CIO

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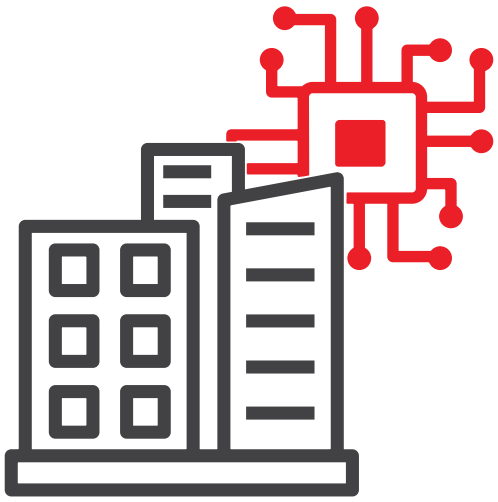
# Toward sustainable data centres: Improving efficiency with a hyperconverged infrastructure

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.



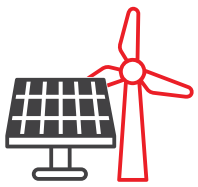
By adopting a modern hyperconverged infrastructure (HCI), enterprises in EMEA can save up to €8 bn in electricity costs and cut consumption by at least **26%** over the next three years.

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.**

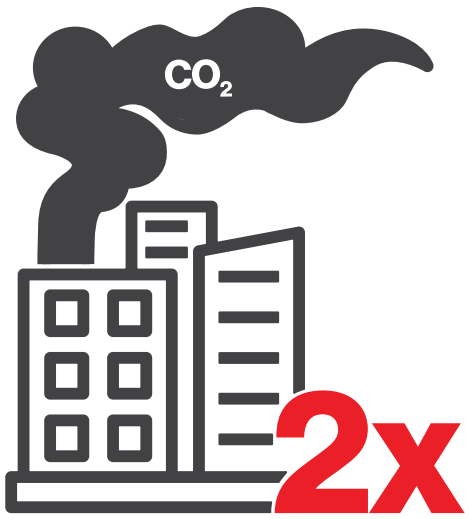
Source: Intel. Please see the link at the end.

### 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.

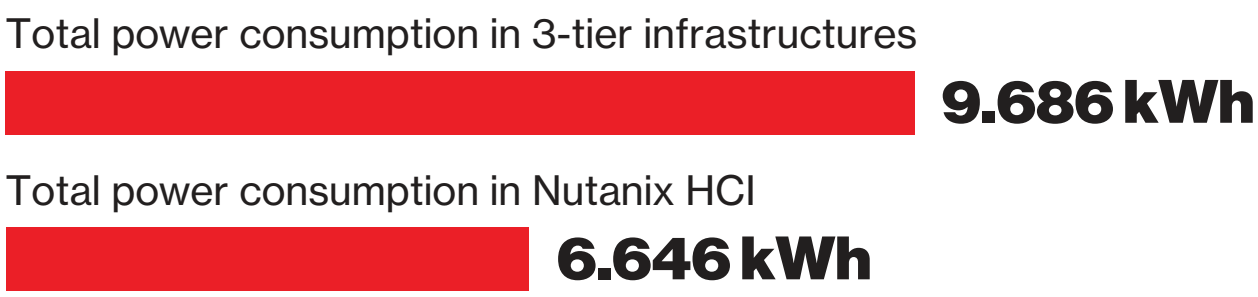
## Enterprises can lower data centre energy consumption with more efficient technologies like hyperconverged infrastructure.

# 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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