



LEADING EDGE DESIGN GROUP

DATA CENTER SOLUTIONS

Reduce **energy** consumption and cut **costs**, improve **scalability**, increase **performance**, and meet **cooling and power** requirements.

Next-Generation Data Center Solutions

Innovative, Integrated Design

The new data center is sustainable, virtualized, integrated. It is a place where information technology, physical infrastructure, business processes, and security converge. The new data center is dynamic, constantly evolving, and Leading Edge Design Group (LEDG) is uniquely equipped to support the challenges of a next generation data center design. Our diverse team of information technology professionals, engineers, architects, and construction managers bring cross-functional expertise to each design effort, helping create data center environments that maximize efficiency and reliability.

Our solutions team specializes in upgrading existing, operational data centers. Our renovation designs minimize downtime and increase efficiency, density, and utilization of existing real estate. For new data center locations, LEDG provides progressive designs that are scalable, sustainable, and cost effective. As a certified Department of Energy Data Center Energy Practitioner (DCEP), our professionals use proven methodologies and tools for all data center design and assessment efforts.

Our customers leverage LEDG partnerships with area utility companies to obtain readily available energy efficiency rebates and financial incentive programs that will help streamline the approval process, improve costs, and increase return-on-investment.

Learn how Leading Edge Design Group can assist with all or part of your sustainable data center design and implementation. Our services include the following:

PLAN	DESIGN	EXECUTE	VALIDATE
Retrofit vs. New Construction	Architectural & Structural	Bid Process Management & Contractor Selection	Commissioning & Testing
Site Selection	Civil & Site	Construction Administration	Risk Assessments
Redundancy & Tier Level	MEP Engineering	Data Center Owners Representation	Operations & Maintenance Planning
LEED Objectives	Telecommunications Infrastructure	Project Management	Thermal Analysis
Energy Efficiency	Fire Suppression	Relocation & Migration Planning	Measurement & Verification
Space & Capacity Planning	Security	LEED Administration	PUE & Energy Use Reporting
Preconstruction Budgeting	CFD Analysis		
Colocation Evaluation	Project Cost Analysis		

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High-Performance Computing Centers

The Leading Edge Design Group designs and builds high-performance computing centers (HPCC) for universities that provide hardware computing resources and support for computationally-intensive, advanced research and engineering departments.

Regulated Environments

The life sciences, financial services, banking industries continue to increase the demands on their data centers with the increasing amounts of government specific regulated data. LEDG works with these industries to make the most of their current real estate and create high-performance, scalable, and sustainable data centers.

Government Facilities

Data centers for state, federal, and military agencies have been supporting the archiving and dissemination of data for decades. Today, the increasing volume of data coupled with new applications make it difficult for public sector data centers to evolve as quickly as needed. LEDG helps government teams use their current infrastructure and limited budgets to create an innovative data center designed for power and growth.

Healthcare

The computing demands in healthcare are increasing at an exponential rate. Leading Edge Design Group partners with hospitals and their IT team to design a cost-effective and sustainable data center to support healthcare information technology, electronic health records, and Meaningful Use requirements.

Manufacturing

Every manufacturing facility is trying to decrease operational costs, increase capacity, and improve profitability without any infrastructure changes. LEDG specializes in the designing next-generation data centers and renovating existing facilities to create a scalable solution that improve reliability, redundancy, and energy-efficiency.

Co-Locations

The professionals at Leading Edge Design Group are experts in energy-efficient data center and co-location facilities. As co-locations struggle to balance the appropriate level of investment in redundancy, efficiency, security, and capacity, LEDG works with executives to create a cost-effective strategy and implementation plan to maintain a competitive advantage in their market.

LEED Certification

The team at Leading Edge Design Group can help all organizations achieve all levels of Leadership in Energy and Environmental design (LEED) Certification for new data center construction or existing data center renovations.

Energy-Efficiency Rebates

LEDG works collaboratively with all utility company representatives to offer customers that best possible energy-efficiency rebate and incentive programs available to them.

