



Case study

Gazi University advances IT infrastructure with Vertiv's end-to-end data center solutions



Background

Founded in 1926 in Ankara, Gazi University is one of Turkey's leading public research institutions. It includes 21 faculties, 4 schools, 11 vocational schools, 7 graduate institutes, and over 50 research centers, serving a student population of over 77,000.

The university first partnered with Vertiv in 2005 to deploy UPS systems for its IT system room. That relationship has since grown to include thermal management systems, power distribution units (PDUs), infrastructure solutions, and ongoing service support.

Challenge

Gazi University's existing IT system room was reaching its capacity limits and could no longer keep up with the growing demands of its operations. More users, more data, and more applications were putting pressure on aging infrastructure. Systems were running near capacity, and the setup lacked the flexibility to adapt to new technologies.

The IT department needed a new data center that could handle current workloads and scale for future needs.

Company profile:

Gazi University is a public research university founded in 1926. It comprises 21 faculties, 4 schools, 11 vocational schools of higher education, 52 research centers, 7 graduate institutes, and has over 77,000 students.

Industry: Education

Region: Ankara, Turkey





Solution

To support increased computing demands, the university built a new data center designed for Tier 3 alignment. It's divided into two mirrored segments, Line A and Line B, with separate power and cooling systems for redundancy.

Vertiv supplied Vertiv™ Liebert® APM 300kVA modular UPS units for scalable high efficiency backup power. Vertiv™ Liebert® PDX direct expansion floor-mount cooling units were also deployed: 80kW for the main data hall and 44kW units for the UPS and energy rooms. Vertiv also provided racks with cold aisle containment to maximize airflow and reduce energy consumption.

Vertiv™ rPDUs enabled intelligent power distribution. Centralized environmental monitoring is handled by Vertiv™ Environet™ Alert, which tracks temperature, humidity, and leaks in real time. Vertiv also delivers annual preventive maintenance services for consistent system reliability and optimal performance of all installed systems.



Outcome

With Vertiv's end-to-end data center solutions, Gazi University now operates a modern, scalable data center, capable of supporting the growing demands of its academic and administrative functions. The infrastructure delivers improved uptime, energy efficiency, and operational visibility.

IT teams benefit from greater control over system performance and faster response to issues, enabling more proactive management. Centralized monitoring has streamlined operations and simplified infrastructure oversight.

The university is well-positioned to expand digital services and support the future growth with a flexible, efficient foundation.

"We chose Vertiv™ products for their proven quality and reliable performance, which are well recognized across the industry. Having recently begun using the devices, we are highly satisfied with the seamless cooperation and coordination demonstrated throughout the installation and commissioning process. We would like to extend our sincere thanks to the Vertiv Turkey team for their valuable support."

— **Zafer Ayaz,**
Assoc.Prof.
Head of Central IT Department