

# Ashburn, VA Data Center

21890 Uunet Drive  
Ashburn, VA 20147  
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## Overview

Ashburn has become home to the largest data centers in North America. There are many reasons for this, including numerous dense fiber rings, open spaces for construction, low-cost power and substantial tax incentives. Ashburn has a low disaster event rating and is ideally located on the eastern coast. With its mature infrastructure and highly educated talent pool, several airports, copious hotels and a business-friendly environment, Aligned Energy is proud to have a presence in Ashburn, VA.

# 26



BUILDING ACRES

# 777,755



SQUARE FEET

# 180



MEGAWATTS

## Building Specifications

- Completion in 2019
- Campus is 26 acres
- Building 1: 120 MW/ 409,000 sq. ft.
- Building 2: 60 MW/ 368,755 sq. ft.
- Private, dedicated data center suites
- Concrete slab-on-grade and structured steel
- Two interconnected multi-tenant buildings
- ASCE 7 occupancy category IV. data hall FM-120 and office FM-90 roof lift ratings
- Wind importance factor of 1.15
- Two bays with delivery platform and equipment trap
- Dedicated office space for rent
- Shared conference rooms and drop-in office pods
- 24x7x365 accessibility
- Industry-leading 1.15 PUE



## Building Specifications

### TELECOM

- Two diverse points of entry, per build
- Carrier-neutral
  - Multiple carriers
- Two diverse meet-me rooms
- Less than one mile from 21715 Filigree Court Carrier Hotel

### POWER

- Diverse and dedicated substations: expandable to 240MW
- Concurrently maintainable UPS
- N+2 power generation
- Redundant A+B distribution
- Revenue-grade metering

### SECURITY

- 8' Impasse steel security fencing with laser intrusion detection
- Five-layer security design
- Card reader access
- 24x7x365 on-site security guards
- Multiple checkpoints: mantraps, dual authentication (biometrics and RFID badge readers)
- Event-driven IP video surveillance and visual light-based alerts

### CORPORATE SUSTAINABILITY

- Uses up to 85% less water
- Uses up to 80% less power
- 100% renewable energy available
- Industry-leading PUE, WUE, and CUE
- Reclaimed water for mechanical plant

### FIRE PROTECTION

- Separately zoned data halls
- Very Early Smoke Detection Apparatus (VESDA)
- Dual interlock pre-action system

### COOLING

- Our hot aisle containment strategy absorbs heat at its source - supporting standard and high power densities and allowing you to scale vertically and horizontally - without stranding capacity.
- Configurable to client needs (i.e., N, N+1, 2N)

### COMPLIANCE

- System and Organization Control (SOC) 2 Type 2 and SOC 1 Type 2, PCI DSS, HIPAA, HITECH, NIST 800-53, and ISO 27001:2013



### ABOUT ALIGNED ENERGY

Aligned Energy is an infrastructure technology company that offers colocation and build-to-scale solutions to cloud, enterprise, and managed service providers. Our intelligent infrastructure allows us to deliver data centers like a utility – accessible and consumable as needed. By reducing the energy, water and space needed to operate, our data center solutions, combined with our patented cooling technology, offer businesses a competitive advantage by improving reliability and their bottom-line.

