

AI IS CHANGING THE RULES FOR DATA CENTRE DESIGN

The data centre industry is reimagining data centre design, with some hitting pause to figure out their next steps. Given the growing demand for increased bandwidth, it's essential to design sites that meet today's needs and align with the technology requirements of tomorrow.

A holistic approach to data centre design starts with the following key principles.



CREATE A SHARED VISION

Strategically plan data centres to meet current and future AI and non-AI compute demands – make business-driven decisions that prioritise long-term efficiency over short-term cost savings.



DON'T WORK IN SILOS

Bring together all areas of the data centre – operations, security, power, cooling and cabling teams – they have a role to play in a collaborative design approach.



DON'T FORGET YOUR FOUNDATIONS

Prioritise structured cabling – often overlooked amid power and cooling allocations – in budget planning, to ensure a robust foundation for seamless connectivity.



BEWARE OF FALSE ECONOMIES

Cabling connects all areas of the data centre – meaning high-quality cabling is key to preserve data centre hardware value, reduce re-fit needs, minimise SLA risks, and extends operational lifespan.



BE READY TO ADAPT

Continuously changing data centre design is not financially viable. Operators must ensure that data centre infrastructure is fit for purpose, yet flexible – to avoid making expensive, or irreversible design mistakes.



USE AI TO YOUR ADVANTAGE

AI can support operational teams in managing and designing data centres, enhancing sustainability through optimised cooling and power usage, as well as modeling and deploying systems for capturing and reusing waste heat.

With 30 years experience working with leading data centre customers, Onnec understands that today's operators need to take a more holistic approach to data centre design – a design that considers all parts of the data centre to deliver on customers needs and prolong their lifecycle.

If you'd like to learn more about the challenges of AI, the importance of holistic design and the critical foundation that cabling provides, **Speak with Onnec today.**