

Is Your Data Center Centered on Sustainability?



It takes a lot of energy to run a roomful of servers. In fact, if you added up all the world's data centers, it would total somewhere between 240 and 340 trillion watts of energy (terawatts) per year.¹ At Dell Technologies, we're investing our energy in building more sustainable servers that combine high performance with lower energy consumption and fewer carbon emissions.



10x-50x

more energy use per square foot

Data centers use 10x-50x more energy per square foot of floorspace than an office building.²

40%

of energy is used for cooling

The average enterprise data center spends nearly 40 percent of its energy usage on cooling its servers.³

Smart Cooling solutions from Dell Technologies

Dell Smart Cooling technology provides optimized airflow and innovative cooling solutions to help PowerEdge servers deliver high performance, even at higher temperatures:

- Computational fluid dynamics to optimize chassis airflow
- Improved fan and heatsink designs
- Front-facing I/O links to support hot/cold aisle configurations
- Direct liquid cooling solutions with leak detection
- Immersion cooling options



More accurate energy measurement

With Dell OpenManage Enterprise Power Manager, you can easily track and control energy usage and carbon emissions for each server in your data center:



Monitor and manage energy consumption



Estimate carbon emissions for each device



Improve resource utilization to maximize your energy investments

We're EPEAT champions

- Dell is the first company to be awarded a silver certification from the Electronic Product Environment Assessment Tool (EPEAT) for its servers, with six silver certifications.
- The Dell PowerEdge family also includes 47 bronze EPEAT certifications for sustainability.⁴

We're not just cool on the inside.

At Dell Technologies, our sustainability efforts aren't limited to what's inside our servers. To date, Dell products have used more than 27 million pounds of sustainable materials and contain as much as 85 percent post-consumer recycled plastic.⁵ By 2030, our goal is to have 100 percent of our packaging made from recycled or renewable material.

