How much energy do data centres consume worldwide?

By 2040 data centre energy use could reach 14% of global emissions.

It is estimated that there are 50 billion devices connected to the internet at any one time.

With over 175 Zettabytes of data expected to be generated by 2025, data centres will continue to play a vital role in keeping us connected. Data centres surely are the backbone of the internet, however in light of Earth Day, do data centres need to turn to clean energy sources and dramatically improve energy efficiency?

Video streaming accounts for nearly 80% of global internet traffic.

Failure to source renewable energy could make data centres one of the biggest polluters in just seven years.

Data centre energy consumption globally amounted to 40% more than all energy consumed by the UK.

Only 19% of data centres use part of their waste heat.

Global internet traffic has trippled since 2015 and by 2022 is expected to reach a further 4.2 Zettabyates per year.

Earth Day

Typical data centre energy usage

73%
COAL

23%
RENEWABLE ENERGY

4%
NUCLEAR