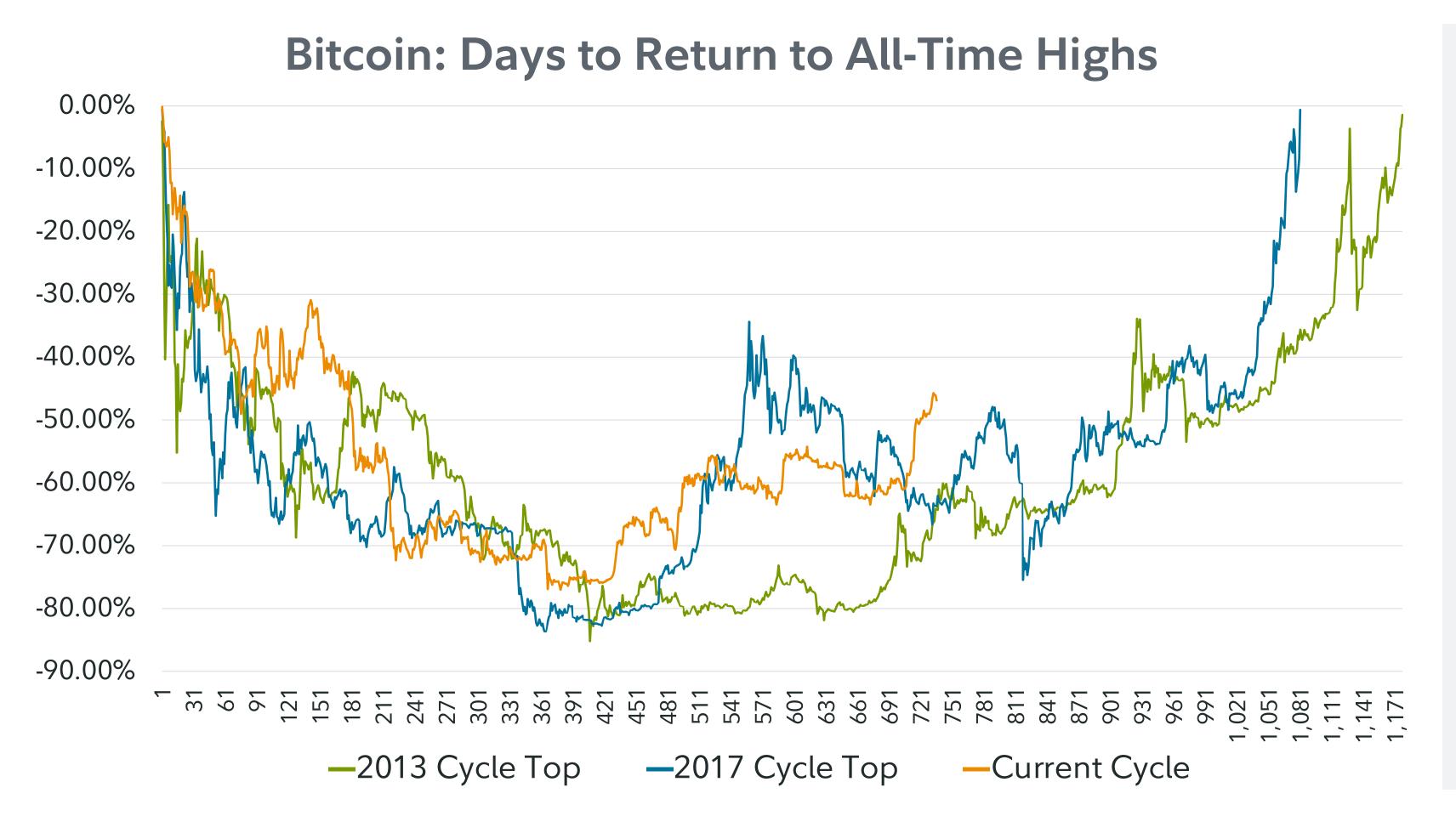
Zooming Out



- Current drawdown is approximately 45% from last all-time high
- Interestingly, long-term treasuries have also experienced similar drawdowns recently

Source: Coin Metrics, 11/13/2023

The Current Bear Market vs Past

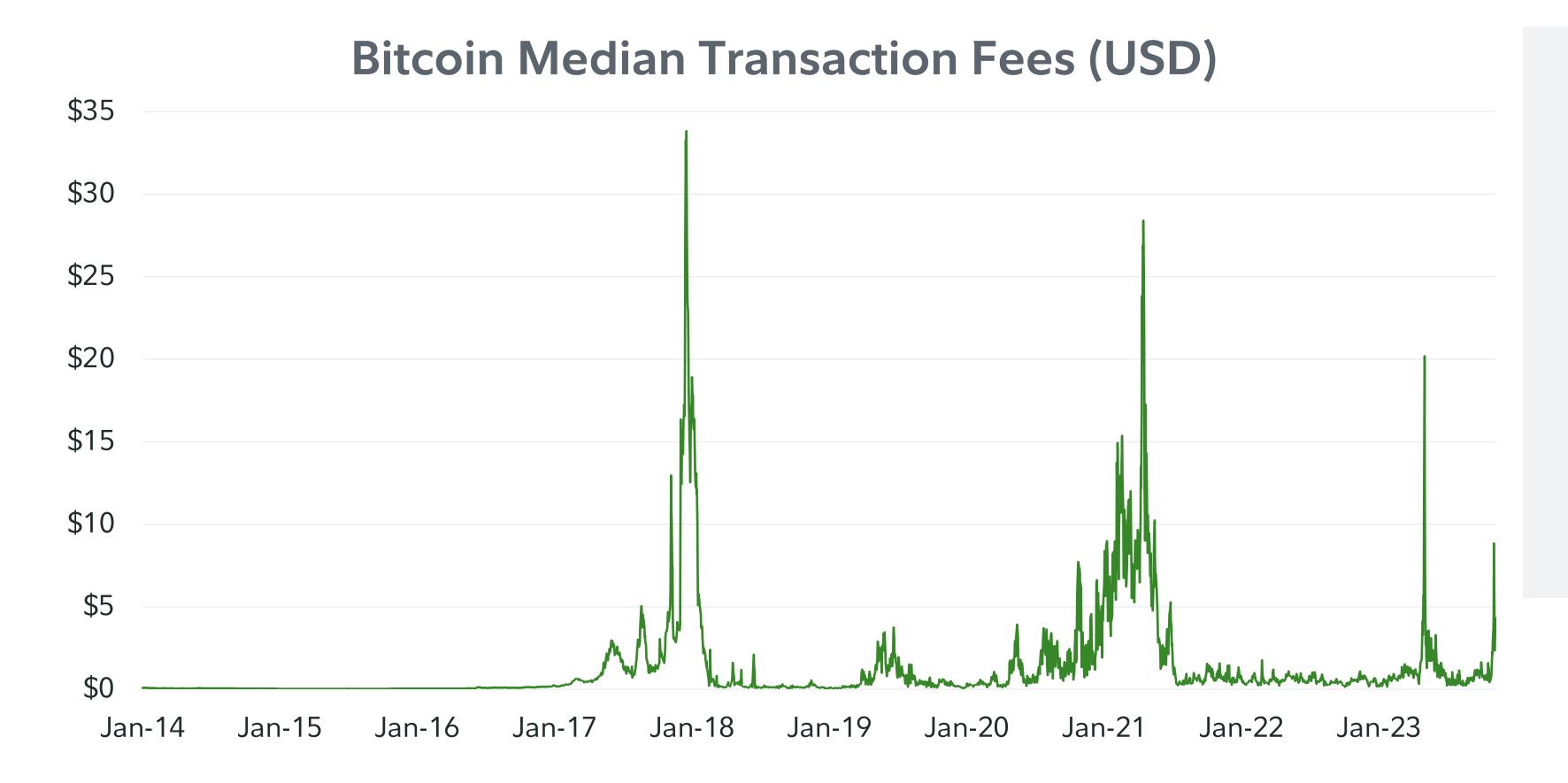


- Potential positive catalysts:
 positive ETF news, other
 regulatory clarity,
 upcoming halving,
 increasingly illiquid supply
- Potential negative catalysts: negative ETF news or regulatory announcements, increased market volatility or stress, potential flows already priced in

Source: Glassnode, 11/13/2023.

What is Goingon with Bitcoin Fees?

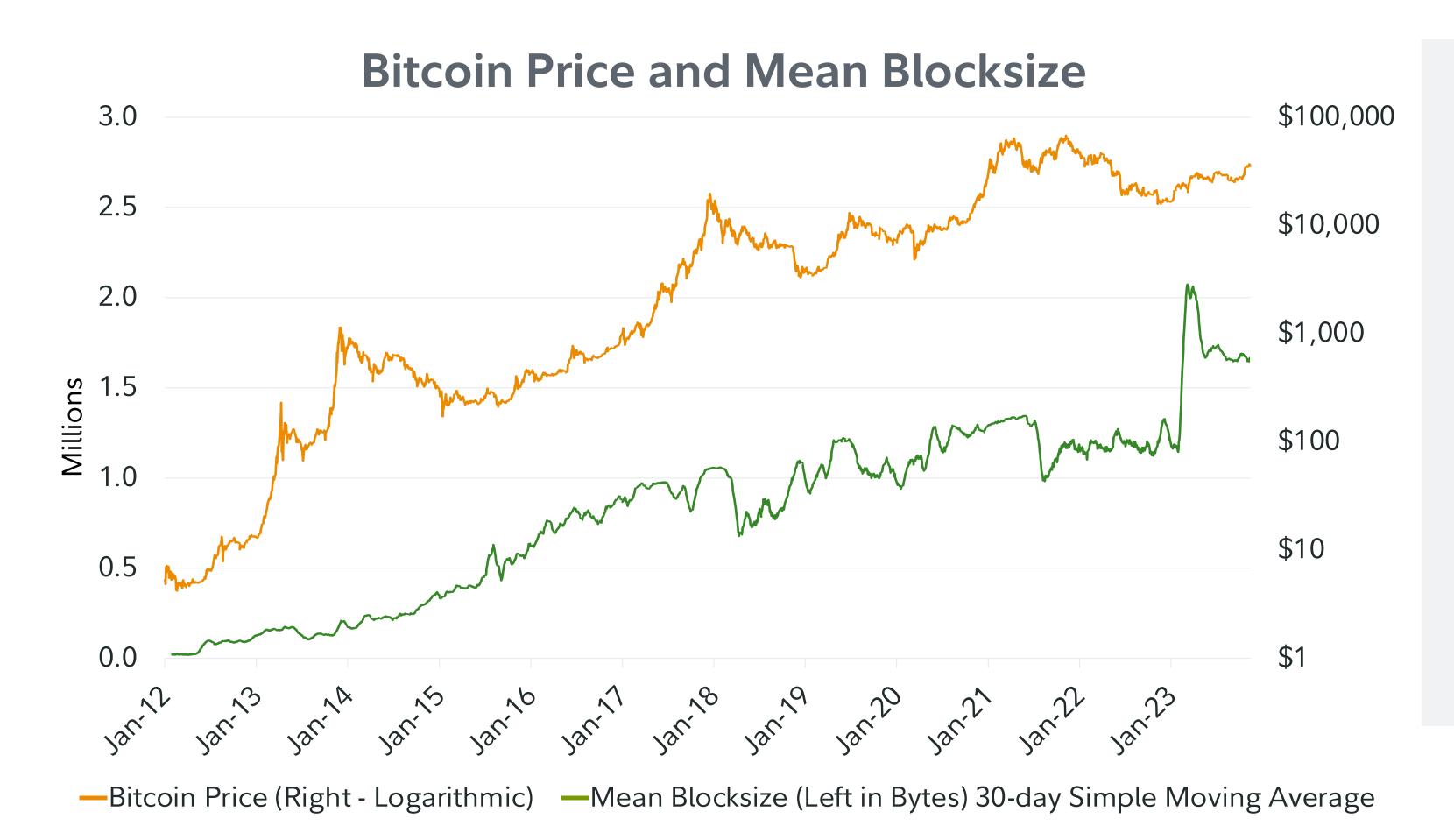
Bitcoin Fees Reach Levels Not Seen Since May



- Bitcoin fees are at their highest levels since
 Ordinals took off in May
- Driven mostly by recent price action as has previously happened
- But...

Source: Glassnode, 11/12/2023.

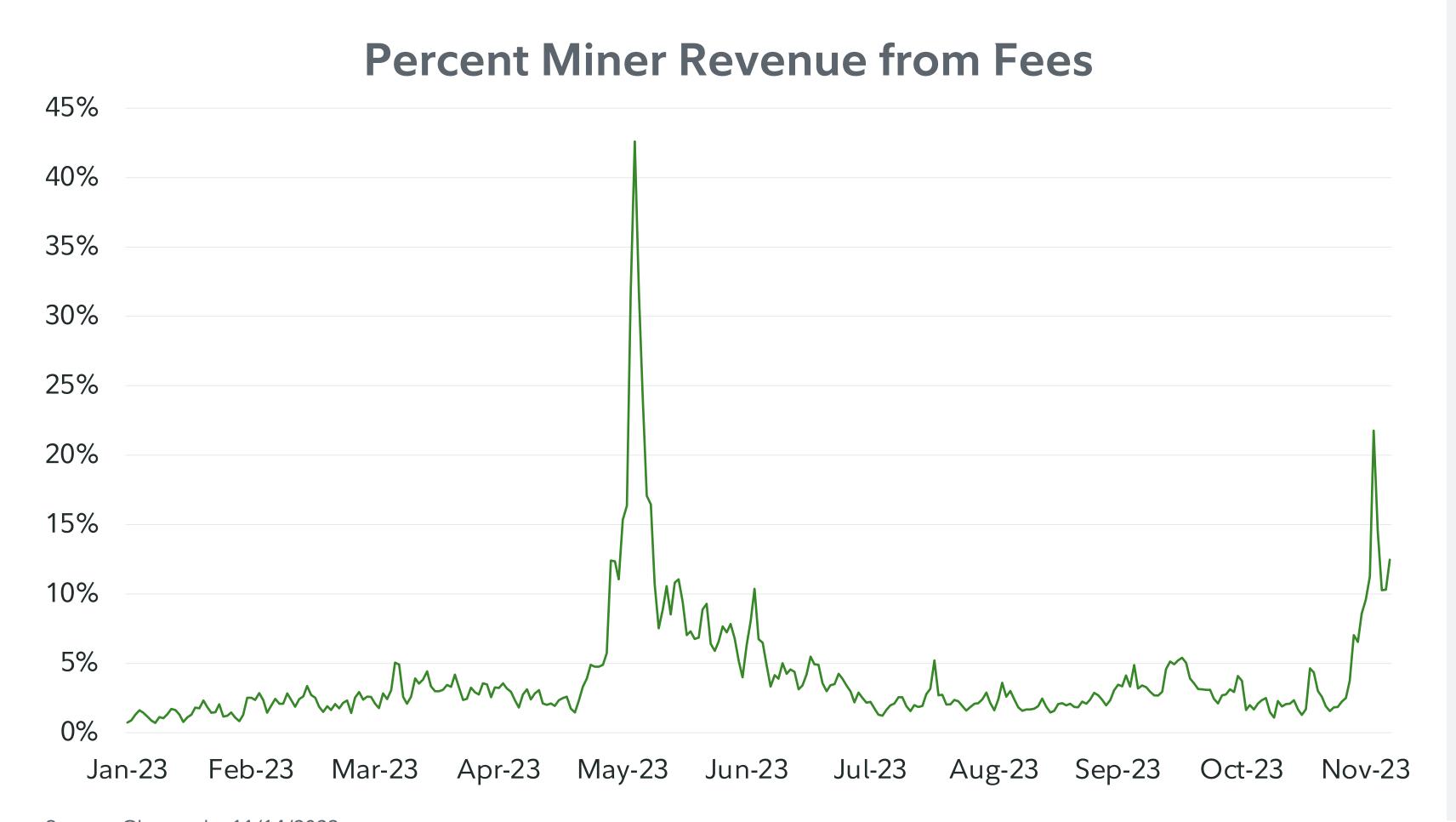
Will Higher or Spiking Fees Be the New Normal?



- Conditions were set for higher fees with Ordinals setting more of a floor for fees and consistently filling blocks
- Could we face an environment of fuller blocks and therefore more susceptibility to spiking fees?
- Or is it largely driven by higher time preference users?

Source: Glassnode, 11/12/2023.

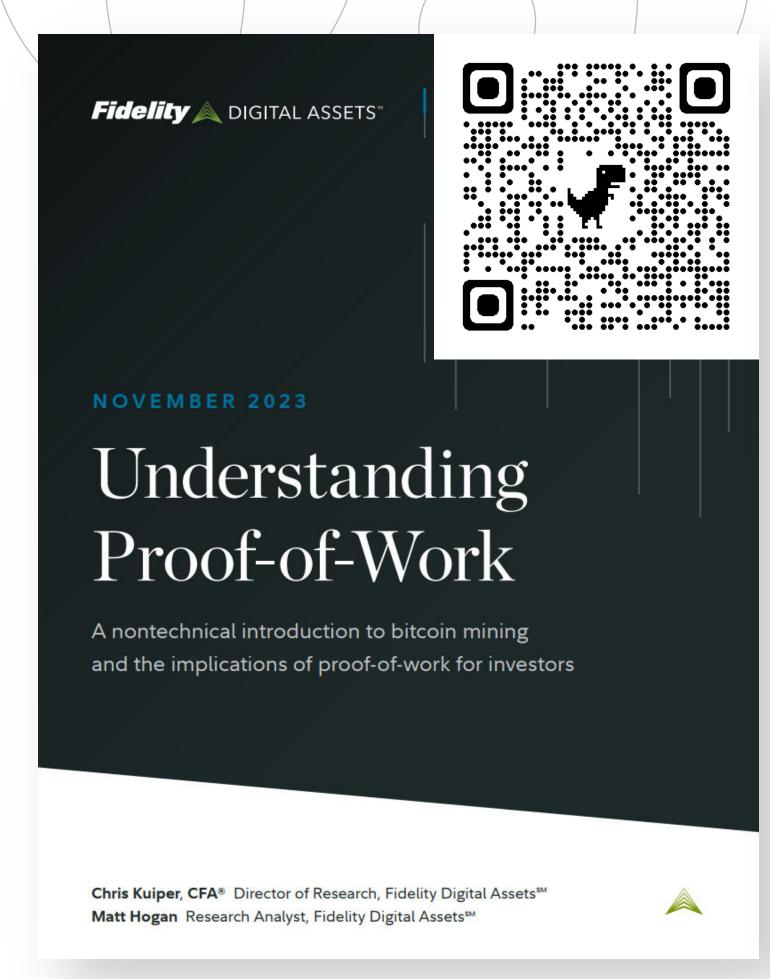
Miners Receiving Greater Revenue from Fees



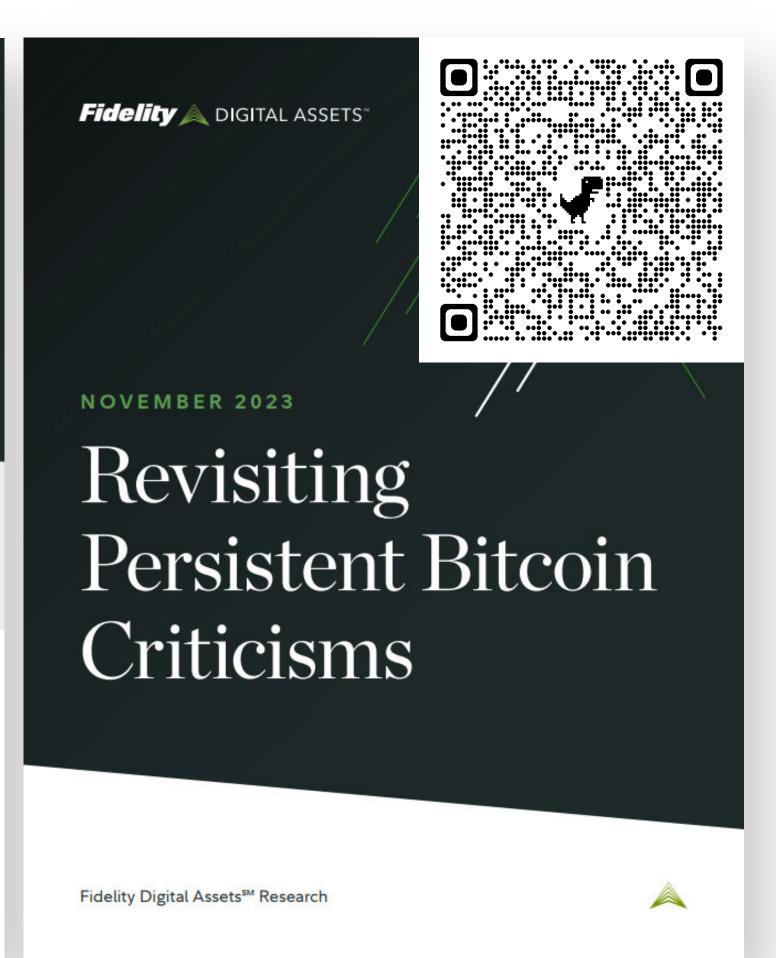
- Miners earned more than 20% of their revenue from fees in October
- With bitcoin supply
 halving currently set for
 approximately April 2024,
 miners may need to
 increasingly rely on fees
 to stay profitable
- Therefore, could this be a preview of future fee market structure?

Source: Glassnode, 11/14/2023.

In Case You Missed It







https://www.fidelitydigitalassets.com/research-and-insights



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