

Data Center Market in Southeast Asia - Industry Outlook and Forecast 2021-2026

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Abstracts

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

The Southeast Asia data center market by investment is expected to grow at a CAGR of over 8% during the period 2021–2026.

The data center market in Southeast Asia is growing significantly, with multiple investments in Singapore, Indonesia, Malaysia, Vietnam, Cambodia, and Thailand. Southeast Asia is among the fastest-growing digital markets worldwide. The internet usage and social media trends have increased the demand for faster internet networks and data centers to store data generated by them. The internet penetration is one of the strongest drivers for the data center market in Southeast Asia. Moreover, social media usage among consumers and digital transformation by enterprises across industry verticals are other major factors promoting data center growth. The investments are growing significantly across Singapore, Indonesia, Malaysia, Vietnam, Cambodia, and Thailand. In 2020, Equinix, Digital Realty, NTT Global Data Centers, Space DC & GIC, ST Telemedia Global Data Centres, DTP, and DCI Indonesia were major investors in the Southeast Asia data center market.

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

Increasing Adoption of Renewable Energy

Implementation of Advanced Technology in Data Centers

Replacement of VRLA with Lithium-Ion Batteries

Increased Adoption of All-Flash & Hybrid Array

The study considers the present scenario of the Southeast Asia data center market and its market dynamics for the period 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.

Southeast Asia Data Center Market Segmentation

The Southeast Asia Data center market research report includes a detailed segmentation by IT infrastructure, electrical infrastructure, mechanical infrastructure, cooling technique, cooling systems, general construction, tier standards, geography. The server market expects to witness significant growth in the next few years due to increased investments from large cloud service providers in the region. The adoption of converged and hyper-converged infrastructure solutions is projected to increase the demand for servers with multicore processors. The migration of enterprises from on-premises to colocation facilities is likely to aid in the growth of high-performance computing (HPC) infrastructure in the Southeast Asia market.

The data center generator market is likely to grow due to the construction of large and mega facilities across the Southeast Asia region. The adoption of efficient power systems such as gas generators is growing. The implementation of the carbon tax in countries such as Singapore has driven operators to opt for efficient generators. Although generators are the significant sources of carbon emission, their adoption among facilities continues to grow. However, operators are adopting efficient and cleaner power sources. Innovations in terms of fuel cells are expected to reduce the use of generators during the forecast period.

Most data centers in Singapore design to cool infrastructure through water-based cooling techniques. The use of air-based cooling is low in Singapore than in other Southeast Asian countries. Data centers are designed for hot/cold aisle containment systems and are equipped with 42U and 45U racks. However, 47U-48U racks expect to witness high growth during the forecast period. In Malaysia, both air-based and water-based cooling systems use for cooling purposes. Large facilities in the country expect to use water-based cooling solutions, whereas small ones are likely to use air-based

cooling systems. Similarly, several small data centers in Thailand implement air-based cooling systems.

The majority of data center development in Malaysia is greenfield construction. The market has strong growth potential for modular projects. The labor cost in Malaysia is cheaper than in Singapore. However, the non-availability of a skilled workforce is a significant challenge among service providers operating in the country. Several facilities in Singapore install DCIM, BMS, and EMS systems for physical security, monitoring, and management. The data center market in Thailand includes greenfield and brownfield data center construction. It requires trained data center professionals to overcome the shortage of skilled workforce in the country. Infrastructure providers and their local partners also serve as a strong backbone for installation and commissioning services.

The Tier III data center market in Southeast Asia expects to reach USD 1.3 billion in 2026, growing at a CAGR of over 8%. There are over 89 tier III certified facilities in seven countries, including Singapore, Indonesia, Malaysia, and Thailand. Indonesia is the major location with around 40 certified facilities. Most new data centers in the region are designed according to Tier III standards with a minimum of N+1 redundancy. The Tier IV data center market is expected to reach over USD 620 million by 2026. Singapore, Indonesia, Thailand, and Myanmar are witnessing Tier IV facilities' construction, with Indonesia and Thailand accounting for seven Tier IV facilities. Facebook, Apple, Microsoft, and Google are the major contributors to the Tier IV market.

By IT Infrastructure

Servers

Storage

Network

By Electrical Infrastructure

UPS Systems

Generators

Transfer Switches and Switchgears

PDU's

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

Singapore is the major data center hub in Southeast Asia, with the presence of several facilities operated by internet, cloud, telecommunication, and colocation service providers. The sub-sea fiber network connectivity routes over 90% of the world's Internet traffic. Singapore has robust fiber connectivity to major APAC data center market and continues to expand its capacity. Many cloud service providers support customers in APAC via Singapore. The Singapore government is likely to migrate government systems to the cloud. In December 2020, Equinix announced the development of its fifth data center facility in Singapore (SG5), which expects to be operational by Q2 2021. The impact of the COVID-19 pandemic on the Singapore data center market was low as these services were termed as essential. Singapore is observing investment in renewable energy such as solar and wind sources which are led by hyperscale and colocation data center operators such as Microsoft, Facebook, and Equinix. Renewable energy installations will continue to grow among existing and upcoming facilities across the country.

By Geography

Southeast Asia

Singapore

Malaysia

Thailand

Indonesia

Cambodia & Myanmar

Vietnam

Philippines

INSIGHTS BY VENDORS

HPE, Dell Technologies, Fujitsu, NetApp, Inspur, Oracle Huawei, NetApp, and Cisco Systems are among the major revenue contributors in the Southeast Asia data center market share. AWS, Microsoft, Alibaba, Tencent, IBM, Oracle, and Google are expanding their new cloud regions. These providers are the major adopters of high-density, mission-critical servers, storage infrastructure, and network infrastructure. Schneider Electric, Eaton, Cummins, Vertiv, Rolls Royce Power Systems, HITEC Power Protection Caterpillar, and ABB are the major electrical infrastructure vendors with a strong presence in Southeast Asia. The infrastructure market in Southeast Asia will witness immense competition with the growing construction of data centers in the next few years.

Key Data Center Critical (IT) Infrastructure Providers

Arista Networks

Broadcom

Cisco Systems

Dell Technologies

Fujitsu

Hewlett Packard Enterprise (HPE)

Huawei Technologies

IBM

Inspur

Lenovo

NetApp

Oracle

Key Data Center Support Infrastructure Providers

ABB

Bosch Security Systems (Robert Bosch)

Caterpillar

Cummins

Cyber Power Systems

Delta Electronics

Eaton

Fuji Electric

HITEC Power Protection

KOHLER-SDMO

Legrand

Mitsubishi Electric Corporation

Piller Power Systems

Rittal

Rolls-Royce Power Systems

Schneider Electric

Vertiv Group

Key Data Center Contractors

Arup Group

AWP Architects

Aurecon Group

CSF Group

Cundall

DSCO Group

Fortis Construction

Faithful+Gould

Kienta Engineering Construction

LSK Engineering

M+W Group (Exyte)

NTT FACILITIES Group

Nakano Corporation

PM Group

Sato Kogyo

Key Data Center Investors

AIMS Data Centre

AirTrunk Operating

Bridge Data Centres

BDx (Big Data Exchange)

Digital Realty

DCI Indonesia

DTP

Equinix

Iron Mountain

Keppel Data Centres

Kepstar Data Centre Management

NTT Global Data Centers

Regal Orion

Space DC

ST Telemedia Global Data Centres

VADS Berhad

KEY QUESTIONS ANSWERED

1. How big is the Southeast Asia data center market size?
2. What is the number of Tier III data centers in Southeast Asia?
3. What is the total number of data centers in Southeast Asia?
4. Which cooling systems are likely to generate the largest revenue in the Southeast Asia data center market during the forecast period?
5. Who are the key investors in the Southeast Asia data center market?
6. What are the key factors driving the growth of the Southeast Asia data center market?

Contents

1 RESEARCH METHODOLOGY

2 RESEARCH OBJECTIVES

3 RESEARCH PROCESS

4 SCOPE & COVERAGE

4.1 Market Definition

4.2 Base Year

4.3 Scope of The Study

4.4 Market Segments

4.4.1 Market Segmentation by Infrastructure

4.4.2 Market Segmentation by IT Infrastructure

4.4.3 Market Segmentation by Electrical Infrastructure

4.4.4 Market Segmentation by Mechanical Infrastructure

4.4.5 Market Segmentation by Cooling Systems

4.4.6 Market Segmentation by Cooling Techniques

4.4.7 Market Segmentation by General Construction

4.4.8 Market Segmentation by Tier Standards

4.4.9 Market Segmentation by Geography

5 REPORT ASSUMPTIONS & CAVEATS

5.1 Key Caveats

5.2 Currency Conversion

5.3 Market Derivation

6 MARKET AT A GLANCE

7 INTRODUCTION

7.1 Internet Data Growth

7.2 Data Center Site Selection Criteria

8 MARKET OPPORTUNITIES & TRENDS

- 8.1 Rise In 5G Network Connectivity
- 8.2 Increasing Adoption of Renewable Energy
- 8.3 Advanced Technologies In Data Centers
- 8.4 Replacement of VRLA With Lithium-Ion Batteries In Data Centers
- 8.5 Rise In Adoption Of The All-Flash & Hybrid Array

9 MARKET ENABLERS

- 9.1 Impact Of COVID-19 On Data Centers
- 9.2 Increase In Data Center Investments
- 9.3 Increase In Cloud Adoption Driving The Data Center Market
- 9.4 Rise In Deployment Of Submarine Cables

10 MARKET RESTRAINTS

- 10.1 Security Challenges in Data Centers
- 10.2 Location Restraints for Data Center Construction
- 10.3 Scarcity of Skilled Workforce

11 MARKET LANDSCAPE

- 11.1 Market Overview
- 11.2 Investment: Market Size & Forecast
- 11.3 Area: Market Size & Forecast
- 11.4 Power Capacity: Market Size & Forecast
- 11.5 Five Forces Analysis
 - 11.5.1 Threat of New Entrants
 - 11.5.2 Bargaining Power of Suppliers
 - 11.5.3 Bargaining Power of Buyers
 - 11.5.4 Threat of Substitutes
 - 11.5.5 Competitive Rivalry

12 INFRASTRUCTURE

- 12.1 Market Snapshot & Growth Engine
- 12.2 Market Overview
- 12.3 IT Infrastructure
 - 12.3.1 Market Overview
 - 12.3.2 Market Size & Forecast

- 12.4 Electrical Infrastructure
 - 12.4.1 Market Overview
 - 12.4.2 Market Size & Forecast
- 12.5 Mechanical Infrastructure
 - 12.5.1 Market Overview
 - 12.5.2 Market Size & Forecast
- 12.6 General Construction
 - 12.6.1 Market Overview
 - 12.6.2 Market Size & Forecast

13 IT INFRASTRUCTURE

- 13.1 Market Snapshot & Growth Engine
- 13.2 Server Infrastructure
 - 13.2.1 Market Overview
 - 13.2.2 Market Size & Forecast
- 13.3 Storage Infrastructure
 - 13.3.1 Market Overview
 - 13.3.2 Market Size & Forecast
- 13.4 Network Infrastructure
 - 13.4.1 Market Overview
 - 13.4.2 Market Size & Forecast

14 ELECTRICAL INFRASTRUCTURE

- 14.1 Market Snapshot & Growth Engine
- 14.2 UPS Systems
 - 14.2.1 Market Overview
 - 14.2.2 Market Size & Forecast
- 14.3 Generators
 - 14.3.1 Market Overview
 - 14.3.2 Market Size & Forecast
- 14.4 Transfer Switches & Switchgear
 - 14.4.1 Market Overview
 - 14.4.2 Market Size & Forecast
- 14.5 Power Distribution Units
 - 14.5.1 Market Overview
 - 14.5.2 Market Size & Forecast
- 14.6 Other Electrical Infrastructure

- 14.6.1 Market Overview
- 14.6.2 Market Size & Forecast

15 MECHANICAL INFRASTRUCTURE

- 15.1 Market Snapshot & Growth Engine
- 15.2 Cooling Systems
 - 15.2.1 Market Overview
 - 15.2.2 Market Size & Forecast
- 15.3 Racks
 - 15.3.1 Market Overview
 - 15.3.2 Market Size & Forecast
- 15.4 Other Mechanical Infrastructure
 - 15.4.1 Market Overview
 - 15.4.2 Market Size & Forecast

16 COOLING SYSTEMS

- 16.1 Market Snapshot & Growth Engine
- 16.2 CRAC & CRAH Units
 - 16.2.1 Market Overview
 - 16.2.2 Market Size & Forecast
- 16.3 Chiller Units
 - 16.3.1 Market Overview
 - 16.3.2 Market Size & Forecast
- 16.4 Cooling Towers, Condensers & Dry Coolers
 - 16.4.1 Market Overview
 - 16.4.2 Market Size & Forecast
- 16.5 Other Cooling Units
 - 16.5.1 Market Overview
 - 16.5.2 Market Size & Forecast

17 COOLING TECHNIQUE

- 17.1 Market Snapshot & Growth Engine
- 17.2 Air-Based Cooling Techniques
 - 17.2.1 Market Overview
 - 17.2.2 Market Size & Forecast
- 17.3 Liquid-Based Cooling Techniques

- 17.3.1 Market Overview
- 17.3.2 Market Size & Forecast

18 GENERAL CONSTRUCTION

- 18.1 Market Snapshot & Growth Engine
- 18.2 Core & Shell Development
 - 18.2.1 Market Overview
 - 18.2.2 Market Size & Forecast
- 18.3 Installation & Commissioning Services
 - 18.3.1 Market Overview
 - 18.3.2 Market Size & Forecast
- 18.4 Engineering & Building Design
 - 18.4.1 Market Overview
 - 18.4.2 Market Size & Forecast
- 18.5 Physical Security
 - 18.5.1 Market Overview
 - 18.5.2 Market Size & Forecast
- 18.6 DCIM/BMS
 - 18.6.1 Market Overview
 - 18.6.2 Market Size & Forecast

19 TIER STANDARDS

- 19.1 Market Snapshot & Growth Engine
- 19.2 Overview of Tier Standards
- 19.3 Tier I & II
 - 19.3.1 Market Overview
 - 19.3.2 Market Size & Forecast
- 19.4 Tier III
 - 19.4.1 Market Overview
 - 19.4.2 Market Size & Forecast
- 19.5 Tier IV
 - 19.5.1 Market Overview
 - 19.5.2 Market Size & Forecast

20 GEOGRAPHY

- 20.1 Investment: Snapshot & Growth Engine

- 20.2 Area: Snapshot & Growth Engine
- 20.3 Power Capacity: Snapshot & Growth Engine
- 20.4 Singapore
 - 20.4.1 Market Overview
 - 20.4.2 Investment: Market Size & Forecast
 - 20.4.3 Area: Market Size & Forecast
 - 20.4.4 Power Capacity: Market Size & Forecast
 - 20.4.5 Support Infrastructure: Market Size & Forecast
- 20.5 Malaysia
 - 20.5.1 Market Overview
 - 20.5.2 Investment: Market Size & Forecast
 - 20.5.3 Area: Market Size & Forecast
 - 20.5.4 Power Capacity: Market Size & Forecast
 - 20.5.5 Support Infrastructure: Market Size & Forecast
- 20.6 Thailand
 - 20.6.1 Market Overview
 - 20.6.2 Investment: Market Size & Forecast
 - 20.6.3 Area: Market Size & Forecast
 - 20.6.4 Power Capacity: Market Size & Forecast
 - 20.6.5 Support Infrastructure: Market Size & Forecast
- 20.7 Indonesia
 - 20.7.1 Market Overview
 - 20.7.2 Investment: Market Size & Forecast
 - 20.7.3 Area: Market Size & Forecast
 - 20.7.4 Power Capacity: Market Size & Forecast
 - 20.7.5 Support Infrastructure: Market Size & Forecast
- 20.8 Cambodia & Myanmar
 - 20.8.1 Market Overview
 - 20.8.2 Investment: Market Size & Forecast
 - 20.8.3 Area: Market Size & Forecast
 - 20.8.4 Power Capacity: Market Size & Forecast
 - 20.8.5 Support Infrastructure: Market Size & Forecast
- 20.9 Vietnam
 - 20.9.1 Market Overview
 - 20.9.2 Investment: Market Size & Forecast
 - 20.9.3 Area: Market Size & Forecast
 - 20.9.4 Power Capacity: Market Size & Forecast
 - 20.9.5 Support Infrastructure: Market Size & Forecast
- 20.10 Philippines

- 20.10.1 Market Overview
- 20.10.2 Investment: Market Size & Forecast
- 20.10.3 Area: Market Size & Forecast
- 20.10.4 Power Capacity: Market Size & Forecast
- 20.10.5 Support Infrastructure: Market Size

21 COMPETITIVE LANDSCAPE

- 21.1 IT Infrastructure
- 21.2 Electrical Infrastructure
- 21.3 Mechanical Infrastructure
- 21.4 General Construction

22 PROMINENT CRITICAL (IT) INFRASTRUCTURE PROVIDERS

- 22.1 Arista Networks
 - 22.1.1 Business Overview
 - 22.1.2 Product Offerings
- 22.2 Broadcom
 - 22.2.1 Business Overview
 - 22.2.2 Product Offerings
- 22.3 Cisco Systems
 - 22.3.1 Business Overview
 - 22.3.2 Product Offerings
 - 22.3.3 Key News
- 22.4 Dell Technologies
 - 22.4.1 Business Overview
 - 22.4.2 Product Offerings
- 22.5 FUJITSU
 - 22.5.1 Business Overview
 - 22.5.2 Product Offerings
- 22.6 Hewlett Packard Enterprise (HPE)
 - 22.6.1 Business Overview
 - 22.6.2 Product Offerings
- 22.7 Huawei Technologies
 - 22.7.1 Business Overview
 - 22.7.2 Product Offerings
 - 22.7.3 Key News
- 22.8 International Business Machines (IBM)

- 22.8.1 Business Overview
- 22.8.2 Product Offerings
- 22.9 Inspur
 - 22.9.1 Business Overview
 - 22.9.2 Product Offerings
 - 22.9.3 Key News
- 22.10 Lenovo
 - 22.10.1 Business Overview
 - 22.10.2 Product Offerings
- 22.11 Netapp
 - 22.11.1 Business Overview
 - 22.11.2 Product Offerings
- 22.12 Oracle
 - 22.12.1 Business Overview
 - 22.12.2 Product Offerings

23 PROMINENT SUPPORT INFRASTRUCTURE PROVIDERS

- 23.1 ABB
 - 23.1.1 Business Overview
 - 23.1.2 Product Offerings
- 23.2 Bosch Security Systems (Robert Bosch)
 - 23.2.1 Business Overview
 - 23.2.2 Product Offerings
- 23.3 Caterpillar
 - 23.3.1 Business Overview
 - 23.3.2 Product Offerings
- 23.4 Cummins
 - 23.4.1 Business Overview
 - 23.4.2 Product Offerings
- 23.5 Cyber Power Systems
 - 23.5.1 Business Overview
 - 23.5.2 Product Offerings
- 23.6 Delta Electronics
 - 23.6.1 Business Overview
 - 23.6.2 Product Offerings
- 23.7 Eaton
 - 23.7.1 Business Overview
 - 23.7.2 Product Offerings

- 23.7.3 Key News
- 23.8 Fuji Electric
 - 23.8.1 Business Overview
 - 23.8.2 Product Offerings
- 23.9 Hitec Power Protection
 - 23.9.1 Business Overview
 - 23.9.2 Product Offerings
- 23.10 KOHLER
 - 23.10.1 Business Overview
 - 23.10.2 Product Offerings
- 23.11 Legrand
 - 23.11.1 Business Overview
 - 23.11.2 Product Offerings
- 23.12 Mitsubishi Electric Corporation
 - 23.12.1 Business Overview
 - 23.12.2 Product Offerings
- 23.13 Piller Power Systems
 - 23.13.1 Business Overview
 - 23.13.2 Product Offerings
 - 23.13.3 Key News
- 23.14 Rittal
 - 23.14.1 Business Overview
 - 23.14.2 Product Offerings
 - 23.14.3 Key News
- 23.15 Rolls-Royce Power Systems
 - 23.15.1 Business Overview
 - 23.15.2 Product Offerings
 - 23.15.3 Key News
- 23.16 Schneider Electric
 - 23.16.1 Business Overview
 - 23.16.2 Product Offerings
 - 23.16.3 Key News
- 23.17 Vertiv Group
 - 23.17.1 Business Overview
 - 23.17.2 Product Offerings

24 PROMINENT DATA CENTER CONSTRUCTION CONTRACTORS

- 24.1 Arup Group

- 24.1.1 Business Overview
- 24.1.2 Service offerings
- 24.2 AWP Architects
 - 24.2.1 Business Overview
 - 24.2.2 Service Offerings
- 24.3 Aurecon Group
 - 24.3.1 Business Overview
 - 24.3.2 Service Offerings
- 24.4 CSF Group
 - 24.4.1 Business Overview
 - 24.4.2 Service Offerings
- 24.5 Cundall
 - 24.5.1 Business Overview
 - 24.5.2 Service Offerings
- 24.6 DSCO Group
 - 24.6.1 Business Overview
 - 24.6.2 Service Offerings
- 24.7 Fortis Construction
 - 24.7.1 Business Overview
 - 24.7.2 Service offerings
- 24.8 Faithful+Gould
 - 24.8.1 Business Overview
 - 24.8.2 Service Offerings
- 24.9 Kienta Engineering Construction
 - 24.9.1 Business Overview
 - 24.9.2 Service Offerings
- 24.10 LSK Engineering
 - 24.10.1 Business Overview
 - 24.10.2 Service Offerings
- 24.11 M+W Group (EXYTE)
 - 24.11.1 Business Overview
 - 24.11.2 Service Offerings
- 24.12 NTT Facilities Group
 - 24.12.1 Business Overview
 - 24.12.2 Service Offerings
- 24.13 Nakano Corporation
 - 24.13.1 Business Overview
 - 24.13.2 Service offerings
- 24.14 PM Group

- 24.14.1 Business Overview
- 24.14.2 Service Offerings
- 24.15 Sato Kogyo
 - 24.15.1 Business Overview
 - 24.15.2 Service Offerings

25 KEY DATA CENTER INVESTORS

- 25.1 Aims Data Centre
 - 25.1.1 Business Overview
 - 25.1.2 Service Offerings
- 25.2 Airtrunk Operating
 - 25.2.1 Business Overview
 - 25.2.2 Service Offerings
 - 25.2.3 Key news
- 25.3 Bridge Data Centres
 - 25.3.1 Business Overview
 - 25.3.2 Service Offerings
 - 25.3.3 Key News
- 25.4 BDX (Big Data Exchange)
 - 25.4.1 Business Overview
 - 25.4.2 Service Offerings
 - 25.4.3 Key News
- 25.5 Digital Realty
 - 25.5.1 Business Overview
 - 25.5.2 Service Offerings
 - 25.5.3 Key News
- 25.6 DCI Indonesia
 - 25.6.1 Business Overview
 - 25.6.2 Service Offerings
 - 25.6.3 Key News
- 25.7 Dtp
 - 25.7.1 Business Overview
 - 25.7.2 Service Offerings
- 25.8 Equinix
 - 25.8.1 Business Overview
 - 25.8.2 Service Offerings
 - 25.8.3 Key News
- 25.9 Iron Mountain

- 25.9.1 Business Overview
- 25.9.2 Service Offerings
- 25.10 Keppel DC
 - 25.10.1 Business Overview
 - 25.10.2 Service Offerings
- 25.11 Kepstar Data Centre Management
 - 25.11.1 Business Overview
 - 25.11.2 Service Offerings
- 25.12 NTT Global Data Centers
 - 25.12.1 Business Overview
 - 25.12.2 Service Offerings
- 25.13 Regal Orion
 - 25.13.1 Business Overview
 - 25.13.2 Service Offerings
- 25.14 Space DC
 - 25.14.1 Business Overview
 - 25.14.2 Service Offerings
 - 25.14.3 Key News
- 25.15 ST Telemedia Global Data Centres
 - 25.15.1 Business Overview
 - 25.15.2 Service Offerings
- 25.16 Vads Berhad
 - 25.16.1 Business Overview
 - 25.16.2 Service Offerings

26 REPORT SUMMARY

- 26.1 Key Takeaways

27 QUANTITATIVE SUMMARY

- 27.1 Data Center Market In Southeast Asia
 - 27.1.1 Overall Market
 - 27.1.2 Overall Market (Including IT Infrastructure)
 - 27.1.3 Infrastructure: Market Size & Forecast
 - 27.1.4 IT Infrastructure: Market Size & Forecast
 - 27.1.5 Electrical Infrastructure: Market Size & Forecast
 - 27.1.6 Mechanical Infrastructure: Market Size & Forecast
 - 27.1.7 Cooling Systems: Market Size & Forecast

- 27.1.8 Cooling Techniques : Market Size & Forecast
- 27.1.9 General Construction : Market Size & Forecast
- 27.1.10 Tier Standards : Market Size & Forecast

27.2 Geography

- 27.2.1 Investment By Country
- 27.2.2 Area By Country
- 27.2.3 Power Capacity By Country

27.3 Singapore

- 27.3.1 Overall Market Size
- 27.3.2 Market By Infrastructure

27.4 Indonesia

- 27.4.1 Overall Market Size
- 27.4.2 Market By Infrastructure

27.5 Malaysia

- 27.5.1 Overall Market Size
- 27.5.2 Market by Infrastructure

27.6 Thailand

- 27.6.1 Overall Market Size
- 27.6.2 Market By Infrastructure

27.7 Vietnam

- 27.7.1 Overall Market Size
- 27.7.2 Market By Infrastructure

27.8 Cambodia & Myanmar

- 27.8.1 Overall Market Size
- 27.8.2 Market by Infrastructure

27.9 Philippines

- 27.9.1 Overall Market Size
- 27.9.2 Market by Infrastructure

28 APPENDIX

28.1 Abbreviations

List Of Exhibits

LIST OF EXHIBITS

- Exhibit 1 Segmentation of Data Center Market in Southeast Asia
- Exhibit 2 Market Size Calculation Approach 2020
- Exhibit 3 Impact of Rise in 5G Network Connectivity
- Exhibit 4 Impact of Increasing Adoption of Renewable Energy
- Exhibit 5 Impact of Advanced Technologies in Data Centers
- Exhibit 6 Impact of Replacement of VRLA with Lithium-Ion Batteries in Data Centers
- Exhibit 7 Impact of Rise in Adoption of the All-Flash & Hybrid Array
- Exhibit 8 Impact of COVID-19 on Data Centers
- Exhibit 9 Impact of Increase in Data Center Investments
- Exhibit 10 Data Center Projects in Southeast Asia in 2020
- Exhibit 11 Impact of Increase in Cloud Adoption Driving the Data Center Market
- Exhibit 12 Impact of Rise in Deployment of Submarine Cables
- Exhibit 13 Impact of Security Challenges in Data Centers
- Exhibit 14 Impact of Location Restraints for Data Center Construction
- Exhibit 15 Impact of Scarcity of Skilled Workforce
- Exhibit 16 Data Center Market Investment in Southeast Asia by Geography (% Share)
- Exhibit 17 Data Center Market in Southeast Asia 2020?2026 (\$ billion)
- Exhibit 18 IT Infrastructure vs. Support Infrastructure in Southeast Asia 2020?2026 (\$ billion)
- Exhibit 19 Data Center Market Investment in Southeast Asia by Area & Geography (% Share)
- Exhibit 20 Data Center Market in Southeast Asia by Area 2020?2026 (million square feet)
- Exhibit 21 Data Center Market in Southeast Asia by Power Capacity 2020?2026 (MW)
- Exhibit 22 Data Center Market Investment in Southeast Asia by Area & Geography (% Share)
- Exhibit 23 Five Forces Analysis 2020
- Exhibit 24 Incremental Growth by Infrastructure 2020 & 2026
- Exhibit 25 Southeast Asia Data Center Market by Infrastructure
- Exhibit 26 Data Center Market in Southeast Asia by IT Infrastructure 2020?2026 (\$ billion)
- Exhibit 27 Data Center Market in Southeast Asia by Electrical Infrastructure 2020?2026 (\$ billion)
- Exhibit 28 Data Center Electrical Infrastructure Market in Southeast Asia by Geography 2020 & 2026 (\$ million)

- Exhibit 29 Data Center Mechanical Infrastructure Market in Southeast Asia by Geography 2020 & 2026 (\$ million)
- Exhibit 30 Data Center Market in Southeast Asia by Mechanical Infrastructure 2020-2026 (\$ billion)
- Exhibit 31 Data Center Market in Southeast Asia by General Construction 2020-2026 (\$ billion)
- Exhibit 32 Data Center Mechanical Infrastructure Market in Southeast Asia by Geography 2020 & 2026 (\$ million)
- Exhibit 33 Incremental Growth by IT Infrastructure 2020 & 2026
- Exhibit 34 Data Center Market in Southeast Asia by Server Infrastructure 2020-2026 (\$ billion)
- Exhibit 35 Data Center Market in Southeast Asia by Storage Infrastructure 2020-2026 (\$ billion)
- Exhibit 36 Data Center Market in Southeast Asia by Network Infrastructure 2020-2026 (\$ billion)
- Exhibit 37 Incremental Growth by Electrical Infrastructure 2020 & 2026
- Exhibit 38 Data Center Market in Southeast Asia by UPS Systems 2020-2026 (\$ million)
- Exhibit 39 Data Center Market in Southeast Asia by Generators 2020-2026 (\$ million)
- Exhibit 40 Data Center Market in Southeast Asia by Transfer Switches & Switchgears 2020-2026 (\$ million)
- Exhibit 41 Data Center Market in Southeast Asia by PDUs 2020-2026 (\$ million)
- Exhibit 42 Data Center Market in Southeast Asia by Other Electrical Infrastructure 2020-2026 (\$ million)
- Exhibit 43 Incremental Growth by Mechanical Infrastructure 2020 & 2026
- Exhibit 44 Data Center Cooling Systems Market in Southeast Asia 2020-2026 (\$ million)
- Exhibit 45 Data Center Racks Market in Southeast Asia 2020-2026 (\$ million)
- Exhibit 46 Data Center Market in SE Asia by Other Mechanical Infrastructure 2020-2026 (\$ million)
- Exhibit 47 Incremental Growth by Cooling Systems 2020 & 2026
- Exhibit 48 Data Center Market in Southeast Asia by CRAC & CRAH Units 2020-2026 (\$ million)
- Exhibit 49 Data Center Market in Southeast Asia by Chiller Units 2020-2026 (\$ million)
- Exhibit 50 Data Center Cooling Towers, Condensers & Dry Coolers Market in Southeast Asia 2020-2026 (\$ million)
- Exhibit 51 Data Center Market in Southeast Asia by Other Cooling Units 2020-2026 (\$ million)
- Exhibit 52 Incremental Growth by Cooling Technique 2020 & 2026

Exhibit 53 Data Center Air-Based Cooling Market in Southeast Asia 2020?2026 (\$ million)

Exhibit 54 Data Center Liquid-Based Cooling Market in Southeast Asia 2020?2026 (\$ million)

Exhibit 55 Incremental Growth by General Construction 2020 & 2026

Exhibit 56 Data Center Market in Southeast Asia by Core & Shell Development 2020–2026 (\$ million)

Exhibit 57 Data Center Market in Southeast Asia by Installation & Commissioning 2020–2026 (\$ million)

Exhibit 58 Data Center Market in Southeast Asia by Engineering & Building Design 2020–2026 (\$ million)

Exhibit 59 Data Center Market in Southeast Asia by Physical Security 2020–2026 (\$ million)

Exhibit 60 Data Center Market in Southeast Asia by DCIM/BMS 2020–2026 (\$ million)

Exhibit 61 Incremental Growth by Tier Standards 2020 & 2026

Exhibit 62 Overview of Tier Standards

Exhibit 63 Number Uptime Institute Certified Data Centers in India

Exhibit 64 Tier I & Tier II Data Center Market in Southeast Asia 2020–2026 (\$ million)

Exhibit 65 Tier III Data Center Market in Southeast Asia 2020–2026 (\$ million)

Exhibit 66 Tier IV Data Center Market in Southeast Asia 2020?2026 (\$ million)

Exhibit 67 Incremental Growth in Southeast Asia by Investment 2020 & 2026

Exhibit 68 Incremental Growth in Southeast Asia by Area 2020 & 2026

Exhibit 69 Incremental Growth in Southeast Asia by Power Capacity 2020 & 2026

Exhibit 70 Data Center Market in Singapore 2020?2026 (\$ million)

Exhibit 71 Data Center Market in Singapore by Area 2020?2026 (million square feet)

Exhibit 72 Data Center Market in Singapore by Power Capacity 2020?2026 (MW)

Exhibit 73 Data Center Support Infrastructure Market in Singapore 2020?2026 (\$ million)

Exhibit 74 Data Center Market in Malaysia 2020?2026 (\$ million)

Exhibit 75 Data Center Market in Malaysia by Area 2020?2026 (million square feet)

Exhibit 76 Data Center Market in Malaysia by Power Capacity 2020?2026 (MW)

Exhibit 77 Data Center Support Infrastructure Market in Malaysia 2020?2026 (\$ million)

Exhibit 78 Data Center Market in Thailand 2020?2026 (\$ million)

Exhibit 79 Data Center Market in Thailand by Area 2020?2026 (million square feet)

Exhibit 80 Data Center Market in Thailand by Power Capacity 2020?2026 (MW)

Exhibit 81 Data Center Support Infrastructure Market in Thailand 2020?2026 (\$ million)

Exhibit 82 Data Center Market in Indonesia 2020?2026 (\$ million)

Exhibit 83 Data Center Market in Indonesia by Area 2020?2026 (million square feet)

Exhibit 84 Data Center Market in Indonesia by Power Capacity 2020?2026 (MW)

Exhibit 85 Data Center Support Infrastructure Market in Indonesia 2020-2026 (\$ million)

Exhibit 86 Data Center Market in Cambodia & Myanmar 2020-2026 (\$ million)

Exhibit 87 Data Center Market in Cambodia & Myanmar by Area 2020-2026 (million square feet)

Exhibit 88 Data Center Market in Cambodia & Myanmar by Power Capacity 2020-2026 (MW)

Exhibit 89 Data Center Support Infrastructure Market in Cambodia & Myanmar 2020-2026 (\$ million)

Exhibit 90 Data Center Market in Vietnam 2020-2026 (\$ million)

Exhibit 91 Data Center Market in Vietnam by Area 2020-2026 (million square feet)

Exhibit 92 Data Center Market in Vietnam by Power Capacity 2020-2026 (MW)

Exhibit 93 Data Center Support Infrastructure Market in Vietnam 2020-2026 (\$ million)

Exhibit 94 Data Center Market in the Philippines 2020-2026 (\$ million)

Exhibit 95 Data Center Market in the Philippines by Area 2020-2026 (million square feet)

Exhibit 96 Data Center Market in the Philippines by Power Capacity 2020-2026 (MW)

Exhibit 97 Data Center Support Infrastructure Market in the Philippines 2020-2026 (\$ million)

List Of Tables

LIST OF TABLES

Table 1 Key Caveats

Table 2 Currency Conversion 2013?2020

Table 3 Data Center Site Selection Criteria

Table 4 Impact of COVID-19 On Southeast Asian Data Center Market

Table 5 Submarine & Inland Cable Connectivity Projects 2020

Table 6 Data Center Market in Southeast Asia 2020?2026

Table 7 Southeast Asia Data Center Market: IT Infrastructure & Support Infrastructure 2020?2026 (\$ billion)

Table 8 Data Center Market in Southeast Asia by Infrastructure 2020?2026 (\$ billion)

Table 9 Data Center Market in Southeast Asia by IT Infrastructure 2020?2026 (\$ billion)

Table 10 Data Center Market in Southeast Asia by Electrical Infrastructure 2020?2026 (\$ million)

Table 11 Data Center Market in Southeast Asia by Mechanical Infrastructure 2020?2026 (\$ million)

Table 12 Data Center Market in Southeast Asia by Cooling Systems 2020?2026 (\$ million)

Table 13 Data Center Market in Southeast Asia by Cooling Techniques 2020?2026 (\$ million)

Table 14 Data Center Market in Southeast Asia by General Construction 2020?2026 (\$ million)

Table 15 Data Center Market in Southeast Asia by Tier Standards 2020?2026 (\$ million)

Table 16 Data Center Market in Southeast Asia by Investment 2020-2026 (\$ million)

Table 17 Data Center Market in Southeast Asia by Area 2020-2026 (million square feet)

Table 18 Data Center Market in Southeast Asia by Power Capacity 2020-2026 (MW)

Table 19 Data Center Market in Singapore 2020-2026

Table 20 Data Center Market in Singapore by Infrastructure 2020-2026 (\$ million)

Table 21 Data Center Market in Indonesia 2020-2026

Table 22 Data Center Market in Indonesia by Infrastructure 2020-2026 (\$ million)

Table 23 Data Center Market in Malaysia 2020-2026

Table 24 Data Center Market in Malaysia by Infrastructure 2020-2026 (\$ million)

Table 25 Data Center Market in Thailand 2020-2026

Table 26 Data Center Market in Thailand by Infrastructure 2020-2026 (\$ million)

Table 27 Data Center Market in Vietnam 2020-2026

Table 28 Data Center Market in Vietnam by Infrastructure 2020-2026 (\$ million)

Table 29 Data Center Market in Cambodia & Myanmar 2020-2026

Table 30 Data Center Market in Cambodia & Myanmar by Infrastructure 2020-2026 (\$ million)

Table 31 Data Center Market in the Philippines 2020-2026

Table 32 Data Center Market in the Philippines by Infrastructure 2020-2026 (\$ million)

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