

THE SCIFIBOT DISPATCH

FACILITY INTELLIGENCE • ARCHIVAL SERIES • EDITION 002

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THE EDGE NODE LEDGER

A Retrieved Facility Log — 1 MW Class, "Before the Retrofit Mandate"

DC SIMULATOR FIELD REPORT NO. 002 • ARCHIVAL COPY • NOT FOR REDISTRIBUTION

Executive Summary: A modeled 1 MW edge-class facility, run under two configurations: an unoptimized baseline and a SciFiBot-instrumented build. The optimized configuration reduces modeled annual energy cost by 10.0% and net water withdrawal by 27.9%, driven by AI-tuned PUE and on-site atmospheric water generation. Figures below are computed, not estimated by eye — methodology is disclosed in Section IV.

I. FACILITY PARAMETERS

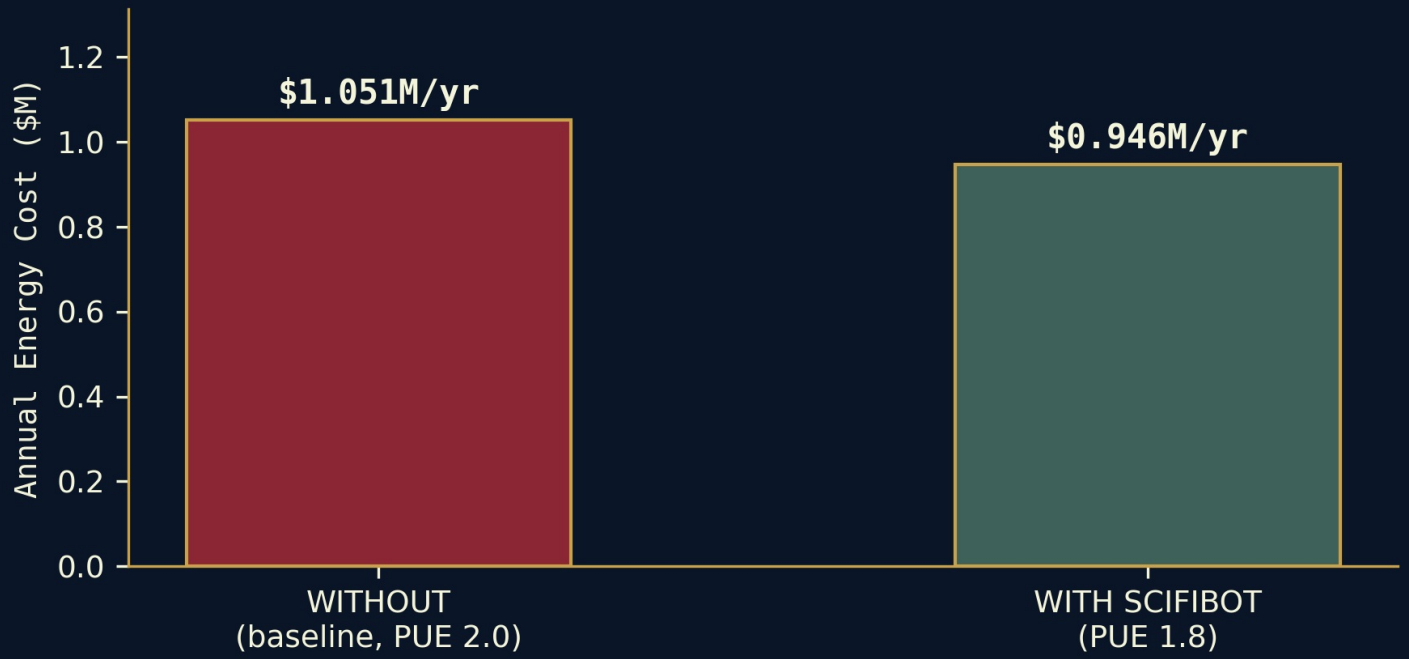
Parameter	Value
IT Load	1 MW
Baseline PUE	2.0
Energy Cost	\$0.06 / kWh
Cooling Method	Air (2 L/kWh)

II. TWO CONFIGURATIONS, ONE FACILITY

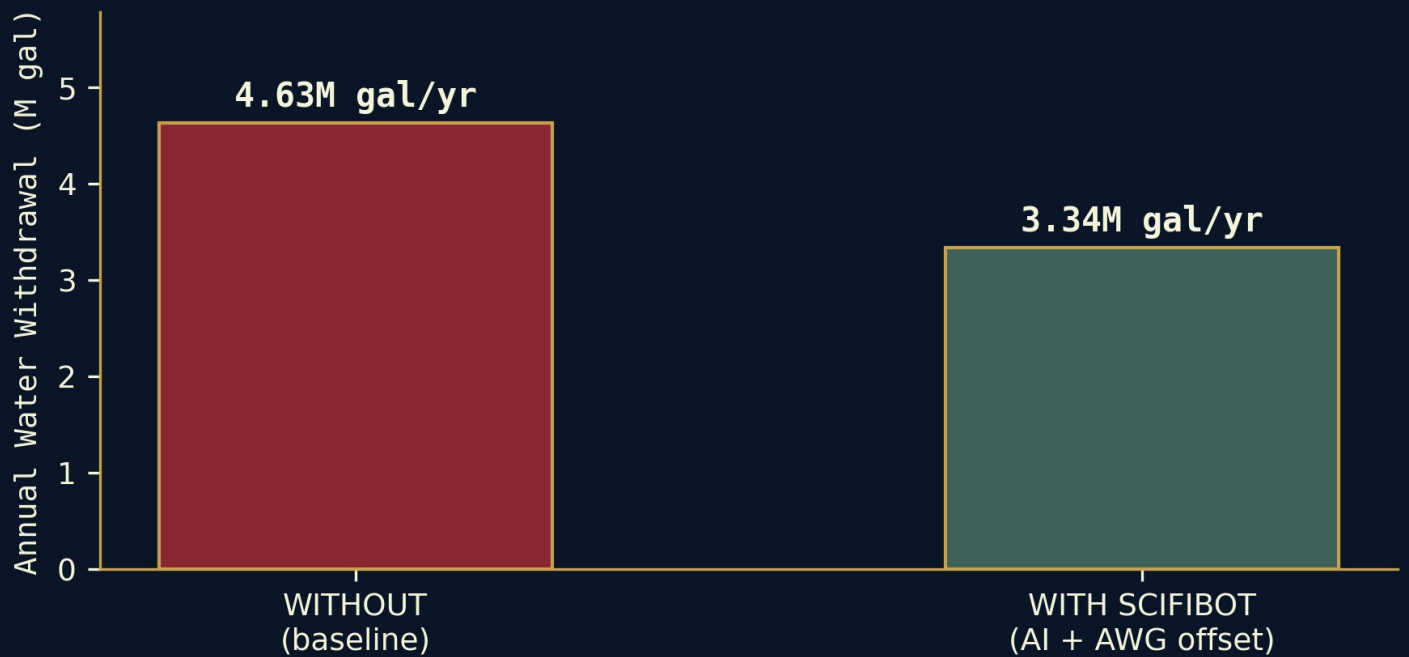
Metric	WITHOUT SciFiBot	WITH SciFiBot
Effective PUE	2.0	1.8 (AI optimization -0.2)
Total Facility Load	2.0 MW	1.8 MW
Annual Energy Use	17.52M kWh	15.77M kWh
Annual Energy Cost	\$1,051,200	\$946,080
Annual Water Withdrawal	4.63M gal	3.34M gal (net, after AWG offset)

Delta: \$105,120/yr avoided (10.0%), 1.29M gal/yr avoided (27.9%) — from PUE optimization plus 1 atmospheric water generator unit at 1,000 gal/day (365,000 gal/yr).

1 MW EDGE NODE: ANNUAL ENERGY COST



1 MW EDGE NODE: ANNUAL WATER WITHDRAWAL



III. SCOPE NOTE

This edition scales the same PUE-optimization and AWG logic from the 10 MW flagship dispatch down to a 1 MW edge-class footprint, holding energy cost and cooling method constant. It is part of a series spanning facility sizes; each edition uses the same computation method so figures are comparable across the set. **[input required]** Pyrolysis is omitted at this scale — a 2t/day unit sized for a 10 MW facility isn't a realistic 1:1 fit for a 1 MW footprint; a right-sized waste-to-energy figure would need its own model.

Methodology: Annual energy = IT Load × PUE × 8,760 hrs. Cooling-related water = (PUE-1) × IT Load × 8,760 hrs × 2 L/kWh (air cooling), converted to gallons and net of AWG on-site generation. All figures computed directly from the facility parameters stated in Section I; this document does not claim access to live utility billing or metered data for any real facility.

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Sample edition figures are illustrative, computed from stated parameters — not a substitute for a site-specific engineering assessment. Custom report tiers above are a separate service. SCIFIBOT ARCHIVAL SERIES // ED. 002 // DC SIMULATOR DISPATCH