



## LightEdge Altoona Facility

### LOCAL PEOPLE. LOCAL CLOUD. LOCAL DATA CENTERS.

LightEdge was the first to leverage the outstanding benefits the State of Iowa offers to data center owners and tenants through personal property **exemptions, sales tax credits and refunds** for equipment, peripherals and utility bills. Due to its **central US location** and the untapped land and fiber potential, Altoona, IA was the clear choice for LightEdge's flagship data center.

Our existing 30,000 sq ft, **purpose-built** facility opened in November 2006 on 7.31 acres of land. Since then, Central Iowa has become a hub for data center and technology companies, both within the state and as a premier choice for companies seeking **geo-diversity**.

Based on the terrific growth we've experienced and forecast data center demand, **LightEdge broke ground Q2 2016 on a second data center directly adjacent to our current facility.**

### PHYSICAL LOCATION

#### 1. ACCESSIBLE & AVAILABLE

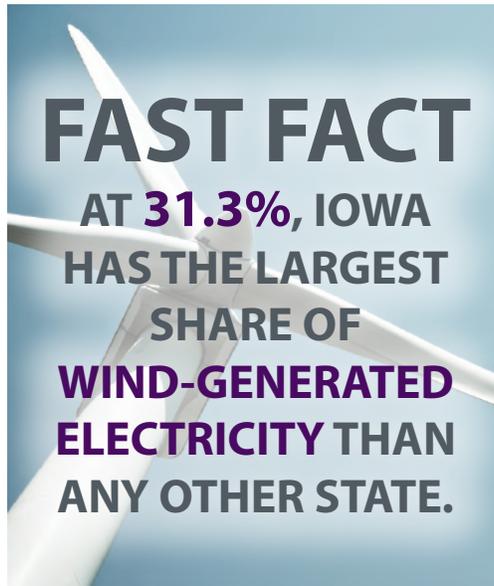
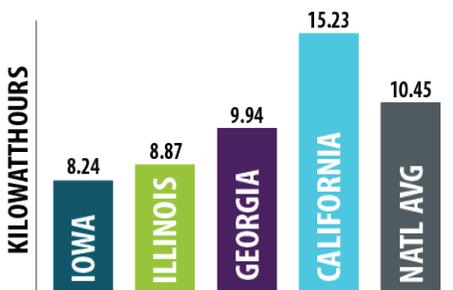
- Convenient access to I-35 & I-80
- 3 hour drive to KC & Minneapolis
- 2 hour drive to Omaha
- 1 hour flight to Chicago & Denver

#### 2. RISK FREE ENVIRONMENT

- Seismic Zone 0
- F4 tornado resistant
- Outside 500 year flood plain
- Not in airport landing path

#### 3. LOW COST, BIG REWARD

ANNUAL AVERAGE ELECTRICITY COST



### BUILDING & EXPANSION

#### 1. PROVEN DESIGN

- 12 in. reinforced pre-cast walls
- 200+ MPH wind-tested joints
- Pillar-supported overhang design
- 2 inverted concrete roofs
- Dry pipe fire suppression
- VESDA

#### 2. FLEXIBILITY TO SCALE

- Building #1 spans 30,000 sq ft
- Broken out into four 5,000 sq ft DCs
- Can handle up to 735kW in each
- Scalable power & cooling that can be dedicated, semi-dedicated or shared

#### 3. WHAT'S TO COME

- Opening Q2 2017
- 73,000 sq ft facility when complete
- 4 separate 10,000 sq ft DCs within
- Meeting rooms & boardroom
- Rack, cage & private suite options

## POWER

### 1. UNINTERRUPTED POWER

- Substation diversity
  - Primary's capacity = 33 MVA
  - Secondary's capacity = 66 MVA
- Underground redundant feeds
- Power diversity up to 225 watts/sq ft
- HVACs support 1200kW per DC
- S+1 diversified electrical:
  - 5 UPS, generators & ATS systems
- On-site diesel generators with 24 hrs diesel supply & 2 suppliers on contract
- All power in conduit or seal tight



## CONNECTIVITY

### 1. KEEPING YOU CONNECTED

- Redundant carrier agnostic connectivity with 8 carriers supporting facility
- Variety of LE dark fiber & lit services
- Dual OC-48 SONET rings & flexible private metro ethernet up to 10 Gbps
- Private connectivity to KC & Omaha DCs
- Enterprise class, multi-carrier internet bandwidth
- Redundant DWDM access to Carrier Hotels

## SECURITY

### 1. PHYSICAL

- 2 mantraps for 1-in-1 out movement (bioscans & pin codes)
- 102 motion detector cameras with 30 days archived video
- Key card & biometric scanners, secure check-in desk, tailgate sensors

### 2. COMPLIANCE & OPERATIONS

- PCI-DSS v3.0 & HIPAA compliant
- SSAE 16 SOC 1 & 2 Type II audited
- ISO 20000 certified
- 24x7x365 manned Operations Center
- Remote technical hands available



### 3. BUILDING MANAGEMENT SYSTEM

- Powered by Tridium Niagara AX
- Centralized management of critical infrastructure equipment
- Historical data available for trending
- Certified Tridium personnel on staff
- Automatic alerts generated & sent to LE support
- Customer private portal for real-time viewing
  - Power, cooling & humidity

**FAST FACT**  
**WE HAVE A FIBER**  
**BACKBONE**  
**CONNECTING ALL 3**  
**LIGHTEDGE DATA**  
**CENTERS IN**  
**IA, MO & NE.**

## COOLING

### 1. KEEPING IT COOL

- N+1 built-in redundancy
- Hot aisle/cold aisle design
- 600 tons yields 2.4 MW
- Dual power fed HVAC units with Variable Speed Fans
- Humidity set point of 44
- Building Management System to ensure conformance with ASHRAE TC 9.9 standards for A1 environments

**FAST FACT**  
**BROKE GROUND ON SECOND 73,000**  
**SQ FT BUILDING Q2 2016.**

### NEXT STEPS?

Contact us today to learn more about LightEdge's first class data center facilities in Iowa, Missouri & Nebraska.



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