Boost Energy Efficiency and Sustainability with Dell PowerEdge Solutions



Dell Technologies aims to create more sustainable products and services while also lowering operating costs.

Energy Efficient IT



The Dell PowerEdge server portfolio improves energy efficiency through innovative design features, management tools to optimize consumption, recycled materials, and validation by recognized eco labels.

First Tier 1 vendor to

measure and track server carbon emissions on production servers.1

Dell OpenManage Enterprise (OME) Power Manager Get useful information that Generate power-usage

Management tools

Provide visibility and control to reduce

energy consumption.

insights, simplify IT allows you to quickly respond and improve decisionto power issues, improve overall power usage and track



Up to

making.

less time to cap power

on eight-node servers

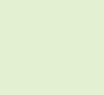
vs. doing it manually.2

greenhouse gas emissions. Up to less time to collect power data vs. 96% doing it manually.3

based on energy consumed. The Power Manager 3.0 plug-in lets you calculate energy and carbon emissions cost per unit for devices

lets you approximate carbon dioxide emission levels

The Power Manager Emission Conversion Factor feature



APEX AlOps integrates energy and emissions tracking with analytics to enhance workload efficiency and technology updates, reducing IT and carbon footprints.

managed and monitored through the OME console.



compared to 15th Generation PowerEdge servers

Dell SmartFlow design.

A new feature within the Dell SmartCooling solution,

increases airflow and reduces fan power by up to 52%

PowerEdge R750 has Consolidate up to seven 5-year-old servers into an optimized thermal design that improves one server today, energy efficiency.⁵ resulting in up to 65% **lower CPU power**



deliver power-efficient operation.

PowerEdge servers

consumption. 4



High-performance fans and new CPU heat sinks keep the system at optimal temperatures without using more energy

than is needed.



World record performance for AI and

of 7 ENERGY STAR certified refrigerators.⁷

virtualization tasks.6 The latest XE9680 can save you

58% in energy. This is equivalent to the annual energy savings

and eco labels We use recycled materials to make parts for new products.

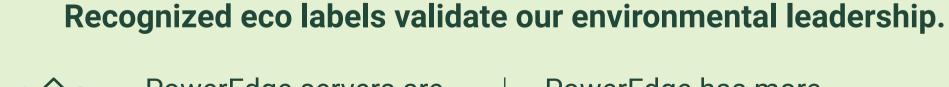
Reducing our Impact: Our latest 17G PowerEdge servers

PowerEdge servers are crafted with up to 35% recycled

launched with packaging designed with 100% recycled or

Sustainable materials

any other vendor.11



Manager 3.0 (released in May 2022).

performance will vary

consumption faster and more easily, November 2022.

³ Principled Technologies report commissioned by Dell Technologies, Rein in power

⁴ Based on Dell analysis comparing the SPECint and SPECFP scores of the AMD

EPYC 5th Gen 9965 in a Dell R7725 (2980 and 2350) with the same scores for an Intel Xeon 8280 in a Dell PowerEdge R740XD (375 and 296). The ratio of the

scores shows that 7 of the R740xd servers would give a total score similar to that for the single R7725 as configured above. The CPUs in a single R7725 would have a total TDP of 1000W (2x500W). The CPUs in 7x R740XDs would have a total TDP of 2870W (2*205*7) where each Intel Xeon 8280 has a TDP of 205W. This represents a CPU power reduction of 65%. Data accurate as of 10/2/2024. Actual

PowerEdge servers are PowerEdge has more the first in the industry to **EPEAT-registered and ENERGY** achieve EPEAT Silver.10 STAR®-certified servers than

renewable materials.8

plastic content.9

Sustainability is a joint effort

By increasing energy efficiency, reducing the environmental impact and maximizing performance, PowerEdge servers can help support your

business and climate goals. When we all prioritize sustainability, we are driving business outcomes and protecting the planet.

Learn more at **Energy Efficient Center | Dell USA**

¹ Based on Dell analysis, in May 2023, of Tier 1 server vendors offerings for systems ⁵ Based on Dell internal analysis comparing DDR5 memory on AMD EPYC 4th gen ⁸ Applies to PowerEdge R670 and R770 packaging. Contains 100% recycled content management and any features that would allow a customer to track and measure running at 4800 MT/s and DDR4 memory on AMD EPYC 3rd gen running at 3200 and 100% renewable materials. Renewable materials in the form of sustainably server carbon emissions as compared to the Dell Open Manage Enterprise Power forested materials. Post Industrial Recycled (PIR) content in the form of EPE foam.

MT/s. Actual results will vary. CLM-005953. ⁶ Based on Dell PowerEdge servers achieving world record scores for VMMark4 (2-S ² Based on Principled Technologies report commissioned by Dell in November 2022. matched pair score of 5.17 @ 5.8 tiles with the Dell PowerEdge R7725), SAP-SD Testing compared using OpenManage Enterprise Power Manager 3.0 vs manually (2-S score of 201,000 users with the Dell PowerEdge R6725), and TPCx-Al com pleting server monitoring and management tasks with iDRAC. Actual results

(Scores of 720.386 @SF3,864.593 @ SF10 and 1115.609@SF30 with the Dell

PowerEdge R6715 and R6725) as of 10/2/2024. Actual performance might vary.

Percentages may vary slightly by region. Excludes optional items added to order and ⁹ Percentage is of total plastic weight in product in form of post-consumer recycled plastic including closed loop recycled plastics (ITE-derived). Based on internal analysis, February 2023 and revised January 2024.

¹⁰ Based on internal analysis, March 2023. Applies to PowerEdge C6620, PowerEdge R660, PowerEdge R6615, PowerEdge 6625, PowerEdge R760, PowerEdge 7615, ⁷ Testing was conducted by Dell in June of 2023. Performed on PowerEdge XE9680 PowerEdge 7625, PowerEdge XR4000r, PowerEdge XR4000z. CLM-007590. with 8x Nvidia H100 SXM4-80GB and PowerEdge XE9680 with 8x Nvidia A100-SXM-80GB. MLPerf™ 3.0 BERT-large Training benchmark was used ¹¹ Based on Dell analysis of entries on www.energystar.gov with Dell having 57 entries compared to 53 by Lenovo®, 50 by HPE®, 18 by Cisco® and 11 by SuperMicro® as of 3/24/2023. Dell analysis of www.epeat.net showed Dell having 530 entries out of a total of 818 entries for servers as of 4/19/2023.

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