



## What do Microsoft and Facebook know?

### LightEdge Data Center Campus

In November 2012, LightEdge completed the next stage of expansion at its state of the art, fully managed data center facility located outside of the metro Des Moines, IA area in Altoona, IA. LightEdge has plans for additional expansion and can accommodate data center needs up to 20,000 square feet.

Regardless of the configuration, each colocation customer receives industry-leading management practices based upon ISO 20000, PCI-DSS, and HIPAA Compliance with a 24x7 Network Operations Center staffed with engineering professionals.

### Current Colocation Availability

*LightEdge's current Altoona data center is a 2.5 MW capable facility with 3,500 square feet of high density floor space available for immediate move-in. An additional 5,000 square feet with an additional 1MW can be available in less than 5 months as "build to suit" model.*

*Additional private rackspace is available in other LightEdge managed data centers in Des Moines, Kansas City, and Minneapolis. All data centers are interconnected on a private high speed network for transparent replication of data.*

In the past 2 years, Microsoft has built a \$500 million data center facility in West Des Moines and Facebook is building a \$1.5 billion data center in Altoona, Iowa.

Which begs the question, why Iowa?

The Boyd Company has consistently ranked Central Iowa extremely high in the following areas:

- Availability and low cost of power
- Availability and low cost of skilled human resources and the close proximity of colleges and technical trade schools
- Availability and low cost of land, and the relatively low cost of build-out and operation
- Low risk of natural disasters and very low probability of terrorist attacks
- Access to high-bandwidth fiber networks
- Cooperation from local and state governments

For detailed data center specifications, visit:  
<http://www.lightedge.com/datacenters>  
or call 877-771-3343

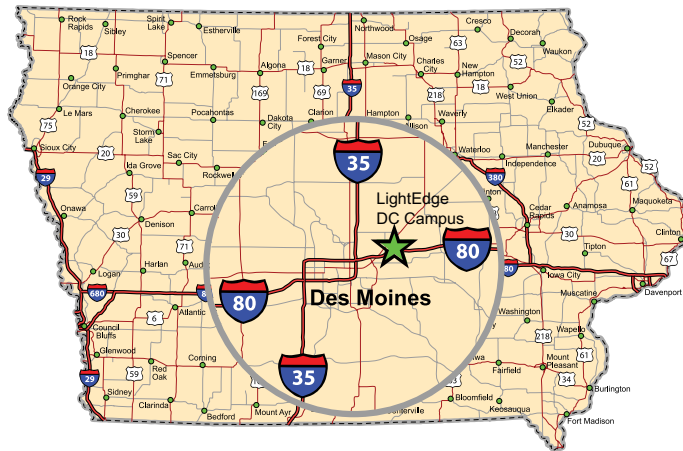
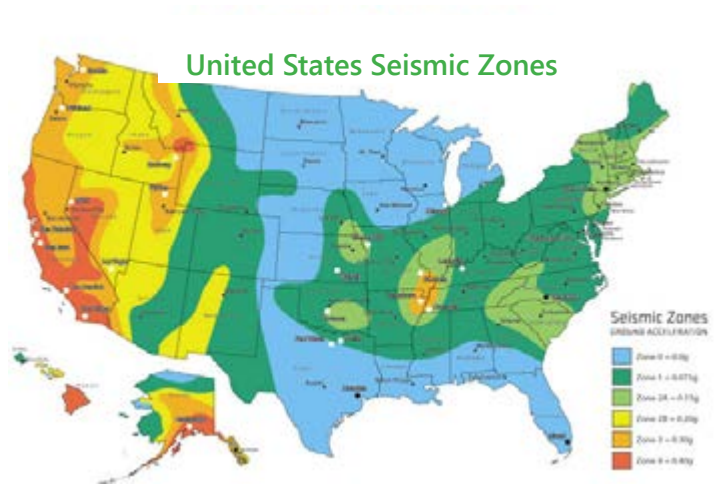
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# LightEdge Data Center Campus

## Risk-free Location

Central Iowa has consistently been ranked as one of the lowest-risk areas for data center placement. Nearly the entire state falls in Seismic Zone "0" and there are no suspected terror threat sites within the state.

LightEdge's data center location is far from active waterways and has been flood free for over 500 years. The facility itself was purpose-built to withstand F4 tornadoes through a combination of physical structure and MEP (Mechanical, Electrical and Plumbing) design considerations that include pre-cast 12 inch concrete walls, a dual membrane roof and extensive water repelling system to counter Iowa's storms.



## Accessible/Available

LightEdge's data center campus is located in what many consider the perfect area in Iowa. The land is near the junction of I-35 and I-80 for convenient driving access from anywhere in the Midwest, but is far enough (12 miles) from the Des Moines Metro area to mitigate the risks of a city environment.

Businesses on the East and West coasts can take advantage of the Des Moines International Airport for 3-4 hours flights from anywhere in the Continental US.

## Power and Labor Costs

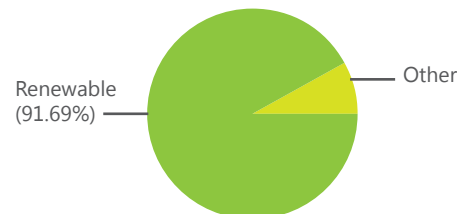
Unlike the coasts, the Midwest and Iowa in particular have become very progressive in both energy production and distribution. Iowa is second in the nation in harnessing Wind energy with over 20% of its energy created through green resources\* and is among the least expensive power in the US.

Sometimes called the "Silicon Prairie", Iowa is rich with a highly educated and skilled technology labor force with that famous "Midwest work ethic" and offers a lower cost of living than areas on the East and West coasts.

\*The Gazette, August 15, 2012

## Iowa Renewable Energy Production

539,707 Billion BTUs



State Rank by Percent Renewable: 11

Source: EIA State Energy Data System



# LightEdge Data Center Specs

## Building Data

- 12" reinforced pre-cast concrete walls with joints reinforced and tested to 200+ MPH winds
- Dry membrane, double concrete roofing system to maximize tear off resistance, no roof penetrations in machine occupied areas
- Four separate modular 5,000 square feet data centers
- Build to suit up to 20,000 square feet of additional data center space on property
- 160' x 160' concrete parking area for up to 9 Mobile Workstation Recovery Trailers (i.e. Sungard Mobile Station Recovery)
- Fire Suppression - FM200 (DC1 and DC2), Dry Pipe (DC3 and DC4)

## Power

- Power Density up to 225 watts/square foot
- Redundant power utility feeds delivered underground to eliminate outages due to wind, snow and ice
- S+1 diversified electrical within the building utilizing five distinct UPS, Generator and ATS systems
- On-site diesel generators (24 hour capacity) with 4.5 MW of on-site power generation capability
- Iowa power costs among the lowest in the nation

## Cooling

- Cooling through packaged HVAC units located at the side of the facility to minimize roof penetrations
- Up to 240 tons of cooling capacity per data center in an N+1 configuration
  - Data Centers 1 and 2 - Hot aisle / Cold aisle design, down-draft cooling
  - Data Centers 3 and 4 - Raised floor
- Future build-outs will take advantage of Iowa's annual 1,100 Cooling Degree Days to lower power costs and offer some of the lowest PUEs in the nation.

# LightEdge Data Center Specs

## Security

- Data center physical security complies with PCI-DSS v2.0, HIPAA / HITECH guidelines and is audited annually using SSAE-16 SOC I Type II
- Bulletproof glass at main entrance, secure check-in desk, Man traps, biometrics and tailgate sensors for all data center entrances
- Closed-circuit TV monitored 24/7/365 with video archiving
- 24x7 manned Network Operations Center with engineering staff performing hourly walk-arounds

## Connectivity

- Carrier Agnostic connectivity through partnerships with:
  - Sprint, CenturyLink, WindStream, Cox, AT&T, Mediacom, TW Telecom, XO Communications, Level 3, INS and Bandwidth.com
- Data Center is located within 1 mile of major telecommunication highway. Dark Fiber and Lit Services are available from a multitude of providers including:
  - Verizon, Sprint, ATT, Century Link, Windstream, Unite, PinPoint, Level 3, Iowa Network Services, Mediacom, US Networks, Cogent and more
- Private fiber services linking LightEdge Data Center to Denver, CO and Chicago, IL (Cermac) for large scale Internet and carrier network integration
- Dual OC-48 SONET rings and flexible private metro Ethernet capability up to 10Gb
- Redundant DWDM Based fiber ring with expansion of up to 400 Gbps of usable bandwidth
- Redundant Cisco-based MPLS Network

## Disaster Recovery Workspace

- LightEdge offers 75 disaster recovery workstations for on-site business continuity activities including options for network availability, PCs and phones

## Cloud Services and Consulting Professional Services

- Colocation customers may take advantage of LightEdge managed cloud IT services to augment their hosted platforms. Cloud Services include:
  - Private and hybrid Cloud Computing, managed storage and backup, managed firewall, and unified communications
- LightEdge engineering staff is able to take shipments, install equipment and act as remote hands
- Each LightEdge data center which hosts LightEdge Cloud Services meets or exceeds the concurrent maintainability requirements of the Tier-3 Update Institutes standards.

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