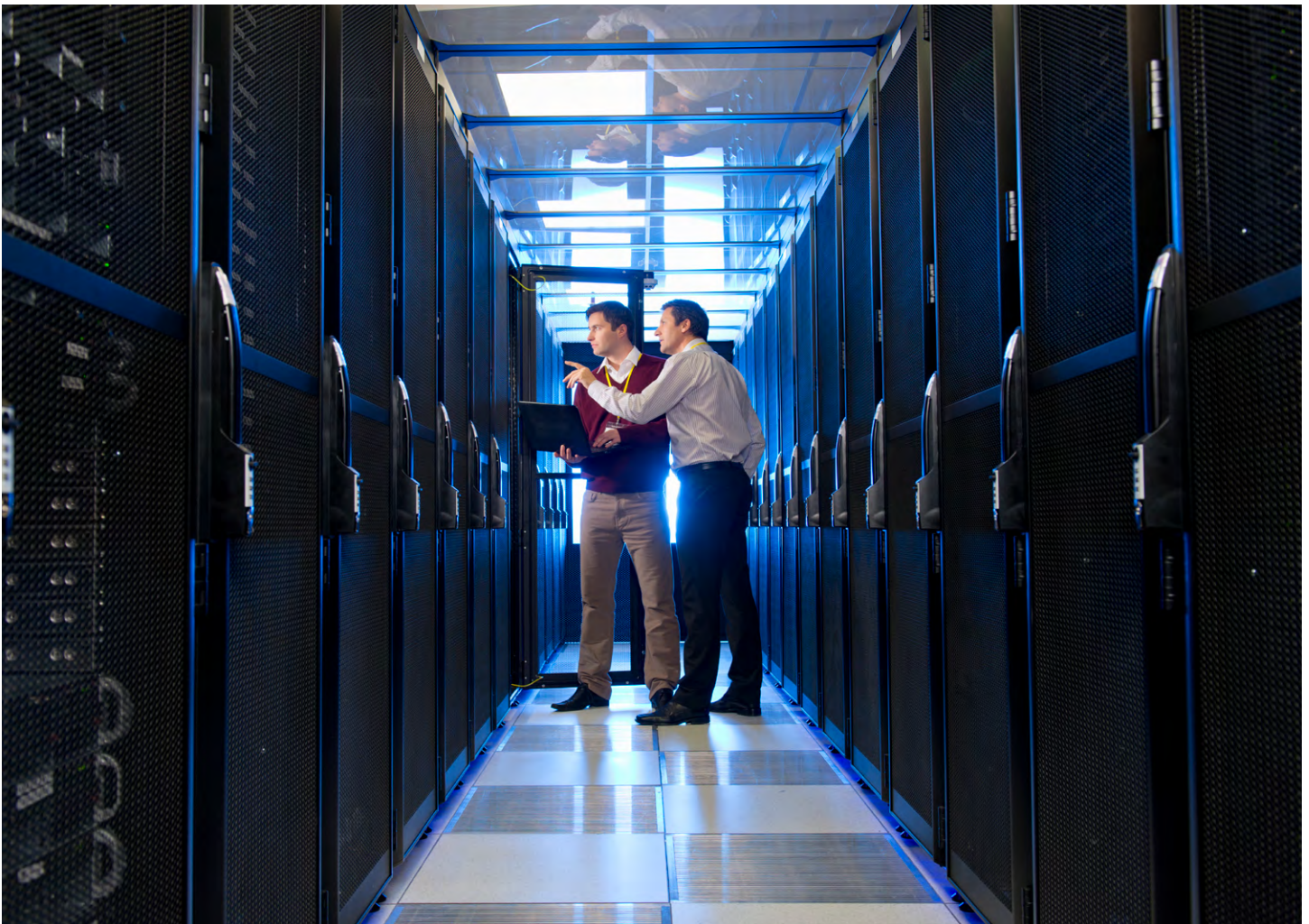


The Impact of Power Outages on Data Centers

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From telecommunications to banking, so much of our daily online interactions rely on data centers. That's why these facilities that make our digital interactions possible put measures in place to maximize uptime. The consequences can be severe. This document explains the different ways power disruptions impact data centers



Downtime

The immediate impact of a power outage on a data center is the disruption of essential services, including banking transactions, online shopping, cloud computing, and telecommunication services. Any downtime, even for mere second, can result in a significant loss of revenue, reputation, and customer trust. Additionally, it can be challenging for facilities to meet service-level agreements.



Data Loss

Power outages pose significant risks to IT systems as they may result in lost data, corrupt files, and damaged equipment. For an on-premises data center, it is essential to have a backup system seamlessly integrated into the power infrastructure to guarantee the continuous operation of critical systems even during power interruptions.



Equipment Damage

Outages put tremendous strain on the data center's hardware and equipment. Sensitive electrical equipment is susceptible to damages brought by surges, voltage spikes, and voltage slumps. This can speed up equipment lifecycle and lead to costly replacements.



Conclusion

The impact of power outages on data centers is multifaceted and complex. The stakes are high for both businesses and consumers. This is why ensuring the resilience and durability of the infrastructure is vital. Data centers need to proactively mitigate potential power disruptions, prepare disaster recovery strategies, and maintain a stable environment to avoid costly data loss and downtime. Ultimately, the long-term consequences of an outage on a data center can reverberate for years, making prevention the best course of action.

From [extreme weather conditions](#) to supply chain issues, there are several forces driving grid disturbances and they show no signs of stopping. Deploying a backup power system to drive power availability can help data centers mitigate interruptions and continue providing quality services to their customers. Facilities can also combat grid instability by collaborating with their providers and having an [adequate maintenance and testing program](#).

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