CIO

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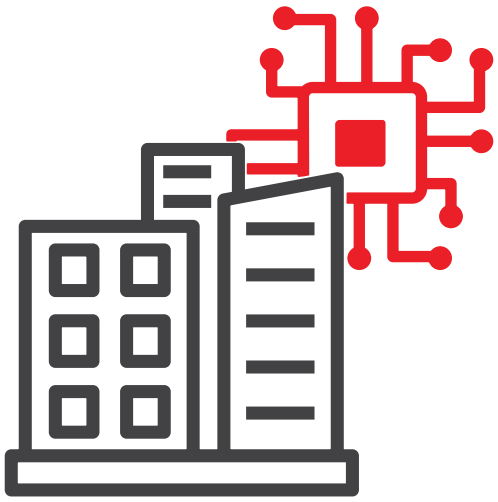
Toward sustainable data centres: Improving efficiency with a hyperconverged infrastructure

Enterprises' sustainability targets are taking on increased importance for investors, regulators, boards, and consumers. So where can businesses look to cut their emissions?

The answer is the technology driving their data centres.



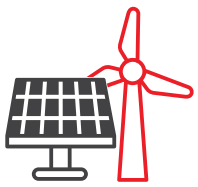
By adopting a modern hyperconverged infrastructure (HCI), enterprises in EMEA can save up to €8 bn in electricity costs and cut consumption by at least **26%** over the next three years.

In EMEA, the **old, 3-tier way** of running data centres generated as much CO2 as nearly **6m** vehicles did in 2021.

Source: Atlantic Ventures Report, Improving Sustainability in Data Centers

Intel® has made key investments to advance data centre sustainability.

Intel® Xeon® platforms are:



- **Made with 80% renewable electricity globally.**

- **Committed to a tenfold increase in energy efficiency by 2030 for client and server CPUs.**

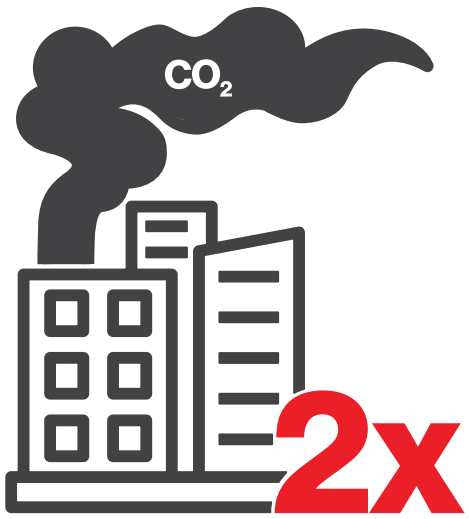
Source: Intel. Please see the link at the end.

The energy requirements for data centres and digital infrastructures are growing as businesses transform to meet customer demands and remain competitive.

463 exabytes

of data will be generated **each day by 2025.**

Source: The World Economic Forum, How much data is generated each day?



Data centres are expected to grow dynamically at **10 to 20 percent per year to 2030.** This will double CO2 emissions.

Source: Atlantic Ventures Report, Improving Sustainability in Data Centers.

The impact of IT and data centres is huge.

Global data centres account for **1.5% of worldwide energy consumption, which is equivalent in terms of CO2 emissions to global aviation.**

Source: Atlantic Ventures Report, Improving Sustainability in Data Centers.

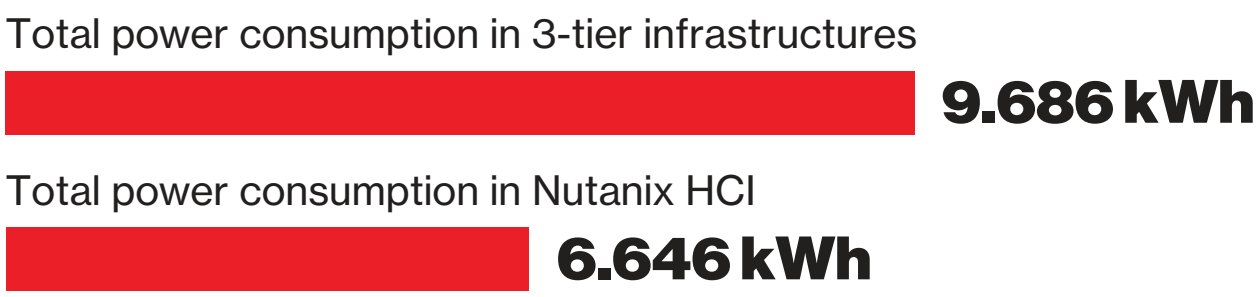
Enterprises can lower data centre energy consumption with more efficient technologies like hyperconverged infrastructure.

48%

Of companies said they benefited from sustainable technology with **increased revenues.**

Source: Accenture, Uniting technology and sustainability report.

A hyperconverged infrastructure with Nutanix may help you reduce emissions and drive energy efficiency (varies by use case).



(500VM's / 500TB)

Source: Nutanix Cloud Economists' use case calculation.

Find out how you can make your data centre more sustainable with hyperconverged infrastructure.

Source: Atlantic Ventures Report, Improving Sustainability in Data Centers.

Learn more about how Intel is advancing

data centre sustainability.

This report was created and published by Foundry

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