



MISSION CRITICAL
**WE DESIGN GREEN
DATA CENTERS**

TCO ANALYSIS | PUE/WUE OPTIMIZATION | MASTER PLANNING
ENERGY MODELING | COMMISSIONING | ASSESSMENTS



Electrical Room & Switchgear Lineup | Client: Oracle

MISSION CRITICAL AT GLUMAC

WE SPECIALIZE IN COST-EFFECTIVE, SUSTAINABLE MEP DESIGN OF MISSION CRITICAL FACILITIES WORLDWIDE.

With nine offices located in the U.S. and our tenth in Shanghai, we are well positioned to serve our clients globally. Our mission is to create green buildings that work. Our services include mechanical, electrical and plumbing (MEP) consulting engineering, commissioning, CFD modeling, energy modeling services and 3D BIM modeling.

What makes Glumac different is our innovative approach to designing data centers that fully optimize the resources locally available. Our solutions lead the industry by aggressively optimizing data center PUE and WUE. Working for clients to bring energy and cost efficiency is a core driver for our talented team of mission critical thought leaders, project managers, and engineers. We have deep experience in enterprise, colocation and internet data center markets.

OUR SERVICES

CONSULTING

- Site Selection Services
- Master Planning
- Energy Efficiency Assessments
- Tier/Reliability Assessments
- Pre-Lease Review
- Feasibility Studies
- Total Cost of Ownership Analysis
- PUE/WUE Optimization

ENGINEERING

- Mechanical
- Electrical
- Plumbing
- Fire Protection and Life Safety
- RCDD
- Lighting
- Building Automation Design

COMMISSIONING

- QA/QC
- Schedule Coordination
- Start Up Acceptance Testing
- Functional Performance Testing
- Integrated Systems Testing

OUR APPROACH

Glumac's deepest core value is sustainable designs and in the data center this translates to energy efficiency.

Mechanically and electrically, we are thought leaders. We work with equipment manufactures to innovate systems that don't yet exist; we work with them to improve existing equipment offerings. We remain at the forefront of designing innovative data centers. We use design concepts that greatly minimize electrical system losses and maximize an environment's ability to provide free cooling.

SOLUTIONS WE BRING TO THE TABLE

- Water-side Economization
- Air-Side Economization
- Indirect/Direct Evaporative Cooling
- Geothermal Cooling
- Solar Power
- Wind Turbines
- Heat Recovery
- Forced Ventilation
- Medium Voltage to Servers
- Alternate Distribution Topologies
- Flywheel UPS Technology
- Efficient Transformers

Glumac provides sustainable design alternatives for water efficiency, energy efficiency and construction techniques and materials that help to minimize impact on the environment.

Bus Rail in Hot Aisle



Power Raceway



Rooftop Indirect Evaporative AHUs



300+
MISSION
CRITICAL
FACILITIES

20+
EXPERIENCED
MISSION CRITICAL
PROFESSIONALS

GLUMAC DESIGNS
HAVE PRODUCED
PUEs AS LOW AS
1.10

10
OFFICES
9 IN THE US
1 IN SHANGHAI