



# Ashburn, VA Data Center

22001 Loudoun Country Parkway  
Ashburn, VA 20147

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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, cheap 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, plus several airports, lots of hotels and a business friendly environment, Aligned Energy is proud to have a presence in Ashburn, VA.

## Data Center Highlights

# 26

Building Acres

# 883,690

Total Sq. Ft.

# 180

Megawatts

## Building Specifications

- › Completion in 2019
- › Campus is 26 acres
- › 370,000 sq. ft. Building 1
- › 513,000 sq. ft. Building 2
- › 400,000 sq. ft. Data Hall SF at full build
- › Private, dedicated data center suites
- › Concrete slab-on-grade and structured steel
- › Three 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
- › Three bays with delivery platform and equipment trap
- › Dedicated office space for rent
- › Shared conference rooms and drop-in office pods
- › Space available for rent
- › Accessibility - 24x7x365
- › Industry-leading 1.15 PUE



## 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 & Compliance

- › 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

## › Compliance

- › Service Organization Controls (SOC) 2 - Type 1, PCI DSS, HIPAA and HITECH, NIST 800-53 for Colocation Services

## 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
- › VESDA (Very Early Smoke Detection Apparatus)
- › Dual interlock pre-action

## 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)

## About Aligned Energy

Aligned Energy is an infrastructure technology company that offers colocation and build-to-scale data center solutions to cloud, enterprise, and 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 technology innovations offer businesses a competitive advantage by improving reliability and their bottom line, while helping secure the health of the planet.