

MIDDLE EAST & NORTH AFRICA DATA CENTER RISING

From Dubai to Dammam and Cairo - How economic visions, AI and the cloud are transforming the Arab world's data center opportunity

> Report Overview – Sample Pages - Table of Contents - March 2024

We provide the market data and insights that underpin our clients' investments in digital infrastructure across Africa, the Middle East, emerging Asia and Latin America.



Introduction: Data centers as a digital anchor of the Arab world's economic transformation



- For the past decade, countries in the Middle East and North Africa (MENA) region have been engaged in an extraordinary attempt at economic transformation. Marshalling billions of dollars of investment, governments have sought to reduce their countries' dependence on oil, through gigantic investment in infrastructure to build commerce, tourism and technology hubs. Anchoring this transformation has been considerable investment in digital infrastructure. Historically, this mostly meant submarine cables, 4G and 5G broadband and increased terrestrial fiber density. Today, data centers, cloud and Artificial intelligence have become vital pillars of MENA's digital infrastructure investments.
- Recent data center market growth has been solid enough. Over the past three years (to 2023), nearly 40 new commercial facilities have come live in MENA, nearly doubling the region's live IT load, on the back of extensive submarine cable buildout, explosive Internet data traffic and increased cloud adoption. But it is the region's outlook that truly captures attention. In true Middle Eastern form, the region's stated ambitions are eye-popping. In Saudi Arabia alone, the government has called for an \$18bn investment in hyperscale facilities to increase the country's capacity to 1300MW of IT load. Taking announcements and other plans at face value, MENA data center projects would unleash upwards of 2500MW of IT load capacity across the region over the next decade.
- This upside is not without pitfalls. As this report was going to print, the Gaza war had stoked geopolitical tensions, raising fears of a spillover across the region. Houthi attacks on Red Sea shipping lines are disrupting supply chains and setting back infrastructure projects. And there are other dangers, from over-ambitious projects to overly concentrated Internet markets.
- Still, the upside is unmistakable. MENA, and Gulf Cooperation Council (GCC) markets in particular, offer some of the world's best fundamentals for expanded commercial colocation services: rising digital and new technology demand, hyperscalers bulking up their local presence, a pioneering push towards AI, supportive, vision-driven governments, low power costs, mega investments in renewables, stable currencies – and high lease prices.
- At a time when opportunities for returns seem increasingly scarce in a high interest rate environment, our numbers suggest that the Middle East's singular combination of economic vision, cloud and AI push make the region's data center business one of the most extraordinary digital infrastructure investment opportunity in the Global South.





Research scope, structure and sample pages

What exactly is in this report?



How this report is structured





Table of contents detail (1)



EXECUTIVE SUMMARY

- MENA's unprecedented spike in data center build
- On oversupply risk, the impact of the war in Gaza and renewables
- On the outlook for the MENA DC market, the impact of AI, and our projections

PART I REGIONAL ANALYSIS: THE RISE OF THE MIDDLE EAST COMMERCIAL DATA CENTER

- From economic transformation to regional fiber hubs and AI, the case for MENA data centers
- The Middle East's unprecedented surge of commercial data center construction
- MENA commercial data center supply: well past the 500MW mark, and racing towards the gigawatt
- The demand side: from digital hubs to AI, MENA drivers of demand are plenty
- Market outlook: the Arab world's data center boom
- MENA colo economics: of occupancy, power costs, renewables, AI and the war in Gaza
- MENA data center competitive analysis: carrier-neutral plays, infracos, telcos and the emergence of global providers

PART II SAUDI ARABIA: HOW A DIGITAL INFRASTRUCTURE BOOM IS POWERING KSA'S DIGITAL ECONOMY DECADE

KSA MARKET CONTEXT

- Saudi Arabia has the largest economy in the Middle East and North Africa
- Saudi Arabia has entered a "digital economy decade", underpinned by the Vision 2030 plan
- A mature, highly-penetrated ultra-highspeed connectivity market
- A dynamic international capacity hub at the nexus of MENA, Asia, Africa and Europe traffic
- Submarine cable deployments in KSA: the making of a global digital hub
- KSA has MENA's most diverse terrestrial fiber market but price points are still high
- KSA power, land and regulation context for commercial data centers

KSA COMMERCIAL DATA CENTER DEMAND ANALYSIS

- KSA demand summary: upwards of 700MW of potential demand
- Breaking down KSA demand: considerable upside from enterprise, connectivity and content
- Public cloud deployments are accelerating in KSA
- KSA colocation demand summary charts

KSA COMMERCIAL DATA CENTER SUPPLY

- KSA has the second largest commercial data center market in MENA
- KSA commercial data center capacity is expanding fast
- The KSA market is built around three core data center hub locations oil and gas, IX and enterprise
- Competition: KSA has an increasingly fragmented commercial data center market
- Overview of KSA's key DC providers

KSA COMMERCIAL DATA CENTER MARKET OUTLOOK

- The KSA pipeline: a strong upswing trajectory, on the back of cloud, AI and more cables
- KSA has a commercial DC project pipeline of nearly 1GW of IT load
- The economics: high prices and a billion-dollar outlook for the KSA commercial colocation market
- KSA commercial colocation summary market forecast

PART III UNITED ARAB EMIRATES: AI, regional interconnectivity and the makings of a global digital hub

UAE MARKET CONTEXT

- The UAE's economy highly diversified and holding up well in the face of regional uncertainty
- The UAE is one of the world's most digitized markets
- A foremost Global South international capacity hub in the Persian Gulf
- Submarine cable deployments in UAE: a prominent Fujairah market, with Kalba coming up
- UAE power, land and regulation context a sharp rise in renewable energy availability
- UAE demand summary: upwards of 450MW of potential demand
- Breaking down UAE demand: considerable upside from enterprise, connectivity and content
- The UAE is a top destination for public cloud deployments
- UAE colocation demand summary charts

UAE COMMERCIAL DATA CENTER SUPPLY

- UAE has the largest commercial data center market in MENA
- UAE commercial data center capacity: hyperscaler-focused and growing fast
- The UAE market is built around three core data center hub locations
- The UAE has a highly concentrated commercial data center market
- The dominance of Khazna, GDH and Equinix

UAE COMMERCIAL DATA CENTER MARKET OUTLOOK

- The UAE pipeline: More cloud, AI to power the market to nearly 500MW of IT load
- The Emirates market has a commercial DC project pipeline of nearly 200MW of IT load
- The economics: A billion-dollar outlook for the UAE commercial colocation market
- UAE commercial colocation summary market forecast

Table of contents detail (2)



PART IV EGYPT: A VITAL DIGITAL INFRASTRUCTURE CORRIDOR RACES TO CATCH UP TO THE CLOUD ERA

- The Egyptian economy growth amidst significant doldrums in MENA's third largest economy
- The Egyptian market is still building a foundation for expanded digital services adoption
- A critical digital corridor with extensive diversity but constrained by a longstanding monopoly
- Egypt's fiber diversity more cables coming
- Egypt power, land and regulation context for commercial data centers

EGYPT COMMERCIAL DATA CENTER DEMAND ANALYSIS

- Egypt demand summary: 100MW+ of potential demand, most of which has yet to emerge
- Breaking down Egyptian demand: improving connectivity ecosystem, considerable enterprise upside as cloud takes root
- Breaking down Egyptian demand: the hyperscalers are coming
- Egypt colocation demand summary charts

EGYPT COMMERCIAL DATA CENTER SUPPLY

- Egypt has MENA's third largest economy but is far behind peers on available colocation supply
- Egypt commercial data center capacity: hyperscaler-focused and growing fast
- From smart village to New Capital: three major facility hubs within Cairo
- Egypt has a fragmented if top-heavy commercial data center market
- Egypt commercial colo strategic mapping: from TE to GPX and Raya

EGYPT COMMERCIAL DATA CENTER MARKET OUTLOOK

- The Egyptian pipeline: a race to fill out a considerable supply shortfall
- The Egyptian market has a commercial DC project pipeline of nearly 150MW of IT load
- The outlook: accelerated adoption counterbalanced by strong pricing pressure and non-negligible overbuild risk
- Egypt commercial colocation summary market forecast

PART V: QATAR -BUILDING UP TO SUPPORT QATAR NATIONAL VISION 2030

- Qatar economic and broadband market context population, GDP growth and broadband adoption
- The Qatar value proposition: strategic location, good fiber diversity, cheap power
- Qatar operating context summary KPIs: from cable landings to renewables
- Qatar demand summary: upwards of 90MW of potential demand

QATAR COMMERCIAL DATA CENTER SUPPLY & COMPETITIVE CONTEXT

- Qatar commercial supply growth has been relatively flat and facilities have a retail slant
- Qatar commercial capacity summary charts
- Qatar has a duopoly-slanted commercial data center market
- Mapping of Qatar commercial facilities Doha
- The Qatar pipeline: a solid, if speculative upside potential
- Qatar commercial colocation summary market forecast

PART VI:- REST OF MENA: BAHRAIN, JORDAN, KUWAIT, MOROCCO, OMAN

BAHRAIN DATA CENTER MARKET: STILL SMALL, BUT SHOWING MODERATE PROMISE

- Bahrain commercial data center market overview
- The Bahrain value proposition: strategic location, diverse telecom market, aggressive tech policies
- Bahrain commercial supply: flat growth, with moderate upside
- The Bahrain pipeline: supply capacity set to nearly double
- Bahrain competitive context: Batelco, then everyone else

JORDAN: THE RISE OF AQABA

- Jordan commercial data center market overview
- Jordan has a moderately competitive commercial data center market
- The Jordan pipeline: Aqaba emerging to complement Amman

KUWAIT: GOOGLE IS COMING

- Kuwait commercial data center market overview
- Kuwait has a moderately competitive commercial data center market
- The Kuwait pipeline: moderate growth outside of hyperscaler self-build

MOROCCO DATA CENTER MARKET SLOWLY LIVING UP TO A LONG-HERALDED PROMISE

- Morocco commercial data center market overview
- Morocco: A promising but constrained market at the intersection of four continents
- Morocco commercial supply: flat growth, with moderate upside
- The Morocco pipeline: supply capacity set to more than double
- Morocco competitive context: increasingly competitive

OMAN: MENA's RISING ALTERNATIVE CONNECTIVITY (AND CLOUD?) HUB

- Oman commercial data center market overview
- The Oman value proposition: a strategically-located, business-friendly and highly fiber-diverse regional hub
- Oman commercial supply: moderate historical growth balanced by robust pipeline
- The Oman pipeline: supply capacity set to nearly double
- Oman has an increasingly competitive commercial data center market

Table of contents detail (3) – Key charts



REGIONAL ANALYSIS

- Middle East & North Africa Commercial DC facility mapping 2023E
- MENA Number of live data center facilities
- MENA Number of public cloud availability zones
- MENA Evolution of commercial data center live IT load
- MENA Evolution of commercial data center annual services revenue
- MENA 4G/5G penetration of the population 2023E
- MENA key submarine cable landing stations 2023E
- Cable systems and landing stations build In MENA 2018-26F
- Cloud regions in the Middle East & North Africa
- MENA countries with cloud-first policies
- MENA Commercial data center market snapshot 2023E
- MENA Commercial data center facilities new builds
- MENA Commercial data center facilities by country 2023E
- MENA commercial data center facilities by size 2023
- MENA Commercial data center supply overview 2023E
- MENA Commercial data center capacity at full-build potential 2018-23E
- MENA Cumulative commercial data center supply capacity based on live IT load 2018-23E
- MENA commercial data center capacity going live 2018-23E
- MENA commercial data center facilities by type 2023E
- MENA Country share of commercial data center live supply 2023E
- MENA available supply a view by bracket 2023E
- MENA Commercial data center supply capacity based on live IT load 2023E
- MENA Top 10 commercial data center metros based on IT load 2023E
- Public cloud availability zones by region 2023F
- Public cloud availability zones in MENA 2020-26F
- MENA Estimated commercial DC demand potential Power
- MENA Commercial data center demand by country 2030F
- MENA Commercial DC demand potential by customer type
- MENA New commercial DC facilities coming to market 2023-28F
- MENA New facility deployments by pipeline category 2024-28F
- MENA Commercial data center market outlook 2024-28F
- MENA Commercial data center supply projection 2023-28F
- MENA commercial DC CapEx 2019-28F US\$bn
- Country share of MENA commercial DC CapEx 2023-28F
- MENA commercial DC revenue 2023-28F US\$bn
- MENA How long does it take to sell 1MW of colocation capacity? months
- MENA Renewable share of power generation 2023E
- MENA Commercial DC monthly price per rack by country

- MENA Commercial DC occupancy by country
- MENA Industrial electricity rates in key markets 2023E
- MENA Average power density in key markets kW/rack
- Top 15 commercial colocation providers Live IT load 2023E

SAUDI ARABIA

- Saudi Arabia Macro-economic snapshot 2023E
- Saudi Arabia's three decades of transformation
- Saudi Vision 2030 key tenets
- KSA broadband connections 2018-28F
- KSA vs. peer markets broadband penetration of the population 2023E
- KSA Meaningful broadband of the population 2018-28F
- Evolution of average download speeds in Saudi Arabia
- Saudi Arabia International capacity market snapshot
- Submarine cables landing in Saudi Arabia 2023
- Evolution of number of submarine cables landing in Saudi Arabia
- KSA Cable landing station by location (2010-26F)
- KSA Terrestrial capacity market snapshot
- KSA Commercial data center market snapshot 2023E
- Public cloud availability zones in KSA 2020-24F
- KSA Estimated commercial DC demand potential Power
- KSA Commercial DC demand potential by customer type
- KSA public cloud availability zones by metro 2020-24F
- KSA Commercial data center market snapshot 2023E
- KSA Commercial data center supply capacity based on live IT load 2018-23E
- KSA Commercial data center capacity vs. peer markets
- KSA Commercial data center supply: end-state/potential campus capacity 2018-23E
- KSA Commercial DC facilities by key metro
- KSA New commercial facilities going live
- KSA Commercial data center colocation facilities by type (2023E)
- Mapping of commercial data center facilities Riyadh metro
- Mapping of commercial data center facilities Jeddah metro
- Mapping of commercial data center facilities Dammam metro
- KSA share of commercial colocation supply 2023-25F
- KSA Competitive mapping of commercial colocation supply 2023
- KSA Commercial data center market outlook 2023-28F
- KSA Commercial data center supply projection 2023-28F
- KSA Commercial data center market outlook 2023-28F
- KSA commercial colocation market revenue growth outlook

Table of contents detail (4) – Key charts



UNITED ARAB EMIRATES

- UAE Macro-economic snapshot 2023E UAE broadband connections 2018-28F
- UAE vs. peer markets broadband penetration of the population 2023E
- UAE Key technology coverage of the population
- UAE International capacity market snapshot 2023 Submarine cables landing in the UAE 2023
- Evolution of number of submarine cables landing in the UAE
- UAE Cable landing station by location (2010-26F); UAE Terrestrial capacity market snapshot
- UAE Commercial data center market snapshot 2023E
- Public cloud availability zones in the UAE 2020-24F
- UAE Estimated commercial DC demand potential Power; UAE Commercial DC demand potential by customer type
- UAE public cloud availability zones by metro 2020-24F
- UAE Commercial data center market snapshot 2023E
- UAE Commercial data center supply capacity based on live IT load 2018-23E
- UAE Commercial data center capacity vs. peer markets
- UAE Commercial data center supply: end-state/potential campus capacity 2018-23E
- UAE Commercial DC facilities by key metro ; UAE New commercial facilities going live
- UAE Commercial data center colocation facilities by type (2023E)
- Mapping of commercial data center facilities Dubai, Abu Dhabi, Fujairah
- UAE share of commercial colocation supply 2023-25F
- UAE Competitive mapping of commercial colocation supply 2023
- UAE Commercial data center market outlook 2023-28F; UAE Commercial data center supply projection 2023-28F
- UAE Commercial data center market outlook 2023-28F
- UAE commercial colocation market revenue growth outlook

EGYPT

- Egypt Macro-economic snapshot 2023E
- Egypt broadband connections 2018-28F
- Egypt vs. peer markets broadband penetration of the population 2023E
- Egypt Key technology coverage of the population
- Submarine cables landing in Egypt 2023; Evolution of number of submarine cables landing in Egypt
- Egypt Commercial data center market snapshot 2023E
- Egypt Estimated commercial DC demand potential Power
- Egyptian companies' IT priorities 2023
- Egypt Commercial data center market snapshot 2023E
- Egypt Commercial data center supply: end-state/potential campus capacity 2018-23E
- Egypt Commercial data center colocation facilities by type (2023E)
- Egypt New commercial facilities going live
- Mapping of commercial data center facilities Cairo metro
- Egypt Share of commercial colocation supply by provider 2023E (1) (2)
- Egypt Share of commercial colocation supply by provider type 2023E
- Egypt key provider data 2023E
- Egypt Commercial data center supply projection 2023-28F
- Egypt commercial colocation market revenue growth outlook

QATAR

- Qatar Macro-economic snapshot 2023E
- Qatar Wholesale fiber market snapshot 2023E
- Qatar Commercial data center market snapshot 2023E
- Qatar Commercial data center market snapshot 2023E
- Qatar Commercial data center supply capacity based on live IT load 2018-23E
- Qatar vs. peer markets MW commercial supply capacity per 1m population
- Qatar Commercial data center supply: full build campus capacity 2018-23
- Qatar Commercial data center supply by facility type 2023E
- Qatar Competitive mapping of commercial colocation supply 2023
- Qatar share of commercial colocation supply 2023-25F
- Mapping of commercial data center facilities Qatar
- Qatar share of commercial colocation supply 2023 (1)
- Qatar Commercial data center market outlook 2023-28F
- Qatar Commercial data center supply projection 2023-28F

BAHRAIN

- Bahrain Strategic market position
- Bahrain Commercial data center market snapshot 2023
- Bahrain Commercial data center market outlook 2023-28F
- Bahrain Commercial data center supply projection 2023-28F
- Bahrain Competitive mapping of commercial colocation supply 2023

Bahrain - key commercial facility providers – 2023E

JORDAN

- Jordan Competitive mapping of commercial colocation supply 2023
- Jordan key commercial facility providers 2023E
- Jordan Commercial data center market outlook 2023-28F
- Jordan Commercial data center supply projection 2023-28F

KUWAIT

- Kuwait Commercial data center market outlook 2023-28F
- Kuwait Commercial data center supply projection 2023-28F
 MOROCCO
- Morocco Commercial data center market outlook 2023-28F
- Morocco Commercial data center supply projection 2023-28F
- Morocco Competitive mapping of commercial colocation supply 2023
- Morocco key commercial facility providers 2023E

OMAN

- Oman Commercial data center market snapshot 2023E
- Oman Commercial data center market outlook 2023-28F
- Oman Commercial data center supply projection 2023-28F
- Oman Competitive mapping of commercial colocation supply 2023
- Oman key commercial facility providers 2023

Sample pages





Packages and pricing

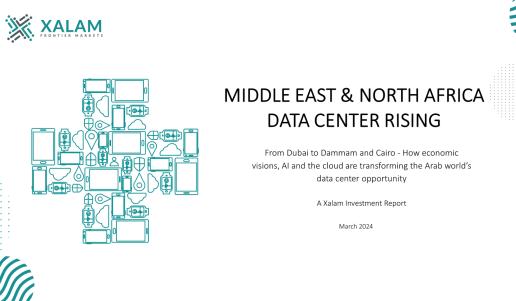


Report package



Report package, including:

- Full report in PDF format
- 190 pages, including ~100 Charts and Visuals
- 50 core charts with underlying data in Excel format
- Enterprise license



Price: \$2500

Invoice payment also available; please contact hello@xalamanalytics.com



@xalamanalytics www.xalamanalytics.com