

**FOR IMMEDIATE RELEASE**

## **Wyoming Hyperscale Launches Construction of World's First Sustainable Hyperscale Data Center Ecosystem**

ASPEN, Wyoming — As the data center services market is projected to grow by more than 50% by 2026, [Wyoming Hyperscale White Box](#) is leading the way globally to drive down the environmental impact of [Big Tech within hyperscale applications](#). The company's Aspen Mountain Hyperscale Data Center campus — the world's first sustainable hyperscale data center development — will be a [carbon-negative, multi-business ecosystem through 100% heat reuse](#).

The 120-MW master-planned campus will leverage 100% liquid-cooled, technology agnostic information technology equipment (ITE); will be renewably powered; and will eliminate industrial water consumption and the use of refrigerant.

“Designing and building the data center of the future to overcome climate change and environmental obstacles — while creating agile infrastructure to handle future challenges — requires technology like we've never seen as well as the support of a progressive, knowledgeable team,” says [Trenton Thornock](#), Wyoming Hyperscale White Box founder and managing member. “With our forward-thinking partners, we are setting the new standard for mission-critical facilities with this sustainable data center ecosystem.”

The full-service project team includes:

- FFKR Architects, executive architect
- Gensler, mission critical architect
- J.M. Gross Engineering, MEP engineer — liquid cooling
- Burns & McDonnell, MEP engineer — hyperscale
- Egg Geo, geothermal engineer
- BCER, telecommunications and security engineer
- Forell Elsesser, structural engineer
- CobbFendley, civil engineer
- Layton Construction, general contractor

The 30-MW first phase of the project is currently under construction and expected to begin commissioning in 2023.

**Sustainability**

- Through its use of liquid immersion cooling, the development will be 50% more power efficient and deliver energy cost savings of up to 95% compared to a traditional air-cooled data center.
- As an additional sustainability measure, the campus will be one of the first in the world to use nickel-zinc batteries as its sole source of backup energy storage.
- The project team is strategically designing the facility to achieve [LEED v4.1 BD+C Gold certification](#).

### **Development Efficiency**

- The project's market-leading density-per-construction acre will result in one of the lowest development costs per acre for a U.S.-based hyperscale data center campus.
- This efficiency is made possible by 10-MW vaults consuming less than 15,500 square feet of space each.
- With 80-kW average rack density at scale and 100+kW/rack high-density compute capacity at scale, Aspen Mountain will be one of the most space-efficient data centers in the world.

### **Community Impact**

- All waste heat generated from the initial development is designed to serve the adjacent [Wyoming Hyperscale Indoor Farms](#) facility, yielding fresher produce for local communities throughout Wasatch valley in Utah.
- The program's heat reuse measure will also offset nearly 70 gallons per truckload of diesel from the current source of produce.
- To help minimize exacerbation of megadrought in the Western U.S., no industrial water will be consumed by the Aspen Mountain campus.

In addition to targeting industry-leading LEED certifications, the project team is also pursuing [Uptime Institute Tier III certification](#) for Data Center Design Documents and Constructed Data Center Facility.

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### **About Wyoming Hyperscale White Box**

Founded in 2020 by members of a 6th generation ranching family, the company is combining resources to sustainably satisfy parabolic demand for hyperscale data center capacity while implementing best-in-class solutions to directly address global climate change and eliminate the waste inherent in conventional datacenter designs. Wyoming Hyperscale decided to change the industry with patented and patent-pending technologies that are innovative, efficient, sustainable, and significantly less costly to build and operate. Learn more at <https://wyominghyperscalewhitebox.com/>.

**About J.M. Gross Engineering**

J. M. Gross Engineering, LLC is a small MEP Engineering firm focused on Critical Infrastructure and Forward-Thinking projects. Actively involved in the Mission Critical Community through ASHRAE TC9.9 and The Open Compute Project, we strive to integrate latest industry technology with practical field operations. All our engineers are active from programming through Commissioning, allowing us to bring a unique Operations-Centric approach to design, and more rapidly incorporate lessons learned into future designs. Learn more about us at [www.jmgrossengineering.com](http://www.jmgrossengineering.com).

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