

Reduce IT energy consumption

Power the future sustainably with Dell PowerEdge servers and 4th and 5th Gen Intel® Xeon® Scalable processors

Pushing the envelope on innovation requires servers designed to deliver more while consuming less energy. Together, Dell and Intel give you performance plus energy efficiency for modern workloads.



Up to **10X higher** performance per watt¹



Up to **30% less** energy required, with near-zero performance impact²

Innovations in air cooling: Smart cooling technology



Up to **15% increase** in energy efficiency via smarter fan design³



Up to **90% reduction** in power required by fans via smart thermal controls⁴

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Sustainability for dense compute: Direct liquid cooling



5X higher cooling capacity compared to air cooling⁵



13 Dell PowerEdge servers support DLC.

[Learn More](#)

Powerful, sustainable computing: Immersion cooling



30% energy savings compared to air cooling⁶



Zero fans required for the servers or facility

[Learn More](#)



Accelerate transformation and advance sustainability with servers built to power modern applications using less energy.

[Learn More](#)

¹ Based on performance per watt gains of 1.46x to 10.6x with built-in accelerators on a range of AI, database and networking workloads. See A19, A25, D1, D2, D5 and N16 at intel.com/processors/claims. 5th Generation Intel Xeon Scalable Processors. Results may vary.

² From John Jenne, ISG CTIO Power Strategist.

³ Compared to Dell PowerEdge servers with 3rd Gen Intel processors. Source: Dell Engineering.

⁴ According to internal Dell modeling, server innovations in advanced thermal controls ensure that fans are spinning only as fast as required by considering input from an array of thermal sensors throughout the server. This can cut fan power by up to 90% in some applications. Source: Dell Engineering.

⁵ Dell.com, Data Center Power and Cooling Solutions, accessed December 2023.

⁶ According to internal Dell modeling, new Intel processors and Dell features can allow for energy savings of as much as 30% over traditional perimeter air cooling for comparable servers and configurations.