DELL Technologies

Sustainability Without Compromise

Reduce energy consumption with Dell PowerMax 2500 and PowerMax 8500 storage

The world's most secure[1] mission-critical storage delivers massive performance paired with best in class sustainability.

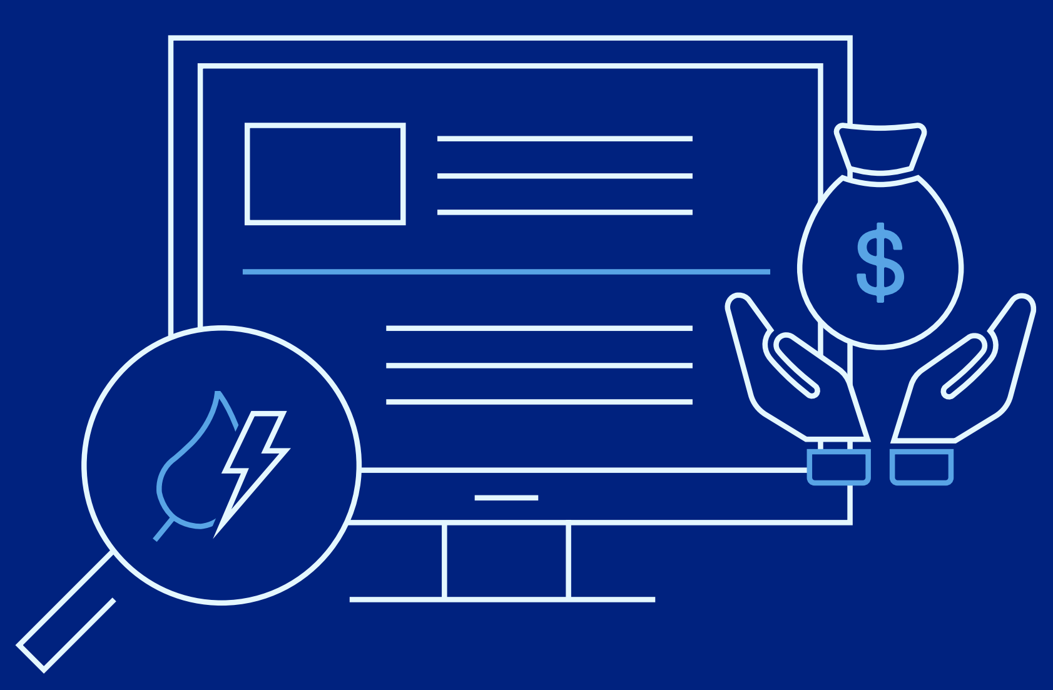
#1 most energy-efficient mission-critical storage in the industry[2]

Massive performance at scale

Up to
2.8X
more IOPS per watt[3]

Up to
2X
faster performance[4]

Smaller energy bills



80%
power savings per terabyte[5]

Up to
$207,000
electricity costs savings[6]

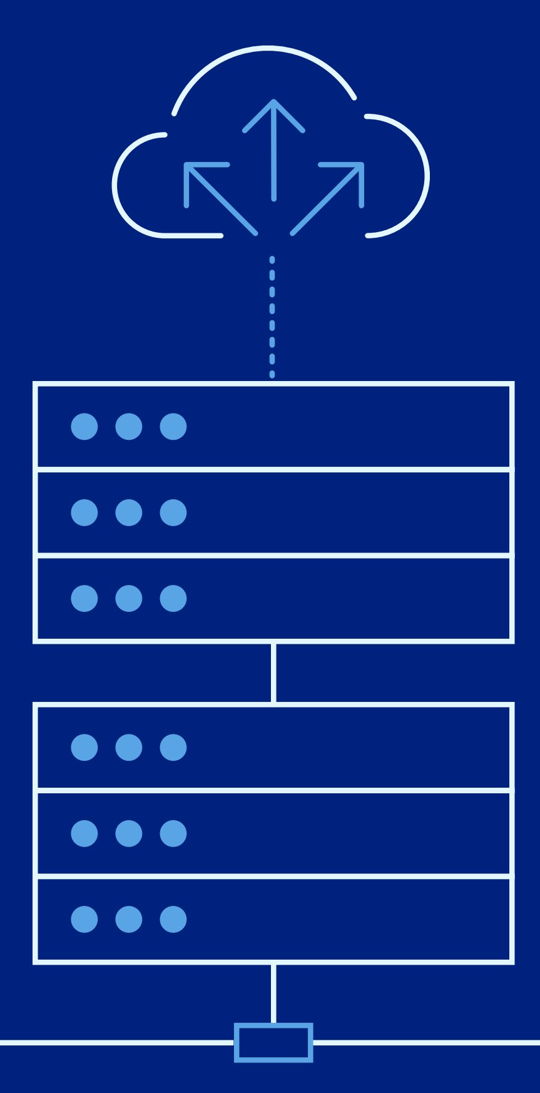
Smaller carbon footprint

Up to
82%
reduction in emissions[7] compared to previous generation

Up to
74 homes
per year potentially powered with the energy savings[8]

Up to
43,000
gallons (162,800 liters) of gas equivalent CO_2 reduction[9]

Smaller data center footprint



5X
capacity per kVA[10]

5:1
data reduction guarantee backed by the Dell Future-Proof Program[11]

Up to
14X
more storage capacity per rack unit[12]

Advance your sustainability and business goals with Dell PowerMax storage.

Learn more at
Dell.com/IT-Sustainability

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[1] Based on Dell's internal analysis of cybersecurity capabilities of PowerMax versus cybersecurity capabilities of competitive mainstream arrays supporting open systems and mainframe storage, April 2023.

[2] Based on Dell's analysis of published product specs and features impacting power usage of PowerMax versus competitive mainstream arrays supporting open systems and mainframe storage operating at 8PBe, June 2023.

[3] Based on Dell's internal testing comparing IOPS per watt for PowerMax 2500 compared with PowerMax 2000 using the 8K random writes workload. Performance per watt will vary, August 2023.

[4] Based on Dell's internal testing using the Sequential Read Hits (128K) GB-per-second benchmark and IOPS per FC port benchmarks (within a single array) comparing PowerMax 8500 to PowerMax 8000. Actual performance will vary, April 2023.

[5] Based on Dell's internal analysis comparing power (kVA) per effective terabyte of the PowerMax 2500 compared with the PowerMax 2000, April 2023.

[6] Based on Dell's internal analysis of total electricity cost savings over five years operating PowerMax 2500 at 8PBe (5kW) versus six PowerMax 2000s at 8PBe (27.5kW) using $.21 per kWh (U.S. EIA April 2023 report, California Commercial rate). Actual cost savings will vary, July 2023.

[7] Based on Dell's internal analysis of total CO_2 emissions over five years for PowerMax 2500 at 8PBe (5kW) versus six PowerMax 2000s at 8PBe (27.5kW). Calculations are from the U.S. EPA CO_2e formula. Actual CO_2e reduction will vary, July 2023.

[8] Based on Dell's internal analysis of converting CO_2e reduction that can equal the energy required to power up to 74 average U.S. homes for a year. The reduction is from operating PowerMax 2500 at 8PBe (5kW) versus six PowerMax 2000s at 8PBe (27.5kW) over five years. Calculations from EIA 2020 Average Annual Outlook Report. Actual CO_2e reduction will vary, July 2023.

[9] Based on Dell's internal analysis of converting CO_2e reduction that can equal the consumption of gasoline. The reduction is from operating PowerMax 2500 at 8PBe (5kW) over five years versus six PowerMax 2000s at 8PBe (27.5kW). Calculations are based on the U.S. EPA gallons-of-gas-consumed formula. Actual CO_2e reduction will vary, July 2023.

[10] Based on Dell's internal analysis comparing the effective capacity per kVA of the PowerMax 2500 compared with the PowerMax 2000, April 2023.

[11] Based on Dell's Future-Proof program that offers 5:1 data reduction guarantee based on PowerMax data reduction tools (dedupe and data compression) for open systems storage. Actual data reduction rates may vary. See terms and conditions for details at https://www.delltechnologies.com/asset/enus/products/storage/legal-pricing/future-proof-drguarantee-tc.pdf, August 2023.

[12] Based on Dell's internal analysis comparing effective storage capacity per rack unit (1.75") of the PowerMax 2500 compared with the PowerMax 2000. Actual storage capacities will vary, April 2023.

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