



Sabre case study

Executive summary

Leading technology provider to the global travel industry

Sabre Corporation is the leading technology provider to the global travel industry. Sabre's software, data, mobile and distribution solutions are used by hundreds of airlines and thousands of hotel properties to manage critical operations, including passenger and guest reservations, revenue management, flight, network and crew management. Sabre also operates a leading global travel marketplace, which processes more than US\$120 billion of global travel spend annually by connecting travel buyers and suppliers. Headquartered in Southlake, Texas, USA, Sabre serves customers in more than 160 countries around the world.

Challenge

High density, rapid deployment

Sabre serves a market that demands faster response times, greater reliability and a global reach. To maintain its leadership position, Sabre deploys innovative next gen technologies to meet and surpass the expectations of its global customer base. To achieve these performance objectives, Sabre is eliminating data centers that operate under 200 watts per square foot because they are no longer relevant to modern IT architectures. The need to transform on-demand capabilities coupled with faster time-to-market while also lowering overall TCO presented a significant challenge.

Solution

Efficient data center supporting up to 50 kW

Sabre required a highly efficient data center capable of supporting a hyper-converged infrastructure with rack densities up to 50 kW or approximately 1000 watts per square foot. Unlike traditional data centers that force cold air into the data hall or require specialized cooling infrastructure, the Aligned Energy solution removes heat at its source, with heat sinks close-coupled to the server racks. The technology improves reliability, optimizes energy and lowers TCO.

Business results

1. Efficiency benefit

The partnership delivers a sustainable solution that reduces both energy and water usage. The Aligned Energy data centers Power Usage Effectiveness (PUE) is guaranteed at 1.15 and uses up to 85% less water than traditional chilled water systems.

2. IT benefit

The high density platform transforms on-demand capabilities and empowers dynamic workloads through a private cloud environment.

3. Economic benefit

CapEx and OpEx associated with deploying data center infrastructure is significantly reduced by Aligned Energy's innovative colocation solution.

Solution partners

How we engage

Sabre conducted a market search for a data center colocation provider capable of supporting their Intel powered technologies for the next 10 years. They engaged outside professional engineers to vet the technical requirements and prepare the design elements for Sabre's future roadmap.

After an initial tour of the our Dallas data center, Sabre selected Aligned Energy to engage in the formal procurement process. In order to ensure a properly architected colocation solution, the Aligned Energy team worked closely with the customer to understand their environment at the application level - which is the driver behind Sabre's workload optimized, hyperscale compute platform. With advanced HPC chipset and storage technologies processing billions of transactions per second on a global basis, the need for a highly reliable and efficient data center was essential. By simulating a workload in our Aligned Energy Demo Pod with a similar thermal-dynamic profile to Sabre's hyper-converged infrastructure, Sabre gained a great deal of trust and confidence in our solution.

Aligned Energy was ultimately chosen because of our future proof solution, highly reliable Tier III data center, and our lower TCO compared to other providers. There was also a strong cultural match with the Sabre team given their emphasis as a company on innovation and sustainability.

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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