PANDUIT™

AI Revolution: Statistics that are Reshaping the Data Centers of Tomorrow

The growing interest in the role of AI in the Data Center continues to take priority across Data Center operators and is expected to continue to rise for the next several years. The time is now to start strategically developing a plan to incorporate AI within Data Center infrastructures and to reconceptualize the way fiber, power, and cooling will guide the layout.

AI Demand Continues to Rise in the Data Center Market

AI is Expected to Contribute **$15.7 TRILLION** to the Global Economy by 2030[1]

63% OF IT PROFESSIONALS PLAN to Increase their AI Investment Over the Next Three Years[2]

AI Market is Projected to **REACH $407 BILLION** by 2027 with Annual Growth Rate **OF 37.3%** Between 2023 and 2030[3]

DID YOU KNOW ?

Did you know that Netflix saves $1 billion a year by leveraging AI[4]?

Fiber Optics Enables High Speed, Low Latency Networks

4X MORE FIBERS are Needed for AI than Standard Compute

ONLY 21% OF COMPANIES Say their Network has Optimal Latency to Support Demanding AI Workloads[5]

DID YOU KNOW ?

NVIDIA

Did you know Nvidia expects to deliver 100,000 AI server platforms this year and 1.5 million by 2027[6]?

Power Usage will Surge with Generative Artificial Intelligence

A ChatGPT Query Needs Nearly **10X MORE ELECTRICITY** as a Google Search[7]

10X INCREASE in Power Usage per Rack for AI Compared to Standard Servers

10% OF ALL DATA CENTER POWER will be Used by AI in 2024 and will Double to 20% by 2027[8]

2X GROWTH in DC Global Power Usage from 2023 to 2026[9]

Power Demands will Require Innovative Cooling Methods

AI-driven Energy Optimizations can **LEAD TO A 40% REDUCTION** in Cooling Costs[10]

Liquid Cooling Systems can Reduce Facility Power by **NEARLY 20%** and Total Data Center Power by **MORE THAN 10%**[11]

As AI Shifts the Data Center Landscape Our Team of AI-Ready Experts is Here to Assist

Learn more how we can help by contacting us **here.**

RESOURCE LINKS:

[1] PwC
[2] McKinsey Global Institute
[3] Forbes
[4] FACTSPAN
[5] Cisco
[6] Forbes
[7] Goldman Sachs
[8] New York Times
[9] Data Center Dynamics
[10] DataBank
[11] Forbes