



SUSTAINABILITY

ACHIEVING EFFICIENCY THROUGH RENEWABLE ENERGY,
OPERATIONS, AND DESIGN

Since our inception in 2000, RagingWire has always prioritized a commitment to business practices that promoted sustainability. Now as a part of NTT, we apply best practices for efficiency on a global scale.

Our approach to environmental responsibility is focused on three main components, which are:

- **Renewable Energy** – 100% renewable, reliable, and affordable.
- **Operations** – Optimizing, recycling, and conserving.
- **Design** – Efficiency, innovation, and savings.

RAGINGWIRE SUPPORTS SUSTAINABILITY THROUGH:

- Using 100% renewable energy across 52.7MW in three Northern California data centers
- Customizing renewable energy packages for hyperscale customers
- Recycling 100% of eligible materials
- Monitoring thermal conditions on the data floor with precise instruments
- Using waterless cooling where possible
- Decreasing energy for fan use through variable frequency drive motors

Renewable Energy

RagingWire began offering a renewable energy package in California, and will be expanding that program wherever there is demand.

Reliable renewable energy at stable prices – In our Northern California data centers, we offer 52.7 megawatts of power that is 100 percent renewable and backed by a 100 percent uptime service level agreement. RagingWire's Northern California customers receive renewable energy at stable prices that are the lowest in the state, without being exposed to market fluctuations in the real-time energy market or tied to third-party contracts beyond their control.

Renewable energy in new markets – RagingWire is also working closely with power companies across the U.S. to bring renewable energy to our data centers in Virginia and Texas.

Renewable energy for hyperscalers – For hyperscale clients, RagingWire can customize a renewable energy package tailored to their specific needs.

Operations

RagingWire has consistently followed policies and procedures that maximize efficiency of operations throughout the data center. More than a decade ago, we were one of the first colocation data centers to earn the EPA Energy Star Building designation.

Recycling – RagingWire, along with our waste disposal partner, recycles 100% of the cardboard, steel, copper, glass, plastic, aluminum, and other eligible materials we use at our operating facilities, as well as facilities under construction. In addition, we recycle 100% of our lead acid and VRLA batteries, and the electronic waste from both our own company use and as a free service to our valued clients.

Energy monitoring – We work closely with our clients to help them monitor and improve their energy efficiency and consistently work to lower the power usage efficiency (PUE) at each facility. By implementing a

wireless data center floor environmental monitoring system to provide a more detailed thermal map of the data floor, we can make more precise temperature and humidity adjustments to save cooling energy.

Optimized water temperature – Chilled water temperatures were carefully increased from the initial plant design temperature of 45°F to about 60°F, which resulted in energy savings of as much as 30%. In addition, after being permanently loaded just one time, water in this closed loop does not need to be refilled.

Design

RagingWire continues to utilize environmentally-friendly best practices that lead to sustainable, efficient results our customers can be proud of.

Waterless cooling – We leverage the right technology for a given environment, which enables us to go 100% waterless where possible. For instance, at our Dallas TX1 Data Center, we have installed one of the largest water-free mechanical systems in the U.S., which leverages cool air from outside and does not stress local water supplies.

Data vault temperature control – RagingWire maintains a strict hot aisle/cold aisle rack configuration within all of its new customer cages. To further isolate and contain the hot aisle side of the IT network and equipment racks, blanking panels were installed wherever open server spaces exist. Extended return air ducts were installed on CRAH unit air intakes to prevent cold air from short-cycling back into the CRAH intake. The resulting increase in return air temperatures increased CRAH unit efficiency.

High-efficiency motors – Variable frequency drive (VFD) motors have been installed on all mechanical cooling pumps, chilled water pumps, and data floor CRAH units. Consequently, fan speeds decreased significantly. With motor power use proportional to the cube of fan speed, VFDs provide substantial savings.

About RagingWire Data Centers

RagingWire Data Centers designs, builds, and operates mission critical data centers that deliver 100% availability, high-density power, flexible configurations, carrier neutral connectivity, and superior customer service. The company has 245MW of critical IT load spread across 2 million square feet of data center infrastructure in Ashburn, Virginia; Dallas, Texas; and Sacramento and Silicon Valley in Northern California with significant growth plans in these locations and other top North American data center markets. As part of the NTT Communications group, RagingWire is one of the largest wholesale data center providers in the world with a global network of 140 data centers in over 20 countries and regions operated by NTT Communications under the Nexcenter™ brand and one of the most financially strong companies in the data center industry.

For more information visit www.ragingwire.com.



Take the next step.

To learn more about data center solutions from RagingWire, contact us.

Phone: 866-599-0998
Email: info@ragingwire.com
www.ragingwire.com