

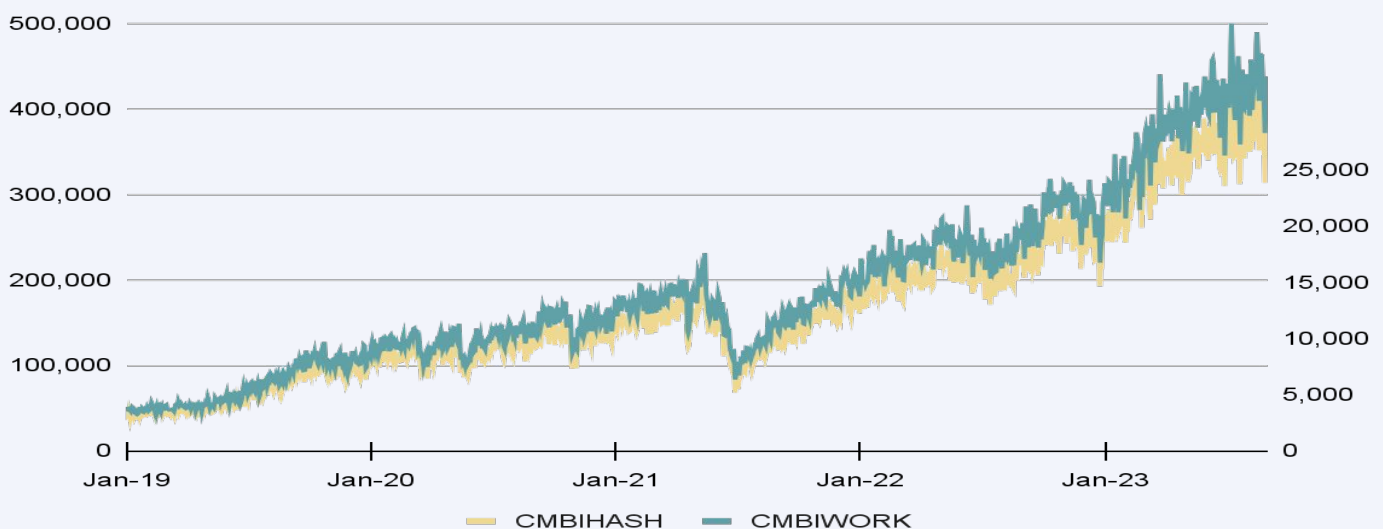
## CMBI Mining Series

The CMBI Mining Series provide the cryptoasset community, investors and asset managers with publicly available and investable benchmarks that reliably and accurately track the activity of one of crypto's critical functions, mining.

The CMBI Bitcoin Hash Rate (CMBIHASH) represents the implied hash rate that miners are contributing to Bitcoin at any single point in time. The CMBI Bitcoin Hash Rate utilize a 48hr lookback window to accurately reflect the current performance of miners whilst maintaining resistance to outlier results and potentially manipulative activities.

The CMBI Bitcoin Observed Work (CMBIWORK) utilizes the real-time levels from the CMBI Bitcoin Hash Rate to represent an approximation for the number of hashes that have been conducted over the previous 24hr period.

### Historical Performance\*



\*Performance of indexes prior to their respective launch date is back-tested performance utilizing historical data

## Features

### Coverage

The CMBI Mining Series currently provides coverage for Bitcoin only.

### Objective

Mining indexes are designed to accurately represent mining activity and act as the basis for financial products including derivatives such as futures and swaps.

### Transparent

Index design and calculation follow a rules-based process that is publicly available on the Coin Metrics website.

### Investability

Assets launched in the CMBI Mining Series have been selected based on the size and activity of mining conducted on their network.

### Price

CMBI Hash Rate is measured in Petahashes/second. CMBI Observed Work is measured in Zettahashes/day.

### Availability

Mining indexes are calculated every 5 seconds. The close price for the CMBI Mining Series is the 5 second level from 12:00ET.

## Performance

INDEX	Level	Level Change			Annualized Level Change		
		1M	3M	YTD	1Y	3Y	5Y
CMBI Bitcoin Hash Rate	\$392,623.89	4%	14%	45%	75%	46%	51%
CMBI Bitcoin Observed Work	\$32,421.85	-3%	6%	41%	62%	45%	49%

\*Performance of indexes prior to their respective launch date is back-tested performance utilizing historical data

## Calendar Year Performance

INDEX	2022	2021	2020	2019	2018
CMBI Bitcoin Hash Rate	69%	3%	58%	141%	180%
CMBI Bitcoin Observed Work	67%	4%	51%	150%	173%

## Mining Related Network Data\*

INDEX	1M	3M	YTD	2022	2021	2020	2019
Blocks Produced per Day	146	145	148	146	144	145	149
Mean Block Size (Bytes)	1652530	1686637	1714012	1190335	1223749	1188946	1074397
Mean Difficulty (millions)	53460284	52574164	46913351	30354804	20325259	16590055	8995566

\*Performance of indexes prior to their respective launch date is back-tested performance utilizing historical data

## Mining Revenues\*

INDEX	1M	3M	YTD	2022	2021	2020	2019
Mean Fee (BTC)	0.14	0.20	0.28	0.10	0.42	0.52	0.37
Mean Fee (USD)	\$3,859	\$5,567	\$7,613	\$2,706	\$20,037	\$6,345	\$2,867
Mean Subsidy(BTC)	6.25	6.25	6.25	6.25	6.25	8.50	12.50
Mean Subsidy(USD)	\$173,287	\$178,435	\$164,724	\$176,199	\$296,492	\$87,736	\$92,065
Mean Reward (BTC)	6.39	6.45	6.53	6.35	6.67	9.02	12.87
Mean Reward (USD)	\$177,146	\$184,002	\$172,337	\$178,905	\$316,529	\$94,081	\$94,932

\*Mining related network data is calculated using Coin Metrics Network Data Pro end of day values(00:00UTC)

## Specifications

	CMBI Bitcoin Hash Rate	CMBI Bitcoin Observed Work
Launch Date	Sep 23, 2020	Sep 23, 2020
Base Date	Aug 08, 2015	Jan 3, 2017
Base Value	100	100
Calculation Currencies	USD	USD

## Contact Us

### To learn more, visit:

<https://coinmetrics.io/cm-indexes/>

### CMBI Services

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### CMBI Services

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