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MAY 7, 2026

Reducing Cost & Risk in Data Centres

Technology, Energy & Construction Alignment

By David Bowcott

Modern data centres sit at the convergence of three industries that have traditionally operated in parallel rather than in partnership: technology, energy, and construction. As demand for compute continues to accelerate and facilities grow larger, denser, and more mission-critical, that separation is no longer sustainable.

The performance, resilience, and long-term economics of a data centre increasingly depend on how effectively these three sectors collaborate across the full lifecycle of the asset—from initial design through construction and into steady-state operations.

From a risk and insurance perspective, data centres are among the most complex assets being developed today. They are capital-intensive, energy-dependent, technologically sensitive, and operationally unforgiving. Even small disruptions—whether caused by power instability, cooling failures, water intrusion, or construction defects—can result in material financial loss and reputational damage. Achieving strong uptime results is therefore not simply a technical objective; it is the outcome of deliberate coordination across disciplines that historically sat in silos.

The risks faced by data centres are well understood yet often underestimated in how interconnected they are. Energy consumption is substantial and continuous, making power reliability and pricing among the most significant operational considerations over the life of the facility. Thermal management is equally critical, as high-density environments generate immense heat and require cooling systems that perform reliably across a wide range of external conditions. Physical exposure adds another layer of complexity. Data centres must be protected against catastrophic events such as flooding and extreme weather, as well as more frequent but no less disruptive risks like heavy rainfall, groundwater ingress, and HVAC failure. Climate volatility has only heightened the importance of site selection, building envelope design, and drainage strategies.

Overlaying all of this is construction risk. Data centres involve complex mechanical and electrical systems, long-lead critical equipment, and highly sequenced installation timelines. Decisions made during design and construction have lasting implications for resilience, maintainability, and insurability once the facility becomes operational. This is where collaboration between the technology owner, the energy partner, and the construction team becomes a material differentiator.

Early and meaningful engagement between data centre owners and energy providers allows power strategy to be treated as a core design input rather

than a downstream procurement exercise. Beyond securing capacity, collaboration enables a more nuanced evaluation of grid resilience, redundancy architecture, on-site generation, energy storage, and pricing structures. Over time, these decisions can materially reduce exposure to power-related outages and operating cost volatility—two areas that insurers scrutinize closely when assessing business interruption risk.

The construction sector, in turn, plays a critical role in translating these strategies into a resilient physical asset. When contractors and engineers are involved early and aligned with both the technology owner and energy partner, opportunities emerge to optimize layouts, reduce cooling inefficiencies, harden the building envelope, and protect critical equipment from environmental exposure. Thoughtful sequencing, robust quality control, and disciplined commissioning reduce the likelihood of defects that can otherwise surface months or years into operation.

From an insurance standpoint, this level of coordination matters. Insurers increasingly assess data centres holistically, looking beyond specifications and capacity to understand how risk is managed across design, build, and operations. Projects that demonstrate strong governance, integrated planning, and clear accountability across partners are consistently viewed as better risks. This can translate into broader coverage, more stable pricing, and fewer restrictive terms during both the construction and operational phases.

Perhaps most importantly, a well-planned and well-executed data centre creates optionality in how risk is financed. Owners with mature design, construction, and operational practices are not limited to a binary choice of transferring all risk to the insurance market. Where risk is well understood, well engineered, and continuously monitored, there may be opportunities to retain certain layers of exposure in a deliberate and economically efficient way. This might include higher deductibles, structured retentions, or alternative risk financing strategies that align with the owner's balance sheet and risk appetite.

In this context, strong collaboration across the technology, energy, and construction partners does more than improve uptime or lower operating costs. It can meaningfully reduce the total cost of risk over the life of the asset and create a financial advantage for owners who are willing to treat risk management as a strategic capability rather than a compliance exercise.

As data centres continue to underpin the global digital economy, the most successful facilities will not be those that simply deploy the latest technology or secure the lowest-cost power. They will be the ones where owners, energy partners, and builders work as an integrated team—aligning processes, sharing data, and designing resilience into the asset from day one. From a risk advisory and insurance perspective, that collaboration is not just best practice; it is increasingly the foundation for superior operational performance, stronger insurance outcomes, and more efficient capital deployment.

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