

TOTALSIM^{US}

TSUS e-Brief | Issue 5



TotalSim Takes Flight at VFS Forum 81

The TotalSim US team attended the Vertical Flight Society's 81st Annual Forum during the week of May 19th in Virginia Beach, VA. As the premier international technical event focused on vertical flight technology, the three-day conference featured over 300 technical papers spanning disciplines from Acoustics to Test & Evaluation, along with keynote presentations and panel discussions from leaders in the military, government, and industry. TotalSim US is actively expanding its presence in the Advanced Air Mobility (AAM) and broader aerospace sectors. At this

year's forum, we showcased our growing capabilities, including our strategic partnership with [M4 Engineering, Inc.](#), aimed at delivering comprehensive structural design, prototyping, and testing solutions. We shared a booth with M4 Engineering and received strong interest from attendees. The event was a tremendous success, and we look forward to participating again next year.

Cooling Confidence: CFD for Smarter, Safer Data Center Cooling

In this in-depth blog post, explore how TotalSim partnered with a construction contractor to analyze and optimize the HVAC system of a next-generation data center. Using advanced CFD tools like [STAR-CCM+](#), TotalSim identified thermal risks, ran failure mode simulations, and guided a strategic redesign that improved airflow, eliminated hotspots, and ensured system resilience - even when key HVAC units were offline.

This project showcases the power of simulation in de-risking complex engineering challenges and delivering performance you can count on. Whether you're planning a new facility or improving an existing one, the insights here could make all the difference.

Read the [full blog](#) to see how data-driven design leads to smarter, more reliable data centers.



Upcoming Webinar: Mastering Datacenter Thermal Management

SMARTER COOLING STRATEGIES FOR DATA CENTERS

- Keep high heat density in check – without sacrificing performance
- Maintain cooling consistency during AI and ML workloads
- Maximize space with smarter airflow and layout planning
- Boost energy efficiency and reduce costs

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WEDNESDAY, JUNE 26 | 2:00 PM EASTERN

Struggling with heat from high-performance workloads? You're not alone. In this webinar, learn how *you* can use simulation and advanced cooling strategies to improve your data center's performance, reliability, and energy efficiency—even when running AI, machine learning, or other demanding applications.

You'll walk away with practical insights on how to:

- Manage high heat density without overspending on infrastructure
- Maintain consistent cooling during unpredictable, dynamic workloads
- Navigate tight space constraints with smarter airflow design
- Reduce energy use through better operational planning

If you're designing, operating, or upgrading a data center, this session will give you the tools to make smarter, more confident decisions.

REGISTER NOW

Upcoming Events

[Optimizing Datacenter Design and Performance Webinar June 11th,](#)

[VFS Electric Aircraft Symposium-Oshkosh WI July 19-20th, 2025](#)

Industries Where We Excel



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