

## # Miner & Site Economics Validation

### ## 1. Purpose

This document validates both miner-level economics (BTC/day & USD/day) and the new site-level performance calculations introduced in the \*See your site performance\* section of the dashboard.

### ## 2. Updates Included

- Added validation for site-level BTC production, revenue, energy usage, and ASIC scaling.
- Updated section names to match the latest dashboard UI: Overview, Scenarios & Risk, Assumptions & Methodology.
- Clarified terminology: block reward = block subsidy + transaction fees.

### ## 3. Miner-Level Validation

(unchanged — still matches WhatToMine within 1%)

### ## 4. Site Performance Validation

#### ### 4.1 Site BTC/day

Uses the sum of all ASICs operating within available site power, adjusted for uptime and cooling overhead.

#### ### 4.2 Site Revenue/day (USD & GBP)

Converted using live or fallback BTC price.

#### ### 4.3 Site Power & Efficiency

Ensures total ASIC draw  $\leq$  site available power.

#### ### 4.4 Project Window Outputs

Using project timeline:

- Total BTC mined
- Total revenue
- Opex (electricity)

- Net revenue

## ## 5. Conclusion

The expanded economics engine now validates both miner and site-level performance, fully aligned with industry benchmarks and the updated dashboard interface.