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VERSION 1.0.284 — MAY 2026

⚡ \$0.174/kWh — \$3.48/WTC ○

Wattcoin

Proof-of-Energy

Energy-Backed. Physically Grounded. Fairly Mined.

The first cryptocurrency where every miner pays the exact same energy cost per coin — regardless of hardware.

Total Supply

21,000,000

21 tiers — 1,000,000 coins

Per Block

10 MWh

constant across every tier, forever

Hydro Turbine

60 kW

Vortex — Estonia

Total Energy

~21,000 TWh

~191 years at global power

Energy-backed cryptocurrency with real physical infrastructure.

Vortex NFT holders share turbine electricity output — forever.

01

The Mission

Most cryptocurrencies derive value from speculation alone. Wattcoin is different: every coin ever minted has a verifiable, non-negotiable energy cost baked into its existence, and **Vortex NFT holders** share in the output of a real, operating hydro turbine — forever. [Download the Wattcoin Miner](#) to start mining or [view the full tokenomics breakdown](#).

The proceeds fund land acquisition, permitting, construction, and commissioning of a **60 kW Vortex Gravity Hydro Turbine** in Estonia. Once built, that turbine generates metered, verifiable electricity whose revenue flows directly back to [Vortex NFT holders](#) — on-chain, transparently, proportionally. The genesis block allocated 1,000,000 WTC to the Foundation Reserve, which was then distributed via on-chain transactions to the [Public Sale](#), [Staking Rewards](#), and [Governance](#) wallets — all verifiable on the public chain.

ENERGY COST FLOOR — NOT JUST HASH DIFFICULTY

Every WTC minted required a provable, fixed quantity of real electrical energy. That floor doubles with each tier advance, permanently raising the rational minimum price of every coin in existence — including all coins already mined in earlier tiers.

A PHYSICAL ASSET BACKING THE NETWORK

The Vortex turbine is the purpose of this sale. Metered electricity output is streamed live into the Wattcoin Miner app and distributed on-chain to NFT holders. Real infrastructure. Real revenue. Verifiable on-chain.

HARDWARE FAIRNESS — ANYONE CAN MINE

A CPU miner and a GPU miner both spend exactly **20 kWh** to earn one WTC in Tier 1. Hardware determines how fast you mine, not how cheaply. No ASIC dominance, no arms race, no exclusion by hardware wealth.

Hardware that Bitcoin's SHA-256 arms race and Ethereum's proof-of-stake transition rendered obsolete—ASICs bound for landfill, GPUs pulled from decommissioned rigs—mines Wattcoin on equal energy terms. The network doesn't care how fast you are; it only counts the kilowatt-hours you prove. What the industry discarded as e-waste becomes a productive asset again.

Public Sale
333,333 WTC
one-time only — ever
Hydro Turbine
60 kW
Vortex Gravity — Estonia
Projected Lifetime
~191 years
at current global network power
Hard Cap
21,000,000
total supply — inviolable
02

Vortex Hydro Turbine

Wattcoin's first physical energy asset. A real-world hydro turbine whose verified output anchors the coin to tangible, renewable electricity production.

THE ASSET

A **60 kW Vortex Gravity Hydro Turbine** will be installed and commissioned. Vortex turbines are low-impact, continuous-output hydro units — no dam required, minimal ecological footprint, and capable of near-24/7 baseload generation. At 60 kW capacity, the turbine produces real, metered, verifiable electricity that feeds directly into Wattcoin's energy-backed value model.

TIMELINE

01

TIER 1 SALE CLOSES

Land acquisition begins. The existing project documentation is taken into active coordination. Site surveys, engineering reviews, and permitting applications are initiated in parallel.

02

PERMITS GRANTED

Physical construction of the hydro turbine begins. No construction work starts before the regulatory and permitting process is fully complete.

EARLY ADOPTER ENERGY POOL

Participants who hold WTC from the coin sale gain access to the **Early Adopter Energy Pool** — a share of the turbine's net energy revenue, distributed on-chain proportionally to holdings.

Year	Early Adopter Pool Share
Year 1	60%
Year 2	45%
Year 3	~34%
Year 4	~25%

The pool declines by 25% relative each year. However, **Governance reserves the right to freeze the allocation at any step** if it determines that the current level represents a sustainable long-term floor. This decision rests entirely with Governance and may be made at any point in the schedule — including as early as Year 1, meaning the 60% allocation could remain permanent if Governance concludes it is the right balance between holder returns and infrastructure sustainability. No decline is automatic or obligatory. The schedule above represents the planned trajectory, not a guaranteed reduction.

The remaining share each year is retained by Governance for infrastructure maintenance, expansion, and network development.

TERMS

No Vesting Period

Energy revenue distributions begin as soon as the turbine is operational. There is no lock-up, cliff, or waiting period — early adopters receive their share from day one of production.

Individual Share Cap: 10%

No single wallet address may hold more than 10% of the Early Adopter Pool allocation. This prevents concentration by any one participant and ensures the pool delivers meaningful benefit across a broad base of holders.

LIVE METERING IN THE MINER APP

Real-Time Dashboard

Real-time turbine output will be streamed directly into the Wattcoin Miner application. Miners will see a live energy dashboard showing current turbine generation (kW), cumulative output (kWh), estimated revenue accrued to the pool, and their individual share — updated continuously alongside their mining stats.

Verifiable On-Chain

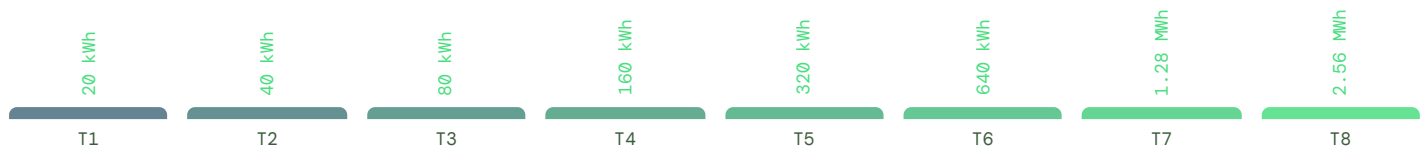
Physical energy backing becomes tangible and verifiable from within the app — not just on paper.

03

How Energy Backs Value

The Tier Ratchet

Wattcoin has 21 tiers of 1,000,000 coins each. From Tier 1 onward, the energy required to mine one coin **doubles every tier** — T1: 20 kWh, T2: 40 kWh, T3: 80 kWh, and so on up to T8: 2,560 kWh per coin.



When the network advances from Tier N to Tier N+1, the mining cost floor for new coins doubles. Since no rational miner sells below their cost, the effective market floor for **all WTC** — including coins mined in earlier tiers — is pulled upward by every tier advance.

Why Electricity Prices Trend Upward

WTC's cost floor is structurally linked to global electricity prices. Four independent forces push electricity prices higher over time:

GRID INFRASTRUCTURE INVESTMENT

Aging electricity grids require multi-decade capital reinvestment. These costs are embedded in utility tariffs and flow through to consumer and industrial electricity prices across every region.

DEMAND EXPLOSION

AI data centres, electric vehicle adoption, and building electrification are driving electricity demand faster than new supply can be built. Structural demand growth ahead of supply creates sustained upward price pressure.

CARBON PRICING

Carbon costs are structurally rising globally and pass through to wholesale electricity prices. As carbon pricing expands, the cost of electricity from fossil-fuel generation — still a dominant source — rises accordingly.

ENERGY TRANSITION CAPEX

Wind, solar, and storage buildout is capital-intensive. Construction and financing costs are embedded in electricity pricing for decades, even as renewable generation becomes the dominant source.

THE KEY INSIGHT

WTC is the only asset whose cost floor is structurally linked to global electricity prices. As energy becomes more expensive, every WTC in existence becomes harder and more expensive to replace. The energy cost baked into each coin cannot be inflated away — it is a physical fact of its creation.

04

Abstract

Wattcoin (WTC) introduces **Proof-of-Energy (PoE)** — a consensus mechanism where every miner pays the exact same energy cost per coin, regardless of hardware type or efficiency. A GPU miner and a CPU miner both spend **20 kWh** to earn one WTC in Tier 1 — hardware only determines how many operations that requires.

Energy consumption is derived from hardware specifications scaled by the miner's configured duty-cycle load: **Energy (Wh) = Hardware Power (W) × Load (%) × Time (h)**. Benchmark proofs — CPU hash, memory walk, GPU pixel hash — measure actual computation throughput to validate the hardware claim. Any ledger peer independently re-derives each expected proof using the same deterministic algorithm. No specialised hardware is required on the verifier side.

The design uses a two-tier structure: **Tier 0** — 1,000,000 WTC allocated at genesis to the Foundation Reserve and distributed via on-chain transactions to four wallets: Foundation Reserve (200,000), Public Sale (333,333), Staking Rewards (166,667), and Governance Treasury (300,000). From **Tier 1 onward** the real economy begins at 20 kWh per coin, with the energy requirement doubling each tier across 20 mining tiers until the 21,000,000 WTC hard cap is reached. Transaction fees are awarded to the block proposer alongside the block reward.

TIER 0 — GENESIS ALLOCATION

1,000,000 WTC allocated at genesis to the Foundation Reserve and distributed via on-chain transactions to four wallets: Foundation Reserve (200,000), Public Sale (333,333), Staking Rewards (166,667), Governance Treasury (300,000). Every allocation is verifiable on the public chain.

TIER 1+ — ECONOMY LAW

20 kWh per coin — the real economic floor. Energy requirement doubles every tier. At \$0.174/kWh, Tier 1 mining costs \$3.48 per coin.

FIXED SUPPLY

21,000,000 WTC across 21 tiers of 1,000,000 coins each. Hard cap with no inflation mechanism.

PROPORTIONAL REWARDS

Block rewards split by verified energy contribution. No luck, no lottery — every miner receives exactly what their energy earns, every block. Mining pools are obsolete by design.

TRANSACTION FEES

Network transaction fees are awarded to the block proposer alongside the block reward, providing an additional revenue component that grows over later tiers.

ENERGY FAIRNESS

Operation count scales inversely with hardware efficiency (η) — so every hardware type spends identical Wh per coin. A faster machine does more work in the same time, not cheaper work.

05

Core Principles

TIER 0 — PRE-MINED GENESIS
1,000,000 WTC
genesis distribution — sale, staking, team, foundation
TIER 1+ — ECONOMY LAW
10 MWh = 1 block
20 kWh/WTC at Tier 1 — doubles each tier

Hardware-Aware Energy Invariant

```
// Energy per coin at tier n (n = 1)
E(n) = 20,000 Wh × 2(n-1)

// Operations per coin
ops(n) = E(n) × 3,600 / η

// Actual energy consumed — always equal regardless of hardware
actual = ops × η = E(n) Wh ✓

// Energy per block at tier n (constant across all tiers T1+)
E_block = (1,000 / 2n) × (20,000 × 2(n-1)) = 10,000,000 Wh = 10 MWh ✓

// Block time (emergent)
T_block (hours) = 10,000,000 Wh — P_total (Watts)
```

Energy Fairness — Tier 1

```
RHM (Reference)
20 kWh ✓
Intel i9-14900K
20 kWh ✓
AMD Ryzen 9 7950X
20 kWh ✓
NVIDIA RTX 4090
20 kWh ✓
AMD RX 7900 XTX
20 kWh ✓
Antminer S21
20 kWh ✓
Whatsminer M60
20 kWh ✓
```

Every hardware type consumes exactly 20 kWh per coin in Tier 1. Bar width = operation count (log scale).

06

Hardware Registry

Benchmark proofs determine each hardware type's efficiency η (Joules per operation). Power of usage is calculated via algorithm that specifically calculates your hardware's power consumption and is scaled by the miner's configured duty-cycle load. Benchmark proofs calibrate the estimate against measured throughput — if the hardware underperforms, its credited power is reduced proportionally. Energy in Wh is computed as power — load% — elapsed time, and verified by ledger peers through computation probes.

ID	Hardware	Type	η (J/op)	Ops/Coin T0	Ops/Coin T1	Ops/Block T1
0	RHM (Reference)	Reference	1	3,600	72,000,000	72,000,000,000
1	Intel i9-14900K	CPU	0.095	37,895	757,894,737	757,894,736,842
2	AMD Ryzen 9 7950X	CPU	0.092	39,130	782,608,696	782,608,695,652
3	NVIDIA RTX 4090	GPU	0.0092	391,304	7,826,086,957	7,826,086,956,522
4	AMD RX 7900 XTX	GPU	0.0095	378,947	7,578,947,368	7,578,947,368,421
5	Antminer S21	ASIC	0.00095	3,789,474	75,789,473,684	75,789,473,684,211
6	Whatsminer M60	ASIC	0.00094	3,829,787	76,595,744,681	76,595,744,680,851

01

SUBMIT

Hardware specs and claimed efficiency ?

02
BENCHMARK
A ledger peer issues random computation challenges (CPU hash, GPU pixel hash, memory probe)

03
PROVE
Miner returns deterministic proof hash; issuing peer re-derives expected answer independently

04
ATTEST
Benchmark speed cross-checked against declared hardware TDP; level caps updated

05
RECORD
Attestation level and power cap stored; influences WTC reward cap

07

Tokenomics

Total Supply	Coins per Tier	Base Block Reward	Total Energy
21,000,000	1,000,000	500 WTC	~21,000 TWh
hard cap	fixed — all 21 tiers	halves each tier	Tier 1-20 mined; Tier 0 pre-mined

DESIGN INSIGHT

Blocks per tier = 1,000,000 — $(1,000 / 2^n) = \mathbf{1,000} — 2^n — \text{always an exact integer, every tier}$. Energy per block for T1+ = $(1,000/2^n) — (20,000 — 2^{(n-1)}) = \mathbf{10\ MWh\ constant}$. Tier 0 is the pre-mined genesis supply of 1,000,000 WTC — distributed at launch across the foundation reserve, public sale, staking rewards, and team allocation.

Tier	Energy/Coin	Block Reward	Blocks/Tier	Cost @ 18—/kWh	Tier Energy	Cumulative
0	Pre-mined	—	—	—	0 TWh	1,000,000
1	20 kWh	500.00 WTC	2,000	\$3.60	0 TWh	2,000,000
2	40 kWh	250.00 WTC	4,000	\$7.20	0 TWh	3,000,000
3	80 kWh	125.00 WTC	8,000	\$14.40	0 TWh	4,000,000
4	160 kWh	62.50 WTC	16,000	\$28.80	0 TWh	5,000,000
5	320 kWh	31.25 WTC	32,000	\$57.60	0 TWh	6,000,000
6	640 kWh	15.63 WTC	64,000	\$115	1 TWh	7,000,000
7	1 MWh	7.81 WTC	128,000	\$230	1 TWh	8,000,000
8	3 MWh	3.91 WTC	256,000	\$461	3 TWh	9,000,000
9	5 MWh	1.95 WTC	512,000	\$922	5 TWh	10,000,000
10	10 MWh	0.97656 WTC	1,024,000	\$1,843	10 TWh	11,000,000
11	20 MWh	0.48828 WTC	2,048,000	\$3,686	20 TWh	12,000,000
12	41 MWh	0.24414 WTC	4,096,000	\$7,373	41 TWh	13,000,000
13	82 MWh	0.12207 WTC	8,192,000	\$14,746	82 TWh	14,000,000
14	164 MWh	0.06104 WTC	16,384,000	\$29,491	164 TWh	15,000,000
15	328 MWh	0.03052 WTC	32,768,000	\$58,982	328 TWh	16,000,000
16	655 MWh	0.01526 WTC	65,536,000	\$117,965	655 TWh	17,000,000
17	1 GWh	0.00763 WTC	131,072,000	\$235,930	1311 TWh	18,000,000
18	3 GWh	0.00381 WTC	262,144,000	\$471,859	2621 TWh	19,000,000
19	5 GWh	0.00191 WTC	524,288,000	\$943,718	5243 TWh	20,000,000
20	10 GWh	0.00095 WTC	1,048,576,000	\$1,887,437	10486 TWh	21,000,000

Tier Energy/Coin Block Reward	Blocks/Tier Cost @ 18—/kWh	Tier Energy Cumulative
TOTAL		20972 TWh 21,000,000
08		

Proportional Block Rewards

When multiple miners contribute verified proofs within the same block window, the block reward is distributed proportionally based on each miner's verified energy contribution. This eliminates luck variance entirely — every miner receives exactly what their energy deserves, every block.

```
// Miner share of block reward
miner_reward = block_reward × (miner_energy_Wh / total_block_energy_Wh)
```

```
// Since all hardware is energy-normalized, this simplifies to
miner_reward = block_reward × (miner_ops × η / Σ(all_ops × η))
```

```
// Total block energy is always conserved
```

```
Σ(miner_rewards) = block_reward ✓
```

WHAT THIS REPLACES

Mining Pools

No longer needed — the protocol itself distributes rewards proportionally, eliminating pool fees and pool operator trust.

Luck Variance

Solo miners no longer need to wait for a lucky block — every block window pays out proportionally.

Winner-Takes-All

No single miner claims the full reward unless they contributed 100% of the block's energy.

BLOCK WINDOW MODEL

01

Window Opens

Previous block is confirmed. New block seed broadcast to all miners.

02

Miners Work

Each miner runs their hardware-specific task, generating $W(t)$ samples continuously.

03

Proofs Submitted

Miners submit computation proofs and power readings before the round closes. The issuing ledger peer verifies each proof algebraically.

04

Window Closes

Fixed-time window ends. All valid proofs collected.

05

Reward Split

$\text{block_reward} \text{ — } (\text{miner_Wh} / \text{total_Wh})$ paid to each contributor.

SYBIL RESISTANCE

Splitting one miner into many identities provides **zero advantage** — proportional share is calculated on total verified energy regardless of how many proofs it is split across. A miner spending 1,000 Wh as one identity receives the same reward as ten identities each spending 100 Wh. The energy is what counts, not the identity count.

TRANSACTION FEES

All network transaction fees are awarded to the block proposer alongside the block reward. As block rewards halve through successive tiers, transaction fees form an increasingly important component of proposer revenue, sustaining mining incentives across the full emission schedule.

09

Network Mining Calculator

Total energy to mine all 21,000,000 WTC — 21,000 TWh. Current global PoW mining draws approximately 25 GW.

NETWORK POWER: 12.500 GW 

1 MW25 GW (— global)50 GW

Time to mine all

191.4 years

21,000,000 WTC

Total energy

20972 TWh

to mine all coins

Block time (T1+)

5.8s

emergent from network power

REFERENCE POINTS

1 MW2392368.2 years

10 MW239236.8 years

100 MW23923.7 years

1 GW2392.4 years

12.5 GW (— global)191.4 years

25 GW (full global)95.7 years

10

Verification & Security

A mining round produces a set of verifiable artefacts. Benchmark proofs run once at startup; periodic probes run throughout mining with chain-derived seeds so past answers cannot be recycled:

Energy consumption is measured via software-based power estimation using declared hardware TDP and duty-cycle sampling. Estimates carry a typical accuracy of $\pm 20\%$, comparable to standard software monitoring tools. The protocol accounts for this variance through statistical re-benchmarking thresholds and peer-verified probe attestations.

Proof System

SUBMITTED Miner address

SUBMITTED Declared energy (Wh) — computed as hardware power — duty-cycle load — elapsed time

SUBMITTED Proof commitment — SHA-256(blockHash + Wh + blocks), binds energy claim to block

BENCHMARK CPU speed proof — deterministic IMUL/XOR hash, independently re-run by peers

BENCHMARK Memory proof — seeded array-walk hash, independently re-run by peers

BENCHMARK GPU proof hash — deterministic XOR-shift pixel hash (WebGL2), verified in pure JS

PROBE Periodic in-mining probes — chain-derived seeds, peer algebraically verifies each answer

ATTESTED Power cap level — rises only by passing successive benchmark tiers

Attack Vectors

Hardware Spoofing **Claiming wrong ?**

Statistical monitoring: $>20\%$ deviation triggers re-benchmark

Power Misreporting **Faking W(t) readings**

Ledger peers cross-check probe computation speed against declared hardware TDP — excess claimed wattage without matching proof speed caps attestation level

Sampling Manipulation **Infrequent sampling misses spikes**

Protocol requires minimum sampling rate; proof verifies sample count

Sybil Attack **Split identity to game rewards**

Proportional share is calculated on total energy — splitting provides zero advantage

51% Attack **Majority network power**

Cost = energy for >50% of honest blocks — prohibitively expensive

Hardware Forgery **Fake benchmark certificates**

Chain-derived seeds prevent pre-computation; issuing peer wall-clock measures true elapsed time; attestation level rises only by passing successive benchmark tiers

11

How to Buy WTC

WTC public sale is now open. 333,333 WTC are available at a fixed price based on real electricity cost — Tier 1 buyers pay one-third of what it costs to mine.

SALE PARAMETERS

 \$0.174/kWh — \$3.48/WTC ○

Sale Wallet **wtc1qd6dgez6rvh3ak2xw9jtsz3h8na0ssyepjgec3t**

Total Available **333,333 WTC**

Payment
Currency **USDC (ERC-20, Ethereum mainnet)**

Pricing
TIER 1 111,111 WTC — 1/3 of Tier 1 mining cost (\$1.16/WTC at \$0.174/kWh) Early adopter price
TIER 2 111,111 WTC — 2/3 of Tier 1 mining cost (\$2.32/WTC at \$0.174/kWh) Standard price
TIER 3 111,111 WTC — Full Tier 1 mining cost (\$3.48/WTC at \$0.174/kWh) Floor price

Exact USDC amount calculated live in the Wattcoin Miner app based on current electricity price.

Availability **Once supply is depleted, the sale is closed.**

01

Open the Wallet Page

In your browser, open the Wattcoin Wallet page (the site wallet). This page runs your wallet in-browser and lets you buy WTC without installing the miner app.

02

Create or Restore a Wallet

Click "Generate New Wallet" to create a local wallet, or "Restore from Backup" if you already have a JSON backup. When creating, write down your backup and password before continuing.

Private key is encrypted locally — download the backup file.

03

Provide Your USDC Sending Address

In the Buy section, enter the Ethereum address you will send USDC from (your MetaMask or other wallet). This lets the site automatically detect and match your payment.

04

Choose WTC Amount and Get Price

Enter how many WTC you want and click "Get Price". The page calculates the exact USDC required (including cents). Review the displayed USDC amount before placing the order.

05

Place Order

Click "Place Order & Pay with USDC". The site creates an order and presents a secure wallet payment option (for example, a "Pay with MetaMask" button) so you can submit the USDC transfer from your connected wallet.

06

Pay — Wallet Payment

Use the "Pay with MetaMask" (or your connected wallet) button and confirm the ERC-20 USDC transfer in your wallet. The site will detect the payment automatically and update your order status.

Make sure your wallet is set to Ethereum Mainnet and that you use USDC (ERC-20).

07

Wait for Detection and Settlement

The page polls the server and the blockchain for your payment. Status messages will update from *pending_payment* → *payment_submitted* → *queued* → *fulfilled*. This can take a few minutes depending on network confirmations.

If your order already shows as **queued for delivery**, your payment has been received and your WTC is reserved — delivery is underway and will complete after on-chain settlement, so no further action is required.

08

Confirm Delivery

When the order is fulfilled, your WTC balance updates and the order appears in the history. You can view the delivery transaction and verify the WTC arrived in your wallet.

09

Troubleshooting

If funds don't arrive: confirm you sent USDC (not ETH), verify you used the same Ethereum address entered in the form, check the tx hash on Etherscan, and contact support with your order id and tx hash if needed.

10

Security Checklist

Always keep your backup JSON and password offline and private. Do not share private keys. Double-check the seller address and exact USDC amount before sending. Start with a small test payment if uncertain. Verify the site URL uses HTTPS.

CONTACT & SUPPORT

info@wattcoin.ee

Questions about the sale, wallet setup, or the protocol? Reach out to the Wattcoin Foundation team. We respond to all genuine inquiries.

12

Staking

Staking lets WTC holders earn passive rewards by locking their coins in the protocol. A genesis wallet containing **166,667 WTC** is reserved exclusively for staking rewards and distributed proportionally to stakers until the pool is fully depleted.

THE COLLECTIVE MECHANIC — MORE STAKED, HIGHER APY FOR ALL

Unlike traditional staking where more participants dilute individual yield, Wattcoin staking works the opposite way: **the more WTC staked across the network, the higher the APY for every staker**. For every 10,000 WTC added to the staking pool network-wide, all stakers earn 1% more per year. Collective participation increases individual reward. Stake early, stake more, and benefit as the network grows.

APY Formula

// 1% APY per 10,000 WTC staked network-wide

$APY(S) = \text{floor}(S / 10,000) \times 1\%$

// S = total WTC staked across the entire network

// Examples:

S = 10,000 WTC → APY = 1%

S = 100,000 WTC → APY = 10%

S = 166,667 WTC → APY = 16%

S = 333,333 WTC → APY = 33% // max — all public sale WTC staked

APY Milestones

Network WTC Staked	APY Annual per 10,000 staked
10,000 WTC	1% 100 WTC
50,000 WTC	5% 500 WTC
100,000 WTC	10% 1,000 WTC
120,000 WTC	12% 1,200 WTC
150,000 WTC	15% 1,500 WTC
166,667 WTC (rewards pool size)	16% 1,600 WTC
333,333 WTC (max — all sale WTC staked)	33% 3,300 WTC

How Staking Works

01

STAKE

Lock WTC via the Staking tab in the Wattcoin Miner app. Your staked coins remain yours — they are not transferred to a third party.

02

EARN

Rewards accumulate proportionally. A staker holding 1% of all staked WTC earns 1% of every reward distribution. APY is recalculated as total staked changes.

03

CLAIM

Accumulated staking rewards are sent to your wallet address and visible in the built-in blockchain explorer.

04

UNSTAKE

Unstake at any time. Your staked principal is returned to your wallet. Any outstanding rewards are paid out at unstake.

STAKING POOL LIFETIME

The staking rewards pool contains 166,667 WTC and is intentionally designed to drain quickly — no lock-ups, no early-withdrawal penalties, no replenishment. This maximises the reward rate for early adopters who stake first. Once fully distributed the programme ends permanently. Early stakers benefit from the deepest pool and the longest reward window.

PROPORTIONAL DISTRIBUTION

Rewards are distributed proportionally by staked share. If you hold 10% of the total staked WTC and the current APY is 12%, you earn 12% of your staked principal per year from the rewards pool.

13

Wattcoin Vortex NFT

A limited collection of 60 on-chain NFTs tied directly to the Wattcoin Vortex Hydro Turbine. Each NFT represents a permanent, transferable profit-share in turbine revenue — tracked natively on the WTC chain, with no external dependencies.

 Vortex NFT Gold

GOLD TIER — #1-#10

5 Profit Shares

10 tokens. Each Gold NFT carries 5 profit shares — the highest individual allocation. Holders receive a 5/140 slice of all turbine revenue distributions.

SALE REQUIREMENT
Purchase **25,000 WTC** before the sale ends to qualify for this NFT tier.

 Vortex NFT Silver

SILVER TIER — #11-#30

3 Profit Shares

20 tokens. Each Silver NFT carries 3 profit shares. Holders receive a 3/140 slice of all turbine revenue distributions.

SALE REQUIREMENT
Purchase **15,000 WTC** before the sale ends to qualify for this NFT tier.

 Vortex NFT Bronze

BRONZE TIER — #31-#60

1 Profit Share

30 tokens. Each Bronze NFT carries 1 profit share. Holders receive a 1/140 slice of all turbine revenue distributions.

SALE REQUIREMENT
Purchase **5,000 WTC** before the sale ends to qualify for this NFT tier.

COLLECTION PRINCIPLES

- **60 total NFTs — fixed forever.** No additional minting, no dilution. The collection is sealed at genesis.
- **140 total profit shares** across all three tiers ($10 \times 5 + 20 \times 3 + 30 \times 1 = 50 + 60 + 30 = 140$).
- **Governance access.** Acquiring a Vortex NFT grants governance access — the ability to submit Protocol Improvement Proposals (PIPs) and vote on protocol changes. Voting power mirrors profit share. Each NFT carries governance voting weight equal to its profit-share count — Gold 5 votes, Silver 3 votes, Bronze 1 vote. An NFT that earns more earns more say.
- **On-chain ownership.** Every NFT is minted and tracked natively on the WTC chain using secp256k1-signed transactions. No smart contract platform required.
- **Transferable & tradeable.** Ownership transfers via standard WTC NFT transfer transactions, recorded immutably on-chain.
- **Non-stacking entitlement.** Holding multiple NFTs of the same tier does not multiply that tier's entitlement — each address qualifies for the tier benefit of its *highest-tier* NFT only. Additional tokens of equal or lower tier carry the same single-tier entitlement and do not stack.
- **One NFT earned per wallet.** Each wallet address earns at most one NFT from the sale — the single highest tier its purchase total qualifies for. Purchasing beyond a tier threshold does not grant additional NFTs.
- **Foundation Reserve launch.** All 60 NFTs are now minted to the Foundation Reserve address and are distributed following the public sale close. NFTs that will not be distributed after the sale will be distributed afterwards for completing different milestones. Milestones will be disclosed after the sale.
- **Revenue source.** Profit distributions are funded by metered electricity output from the 60 kW Vortex Gravity Hydro Turbine. Distribution cadence and accounting are published by the Foundation.

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WattDollar (WTD)

PHASE 4 — PLANNED FEATURE

WattDollar is a planned dollar-pegged stablecoin scheduled for Phase 4 of the Wattcoin roadmap. The mechanism described below represents the intended design. WTD is not yet live — see the [Roadmap](#) for timeline context.

WattDollar (WTD) is Wattcoin's planned native stablecoin. Instead of selling WTC to access liquidity, holders will be able to **collateralise their WTC** and receive WTD — a USDC-redeemable token backed by locked WTC. When the collateral is released, the WTD is burned and the WTC is returned in full. **You will never need to sell your WTC to access liquidity.**

How It Works

01

LOCK WTC AS COLLATERAL

Lock any amount of WTC into the protocol for a chosen duration. The lock period determines the percentage of WTD issued against the collateral value.

02

RECEIVE WTD

The protocol mints WTD proportional to the collateral value and chosen lock duration. WTD is pegged 1:1 to USDC. Longer commitment → higher WTD issuance rate.

03

USE WTD FREELY

WTD can be spent, transferred, or converted to USDC at any time — a fully liquid stablecoin while your WTC remains intact on-chain.

04

UNLOCK WTC

Return the exact WTD amount originally issued. That WTD is permanently burned. The WTC is returned in full — no extra cost, no loss.

Lock Duration & WTD Issuance Rate

Lock Duration WTD Issued Note

30 days	~25%	Short-term liquidity
90 days	~50%	Medium-term
180 days	~70%	Balanced commitment
365 days	~90%	Near-full liquidity

NO WTC SUPPLY DILUTION

The WTC supply is never diluted by the WTD system. Every WTC that enters collateral is still accounted for on-chain and returns to full circulation the moment the matching WTD is burned. Energy-backed value is preserved end to end.

WHY IT MATTERS

WTC holders who believe in long-term appreciation have no reason to sell. WTD lets them access dollar liquidity today while maintaining full exposure to their WTC holding. The WTC supply is not diluted — it is temporarily locked, then returned.

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Comparison

Feature	Bitcoin	Ethereum PoS	Monero	Wattcoin
Consensus	Probabilistic PoW	Delegated PoS	RandomX PoW	PoE
Hardware awareness	None — ASICs dominate	None	ASIC-resistant (CPU-optimised)	Full — per-hardware calibration
Energy per coin	Variable (ASICs win)	Near-zero (staking only)	Variable (CPU / GPU)	Fixed — equal for all hardware
Genesis allocation	~1M early-mined (Satoshi)	~72M ETH ICO pre-sale	No formal premine	1,000,000 WTC — 4 wallets (on-chain)
Economy floor	None	None	None	20 kWh / coin (Tier 1+)
Reward model	Lottery — winner takes all	Staking yield	Lottery — winner takes all	Proportional by verified energy
Mining pools	Required	N/A	Common	Obsolete by design
Block time	~10 min (fixed)	~12 sec (fixed)	~2 min (fixed)	Emergent from network power
Difficulty adjust	Every 2,016 blocks	Dynamic (EIP-1559)	LWMA — every block	None — η scales tasks per hardware
Transaction fees	Miners (lottery winner)	Validators + burn (EIP-1559)	Miners (lottery winner)	Block proposer — proportional to energy

Feature	Bitcoin	Ethereum PoS	Monero	Wattcoin
Supply	21M (hard cap)	Deflationary (burns)	~18.4M + tail emission	21M (hard cap)
Fairness	ASIC operators dominate	Large stakers dominate	CPU-friendly	Equal energy cost for all hardware

CONCLUSION

The first cryptocurrency where energy is the equalizer

Wattcoin solves the defining failure of Proof-of-Work: the richest hardware wins. By anchoring block rewards to verified energy — not raw computation speed — every miner on any hardware pays the same energy cost per block. **10 MWh = 1 block** is not a target or an average. It is a law, enforced on-chain, forever. Block rewards halve each tier — but the energy required per block never changes.

Mining pools, luck variance, and ASIC dominance are not problems to be patched. They are symptoms of a fundamentally broken incentive structure. Wattcoin eliminates the disease, not the symptoms.

As the global cost of electricity rises — driven by demand growth, infrastructure investment, and the energy transition — the real-world cost floor of every WTC rises with it. Coins mined early carry the lowest energy price ever attached to this chain. That advantage never disappears.

Fair MiningHardware AgnosticEnergy BackedPeer VerifiedFixed SupplyPre-Mined GenesisNo Mining PoolsZero Luck Variance

GENESIS WALLET DIRECTORY — 1,000,000 WTC ALLOCATED AT LAUNCH (21,000,000 WTC TOTAL SUPPLY)

FOUNDATION	PUBLIC SALE	STAKING	GOVERNANCE
200,000 20%	333,333 33.3%	166,667 16.7%	300,000 30%

FOUNDATION RESERVE

200,000 WTC

wtc1q073k2x8qv6d6xf7jvq64zkngyh7m7qdt4vvmrn

200,000 WTC allocated to the Wattcoin Foundation for ongoing network operations, infrastructure hosting, marketing, community development, and ecosystem growth. The operational backbone that keeps Wattcoin running and expanding.

PUBLIC SALE

333,333 WTC

wtc1qd6dqe6z6rvh3ak2xw9jtsz3h8na0ssyepjgec3t

The one and only WTC public sale — ever. 333,333 WTC across three tiers: Tier 1 (111,111 WTC) at 1/3 of mining cost, Tier 2 (111,111 WTC) at 2/3 of mining cost, Tier 3 (111,111 WTC) at full Tier 1 mining cost. Prices anchored to real electricity cost.

STAKING REWARDS

166,667 WTC

wtc1q7t624zx7px3ypd3u6zaz0hr7knpa0aun7d56gv

166,667 WTC reserved exclusively for staking rewards, distributed proportionally to stakers until the pool is fully depleted. APY grows with network participation: 1% per 10,000 WTC staked. At 100,000 WTC staked → 10% APY. At 166,667 WTC staked → 16% APY. At 333,333 WTC staked → 33% APY (maximum — all public sale WTC staked). Collective commitment multiplies individual reward — the more the network stakes, the more everyone earns.

GOVERNANCE TREASURY

300,000 WTC

wtc1qcfrnhn0mh0wmrq0q5dyku0z55q8kwdx2dt6etw

300,000 WTC reserved for the Wattcoin DAO governance treasury, controlled by Vortex NFT holders through on-chain governance proposals. Funds protocol development, security research, audits, and long-term ecosystem growth. Allocations are on-chain and auditable by anyone at any time. Treasury transfers require a simple majority vote of distributed NFT voting power. Each transfer is limited to 50,000 WTC maximum with a 10,000 WTC minimum reserve enforced at the protocol level—the governance wallet private key cannot bypass governance; only a passed on-chain proposal authorizes movement of funds.

WATTCOIN FOUNDATION — VERSION 1.0.284 — MAY 2026

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Roadmap

Four phases from launch to a full-stack energy-backed monetary system. Each phase is anchored to verifiable on-chain milestones, not promises. Phase 1 now includes the Vortex hydro turbine initiative — Wattcoin’s first real-world physical energy asset.

PHASE 1 — LIVE NOW

Launch & Sale

- Mainnet live — P2P network operational
- Wattcoin Miner for Windows (v1.x)
- Public sale open — 333,333 WTC across 3 tiers
- Staking live — 166,667 WTC reward pool active
- Built-in wallet, explorer, buy & stake interface
- On-chain governance — Vortex NFT holders propose and vote on PIPs
- Foundation seed peer infrastructure
- **Vortex Hydro Turbine** — land acquisition & project coordination begins after Tier 1 close

PHASE 2 — GROWTH

Network Expansion

- Linux miner build
- Public block explorer website (no app install required)
- First independent protocol security audit
- Staking dashboard & real-time APY tracker
- Foundation transparency report — on-chain genesis wallet audit
- **Vortex Turbine construction** — begins upon receipt of all required permits
- Live turbine metering integrated into Wattcoin Miner app
- Early Adopter Energy Pool distributions go live

PHASE 3 — ECOSYSTEM

Broad Adoption

- macOS miner build
- CEX listing outreach (tier-1 exchange targets)
- Mobile view-only wallet (iOS & Android)
- Hardware vendor certification — official η values
- Cross-chain bridge — ERC-20 ↔ native WTC
- On-chain PIP governance signalling

Energy-Backed Monetary Layer

- Smart contract / scripting layer for conditional transfers
- **WTD WattDollar** — stablecoin collateralised by locked WTC
- WTC as on-chain collateral for DeFi protocols
- Layer-2 micropayment channels (energy metering, IoT settlements)
- Annual Foundation transparency reports — on-chain reserve disclosures

WTD WATtdollar — PHASE 4 PREVIEW

WattDollar is a planned dollar-pegged stablecoin backed by WTC collateral locked on-chain. Because every WTC has a verifiable, non-negotiable energy cost floor, WTD inherits real-world energy backing — a stablecoin whose collateral cannot be printed into existence.

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Governance

Wattcoin governance is powered by **Vortex NFT holders**. Acquiring a Vortex NFT grants you access to on-chain governance — the ability to submit Protocol Improvement Proposals (PIPs) and vote on protocol changes. Voting power mirrors profit-share allocation: **Gold** (5 votes), **Silver** (3 votes), **Bronze** (1 vote). An NFT that earns more, decides more. NFT holders also control the 300,000 WTC governance treasury — any holder can propose a treasury transfer, and if it passes a simple majority vote of distributed NFT voting power, the transfer executes automatically at the protocol level without a central authority. The core economic rules — energy per coin, block rewards, and total supply — are protected constants enforced by the protocol itself.

Upgrade Process

01

PROPOSAL (PIP)

Any Vortex NFT holder submits a Protocol Improvement Proposal (PIP) via the Governance tab in the Wattcoin Miner app. The proposer sets both the public comment period (1–4 weeks) and the voting period (2–10 weeks). Proposals that reference changing the 21M hard cap, energy law, or genesis allocation are automatically rejected by the protocol.

02

PUBLIC COMMENT PERIOD

The proposal enters a public comment period of the proposer's chosen duration (default 2 weeks). During this period the proposal is visible to all NFT holders, but voting is locked. Community members discuss the proposal through off-chain channels. The comment period ensures every proposal receives adequate review before voting begins.

03

VOTING

Once the comment period expires, voting opens automatically. Each Vortex NFT holder votes with weighted power matching their profit-share tier: Gold 5 votes, Silver 3 votes, Bronze 1 vote. Multiple NFTs do not stack — only the highest-tier NFT in a wallet determines voting power. Votes can be changed during the voting window. The pass threshold is a simple majority (>50%) of the currently distributed NFT voting power. If only one Bronze NFT (1 vote) is in community hands, the threshold is 1; when all 60 NFTs are distributed (140 votes), it reaches 71. The threshold adjusts automatically as NFTs leave the Foundation Reserve wallet.

04

AUTOMATIC RESULT & ON-CHAIN RECORDING

When the pass threshold is reached or the voting period expires, the outcome is determined automatically. A **governance_result** transaction is signed and submitted to the mempool, then mined into a block — making the outcome immutable on-chain. The result is visible in every node's block explorer. For governance treasury transfer proposals, the transfer transaction is submitted to the mempool immediately when quorum is reached and authorized at the consensus level against the passed proposal — the governance wallet private

key cannot bypass governance. No Foundation gate, no manual step — the protocol executes governance autonomously.

Immutable Principles — What Governance Cannot Change

The following principles are enforced at the protocol level. Any proposal whose title or description references changing them is automatically rejected at submission — no vote ever occurs. These are not social conventions; they are hard-coded constraints in the governance system itself.

HARD CAP — 21,000,000 WTC

The total supply cap is inviolable. Proposals referencing raising, removing, or diluting the cap are automatically rejected. No governance process can authorise additional minting or inflation.

ENERGY LAW — 20 kWh/COIN FLOOR, HALVING SCHEDULE, 10 MWh/BLOCK

The Tier 1 energy floor (20 kWh/coin), the tier ratchet (doubling each tier), and the per-block energy constant (10 MWh) define the economic core. Proposals mentioning changes to energy per coin, block rewards, or the halving schedule are automatically rejected.

TIER STRUCTURE — 21 TIERS, 1,000,000 COINS EACH

The 21-tier structure with 1,000,000 coins per tier is a protocol constant. Proposals to add, remove, or merge tiers are automatically rejected.

CONSENSUS MECHANISM — PROOF-OF-ENERGY

Proof-of-Energy is the fundamental consensus mechanism. Proposals to switch to proof-of-stake, proof-of-work, or any other consensus model are automatically rejected. The energy-backed model is not negotiable.

PROPORTIONAL BLOCK REWARDS

Block rewards must remain proportional to verified energy contribution. Proposals introducing lottery, winner-takes-all, or mining-pool-based reward models are automatically rejected.

GENESIS ALLOCATION

All genesis allocations are visible on the public chain and are immutable. Proposals referencing reallocation, clawback, or modification of genesis wallet distributions are automatically rejected.

NFT COLLECTION — 60 NFTS, 140 PROFIT SHARES

The 60-NFT Vortex collection is sealed at genesis. Proposals to mint additional NFTs, increase the collection size, or alter the 140 total profit share count are automatically rejected.

NFT VOTING WEIGHTS — GOLD 5, SILVER 3, BRONZE 1

NFT voting weights are tied to profit-share tiers. Proposals to change, equalise, or remove weighted voting are automatically rejected.

GOVERNANCE THRESHOLD — MAJORITY OF DISTRIBUTED VOTES

The pass threshold is calculated as a simple majority of the voting power held by genuinely distributed NFT holders (non-Foundation wallets): $\text{floor}(\text{distributedPower} / 2) + 1$. Proposals to raise, lower, or bypass the quorum requirement are automatically rejected.

NFT GATED

Only wallets holding at least one Vortex NFT can submit proposals or vote. Voting power is determined by the highest-tier NFT in the wallet and verified against the on-chain NFT store at the time of each vote. Self-reported power is never trusted.

P2P GOVERNANCE SYNC

Proposals and votes are distributed across the network via peer-to-peer gossip. NFT-holding nodes periodically pull governance snapshots from their peers, merge new proposals and votes, and verify cryptographic signatures. Non-NFT nodes never receive governance data.

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Network & Seed Peers

The Wattcoin blockchain runs on a peer-to-peer network of full nodes. Every Wattcoin Miner installation holds a complete copy of the chain, validates all blocks independently, and participates in consensus. There are no trusted intermediaries — the network is the ledger.

Bootstrap Process

On first launch, a new node connects to the network via Foundation-operated seed peers. These are permanent, high-availability nodes whose addresses are bundled into every Wattcoin Miner release.

01

SEED CONNECTION

The node contacts bundled seed peers and downloads the current chain tip, peer directory, and network parameters.

02

PEER EXCHANGE

Connected peers share their own peer directories. Within seconds the node learns about dozens of active participants and selects the highest-quality connections.

03

LAN DISCOVERY

On local networks, nodes broadcast UDP multicast beacons so nearby miners discover each other automatically — no internet connection required for local network mining.

04

PEER CACHING

Known peers are cached locally. After the first connection, the node reconnects instantly on restart without contacting seed peers again — the network is fully self-sustaining.

Network Properties

FULL NODES ONLY

Every Wattcoin Miner is a full node. All participants validate the complete chain history independently — there are no lightweight clients or trusted validators.

SEED INDEPENDENCE

Seed peers are a bootstrapping convenience, not a dependency. Once peer caches are populated, the network operates entirely peer-to-peer. The network continues to function even if all Foundation seed nodes go offline, provided the wider peer network remains active.

NAT & REVERSE TUNNEL SUPPORT

Nodes behind NAT firewalls participate fully using built-in reverse tunnel support, ensuring home miners are first-class network citizens regardless of their internet configuration.

PROOF-OF-REACHABILITY

Peers are continuously probed for reachability. Unreachable peers are removed from the active set and automatically rediscovered when they return online.

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Download

The Wattcoin Miner app is the all-in-one tool for mining WTC, buying from the public sale, staking, and exploring the blockchain. Available for Windows.

WINDOWS

Wattcoin Miner v1.0.284

Installer (.exe) — Windows 10 / 11 — x64

[↓ Download for Windows](#)

WHITEPAPER

Wattcoin Whitepaper v1.0.284

PDF — 579 KB — 21 pages

[↓ Download PDF](#)

WHAT'S INCLUDED

- WTC Wallet & Address
- Mining Engine (CPU / GPU)
- Built-in Buy Tab (USDC)
- Staking Interface
- Blockchain Explorer
- Live Network Stats

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