Environment-related Impacts Related to Crypto-assets

Crypto Asset	Consensus Mechanism	Incentive Mechanism	Period Start	Period End	Energy Consumption	Sources & Methodology	Renewable energy consumption	Energy intensity	Scope 1 DLT GHG	Scope 2 DLT GHG	GHG Intensity	Key Energy Sources & Methodology	Key GHG Sources & Methodology
Bitcoin	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	162,539,993,288	See below	31.07	28.69	0.00	69,043,981.86	12.19	See below	See below
Ethereum	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	5,988,860.56	See below	31.53	0.00	0.00	1,922.64	0.00	See below	See below
Tether	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	11,886.88	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BNB Chain	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	18,634.88	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solana	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	15,167,996.09	See below	31.21	0.00	0.00	4,750.62	0.00	See below	See below
USDC	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	38,916.43	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
XRPL	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	366,889.10	See below	28.38	0.00	0.00	148.80	0.00	See below	See below
Dogecoin	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	7,583,962,030	See below	31.07	0.67	0.00	3,221,526.75	0.29	See below	See below
TRON	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	3,498,572.41	See below	27.86	0.00	0.00	1,316.88	0.00	See below	See below
Cardano	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	576,521.75	See below	32.45	0.00	0.00	200.53	0.00	See below	See below

Avalanche	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	3,500,399.86	See below	25.63	0.00	0.00	1,224.30	0.00	See below	See below
Shiba Inu	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	816.58	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chainlink	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	629.37	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bitcoin Cash	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	796,732,604.63	See below	31.07	0.22	0.00	338,437.27	0.09	See below	See below
Polkadot	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	874,723.89	See below	35.17	0.00	0.00	265.43	0.00	See below	See below
Litecoin	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	2,445,442,115.82	See below	31.07	0.09	0.00	1,038,778.57	0.04	See below	See below
Near Protocol	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	2,080,156.24	See below	28.66	0.00	0.00	870.13	0.00	See below	See below
Uniswap	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	26,535.33	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Internet Computer	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	314,424.72	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pepe	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	759.87	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aptos	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	387,832.09	See below	26.02	0.00	0.00	143.54	0.00	See below	See below
Artificial Superintelligence Alliance	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	240,380.47	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Stellar	Byzantine-Fault Tolerant (BFT)	See below	2024-12-16	2024-12-29	75,312.47	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethereum Classic	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	395,385,861.66	See below	31.07	0.05	0.00	167,952.60	0.02	See below	See below
Stacks	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	166,662.22	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sui	Proof of Stake (PoS)	See below	2024-12-16	2024-12-29	947,765.91	See below	27.82	0.00	0.00	435.02	0.00	See below	See below
Cronos	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	272,212.81	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Filecoin	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	248,989,309.51	See below	21.27	0.00	0.00	124,323.69	0.00	See below	See below
Aave	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	1,237.44	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Immutable	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	163,093.82	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Render	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	136.51	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hedera	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	642,182.76	See below	27.82	0.00	0.00	294.76	0.00	See below	See below
Arbitrum	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	4,761,547.78	See below	27.82	0.00	0.00	2,185.54	0.00	See below	See below
VeChain	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	79,266.50	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Injective	Proof of Stake (PoS)	See below	2024-12-16	2024-12-29	122,390.21	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Optimism	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	224,198.94	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cosmos	Proof of Stake (PoS)	See below	2024-12-16	2024-12-29	842,220.34	See below	27.82	0.00	0.00	386.58	0.00	See below	See below
Marker	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	43.43	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
dogwifhat	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	111.11	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
The Graph	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	89.49	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Helium	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	75,754.90	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bonk	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	322.56	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FLOKI	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	265.37	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fantom	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	188,119.09	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Algorand	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	863,259.39	See below	29.80	0.00	0.00	291.35	0.00	See below	See below
Jupiter Project	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	1.42	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pyth Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	53.83	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lido DAO	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	535,572.93	See below	31.53	0.01	0.00	171.92	0.00	See below	See below
Celestia	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	162,610.15	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JasmyCoin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	115.04	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sei	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	124,325.99	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flow	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	77,089.58	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ondo	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	264.94	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Quant	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	85.87	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MultiversX	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	60,033.43	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Starknet	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	59,540.47	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EOS	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	85,306.15	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flare	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	89,585.67	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Axie Infinity	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	54.54	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tezos	Proof of Stake (PoS)	See below	2024-12-16	2024-12-29	249,271.63	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GALA	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	105,266.49	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Worldcoin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	52.63	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
The Sandbox	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	109.93	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Akash Network	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	50,360.73	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethereum Name Service	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	162,723.02	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
dYdX	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	75,418.22	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wormhole	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	45.33	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Decentraland	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	88.57	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mina Protocol	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	50,078.64	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chiliz	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	8,748.89	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Synthetix Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	129.40	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethena	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	166.47	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Livepeer	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	33.76	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compound	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	5,418.54	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oasis	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	38,756.50	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ApeCoin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	110.23	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LayerZero	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	38,683.61	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Curve DAO	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	156.86	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IoTeX	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	23,677.26	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kava	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	32,154.70	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mog Coin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	235.89	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SuperVerse	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	63.60	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1inch	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	45.50	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Amp	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	134.38	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dash	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	65,050,065.36	See below	31.07	0.01	0.00	27,632.06	0.00	See below	See below
Blur	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	38.67	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kusama	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	31,970.20	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GMT	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	23.43	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jito	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	33.93	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Golem	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	19.09	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osmosis	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	22,668.08	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galxe	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	2.41	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Basic Attention	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	34.04	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

0x Protocol	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	38.76	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ankr Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	19.17	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Celo	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	33,401.95	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rocket Pool	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.30	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OriginTrail	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	12.12	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mask Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	39.32	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Threshold Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	18.87	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Convex Finance	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	46.09	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arkham	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	58.54	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UMA	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	23.76	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metis	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	17,214.55	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Illuvium	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	45.17	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SKALE	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	17,636.88	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biconomy	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	16.92	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blast	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	13,589.92	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Centrifuge	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	11,012.03	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Loopring	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	15,728.65	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
yearn.finance	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	21.07	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Audius	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	13,341.97	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Band Protocol	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	14,807.64	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tellor Tributes	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	15,919,626.09	See below	31.07	0.00	0.00	6,762.36	0.00	See below	See below
VeThor	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	11.63	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sushi	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	41.02	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Polygon	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	105,900.62	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanar Chain	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	13,757.33	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alchemy Pay	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.31	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COTI	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	15,073.26	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yield Guild Games	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	7.05	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Storj	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	10.27	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
API3	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.33	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Horizen	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	25,021,947.95	See below	31.07	0.00	0.00	10,628.86	0.00	See below	See below
Balancer	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	17.04	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
iExec RLC	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	7.06	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marlin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	11.30	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Taiko	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	8,979.13	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SuperRare	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	17.03	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cartesi	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	8,267.69	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Numeraire	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	15.57	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TrueFi	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	15.12	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Powerledger	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	11.44	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Orca	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	18.95	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vulcan Forged	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	11.73	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pundi X	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	7,365.69	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCX	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	22.58	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coq Inu	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	21.23	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Coin98	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	3.91	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civic	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	24.90	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bounce	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	10.63	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Treasure	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	5.63	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Celer Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	9.38	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Highstreet	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	4.50	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mines of Dalarnia	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	2.85	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kyber Network Crystal	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	9.36	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polyhedra Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	19.86	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Synapse	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.64	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Request	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	6.97	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Spell	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.15	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Orchid Protocol	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	3,821.16	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maple	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	16.37	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Big Time	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	36.79	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Liquity	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	14.07	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENQI	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	15.86	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
My Neighbor Alice	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	3.26	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wen	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	21.34	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LimeWire	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	17.81	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hashflow	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	9.65	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bancor Network	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	17.24	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Function X	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	6,683.71	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Adventure Gold	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	16.74	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gods Unchained	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	3.64	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Radworks	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	5.82	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Badger	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	58.32	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Origin Token	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	8.05	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ARPA	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	5.99	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bluzelle	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	3,217.68	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NKN	Proof of Work (PoW)	See below	2024-12-15	2024-12-28	7,286,018.24	See below	31.07	0.00	0.00	3,094.97	0.00	See below	See below
Degen (Base)	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	1.48	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aavegotchi	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	12.12	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gitcoin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	22.29	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Across Protocol	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	17.75	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Enzyme	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	5.21	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Clover Finance	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	5,053.00	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ampleforth Governance	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	9.06	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDEX	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	6.97	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aergo	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	8.71	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RARI	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	6.01	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Onyxcoin	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	18.13	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIA	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	6.16	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Perpetual Protocol	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	6.77	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Boba Network	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	5,725.51	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Orion	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	2.32	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Litentry	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	2.24	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
League of Kingdoms	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	3.6603	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alchemix	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	9.1562	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stafi	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	3,988.73	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solana Name Service	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	11.37	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Harvest Finance	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	3.22	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Voxies	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	0.12	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Measurable Data	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	7.54	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STEPN Green Satoshi Token on Solana	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	14.75	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polkastarter	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	12.22	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Basenji	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	0.08	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vara Network	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	1,946.19	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AirSwap	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	5.61	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SWFTCOIN	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	8.22	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SUKU	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	1.43	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ocean Protocol	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.74	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Songbird	Byzantine-Fault Tolerant (BFT)	See below	2024-12-15	2024-12-28	9,752.18	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marinade Staked SOL	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	64.24	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wrapped Axelar	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	296.10	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PlayDapp	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	3.21	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ripple USD	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	13.21	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OKT Chain	Proof of Stake (PoS)	See below	2024-12-15	2024-12-28	618.30	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Swell	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	90.71	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Syrup	Token / No Consensus Algorithm	See below	2024-12-15	2024-12-28	37.01	See below	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Incentive Mechanism	
Proof of Work (PoW)	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
Proof of Stake (PoS)	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
Token / No Consensus Algorithm	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
Byzantine-Fault Tolerant (BFT)	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.

Additional Information	
Sources & Methodologies	Data provided by CCRI; underlying methodologies available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com
Key Energy Sources & Methodologies	Data provided by CCRI; underlying methodologies available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com
Key GHG Sources & Methodologies	Data provided by CCRI; underlying methodologies available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com