

August 2026

Issue 08 Volume 16

frogworks

Managing Your Technology So Your Business Doesn't Croak.



Ribb"IT" Review

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Data Centers Are Overwhelming Power Grids Worldwide

The digital economy runs on electricity. Every cloud app, AI model, and streaming service depends on massive infrastructure humming behind the scenes.

Today, that infrastructure is growing so fast it's starting to collide with a very real limit: available power. The explosion in data center energy consumption is pushing electricity networks worldwide to their limits, straining data center power grids. For proof, look no further than London.

The AI Power Crunch Is No Longer Theoretical

Many people don't realize how much electricity data centers use: one large AI-focused data center can suck up as much power as 100,000 homes. In London, this means the electricity network is under noticeable strain. With dozens of data centers built or planned in west London alone, the local grid has hit capacity limits, and several completed housing developments may not receive full grid connections until as late as 2037.

The fact is, there simply isn't enough electricity available to power everything trying to plug in at once. When residential housing has to wait years for power, it signals a deeper structural problem with power grid strain from data centers.

This issue isn't isolated to the UK, either. Worldwide, global electricity demand and IT infrastructure are clashing head-on.

In the US, data center power needs are projected to jump 22% just next year, nearly tripling by 2030. Hyperscale facilities are straining regional grids and driving up costs for everyone else. This leads to energy challenges in large-scale data centers, from blackout risks to delayed projects across industries.

For business owners, this matters. Not only are costs increasing, but energy constraints also delay development. Tighter access to high-capacity connections also influences where businesses expand or relocate.



This monthly publication
provided courtesy of:
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Data Centers Are Overwhelming Power Grids Worldwide

Why Data Centers Consume so Much Energy

Modern data centers aren't just server warehouses. They are energy-dense facilities that run nonstop. AI workloads require enormous computing power and advanced cooling systems, so data center energy consumption has surged far beyond earlier forecasts.

So, what can you do to support data centers' power grid reliability?

Businesses that rely heavily on IT systems should start factoring energy availability into their strategies.

This could mean:

- Going energy-smart with your IT. Audit your cloud usage and choose providers that prioritize efficient, low-carbon data centers. Look for ones using renewables or advanced cooling tech to cut data center energy consumption.
- Planning for resilience. Factor in potential power disruptions and invest in backup generators or edge computing (processing data closer to the source) to reduce dependency on massive centers.
- Pushing for sustainable partners. Supporting companies investing in on-site renewables or efficient designs helps ease overall power grid strain from data centers.

Facing What Comes Next

The pressure on data centers' power grids is unlikely to ease anytime soon. AI adoption is accelerating, cloud usage continues to grow, and power infrastructure upgrades take years to complete.

For business owners, the message is clear. Energy is no longer just an operating expense; it's becoming a strategic constraint. Those who understand that shift early will be better positioned to adapt, invest wisely, and avoid falling on the wrong side of the power switch.



Technology Reduces Friction Across Daily Small Business Operations

Even with recent advances in technology, many people still experience friction in the workplace due to operational processes. That friction is problematic, as it can lead to reduced productivity, declining employee morale, and increased operational costs. Learning how technology improves small business operations helps streamline operations.

Automation Streamlines Daily Business Tasks

One of the key systems small businesses should incorporate into their operational processes is automation. Automating repetitive or tedious tasks helps minimize friction by shortening the time it takes to handle everything from data entry to reporting.

Through automation, businesses can complete tasks faster and with greater accuracy. Automation also reduces bottlenecks by streamlining workflows and reducing the number of steps necessary to finish routine tasks.

AI Improves Small Business Workflow Efficiency

When learning how technology reduces friction in business operations, it's important not to overlook the benefits of AI. AI can enhance workflow efficiency by quickly analyzing data to provide real-time insights that support faster decision-making. Instead of depending solely on manual or outdated processes, small businesses can use AI tools to identify patterns and improve operations by streamlining processes.

AI can also help reduce the friction businesses experience with customer interactions. These intelligent and adaptive systems can automate responses based on customer behaviors and assist directly with customer interactions. Customers appreciate fast transactions, positive and timely interactions, and quality engagement with businesses, which help build trust and loyalty.



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Self-Service Technology Reduces Operational Friction

Self-service technology allows employees and customers alike to resolve issues independently, which reduces the need for manual support while minimizing delays. Businesses can incorporate tools like automated help systems, knowledge bases, and guided workflows into their daily operations to provide quick access to information and potential solutions to problems that arise for customers and workers.

When people can find answers to problems without interacting with multiple people or systems, it helps businesses reduce wait times and improve their overall efficiency. Well-designed self-service systems also create a smoother user experience by offering clear guidance to prevent confusion and eliminate unnecessary friction.

Smart Tools Simplify Business Operations

Small businesses can help reduce the "swivel chair" effect that many enterprises experience when they encounter friction. Through automation, cloud-based tools, and disparate system integration, businesses won't have to constantly switch between applications to complete tasks. Instead, they can save time and reduce errors using a fully integrated system.

AI Frees Employees for Higher-Value Work

Frictionless systems boost business productivity by reducing or entirely eliminating repetitive, time-consuming tasks. Through AI-enhanced automation, routine processes like data entry, scheduling, and basic customer interactions are simplified. When employees spend less time on manual work, they can focus more on higher-value responsibilities, such as problem-solving, strategizing, and customer engagement.

Understanding how technology improves small business operations helps business owners identify opportunities to reduce inefficiencies and streamline workflows. By combining AI with automation, businesses can improve productivity, lower costs, and stay competitive.

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