

An Adaptive Data Center for Dynamic IT

Aligned Energy's Dallas-Plano Data Center

2800 Summit Avenue
Plano, TX 75074
800.232.2817

AlignedEnergy

An adaptive data center

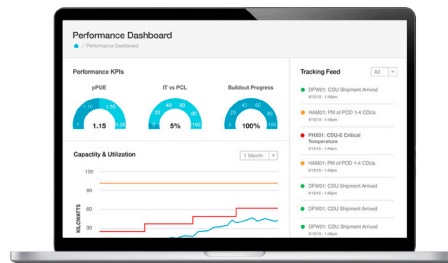
Business needs and IT loads are moving targets. At Aligned Energy's colocation data centers, you can adapt on demand, keeping capacity, performance, and reliability in sync no matter how quickly your requirements change. Whether you're a service provider or enterprise, with Aligned Energy you'll have an experienced partner on your side.

Adaptive

We can deliver a scalable data center solution sized to your requirements today, and provision capacity on demand as your needs evolve. We'll grow along with you both vertically (in terms of power density) and horizontally (in terms of square feet).

Client portal

Our client portal offers true transparency, with a singular entry point that spans capacity planning, asset optimization, help desk ticketing, and business intelligence. Instead of multiple access points, you have one centralized portal, enabling broader visibility and a more insightful approach to asset management.



Dynamic infrastructure

Our patented cooling technology not only lowers costs, but is also ultra-efficient and sustainable. It supports standard and high power densities (up to 50kW per rack) and offers a 1.15 PUE. Efficient and reliable in any climate, at any load, our cooling technology can grow and scale with you incrementally as needed.

Engineered for resiliency

“One of the most
reliable cooling &
power generation
platforms ever
studied.”

Steve Fairfax
President, MTechnology

Resilient

400 year

100% Uptime SLA & carrier-neutral connectivity to ensure your IT operations are always online.

Independently validated - via Fault Tree Analysis - with a reliability class of 0.25% (400 year MTBF).

Rack density

50kW

Variable standard and high density power (up to 50 kW per rack) without additional infrastructure to support high performance computing demands.

Security

365

Our data centers protect your colocation environment behind multiple layers of physical access controls, including perimeter fences with intrusion laser detection, 24x7x365 on-site security, mantraps, dual authentication including biometrics and RFID tracking, event-driven IP video surveillance, visual light-based alerts, and more. We also provide round-the-clock engineering assistance and global monitoring via our Network Operations Center (NOC).

Guarantee

1.15 PUE

We contractually guarantee a 1.15 PUE, regardless of client load or utilization.

Certified by the Uptime Institute

Tier III

We earned Tier III Facility and Design Certifications from Uptime Institute, validating that our Dallas-Plano, Texas data center is consistent with your uptime objectives.



Services

Colocation

Colocation footprints

Fully enclosed colocation footprints trap and absorb hot air at its source. Footprints easily scale to thousands of racks, allowing you to expand your IT load horizontally and vertically, on demand.

- › Variable and contiguous rack densities (up to 50 kW)
- › Whip installations or overhead power busways – expandable on demand
- › eSYNC absorption units remove heat at its source
- › Cross connect services or direct carrier interconnection available
- › Lockable walls for privacy and air containment supplied by you or Aligned Energy
- › Standard Client Portal offers asset monitoring, help desk ticketing, business intelligence, and capacity forecasting from a single- entry point
- › Implementation Liaison helps facilitate a smooth migration

Remote hands support

Get expert assistance with colocation equipment racking, reboots, disk changes, triage, cross connections, and more. Our engineers are available on-site whenever you need them.

Connectivity

On-net data center carriers

For simple and fast turn-up, choose from a variety of on-net network providers or connect to nearby carrier hotels via Aligned Energy pathways.

Flexible entrance options

- › Clients can bypass the Aligned Energy MDF, if needed
- › Aligned Energy offers direct carrier interconnection, including dedicated carrier facilities to client suites

Additional

Custom Client Portal

Opt for a fully customized Client Portal to further tailor the tool or extend monitoring beyond your Aligned Energy environment.

Dedicated office & storage space

Strengthen your operational performance and ensure efficiency with dedicated office and storage space. Your space is on-net and connected to our UPS system for consistent and reliable functionality.

Build to scale solutions

If a multi-tenant solution doesn't fit your needs, we'll deliver standard or custom data center builds in new markets to your specifications.

Colocation footprints

Features

Colocation sold by the footprint – a fully contained enclosure that is tailored to client requirements and loads.

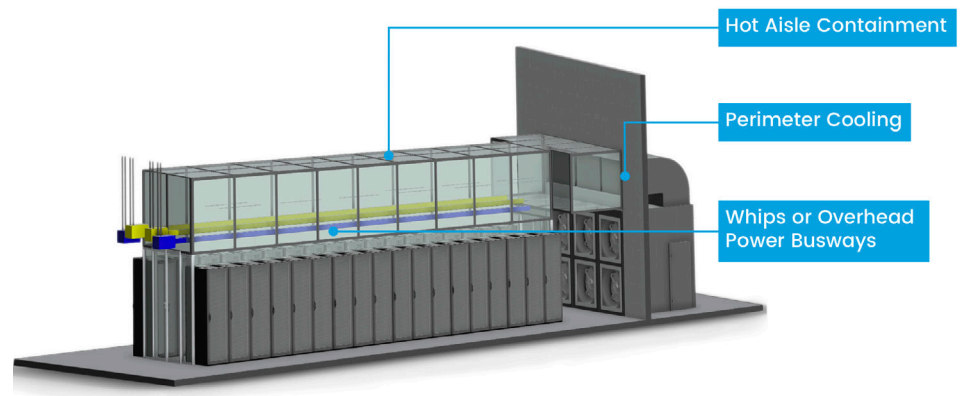
Hot aisle containment traps and contains heat at its source. Use our containment or your own.

Perimeter cooling features close-coupled flexible designs, micro-channel coils and highly efficient fans.

Whips or overhead power busways
A/B-configured, flexible and expandable.

Variable & high density power
Up to 50 kW/rack, in the same row, without additional infrastructure.

Slab foors
Our technology eliminates the need for



Dynamic results

- › **Scalable.** WE can provision 1.5 MW today with multiple MS of capacity delivered in less than 12 weeks.
- › **Future-proof.** Our technologies are here for you today and tomorrow, with power densities up to 50 kW per rack and guaranteed 1.15 PUE.
- › **Reliable.** We offer a 100% Uptime SLA in a Tier III certified center.
- › **Sustainable.** Our efficient platform saves up to 85% water and up to 80% energy.
- › **Easy to work with.** We strive to be flexible and easy to do business with - all while offering outstanding customer support.

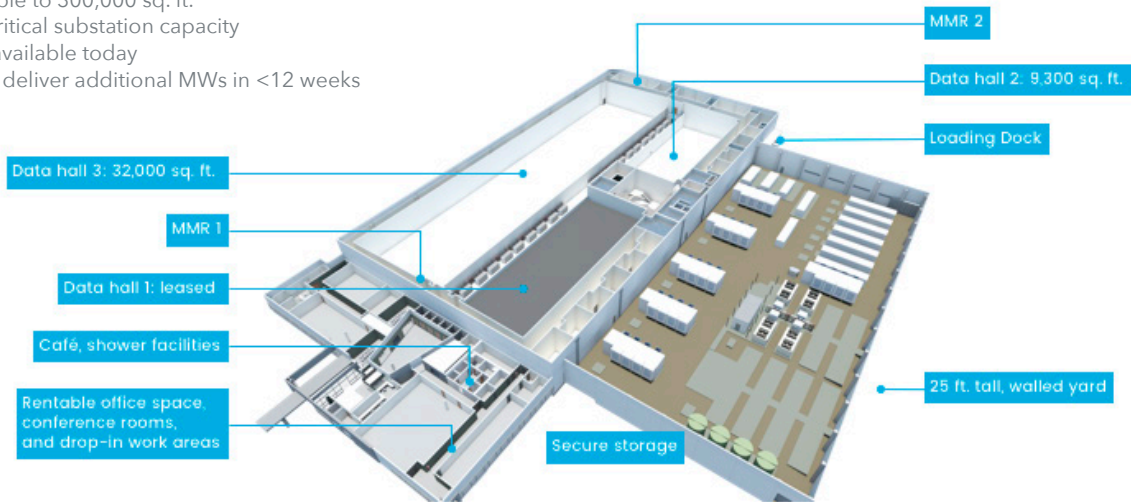
Plano, TX Data Center

Colocation site specifications



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- > 19 Acre fully fenced site
- > Expandable to 300,000 sq. ft.
- > 60 MW critical substation capacity
- > 1.5 MW available today
- > Ability to deliver additional MWs in <12 weeks



Our colocation data center is located to the north of the Dallas-Fort Worth metropolitan area with easy access to major freeways and minutes from both Love Field and the Dallas/Fort Worth International Airport. This ~300,000 square foot building (full build) is situated on more than 19 acres providing ample room to expand.

General

Renovated	2015
Ownership	Owned
Campus	19 Acres
Total Building SF	Full build: ~300,000 sq. ft.
Total Data Hall SF	Full build: 174,400 sq. ft.
Building Construction	Concrete slab-on-grade and structured steel
Structure Rating	ASCE7 occupancy category IV. Data Hall FM-120 and Office FM-90 roof lift ratings Wind importance factor of 1.15
Loading Dock	Single bay with delivery platform and equipment trap
Office Space	Dedicated office space for rent: on-net and UPS-backed Shared: conference rooms and drop-in office pods
Storage	Space Available for rent
Access	24/7/365
PUE	Guaranteed 1.15
Design	Tier III Facility and Design Certified by the Uptime Institute
Reliability SLA	100% Uptime SLA

Telecom

Points of Entry	Three diverse conduit entrances
Carrier Neutral	Multiple carriers
Carriers	Level(3), Spectrum Business, Cyberverse, Cogent, XO (Verizon Business), UPN, Zayo, Frontier
Meet-me-rooms	Three diverse MMRs

Power

Utility Power	20 MW Phase I expandable to 60 MW at full build
UPS	2.25 MW concurrently maintainable UPS blocks
Generators	N+4 power generation using N+1 "4-engine" blocks
Distribution	Redundant A+B distribution
Power Metering	Revenue-grade, transparent/real-time metered at the PDU or rack level

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Security & compliance

Facility Perimeter	8' Impasse steel security fencing with laser intrusion detection Mechanical yard protected by 24' high concrete walls
Entrance	Five layer security design; Motorized gates
Access Gates	Card reader access
On-site Security	24x7x365 with security guards
Facility-wide Features	Multiple check-points: 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 report PCI DSS HIPAA and HITECH NIST 800-53 for Colocation Services



Fire protection

Zones	Separately zoned data halls
Smoke Detection	VESDA (Very Early Smoke Detection Apparatus)
Sprinkler System	Double Interlock Action Pre-Action Dry Pipe

Cooling

System	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
Reliability	Configurable to client needs (i.e. N, N+1, 2N)

Sustainability

Water	Uses up to 85% less water
Power	Uses up to 80% less power

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.

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For more information
or to schedule a data center tour,
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www.DataCenterConsulting.com

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