SimpleActions
Cut utility waste. Increase property profit.

CUSTOMER OUTCOME | CASE STUDY

CASE STUDY 06 · MISSION-CRITICAL DATA CENTER

A Tier-III colo lifted facility power factor from 0.70 to 0.98 on its cooling loads.

Cooling is the second-largest line item on a colocation bill after IT load — and it's dominated by inductive motor loads. The Carrier rooftop unit moved from **0.64 to 0.98 PF** with amperage down 38%; the Robur DDC chiller cut 24%.

FACILITY POWER FACTOR

0.70 → 0.98

Total facility system — cleaner power, lower demand fees, longer mechanical equipment life.

CARRIER HVAC AMPERAGE

−38%

Average amperage per leg fell from 5.06 A to 3.16 A; the Robur DDC chiller dropped 24%.

FACILITY	ASSETS	DEVICE	BASELINE PF	VERIFICATION
Texas Tier-III colocation	Carrier rooftop HVAC, Robur DDC chiller	Total facility system	≈ 0.70	Facilities-team witnessed

KEY MEASUREMENTS — FIELD-VERIFIED RESULTS

FACILITY POWER FACTOR

BEFORE **0.70** → AFTER **0.98**

Facility-wide average, modeled from the measured load set.

PF LIFT

HVAC AMPERAGE

−38%
Carrier rooftop (5.06 → 3.16 A)

−24%
Robur DDC chiller

Carrier unit PF: 0.64 → 0.98.

What Changed

Cooling is the inductive heart of a data center's non-IT load — exactly what EnePro is built for. Measuring at each unit and rolling up to the facility, **average power factor moved from ~0.70 to 0.98**: cleaner power, lower demand fees, and longer life on the equipment that keeps the floor cool.

> **HOW IT WAS MEASURED**
>
> Equipment-level power factor and amperage were measured on representative HVAC loads; facility-wide PF was modeled from the aggregate measurement set, witnessed by the data center's facilities team.

COOLING-LOAD IMPACT

0.98

— facility power factor, up from a ~0.70 baseline.

Facility PF	0.70 → 0.98
Carrier HVAC amperage	−38%
Robur DDC amperage	−24%
Carrier rooftop PF	**0.64 → 0.98**

"Cooling is our second-biggest line item after the servers — cleaning up its power factor moved real money."

REPRESENTATIVE OUTCOME · DATA CENTER · NAME REDACTED UNDER NDA