

# Adaptive Data Centers That Align with Your Sustainability Goals

Aligned is committed to solving the world's toughest sustainability challenges associated with data center infrastructure, energy consumption and water usage. Our adaptive data center platform is focused on helping companies deliver greater business value with less costly energy and infrastructure resources. Sustainability is, and will always be, at the core of what we do.

**100% Load Matched with Renewables. 100% Sustainably Funded. 0 Carbon Hosting by 2040.**

## Sustainability Goals

### As good stewards of the environment, we work to:

- Match 100% of our power with renewable energy sources across all our data centers
- Use renewable, recyclable and low- to zero-VOC materials across all of our data centers
- Employ sustainability and environmental consciousness as key metrics for our supplier selection and supply chain processes
- Reduce our overall energy and water consumption
- Help customers and partners deliver greater business value with less costly energy and infrastructure resources
- Create a safe and environmentally-friendly working environment for customers, partners and staff



Requires less energy, reducing tenant TCO



Able to run waterless, yet flexible enough to connect to water-cooled systems for higher densities



Future-proof infrastructure capable of high-density cooling

## The Difference is Our Cooling Technology

An essential element of Aligned's adaptive data center platform that demonstrates our commitment to sustainability is our patented, award-winning cooling technology. Our Delta<sup>3</sup> (Delta Cube™) cooling system is purpose-built for the data center. Delta<sup>3</sup> arrays capture and remove heat, rather than pushing cold air into the data hall. This, along with hot aisle containment, absorbs heat at its source, supporting standard, high or mixed power densities, allowing you to scale vertically and horizontally without stranding capacity.

### Cooling System Highlights

- Even on the hottest day of the year, Aligned's cooling systems offer 1.45 PUE for water-free cooling and 1.35 PUE for water-based cooling
- The cooling system can be paired with an air-cooled chiller to create an extremely efficient, waterless system within the data center
- Aligned runs a higher delta T on the chilled water loop with 65°F supply and 95°F return water to achieve efficient PUEs and capture heat most effectively

## Delta<sup>3</sup> Cooling Technology

- Provides a hyper-scalable and ultra-efficient environment that dynamically adapts to your IT loads
- Supports high, mixed and variable rack densities of 1-50kW in the same row; a water-cooled loop can easily connect to the Delta Cube for densities above 50 kW/ rack
- Delivers efficiency at any load, in any climate, regardless of location, with an industry-leading Power Usage Effectiveness (PUE)

## Building Greener

Our data center design and construction principles also support sustainability. In addition to using sustainable building materials, Aligned's vendor managed inventory (VMI) program comprises a rolling pool of dedicated inventory, combined with factory-based construction of mechanical and electrical plant modular containers, which are then deployed and delivered on site. This allows our customers to truly future-proof their IT environments in the wake of unpredictable usage, densities and growth.

The ability to deploy our mechanical and electrical systems in small increments, and only when additional capacity is needed, contributes to sustainability by not stranding resources that aren't being utilized. This provides for responsible use of limited resources and reduces our customers' carbon footprint.

Aligned also partners with vendors to track / reduce embodied carbon and promote circular asset management across our supply chain using OriginMark™, an enhanced material traceability system. This technology provides Aligned and its customers a more transparent and granular view of their embodied carbon footprint by tracing the complete lifecycle of data center equipment and devices as well as identifying material recovery and recycling options.

## Sustainable Investments

Aligned is majority owned by funds managed by Macquarie Asset Management—pioneers in the world's transition to a low carbon economy. With its 2022 integration of Green Investment Group into MAM, the entity maintains over 50GW of green energy projects under development, construction or in operation. MAM is also part of the global RE100 initiative, underscoring its plans to power its global operations with 100% renewable electricity by 2025.

Aligned recently secured the largest-ever inaugural data center securitization in history. The company's financing is tied to core ESG and sustainability objectives:

- **Sustainability Reporting:** Transparency regarding sustainability best practices & reporting
- **Renewable Energy:** A commitment to match 100% of our annual energy consumption to zero-carbon renewable energy by 2024
- **Workplace Safety:** Reporting on and having an industry-leading Total Recordable Incident Rate (TRIR)

## Sustainability Partners and Recognition

In addition to offering renewable, clean power options available at each facility, Aligned also partners with nZero to provide accurate data and reporting of its operational carbon footprint, which helps inform the sustainability strategies of both the company and its customers.

We've also partnered with a number of sustainability-focused organizations and received a host of awards in recognition of our adaptive and efficient data center platform, innovative technology, and environmental stewardship.



**Contact Aligned about how our adaptive data center platform can help your organization to achieve its sustainability goals.**

sales@aligneddc.com  
+1.833.425.4463

**Corporate Headquarters**  
2800 Summit Avenue  
Plano, Texas 75074

### ABOUT ALIGNED

Aligned Data Centers is a leading technology infrastructure company offering innovative, sustainable, and adaptive Scale Data Centers and Build-to-Scale solutions for global hyperscale and enterprise customers across the Americas. Our intelligent infrastructure allows densification and vertical growth within the same footprint, enabling customers to scale up without disruption, all while maintaining industry-leading Power Usage Effectiveness (PUE). 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 sustainability, reliability, and their bottom line.

