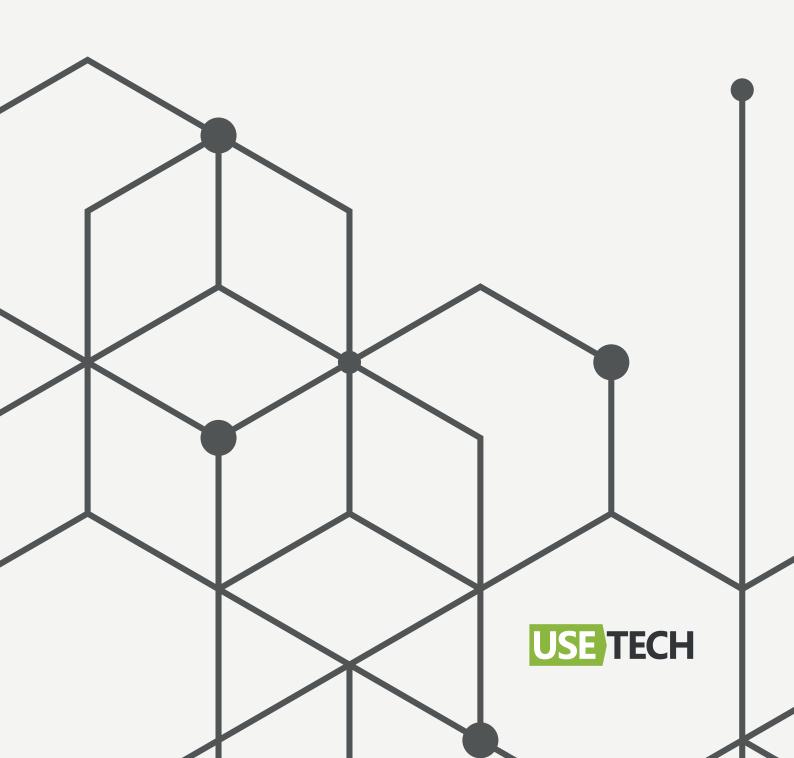
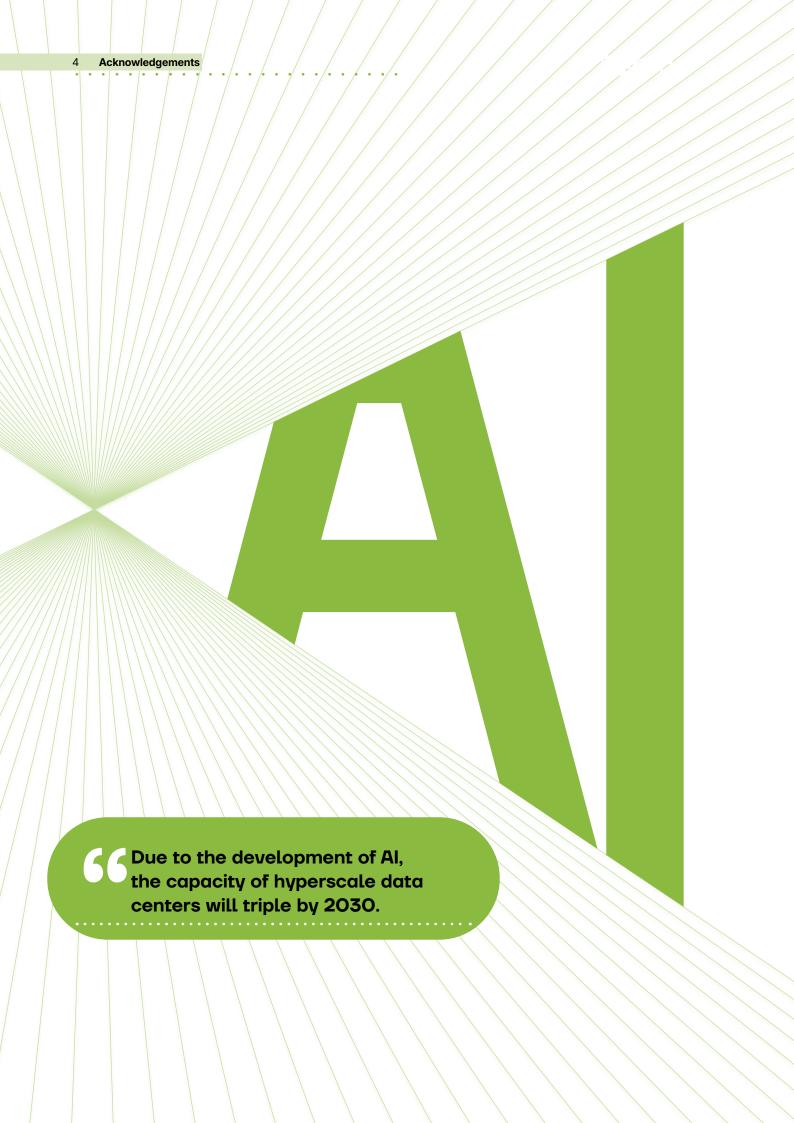
# THE FUTURE OF DATA CENTERS



### Contents

ACKNOWLEDGEMENTS	5
LETTER FROM THE CEO	6
TRENDS OF DATA CENTERS IN THE MIDDLE EAST	8
Hyperscale Expansion and Cloud Localization	10
Green and Sustainable Infrastructure	10
Edge Computing and 5G-Driven Micro Data Centers	11
Data Sovereignty and Regulatory Alignment	11
Private Cloud and Colocation Growth for Enterprises	12
ADVANTAGES OF IMPLEMENTING DATA CENTERS	. 13
THE DIGITAL DILEMMA: CAN DATA CENTERS GO GREEN?	. 18
The Big Tech focus	20
Data Centers and the SDGs	21
The Path Forward	2′
HYBRID DATA CENTERS IN MENA: IBM TURBONOMIC AND OCTOPUS BY USETECH COMPARED BY GLOBAL ANALYSTS	. 22
THE DATA CENTER IMPLEMENTATION INDUSTRIES	. 26
OCTOPUS — YOUR POWERFUL DATA CENTER	. 30
DATA CENTERS AT THEIR LIMITS: HOW BUSINESSES CAN MANAGE GROWING SERVER RESOURCE DEMANDS	. 32
ABOUT USETECH	37
FOR NOTES	40



# KNOWLE

We express our deep gratitude to everyone who helped in the preparation of the material — participated in interviews, wrote articles and comments, coordinated the material, came up with the design and layout. Without you and your involvement, this issue would not have turned out to be so informative and interesting. Thank you!

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## Letter from the CEO

Our goal is to expand the capabilities of the MENA region by helping it take confident steps toward digital transformation and a sustainable future through the implementation of data centers.

ow often do you take a moment to pause and reflect amid the nonstop flow of work, meetings, and tasks? Probably not often enough. I invite you to take a brief break and read the first issue of our magazine, which is dedicated to data centers and their benefits.

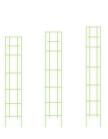
PwC experts note that the Middle East is becoming a global data center due to Artificial Intelligence, the demand for cloud technologies, and strategic investments. This development opens up unprecedented opportunities for investors.

Data centers are one of the most important areas for regional development in 2025 and will continue to grow in the coming years. This is confirmed by numerous studies conducted by analytical agencies, as well as through our communication with clients and partners.

In this magazine, you will find articles and research on trends in data center development in the Middle East and the main industries that implement them. You will also learn about the advantages of data









centers and how business indicators grow after implementation.

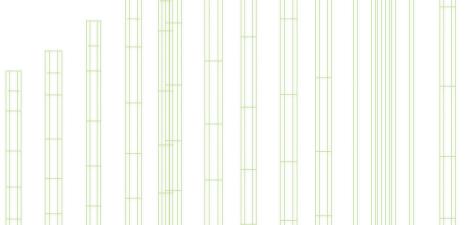
This magazine reflects the work of a large team of experts, analysts, architects, technical writers and other professionals passionate about their work. The insights presented here are an exclusive opinion based on many years of expertise and experience. The essence of any examination is the study, accumulation, and dissemination of knowledge.

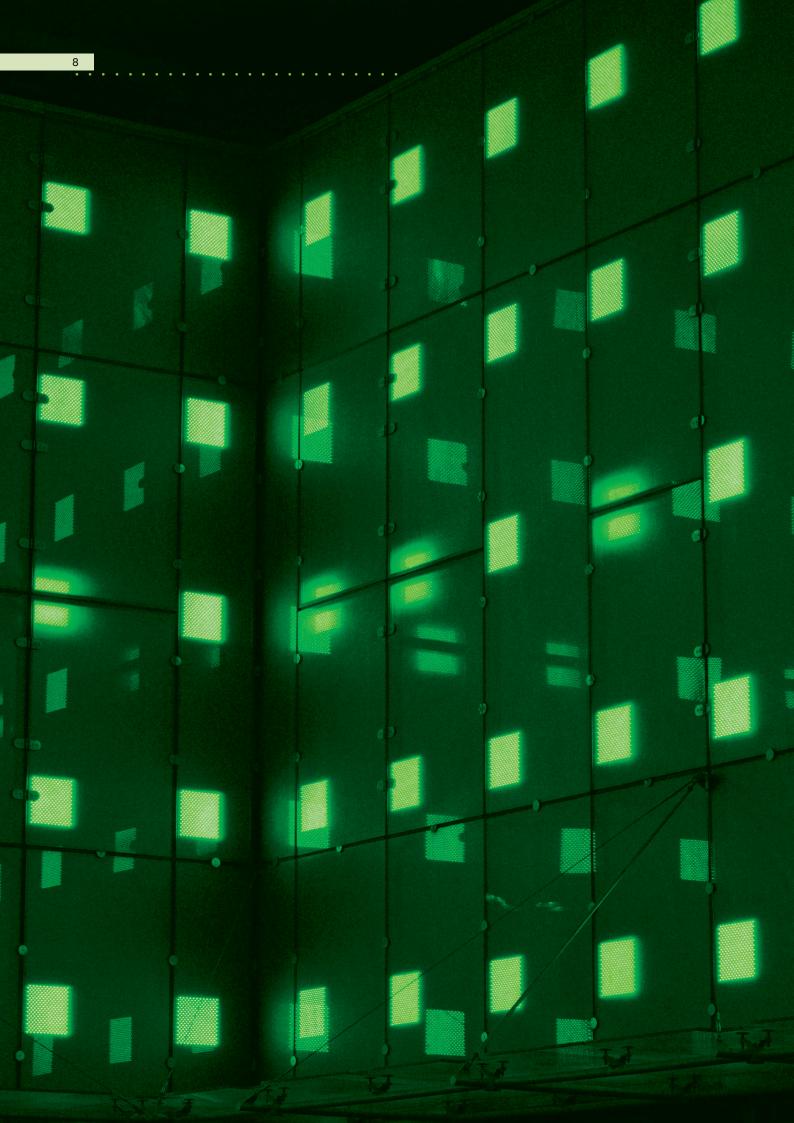
I hope you will discover new possibilities in the flow of continuous development of technologies and decide to use them. **Usetech can guide you with this.** 



Yours sincerely, Maxim Kuznetsov CEO Usetech LLC







### Trends of Data Centers in the Middle East

he Middle East's digital transformation is accelerating, driven by national visions, growing enterprise demand, and surging cloud adoption. Data centers are at the core of this transformation, with investments and innovations reshaping the regional landscape. Below are five key trends that business leaders and engineers should monitor closely.

### yperscale Expansion and Cloud Localization

Global hyperscale providers like Amazon Web Services (AWS), Microsoft Azure, Google Cloud, and Oracle are investing heavily in local data centers across the UAE, Saudi Arabia, Qatar, and beyond. This shift is propelled by data sovereignty laws, regulatory mandates, and a growing enterprise client base seeking low-latency, in-region cloud services.

- Impact for business: Enterprises gain access to scalable, cost-efficient cloud infrastructure while ensuring compliance with national data regulations.
- Engineering insight: Engineers must account for hybrid and multi-cloud environments, integrating hyperscaler APIs with local workloads, and optimizing network architecture for performance and compliance.

### reen and Sustainable Infrastructure

Energy efficiency is becoming a central concern, particularly in arid environments where cooling demands are high. Governments and operators are investing in solar-powered data centers, Al-driven energy management systems, and liquid cooling technologies.

- Impact for business: Sustainability is becoming a competitive differentiator. Regional ESG mandates are pushing organizations to adopt greener IT solutions.
- Engineering insight: There's a growing demand for skills in DCIM (Data Center Infrastructure Management), thermal modeling, and integrating renewable energy systems into existing facilities.

### dge Computing and 5G-Driven Micro Data Centers

With the rollout of 5G and smart city initiatives (e.g., NEOM in Saudi Arabia), there's a rise in edge computing to support latency-sensitive applications such as IoT, AI, and autonomous systems.

- Impact for business: Businesses in logistics, healthcare, and retail are leveraging edge computing for real-time analytics and automation closer to data sources.
- Engineering insight: EEdge data centers require modular design, efficient power usage, and robust physical security, often in smaller, distributed form factors. Engineers must rethink traditional architectures for rapid deployment and scale.

### Data Sovereignty and Regulatory Alignment

National data protection regulations — such as Saudi Arabia's PDPL or the UAE's data localization frameworks — are reshaping how and where data can be stored and processed. This trend is influencing data center site selection, operational practices, and cross-border data flow strategies.

- Impact for business: Companies must ensure that their IT strategies align with local legal frameworks, or risk penalties and reputational damage.
- Engineering insight: This requires implementing geo-fencing technologies, data residency controls, and auditing systems that track data movement across jurisdictions.

### rivate Cloud and Colocation Growth for Enterprises

Despite hyperscaler dominance, many enterprises are opting for private clouds and colocation facilities to retain control over mission-critical workloads while avoiding massive capital expenditure. Markets like the UAE and Saudi Arabia are seeing a boom in Tier III and Tier IV colocation builds.

- Impact for business: Colocation offers agility without the need to manage physical infrastructure, appealing to financial services, oil & gas, and government sectors.
- Engineering insight: Architects
  must design hybrid systems capable
  of seamless interoperability between
  colocated infrastructure and public cloud
  platforms, with a focus on SLA compliance and physical/network redundancy.

he Middle East's data center landscape is evolving from centralized,
government-led infrastructure
to a dynamic, cloud-native ecosystem.
For business leaders, the key is agility —
leveraging these trends to enable digital
transformation while staying compliant and competitive. For engineers, the
challenge lies in mastering new architectures, energy models, and integration
strategies that bridge traditional infrastructure with emerging technologies.

### Advantages of Implementing Data Centers





Author:
Julia
Voloshchenko

Lead PR Manager at Usetech

1

### Enhanced Data Security and Compliance

Data centers provide robust physical and cybersecurity controls, helping organizations protect sensitive information from breaches and comply with regulations like GDPR, HIPAA, or regional laws. They offer controlled access, monitoring, and disaster recovery capabilities to safeguard data integrity.

2

### Improved Reliability and Uptime

Data centers provide robust physical and cybersecurity controls, helping organizations protect sensitive information from breaches and comply with regulations like GDPR, HIPAA, or regional laws. They offer controlled access, monitoring, and disaster recovery capabilities to safeguard data integrity.

3

### Scalability and Flexibility

Modern data centers enable organizations to scale IT resources up or down based on demand. This agility supports business growth, seasonal spikes, or new service rollouts without significant upfront investment in infrastructure.

4

### **Cost Efficiency**

Centralized infrastructure reduces the need for on-premises hardware and maintenance. Through economies of scale, data centers offer shared resources, lowering operational expenses and capital expenditures over time.

5

### Enhanced Performance and Speed

With optimized network architecture and proximity to end-users, data centers reduce latency and improve application performance. This is critical for real-time services such as video streaming, e-commerce, and financial trading.

6

### Disaster Recovery and Business Continuity

Data centers implement rigorous backup and failover mechanisms. In the event of a natural disaster, cyberattack, or hardware failure, data centers ensure rapid recovery, minimizing disruption and data loss.

7

### Support for Emerging Technologies

Data centers provide the infrastructure backbone needed for AI, big data analytics, IoT, and cloud computing. They enable fast processing and storage capabilities required by advanced applications.

8

### Enhanced Data Security and Compliance

Data centers provide robust physical and cybersecurity controls, helping organizations protect sensitive information from breaches and comply with regulations like GDPR, HIPAA, or regional laws. They offer controlled access, monitoring, and disaster recovery capabilities to safeguard data integrity.

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10

### Scalability and Flexibility

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he data center market in the United Arab Emirates is estimated to reach 429.3 MW by 2024, with an expected growth to 841 MW by 2029<sup>2</sup>.

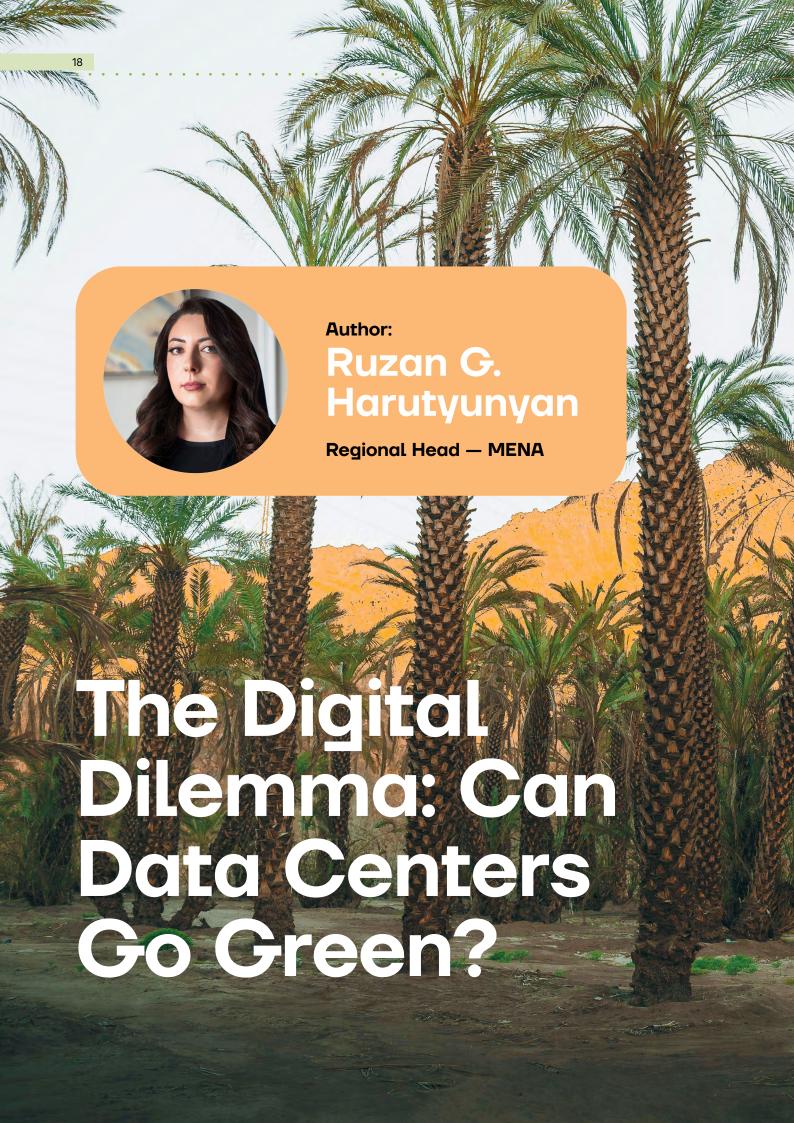
The Saudi Arabian data center market is estimated to reach 345.3 MW by 2024, growing to 854.8 MW by 2029<sup>3</sup>.

There are 38 colocation data centers in the United Arab Emirates. Factors contributing to the growth of the country's data center market include the introduction of 5G technology, increased smartphone usage, and digitalization<sup>4</sup>.











According to the International Energy Agency, data centers could more than double their electricity use by 2030, largely driven by artificial intelligence and cloud computing. In the U.S. alone, they already account for 4.4% of national power consumption. If nothing changes, that could climb close to 12% by 2028.

The MENA region is announced as an Al Hub and the data center market is experiencing fast expansion. New hyperscale facilities, Al infrastructure, smart city projects, and public-sector digitalization are accelerating demand, which will likely cause data center electricity use—currently modest—to rise substantially.

And it's not just energy. Many data centers rely on water for cooling, drawing millions of liters each year in regions where water scarcity is already a problem. Building these facilities also requires steel, concrete, and complex hardware, all of which come with their own carbon footprints.

This growing demand creates a paradox: the same technology that powers innovation and efficiency risks undermining global sustainability goals unless the industry finds smarter ways to grow.

### The Big Tech focus

The largest tech companies are racing to build greener data centers while meeting uprise demand:

- Google is aiming for 24/7 carbon-free energy by 2030, making sure every hour of its operations runs on clean power.
- Microsoft has launched zero-water cooling designs for Al-focused sites and plans to be carbon negative by 2030.

- Amazon Web Services (AWS) is reusing recycled water, investing in low-carbon construction materials, and renovating servers to cut waste.
- Meta runs some of the most efficient facilities in the world and is testing heat reuse, sending excess energy to local communities.
- Apple is pushing its supply chain to go green, with a goal of full carbon neutrality by 2030.

These commitments are impressive. But here's the catch: while efficiency per server improves, the total demand for computing — especially AI — is growing so fast that emissions and water use may still rise.



### Data Centers and the SDGs

Data centers touch many of the UN Sustainable Development Goals (SDGs). Their impact is a mix of positive and negative:

- Clean Energy (SDG 7): Tech giants have become some of the biggest buyers of renewable energy, helping accelerate the shift to clean power. But in some regions, demand still outpaces the availability of renewables, meaning fossil fuels fill the gap.
- Climate Action (SDG 13): Efficiency gains and renewable investments are good, but without faster grid decarbonization, growing compute demand can still drive emissions up.
- Responsible Consumption (SDG 12):
   Circular design and refurbished servers reduce e-waste though frequent hardware upgrades remain a problem.
- Sustainable Cities (SDG 11): Heat-reuse projects can warm homes, but massive campuses can strain local infrastructure if poorly planned.

Data centers can support or undermine the SDGs depending on how they're built, powered, and managed.

### The Path Forward

There's no single solution, but several approaches are emerging:

 Smarter energy use — from liquid cooling to higher server temperatures to Al-driven workload scheduling.

- 24/7 clean energy not just buying green offsets but matching energy use with local renewable supply hour by hour.
- Water stewardship using recycled or non-potable water, shifting to closedloop cooling, and designing zero-water facilities where possible.
- Intelligent IT Optimization: Solutions like
  Octopus from Usetech can boost data
  center efficiency by up to 30% through
  intelligent resource balancing, predictive load management, and automated
  recommendations reducing downtime
  and preventing server failures.
- Circularity and reuse designing servers and data centers, so components can be refurbished, recycled, or repurposed.
- Transparency and accountability public reporting on power, water, and emissions is becoming standard, and regulators especially in Europe are making it mandatory.

The digital economy is expanding — and data centers are both the engines and the exhaust pipes of this transformation. Big Tech's sustainability pledges are bold, and technological innovation is impressive, but without deeper coordination with energy grids, water systems, and supply chains, the environmental footprint will continue to grow.

Data centers can — and must — evolve from energy consumers into climate solutions. That shift requires policy alignment, corporate accountability, and engineering breakthroughs. The stakes are global: our ability to meet the SDGs, decarbonize economies, and sustain digital growth depends on whether we succeed.

### **Hybrid Data** Centers in MENA: **IBM Turbonomic** and Octopus by Usetech Compared by Global Analysts



**Author:** 

Ilya Smirnov

Head of AlδML
Department at Usetech

he expansion of the digital economy in the Middle East and North Africa (MENA) region is accompanied by rapid growth in the data center market, cloud transformation, and the introduction of intelligent resource management systems. According to Gartner and IDC, IT service spending in the region will exceed \$169 billion by 2026, and the share of multi-cloud data centers will continue to grow amid high business demand for flexibility, security, and efficiency. International analysts emphasize that infrastructure automation, Al integration, and hybrid architectures are becoming key success factors — it is in this area that global market leader IBM **Turbonomic and fast-growing Octopus** from Usetech are competing today.

### Trends and challenges: Analytics from global agencies

The latest reports from Gartner and IDC note the growing transition of MENA to hybrid and cloud models: more than 60% of large regional enterprises already use multi-cloud environments for business operations, actively implementing infrastructure platforms with CI/CD and machine learning support. The growth in the number of IoT devices, the development of 5G/optics, and the integration of AI are becoming drivers for data center scaling. Analysts emphasize:

- The implementation of automatic workload management tools.
- The imperative of transparent and predictive cost planning.
- The need to integrate multi-cloud architectures.
- The relevance of adapting solutions to the requirements of local regulators.

### IBM Turbonomic: the global leader in enterprise automation

IBM Turbonomic is recognized in IDC and Gartner reviews as the benchmark for enterprise platforms for the automatic distribution of computing resources between clouds, virtual machines, and containers, as well as for the application of artificial intelligence in monitoring and predictive analytics. Key features include:

- Deep integration with AWS, Azure,
   Google Cloud, IBM Cloud, and VMware.
- Use of Al to optimize load in real time and reduce operating costs.
- Support for enterprise security requirements for data centers of banks, telecommunications companies, and government agencies.
- An innovative approach to monitoring, balancing, and automation — from the cloud to edge infrastructure.

According to GlobeNewswire, Gartner, and Forrester, Turbonomic and similar solutions accelerate the deployment of new services and reduce infrastructure downtime by 20-40%.



nized as one of the best AI solutions in MEA by MEA Markets) focused on flexibility, rapid deployment, and reducing infrastructure costs for industrial and government data centers in MENA:

- Compatibility with global hypervisors and open APIs, support for scalability in mixed IT/cloud architectures.
- Integration of automatic monitoring, predictive planning, and artificial intelligence tools for capacity management and energy consumption optimization.
- Localization and customization to meet national regulatory requirements while complying with global security standards.

According to MEA Markets and reports from international integrators, Octopus demonstrates a 30-40% reduction in IT costs and can be implemented even in mid-size centers without significant power requirements.

### Relevance for MENA: strategic conclusions

Given the region's growing markets and innovative goals, according to Gartner and IDC, automation, hybrid models, and AI integration are becoming the main drivers of growth in the competitiveness of the MENA market. In these conditions:

- IBM Turbonomic remains the standard for hyperscaler architectures and the largest banking, manufacturing, and government solutions.
- Octopus by Usetech is a platform for modernizing the infrastructure of medium-sized businesses, energy companies, and data centers as part of local and regional initiatives, meeting the requirements of flexibility, security, and optimization.

### Conclusion

Global analysts agree: building hybrid, intelligently automated data centers in the region is possible with the help of corporate (Turbonomic) and new flexible (Octopus) platforms, which will play a key role in shaping the digital future of MENA.





The Middle East is rapidly becoming a data center powerhouse, with capacity in the region projected to triple, from 1GW in 2025 to 3.3GW over the next five years. This growth is driven by a surge in cloud computing and Artificial Intelligence (AI), an increasing demand for digital infrastructure, strategic regulatory initiatives and substantial investments by both global hyperscalers and regional players. The GCC countries are at the forefront of this transformation, leveraging their unique geographical, economic and technological advantages to lead the region's evolving data center ecosystem<sup>5</sup>.

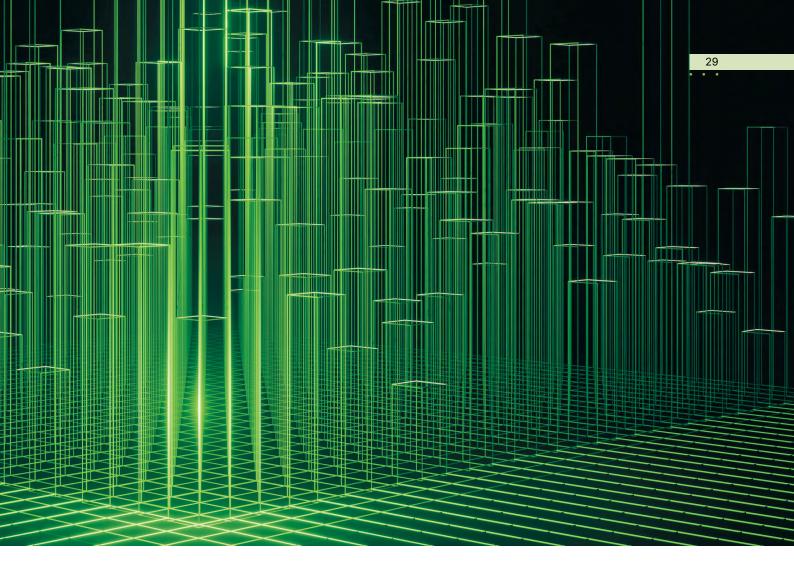


A variety of industries in the Middle East are implementing and leveraging data centers as they digitize operations, improve efficiency, and enhance service delivery. The following sectors are leading the charge:

### Government and the Public Sector

First, there is a focus on national digital transformation initiatives, smart cities projects, and e-government services.

All of this is necessary to ensure a secure, scalable, and sovereign infrastructure for citizen service, national security, and administrative operations. This is confirmed by the UAE's national strategy for the development of Artificial Intelligence under the UAE Centennial 2071 program, according to which one of the goals is to "increase the efficiency of government at all levels, using an integrated intelligent digital system capable of overcoming difficulties and providing fast, effective solutions<sup>6</sup>."



### Financial Sector (Banking & FinTech)

With the increasing adoption of online banking and fintech technologies, a secure and high-performance infrastructure is vital for transactions and cybersecurity.

The purpose of implementing Data Centers in this area is to support major banking systems, detect possible fraud, create digital wallets, and comply with data retention laws.

### Oil & Gas Sector

The oil and gas industry in the Middle East is undergoing a digital transformation, often referred to as "Oil and Gas 4.0." Companies are actively working on the implementation of advanced technologies that are already being used in other industries.: IoT, artificial intelligence, advanced computing and real-time analytics. All of this is necessary to improve exploration, drilling, production, and distribution.





### **Your powerful Data Center**

Octopus is a universal AI platform for transparent management and optimization of IT resources of any scale and architecture, from private data centers to cloud environments.

Thanks to AI/ML models, the platform dynamically balances the load on the infrastructure in real time and automatically adapts to current and projected needs. Octopus increases the efficiency and stability of data centers without changes to existing systems.

### The purpose of the system

Significant reduction of financial costs for data center expansion due to increased efficiency of use of server hardware by dynamically redistributing resources.

Improving the reliability of business-critical applications by quickly providing missing resources at peak loads. According to statistics, the actual utilization of server equipment in a "fully loaded" data center using hypervisors is usually in the range of 50% to 60%.

Thanks to Octopus, real utilization can be increased to the target 70-80%, freeing up significant data center capacity for new

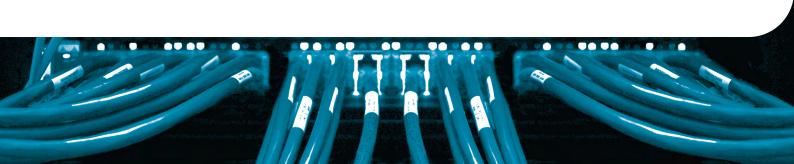
tasks, or allocating the released resources to the most resource-intensive services.

On the other hand, a sharp spike in the load of individual services deployed in the data center can lead to service failures.

In this case, Octopus can automatically allocate free resources to such services, increasing reliability.

### Advantages and business value

- Deploy to your IT landscape in 30 minutes
- Easy integration without interfering with the existing IT infrastructure
- Support for any hypervisors and cloud platforms
- Intelligent application of static models or AI/ML to ensure transparency and responsiveness
- Increase the productivity of data centers from 30%
- Cost savings of up to 40% on IT infrastructure expansion





### Case Study: Leading Oil and Gas Holding DC

Enterprise: One of the largest oil and gas conglomerates.

### Challenges:)

- Energy efficiency: DCs are notorious for their substantial energy consumption.
   Hence, managing and reducing energy usage becomes a paramount concern.
- Ensuring high availability and fault tolerance. It's crucial to have systems, backups, and other provisions in place to prevent interruptions.
- Complications in expanding hardware resources due to purchasing challenges.
- High susceptibility to human error during manual resource balancing.

### Implementation:

- A pilot implementation and debugging of Octopus was initiated.
- The solution was tested on the current capacity for 2 months with Hyper-V hypervisors (5500 VMs).
- Estimated savings of approximately 34% on costs related to buying and supporting computational equipment.
- Realized a 24% reduction in system downtimes due to overloads.

To sum it up, the Octopus solution emerges as an essential asset for enterprises aiming to optimize their IT resource utilization, particularly in environments that necessitate high computational power and efficiency.



# Data Centers at Their Limits: How Businesses Can Manage Crowing Server Resource



Demands

**Author:** 

Julia Voloshchenko

Lead PR Manager at Usetech



Al, cloud services, 5G, and smart city projects have created a data storm. Everyone — from governments to another companies — is demanding more servers, more storage, and lower latency. And fast.

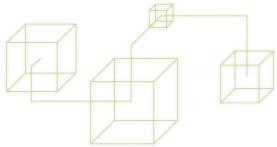
In this piece, let's unpack what's driving this digital overload, how data centers are coping, and how businesses like yours can stay ahead without blowing the fuse.

The Numbers Are Wild

Here's what's happening in cold, hard figures:

- Data center IT capacity in the GCC is expected to more than double by 2025, jumping from 383 megawatts to 839 MW<sup>7</sup>.
- The region's data center market heading for \$19.9 billion by 2031<sup>8</sup>, growing over 25% every year.
- Server spending alone will hit \$16.2 billion by 2031. That's a lot of blinking server lights?.

It's no wonder that companies and governments are scrambling to expand. Everyone's eyes are on AI, IoT, and digital services — and they're all hungry for server power.





It's a perfect digital storm.

### Data laws keeping data close

Middle Eastern countries want sensitive data stored inside their borders. That means companies need to build local capacity instead of relying on faraway data centers in Europe or Asia.

### 5G, IoT, and non-stop streaming

5G isn't just for faster social media scrolls. It powers autonomous cars, smart hospitals, and digital payment systems. All those devices need lightning-fast, nearby servers to process data in real time.

### The Al boom

Saudi Arabia's Vision 2030 and the UAE's AI Strategy 2031 pouring billions into AI, smart cities, and cloud services. And those require serious computing muscle.

### (Hyperscale mega-projects)

New mega data centers like NEOM in Saudi Arabia (a 1.5 GW net-zero Al data campus) and Stargate Hub in Abu Dhabi (5 GW planned Al infrastructure) are game changers. They're shaping how — and where — digital infrastructure is built in the region.









### Data Centers Are Feeling the Heat

Literally and figuratively.

### Underused servers

Even with shiny new equipment, many data centers only run at 5–10% utilization most of the time.

### Energy drain

Power costs are skyrocketing. Cooling alone accounts for up to 45% of a data center's electricity bill, especially in the Middle East's climate. While the global gold standard for energy efficiency (PUE ratio) is around 1.1–1.2, many regional centers still operate at a less efficient 1.5–2.0.

### So What Can Businesses Do?

No one can just throw up a brand-new hyperscale data center overnight. But there are smart moves companies can make right now.

### Virtualize and consolidate

Modern software lets you do more with fewer servers. Moving to container-based platforms and virtual machines can push utilization from 5–10% to over 50%. Less waste, lower costs.

### Switch to GPU-ready, high-density servers

Al and analytics apps need specialized hardware. Investing in GPU clusters and liquid-cooled systems can save power and boost performance.

### Go green

Co-locating near renewable energy sources (like Saudi Arabia's solar farms or Abu Dhabi's wind projects) — it slashes long-term operating costs.

### Bet on the edge

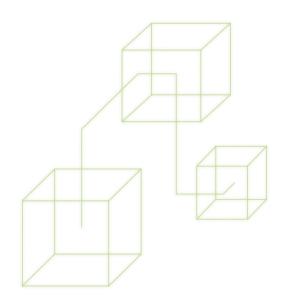
Instead of one massive data center, distribute smaller "edge" centers closer to where data is created: airports, hospitals, industrial zones. It cuts lag and keeps services humming.

### Plan smarter

Since new data centers take 18–24 months to build, businesses need to forecast their needs 2–3 years ahead. Modular, prefabricated centers can help bridge the gap faster.

### Lock down your chip supply

Secure agreements with multiple vendors (Nvidia, AMD, Qualcomm) so you're not left scrambling when geopolitical winds shift.



### A Simple, No-Nonsense Data Strategy

If you're running a business in the region, here's a playbook you can actually use:

PRIORITY	WHAT TO TACKLE	WHY IT MATTERS
Forecast server & data needs	Avoid costly surprises	Data traffic is growing  17–25% yearly
Upgrade hardware & software	Boost performance, cut costs	Modern servers = <b>5× more efficient</b>
Invest in green power & cooling	Slash energy bills	Cooling = 40–45% of costs
Build or rent modular centers	Faster to deploy	Shave <b>6–12 months</b> off timelines
Diversify your chip suppliers	Beat export bans & delays	GPU supply is tight globally
Edge data centers	Improve app speed & reliability	Essential for IoT & Al projects
Stay compliant	Avoid fines, downtime	Data laws evolving fast

### **Final Thought**

Managing surging digital demand isn't about throwing more servers at the problem. It's about smarter planning, energy efficiency, and strategic partnerships.

### About Usetech

Usetech is an international company providing AI and beyond solutions for Manufacturing, Oil & Gas, Agricultural, Steel, Banking and other industries. Usetech team has expertise in advanced technologies such as AI, Big Data, Business Intelligence, Data Science, Data Lake, DWH, Digital Twins, IoT, which is confirmed by numerous cases.

Being in the market for over 19 years, we know how difficult it is to find a company that can create an effective solution. Practicing an individual approach to each client, our team analyzes your business needs to offer a unique product to solve the necessary problems. Our unique expertise in new technologies, experienced team, and customer communication skills have helped us succeed for years.

### Data Management (DWH, Data Lake, Data Fabric)

Usetech has a high level of expertise in data warehouses design and creation, introduction of Data Lake for collection, storage, and processing of a large amount of manufacturing information (Big Data), business intelligence systems introduction, data consolidation systems and enterprise data buses (ESB, Streaming, ETL) for information systems integration.

### Internet of Things (IoT)

Usetech creates **IoT mobile applications**, **web, and desktop versions development**, smart-systems development, telemedicine, collection of data from various devices and their processing, systems of notification on technical issues based on installed sensors.

### Software Development Solutions

Relying on a personalized approach, we create a truly **unique solution** that differentiates you from your competitors and takes into account your requirements.

### Business Intelligence (Reporting, Analytics, Dashboards)

Understanding the importance of BI in everyday life, we help you work with and **apply data for the benefit** of your business.

### (UX/UI)

We know how important an attractive interface is for the first contact with a potential customer, so we'll help you create a platform that's simple and easy to use..

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