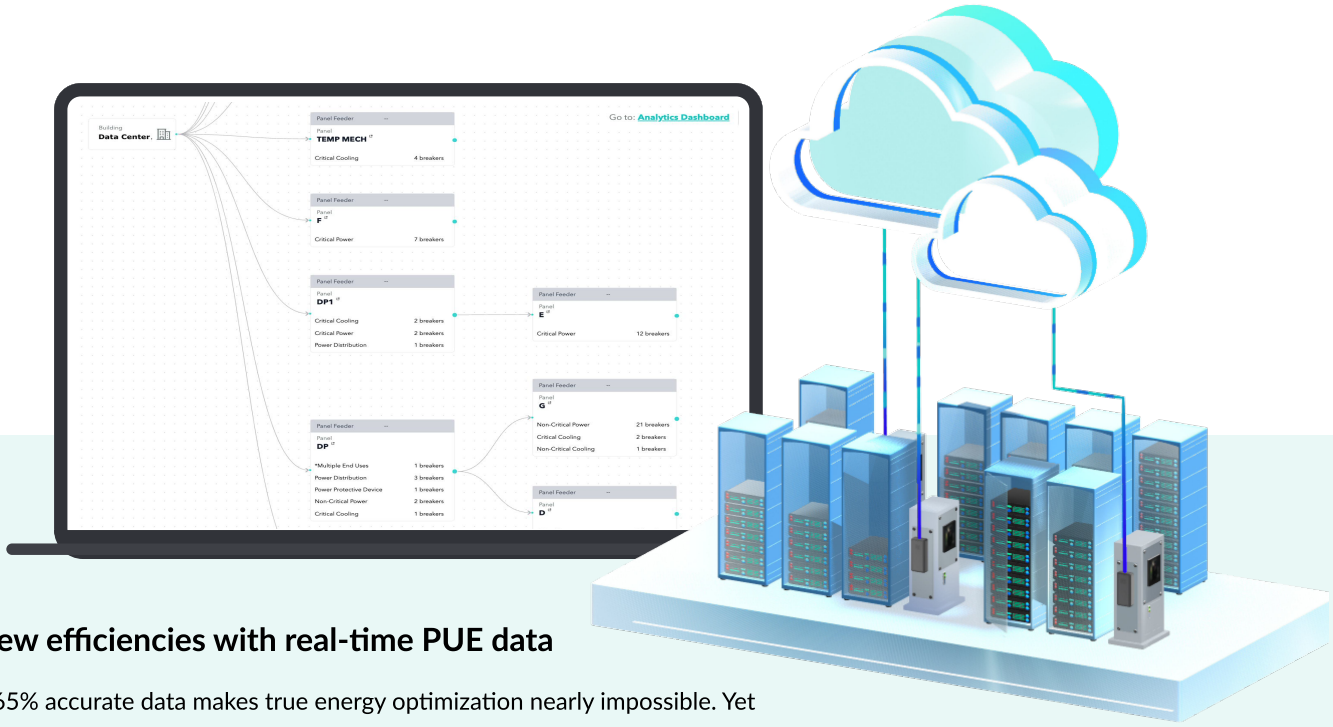
VERDIGRIS

# Maximize Data Center Efficiency

## with Real-Time PUE Optimization




### Unlock new efficiencies with real-time PUE data

Settling for 65% accurate data makes true energy optimization nearly impossible. Yet that's what legacy building systems provide, thanks to sluggish BACnet BMS integrations and manual troubleshooting. Without dynamic streaming data and AI-assisted cleaning and correction, energy data is only good for compliance and billing—not optimization or business planning.

As a result, data centers have not had the ability to run their infrastructure at optimal efficiencies. Most facilities operate below their designed power usage effectiveness (PUE), leaving hundreds of thousands of dollars on the table annually, especially in cooling systems.

**Verdigris' automated PUE optimization can change that.**

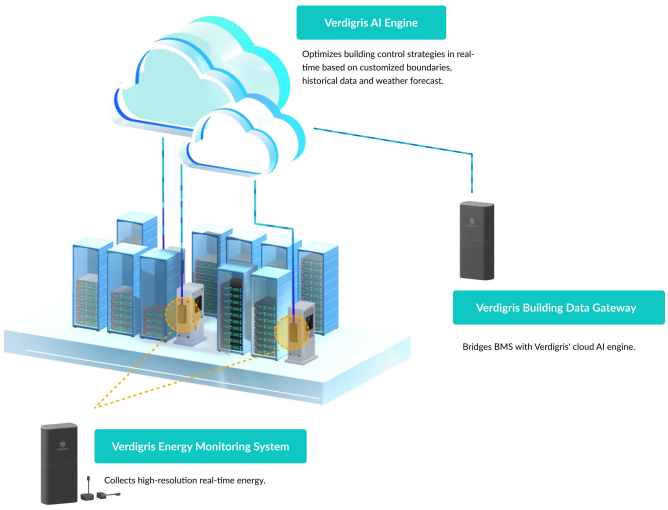
| Up to 35% | $30k/yr/MW | $300k/yr |
|---|---|---|
| *reduction in energy use for central-air, water-cooled systems; 10% for CRAC systems* | *saved per 0.1 improvement in PUE* | *savings in a 10MW data center* |

(844) 838-3447 www.verdigris.co sales@verdigris.co

## Real-Time PUE Tracking

Track the actual PUE for the rack, the room and the facility in real time, with 99%+ accuracy. Verdigris identifies inefficiencies from cooling misalignments, power distribution losses, power quality dips, and equipment issues in real-time—enabling smarter decisions for managing server loads and cooling.

Static, on-premise energy monitoring systems can't keep up with the complex demands of GPU-intensive environments. Verdigris' advanced sensors and cloud data management deliver the insights you need to identify performance gaps and optimize in real time.

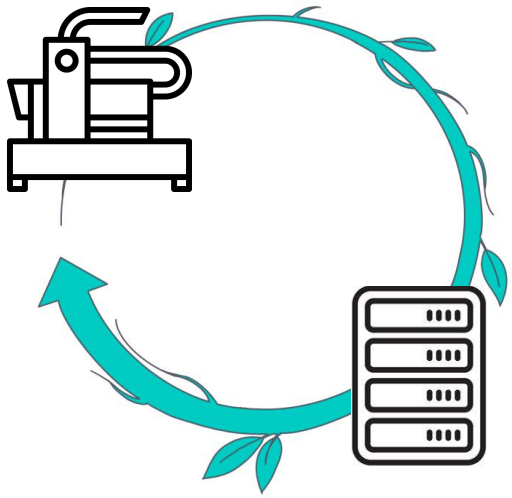



## AI-Assisted Automation for Continuous Optimization

Energy needs in data centers fluctuate throughout the day, and manual adjustments almost always lead to overcooling and wasted energy. Verdigris Adaptive Automation transforms your power and cooling systems into a responsive, self-adjusting ecosystem.

By synchronizing power delivery and cooling with real-time IT loads, you ensure systems only use the energy they need. This dynamic, AI-assisted adjustment creates a continuous optimization loop, maximizing efficiency without compromising performance, even during fluctuating workloads.

## HVAC Optimization for IT Load Alignment

Cooling systems are one of the largest consumers of non-IT energy in a data center, and when misaligned with actual IT needs, it can lead to overuse, strain on IT equipment, and energy losses.

Verdigris' real-time monitoring continuously analyzes cooling performance in relation to IT workloads, targeting specific hotspots and avoiding overcooling elsewhere. This real-time alignment means your cooling systems only work where and when needed—cutting non-IT energy use and improving PUE across the facility.