Data Center Market in Africa - Industry Outlook and Forecast 2021-2026

https://marketpublishers.com/r/D08AF457A8B2EN.html
Date: April 2021
Pages: 279
Price: US$ 3,750.00 (Single User License)
ID: D08AF457A8B2EN

Abstracts

In-depth Analysis and Data-driven Insights on the Impact of COVID-19 Included in this Africa Data Center Market Report

The Africa data center market by investment is expected to grow at a CAGR of approx. 15% during the period 2020–2026.

The Africa data center market size by investment was valued at USD 2 billion in 2020 and is expected to USD 5 billion by 2026, growing at a CAGR of 15% during 2021-2026. The data center market expects to observe growth because of the flurry of factors – renewable power availability, smart city initiatives, and increased support for the digital economy. Egypt, South Africa, Kenya, Morocco, and Ethiopia are actively working toward improving the share of renewable energy in the region's electricity generation. Africa is an emerging leader in microgrid capacity. Grid-connected, on-site energy generation or storage plants help data centers control power costs more efficiently by saving on peak demand costs charged by traditional grid facilities. Both colocation and enterprise operators invest heavily in adopting renewable energy sources to power data centers.

The following factors are likely to contribute to the growth of the Africa data center market during the forecast period:

- Availability of Renewable Energy
- Government Support boosting Digital Economy
- Increase in Adoption of All-Flash Storage Solutions

Increased Investment in Fiber Connectivity

The study considers the present scenario of the Africa data center market and its market dynamics for 2020?2026. It covers a detailed overview of several market growth enablers, restraints, and trends. The report offers both the demand and supply aspects of the market. It profiles and examines leading companies and other prominent ones operating in the market.

AFRICA DATA CENTER MARKET SEGMENTATION

The Africa IT infrastructure market expects to reach approx. USD 4 billion by 2026. The growth in data generation in Africa is fueling the demand for fast-processing efficient servers. The demand for build-to-suit infrastructure is growing to support specific applications. Several segments such as BFSI, healthcare, transportation and logistics, education, and heavy industries adopt advanced server systems for efficient services.

The unreliable power grid connectivity increases the demand for power backup sources. UPS and generator systems are expected to grow due to the increased construction of large and mega data center facilities. The Kenya data center market has witnessed the installation of energy-efficient power infrastructure. Most facilities are of Tier III standards and are adopting power redundancy of N+1 or 2N to manage power grid instability. Colocation service providers are likely to emerge as contributors to the lithium-ion UPS solutions market. Vendors are continuously offering innovative UPS solutions to boost efficiency and reduce cost. The construction of extensive facilities across Africa is likely to boost the generators market. The growing complexity of data center infrastructure is driving the demand for automated switchgear technology. Medium- and high-voltage switchgear are more likely to be adopted than low-voltage switchgear. The demand for intelligent PDUs among colocation end-users is growing as there is an increasing need to meter and monitor rack power consumption.

Data center facilities operating in the African region mainly adopt chillers and precision air cooling. The adoption of air-based cooling (free cooling chillers) is likely to gain traction as certain African countries experience cold winter seasons. South Africa is likely to adopt free cooling chillers or evaporative coolers. The cooling systems market depends on the construction of mega and hyperscale facilities, primarily of 10 MW capacity. While several smaller facilities in Africa use DX-based CRAC units, medium and large data centers are installing CRAH units. Also, the implementation of air-cooled

CRAC systems with cooling units that use refrigerants or glycol-based cooling is expected to grow during the forecast period. Data centers in Morocco have witnessed the adoption of precision cooling systems, chilled water-cooling systems, and free air-cooling systems.

Most colocation facilities are funded by enterprise and government agencies; however, the actual investment in greenfield projects is low. Government initiatives to offer tax incentives expect to fuel general construction services during the forecast period. However, the shortage of skilled workforce construction and operational benefits is the major reason organizations select modular providers to perform installation and operation services. The increasing OPEX is likely to boost the implementation of DCIM solutions. The rapid growth in colocation data centers will drive investments in physical security systems in the African market. In South Africa, most colocation facilities have installed physical security solutions, ranging from perimeters to racks guarded via CCTV cameras and biometric systems. Companies have also adopted DCIM solutions that enable remote monitoring of data center operations. Data center operators in Kenya use several security systems such as biometric access systems, perimeter fencing, and CCTV surveillance solutions.

In 2020, the Africa data center market witnessed Tier III facilities' dominance, especially for colocation services. 10 out of the 11 tier III facilities developed were colocation data centers in 2020. The trend expects to continue during the forecast period, with several operators expecting to shift to Tier IV facilities due to the growth in rack power densities and increase in critical data center applications during the forecast period. Most new facilities are designed to be of Tier III standards with a minimum of N+1 redundancy. They can be reconfigured with up to 2N+2 redundancy with the incorporation of flexible data center designs. Most facilities in Kenya are built according to Tier III standards with standard redundancy of N+1 or N+N for support infrastructure, including cooling systems. Similarly, facilities in South Africa are designed to be tier III standards, which are flexible to be converted into Tier IV facilities.

By IT Infrastructure

- Servers
- Storage
- Network

+44 20 8123 2220
info@marketpublishers.com

By Electrical Infrastructure

UPS Systems

Generators

Transfer Switches and Switchgears

PDUs

Other Electrical Infrastructures

By Mechanical Infrastructure

Cooling Systems

CRAC & CRAH Units

Chiller Units

Cooling Towers, Dry Coolers, & Condensers

Other Cooling Units

Racks

Others Mechanical Infrastructure

By Cooling Technique

Air-based Cooling Technique

Liquid-based Cooling Technique

By General Construction

Core and Shell Development

Installation and Commissioning Services

Engineering and Building Designs

Physical Security

DCIM/BMS

By Tier Standards

Tier I & II

Tier III

Tier IV

INSIGHTS BY GEOGRAPHY

The South Africa data center market share is witnessing an increased adoption of cloud-based solutions among enterprises and is rapidly emerging as a center for public and private cloud hosting. Cape Town and Johannesburg are the significant locations preferred for data center development. Manufacturing, financial services, and healthcare sectors are among the major contributors to the data center investment. The South Africa data center market is increasingly adopting cloud technology. Submarine cable connectivity is playing a critical role in the development of the South African data center market. Also, investments in submarine cable connectivity projects connecting South Africa with Asia have increased in recent years. The market expects to witness steady growth over the next few years because of the high internet penetration and growth of big data, IoT, and artificial intelligence technology.

By Geography

Africa

South Africa

Morocco

Kenya

Nigeria

Egypt

Other Countries

INSIGHTS BY VENDORS

The Africa data center market consists of several IT, electrical, and mechanical service providers. Arista Networks, Broadcom, Cisco Systems, Dell Technologies, Hewlett Packard Enterprise, Huawei Technologies are a few major IT infrastructure providers in Africa. The revenue share of server infrastructure declined slightly in Q1 2020 than Q4 2019 due to the eruption of the COVID-19 pandemic, causing disruptions in the supply chain. The procurement of energy-efficient power infrastructure solutions is likely to drive several vendors to the African region. Varied requirements are prompting vendors to develop innovative products that reduce OPEX. ABB, Eaton, Legrand, Schneider Electric, and Vertiv Group are the leading UPS and rack PDU infrastructure players. Cummins and Caterpillar have a strong presence in the market.

Key Data Center Critical (IT) Infrastructure Providers

Arista Networks

Broadcom

Cisco Systems

Dell Technologies

Hewlett Packard Enterprise (HPE)

Huawei Technologies

+44 20 8123 2220
info@marketpublishers.com

IBM

Juniper Networks

Lenovo

NetApp

Key Data Center Support Infrastructure Providers

ABB

Caterpillar

Cummins

Eaton

Envicool

Legrand

Rittal

Rolls-Royce Power Systems

Schneider Electric

STULZ

Vertiv Group

Key Data Center Investors

Africa Data Centres

Amazon Web Services (AWS)

Icolo.io

Internet Technologies Angola (ITA)

Inwi

IXAfrica

MainOne (MDXi)

N+ONE

Orange

PAIX

Raxio Group

Raya Data Center

Teraco Data Environments

Wingu

Key Construction Constructors

Arup Group

Atkins

Edarat Group

Future-tech

ISG

Vantage Data Centers

+44 20 8123 2220
info@marketpublishers.com

KEY QUESTIONS ANSWERED:

1. How big is the Africa data center market?
2. How many new data centers emerged in the Africa region in 2020?
3. What is the market size for data center racks in Africa?
4. What is the growth rate of the data center market in Nigeria?

Contents

+44 20 8123 2220
info@marketpublishers.com

21 COMPETITIVE LANDSCAPE

22 PROMINENT DATA CENTER IT INFRASTRUCTURE VENDORS

+44 20 8123 2220
info@marketpublishers.com

24 PROMINENT CONSTRUCTION CONTRACTORS

25 PROMINENT DATA CENTER INVESTORS

+44 20 8123 2220
info@marketpublishers.com

26 REPORT SUMMARY

27 QUANTITATIVE SUMMARY

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

List Of Exhibits

LIST OF EXHIBITS

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+44 20 8123 2220
info@marketpublishers.com

Table 35 Other African Countries Data Center Infrastructure Market 2020?2026 ($ million)

I would like to order

Product name: Data Center Market in Africa - Industry Outlook and Forecast 2021-2026
Product link: https://marketpublishers.com/r/D08AF457A8B2EN.html
Price: US$ 3,750.00 (Single User License / Electronic Delivery)
If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/D08AF457A8B2EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature ____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970