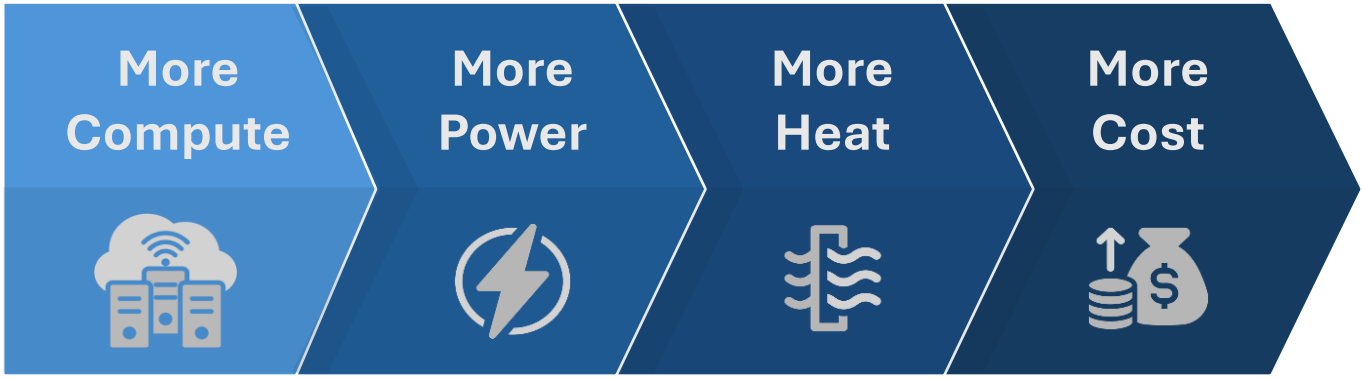
METIS POWER

DATA CENTER
Power & Cooling

Redefining Efficiency

The modern digital world is built on a foundation of data centers, facilities that face two relentless and often conflicting demands: the need for constant, mission-critical power and the simultaneous need for massive, continuous cooling. This duality creates a powerful and costly "vicious cycle" that defines the operational landscape for nearly every data center operator today.

The Unavoidable Cost Equation

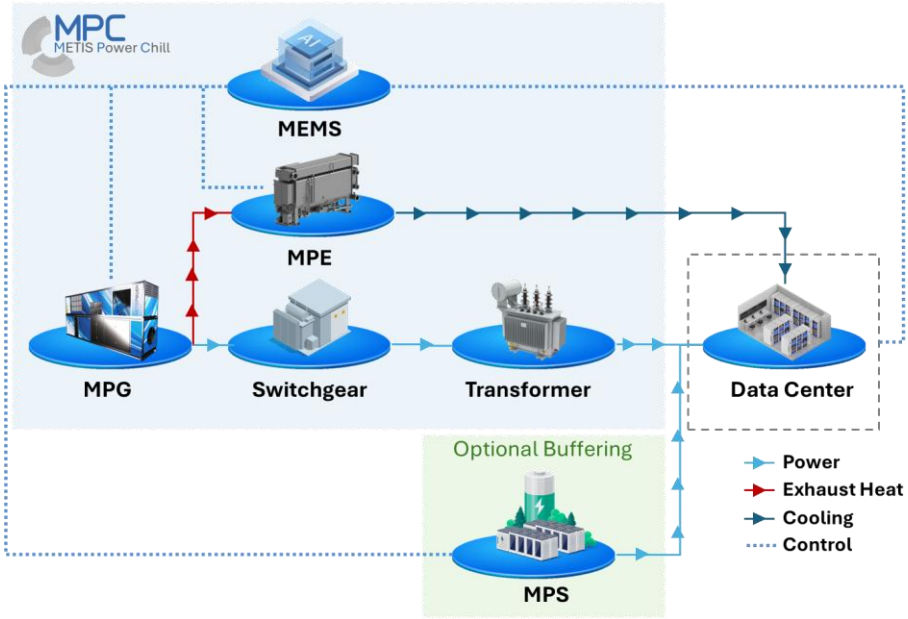


This is where the cycle becomes truly inefficient. In a typical data center, the cooling system can account for up to 40% of the facility's total electricity consumption. You are effectively paying twice: once for the electricity to run your servers, and again for a massive amount of electricity to combat the heat those very servers produce. This drives up your Power Usage Effectiveness (PUE) and inflates your single largest operational expenditure: your energy bill.

Compounding the Challenge

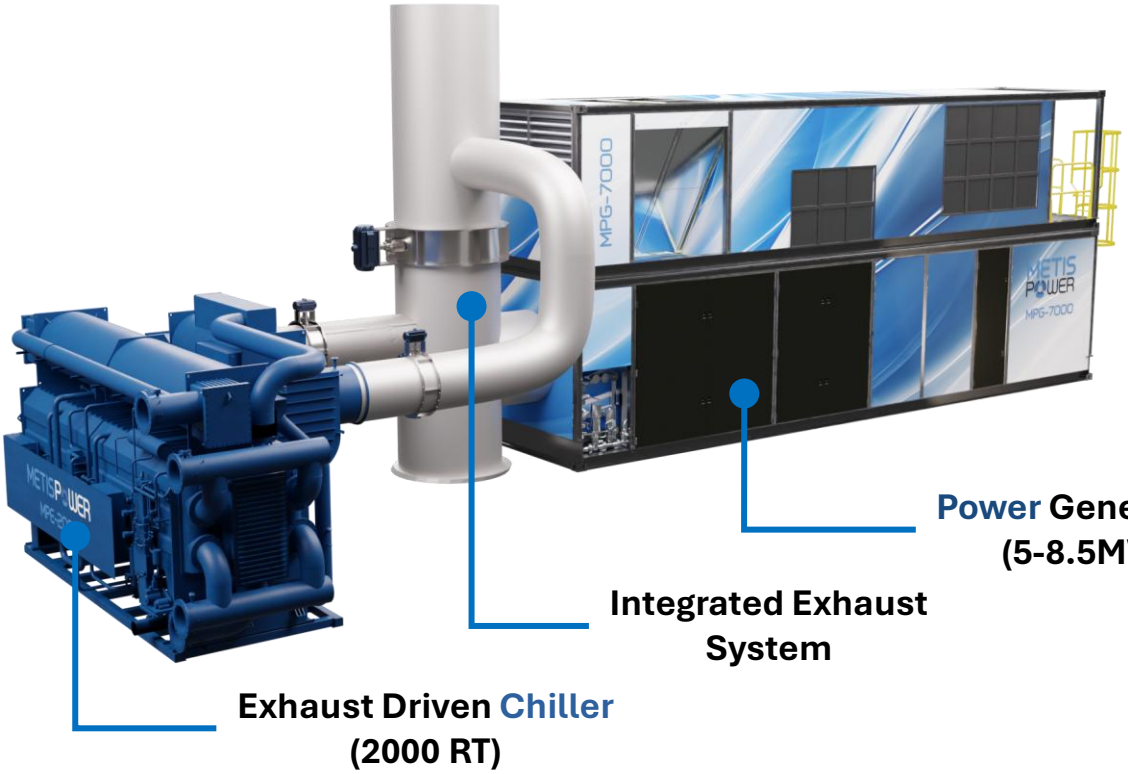
This fundamental inefficiency is magnified by other critical industry pressures:

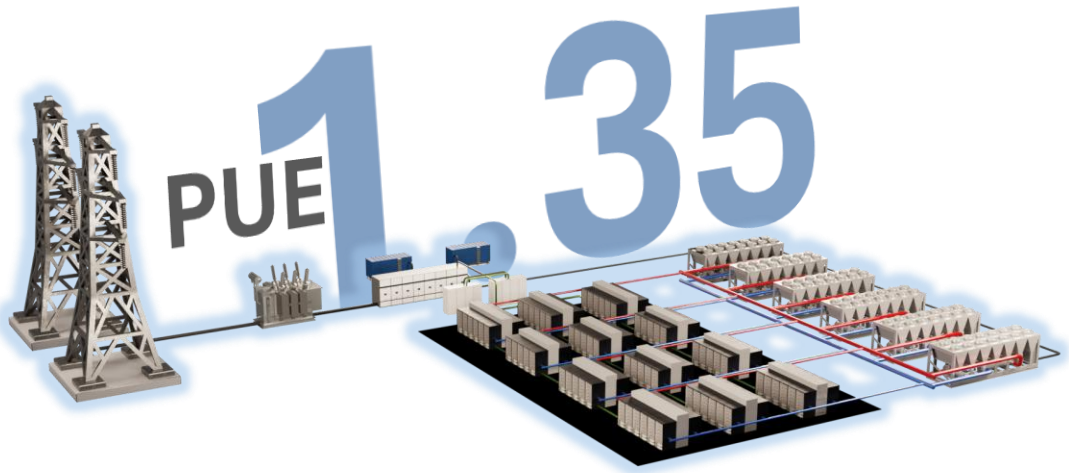
- Grid Dependency and Volatility: Relying on the grid exposes your mission-critical facility to price spikes, demand charges, and the ever-present risk of outages that can cost millions in downtime.
- Environmental and ESG Scrutiny: Stakeholders, customers, and regulators are demanding greater sustainability. A high PUE is not just economically inefficient; it represents a significant and increasingly scrutinized carbon footprint.
- The Flaw of Siloed Design: The root of the problem is treating power and cooling as two separate, unrelated systems. This siloed approach inherently wastes the single largest untapped energy source in the entire facility: the waste heat from power generation itself.



Our solution breaks the cycle of inefficiency by converting wasted exhaust heat into your most critical asset: cooling power. This integrated system pairs a extra low-emission gas turbine with an advanced exhaust-driven chiller, creating a unified power and cooling core for your data center.

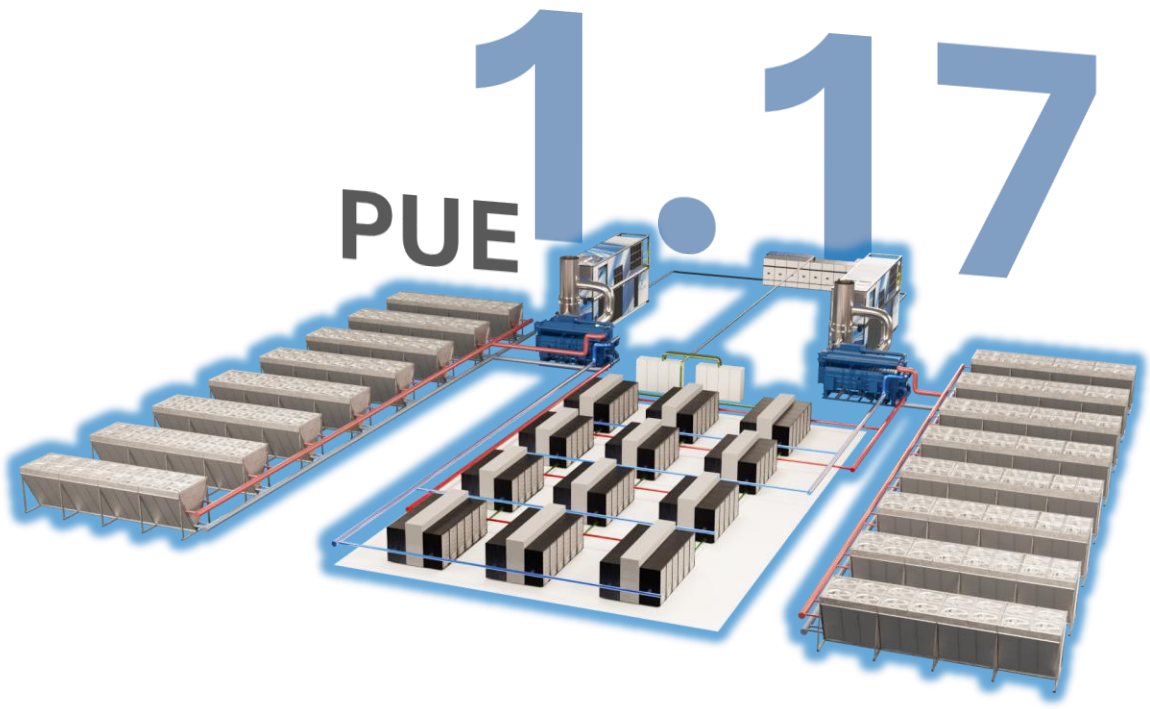
The impact is transformative. Achieve industry-leading PUE, fortify mission-critical uptime, and fundamentally lower your operational expenditures. This is not an incremental improvement—it is the new standard for efficient data center infrastructure.

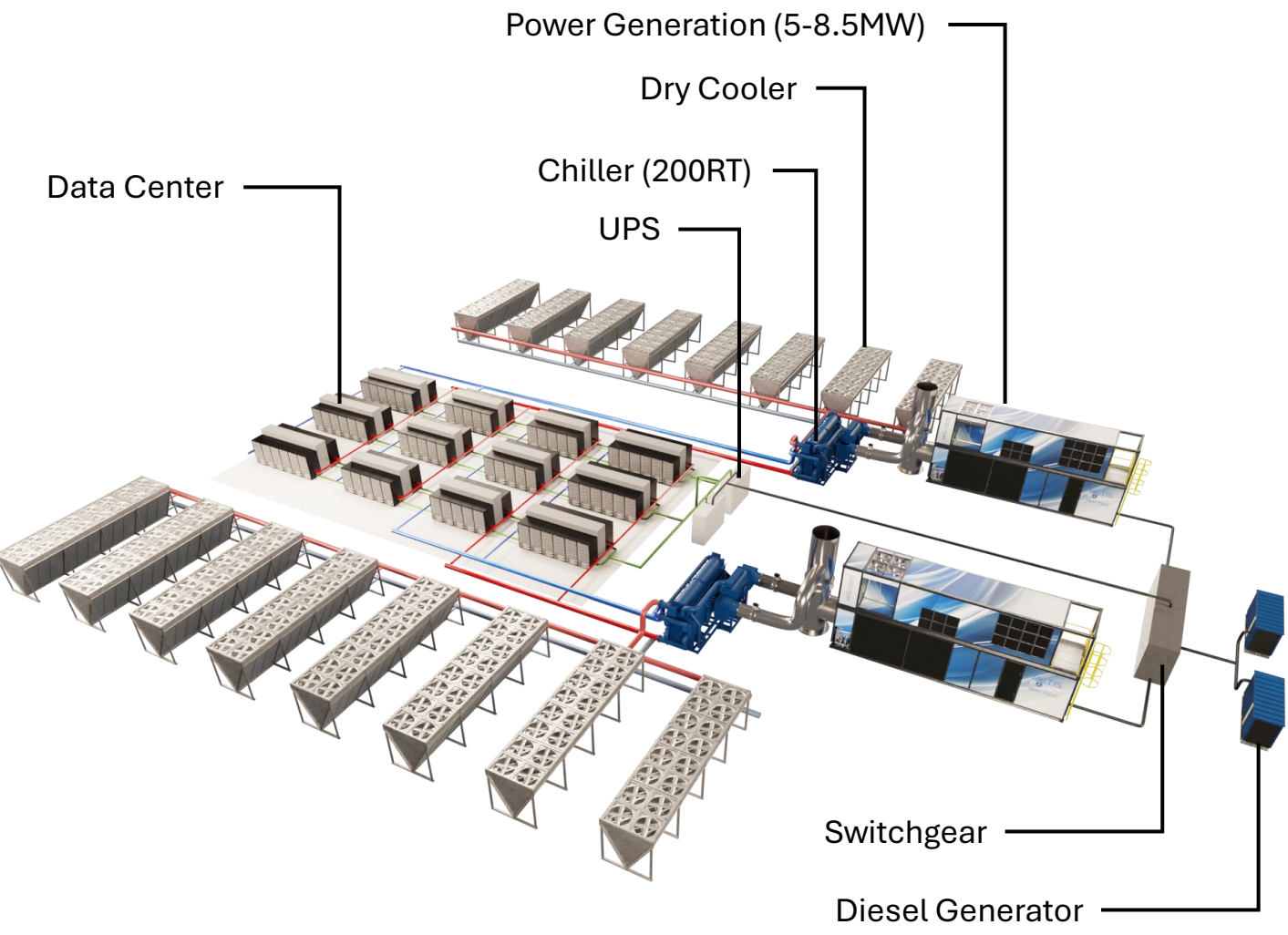




17,520,000 kWh/year Savings

Per 10MW IT Load





Engineered for Performance & Scale

Specification	MetisPowerChill
Power Module	MPG7000
Net Electrical Output (ISO)	7.8MW
Cooling Module	MPE2000
Nominal Cooling Capacity	2000 RT

Ambient Temperature	Overall System Efficiency	PUE
105°F	50.1%	1.17
95°F	51.3%	1.18
85°F	53.9%	1.15

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Powering What's Next...