

Data Center Construction Market - Global Outlook & Forecast 2023-2028

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Report description:

The global data center construction market is expected to grow at a CAGR of 6.50% from 2022-2028.

KEY HIGHLIGHTS/ TRENDS

Shift Towards Sustainable Measures to Reduce Carbon Emissions

The increasing data center power consumption and the need to decrease carbon emissions have prompted many service providers to purchase clean, renewable energy sources to power their current and new facilities. There is a high interest in adopting renewable power sources among global and local operators. Also, many smaller operators are installing solar panels on the rooftops of their facilities to power the data centers.

Innovative and Sustainable Data Center Power Technologies

Several operators are upgrading their data centers from traditional technologies to new ones. Such new technologies will also help the companies focus on sustainability. Some such innovations are as follows:

- Adoption of advanced UPS batteries such as Lithium-ion, Nickle-Zinc, and Prussian Blue sodium-ion batteries replacing lead-acid batteries
- Software-Defined Data Centers (SDDC) and AI in power monitoring
- Microgrid adoption in data centers, majorly among hyperscalers
- Floating data centers, underwater data centers, snow-cooled data centers, and boiling liquid for cooling data centers
- Replacing Diesel Generators with naturally Gas-Powered Hydrogen Fuel Cells & Hydrotreated Vegetable Oil (HVO).

AI to Boost Liquid-Cooling Adoption

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Liquid cooling will rapidly grow among data centers deploying AI & ML workloads. For instance, most upcoming facilities will include at least one data hall to support the deployment of advanced two-phase immersion cooling and direct-to-chip cooling solutions. Meta (Facebook) has announced its plan to pause several new and expansion projects across the U.S., as it wants to create a new AI design for the data center facilities.

Government Support to Develop Data Centers

Over the past few years, data center growth has focused on countries offering tax incentives. Many state and local governments provide investments and sales tax incentives to attract operators. The U.S. is leading in providing tax incentives to data center operators. Several states in the U.S. provide tax incentives to data centers for investments, job opportunities, and compensation for employees.

Impact of Supply Chain Disruption

Supply chain disruptions are a major challenge faced by data center developers recently. With the onset of COVID-19, supply chain disruptions increased, leading to a shortage of infrastructure such as power equipment, cooling infrastructure, chips, and other infrastructure. Also, political instability and disturbances between Russia and Ukraine led to a price hike in energy and fuel costs. One of the major shortages faced in the data center construction market was chip shortage, which led to a decline in manufacturing several infrastructures.

SEGMENTATION INSIGHTS

Facility Type

- In 2022, over 31.5% of the overall power capacity addition in the global data center market was carried out by hyperscalers such as Meta (Facebook), Google, Microsoft, and Amazon Web Services.
- The investment by hyperscalers such as AWS, Google, Meta (Facebook), and Microsoft are majorly concentrated in the US region. However, the operators are moving from the US to the European and APAC regions.
- The colocation operators are continuously expanding their presence across the existing markets and are also involved in entering several new markets.

Data Center Electrical Infrastructure

- The emergence of microgrids and on-site power generation systems has led to increased energy storage and sustainable energy, thereby leading to increased savings and improved resiliency.
- The global data center construction market operators are focused on adopting advanced UPS batteries such as Lithium-ion, Nickel-Zinc, and Prussian Blue sodium-ion batteries. The adoption of Lithium-ion batteries is witnessing strong demand among operators.

Data Center Mechanical Infrastructure

- In terms of cooling systems, free cooling techniques have grown significantly over the last few years across regions with favorable climatic conditions that can use evaporative/adiabatic coolers for data center cooling purposes.
- Innovative designs such as district heating are expected to grow among data centers developed in states with colder climatic conditions.
- Procurement of 45U-48U rack cabinets to increase, with an increase in the design of the OCP-Ready Colocation facility supporting OCP-Rack Architecture

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Data Center General Construction Services

- Apart from the construction, installation, and commissioning services, data centers also invest in improving physical security, monitoring, and management of facilities through data center infrastructure management (DCIM) on a real-time basis.
- The importance of monitoring is growing with the adoption of intelligent real-time monitoring software with automation, and AI features that can predict maintenance requirements, component failures, and automatic switchovers for uninterrupted operations.
- Supply chain constraints have increased the data center construction and procurement cost by an average of USD 2 - 3 million per MW. However, vendors and developers have successfully aided in this.

GEOGRAPHICAL ANALYSIS

Americas Region

- The availability of tax incentives, free cooling solutions, renewable energy, and low cost of industrial land and power will drive the operators to invest in the Americas region.
- The Americas region is among the most matured data center markets. The North American region, which includes the U.S. and Canada, leads the market in terms of investment, white floor addition, and power capacity addition.

European Region

- The presence of data protection laws such as the implementation of GDPR, availability of free cooling solutions, district heating systems, availability of renewable energy, and others are among the major factors that will attract operators to invest in the European region.
- The FLAP-D markets are developed and established data center markets in Western Europe. However, implementing a moratorium across the Netherlands and Ireland region might slow the investment in the next 2-3 years.
- Spain, Italy, Switzerland, and Belgium are among the region's emerging locations for data center investment. These countries have a higher potential to attract hyperscalers to invest in the market.

Middle East & Africa (MEA) Region

- Increased internet & social media penetration, digitalization initiatives, migration from on-premise to cloud, colocation, and managed services are among the factors driving the data center market in the MEA region.
- UAE and Saudi Arabia are the top destinations for the data center market in the Middle East region. Gulf Data Hub and Khazna Data Centers are among the top colocation operators investing in the industry. Other countries such as Israel, Kuwait, Qatar, Oman, and Bahrain are also witnessing investment and are among the emerging locations in the Middle East region.

APAC Region

- The APAC region is among the world's most dynamic and fastest-growing data center markets. The region has established and developed markets such as China, Australia, Japan, and Singapore.
- India is likely to be among the top destinations for the data center market in the APAC region owing to the deployment of 5G and the surge in internet & social media penetration aided by several digitalization initiatives.

VENDOR LANDSCAPE

Data Center Support Infrastructure Providers

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-[]Vendors such as Schneider Electric, Rittal, Hewlett Packard Enterprise, and Delta Power Solutions provide infrastructure based on OCP design. This will aid in market revenue growth for these vendors, as many organizations prefer solutions such as 48V DC UPS systems.

Data Center Construction Contractors

-[]The surge in data center activities worldwide will be a major source of revenue for construction contractors. Some prominent construction contractors include AECOM, Arup, Corgan, DPR Construction, Fortis Construction, Holder Construction, Jacobs, Turner Construction, Syska Hennessy Group, RED Engineering, and Turner & Townsend.

Data Center Investors/ Operators

-[]The major hyperscale operators investing in the data center construction market include Amazon Web Services (AWS), Microsoft, Meta (Facebook), and Google.

KEY QUESTIONS ANSWERED:

- 1.[]How big is the data center construction market?
- 2.[]What is the growth rate of the data center construction market?
- 3.[]What is the estimated market size in terms of area in the global data center construction market by 2028?
- 4.[]What are the key trends in the data center construction industry?
- 5.[]How many MW of power capacity is expected to reach the global data center construction market by 2028?

Table of 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 FACILITY TYPE

4.4.2 MARKET SEGMENTATION BY INFRASTRUCTURE

4.4.3 MARKET SEGMENTATION BY ELECTRICAL INFRASTRUCTURE

4.4.4 MARKET SEGMENTATION BY MECHANICAL INFRASTRUCTURE

4.4.5 MARKET SEGMENTATION BY COOLING SYSTEM

4.4.6 MARKET SEGMENTATION BY COOLING TECHNIQUE

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

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7	PREMIUM INSIGHTS
7.1	MARKET OVERVIEW
7.2	KEY HIGHLIGHTS/ TRENDS
7.2.1	SHIFT TOWARD SUSTAINABLE MEASURES TO REDUCE CARBON EMISSIONS
7.2.2	INNOVATIVE AND SUSTAINABLE DATA CENTER POWER TECHNOLOGIES
7.2.3	AI TO BOOST LIQUID-COOLING ADOPTION
7.2.4	GOVERNMENT SUPPORT TO DEVELOP DATA CENTERS
7.2.5	IMPACT OF SUPPLY CHAIN DISRUPTIONS
7.3	SEGMENTATION ANALYSIS
7.3.1	FACILITY TYPE
7.3.2	DATA CENTER ELECTRICAL INFRASTRUCTURE
7.3.3	DATA CENTER MECHANICAL INFRASTRUCTURE
7.3.4	DATA CENTER GENERAL CONSTRUCTION SERVICES
7.4	GEOGRAPHICAL ANALYSIS
7.4.1	AMERICAS REGION
7.4.2	EUROPEAN REGION
7.4.3	MIDDLE EAST & AFRICA (MEA) REGION
7.4.4	APAC REGION
7.5	VENDOR ANALYSIS
7.5.1	DATA CENTER SUPPORT INFRASTRUCTURE PROVIDERS
7.5.2	DATA CENTER CONSTRUCTION CONTRACTORS
7.5.3	DATA CENTER INVESTORS/OPERATORS
8	INTRODUCTION
8.1	INTERNET & DATA GROWTH
8.2	DATA CENTER SITE SELECTION CRITERIA
8.2.1	KEY
9	MARKET OPPORTUNITIES & TRENDS
9.1	SUSTAINABILITY INITIATIVES BY DATA CENTER OPERATORS
9.2	5G DEPLOYMENTS FUELING EDGE DATA CENTER INVESTMENTS
9.3	SURGE IN RACK POWER DENSITY
9.4	SUSTAINABLE INNOVATIONS IN DATA CENTER POWER TECHNOLOGY
9.4.1	ECODIESEL GENERATORS
9.4.2	NATURAL GAS GENERATORS
9.4.3	FUEL CELLS (HYDROGEN)
9.4.4	HYDROTREATED VEGETABLE OIL (HVO) FUEL
9.4.5	NUCLEAR ENERGY GENERATION
9.4.6	OTHER INNOVATIONS
9.5	INNOVATIVE DATA CENTER POWER TECHNOLOGIES
9.5.1	ADOPTION OF ADVANCED UPS BATTERIES
9.5.2	SOFTWARE-DEFINED DATA CENTERS & AI IN POWER MONITORING
9.5.3	MICROGRIDS
9.6	AUTOMATION & INTELLIGENT MONITORING SOLUTIONS
9.7	ADOPTION OF AI-BASED INFRASTRUCTURE DRIVING LIQUID IMMERSION & DIRECT-TO-CHIP COOLING
10	MARKET GROWTH ENABLERS

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- 10.1 GROWING SUBMARINE & INLAND CONNECTIVITY
- 10.2 INCREASING M&AS AND JVS ACROSS THE INDUSTRY
- 10.3 BIG DATA & IOT FUELING DATA CENTER INVESTMENTS
- 10.4 GOVERNMENT SUPPORT FOR DATA CENTER INVESTMENTS
- 10.5 INCREASING DEMAND FOR CLOUD-BASED SERVICES

11 MARKET RESTRAINTS

- 11.1 RISING CARBON EMISSIONS FROM DATA CENTERS
- 11.2 SITE SELECTION HINDRANCES TO DATA CENTER DEVELOPMENT
- 11.3 LACK OF SKILLED DATA CENTER PROFESSIONALS & DISCRIMINATION
- 11.4 SECURITY CHALLENGES IMPACTING DATA CENTER GROWTH
- 11.5 HIGH MAINTENANCE COSTS & INEFFICIENCIES
- 11.6 SUPPLY CHAIN DISRUPTIONS HAMPERING GROWTH

12 MARKET LANDSCAPE

- 12.1 MARKET OVERVIEW
- 12.2 INVESTMENT: MARKET SIZE & FORECAST
- 12.3 AREA: MARKET SIZE & FORECAST
- 12.4 POWER CAPACITY: MARKET SIZE & FORECAST
- 12.5 FIVE FORCES ANALYSIS
 - 12.5.1 THREAT OF NEW ENTRANTS
 - 12.5.2 BARGAINING POWER OF SUPPLIERS
 - 12.5.3 BARGAINING POWER OF BUYERS
 - 12.5.4 THREAT OF SUBSTITUTES
 - 12.5.5 COMPETITIVE RIVALRY

13 FACILITY TYPE

- 13.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
- 13.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
- 13.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
- 13.4 HYPERSCALE DATA CENTERS
 - 13.4.1 MARKET OVERVIEW
 - 13.4.2 INVESTMENT: MARKET SIZE & FORECAST
 - 13.4.3 AREA: MARKET SIZE & FORECAST
 - 13.4.4 POWER CAPACITY: MARKET SIZE & FORECAST
- 13.5 COLOCATION DATA CENTERS
 - 13.5.1 MARKET OVERVIEW
 - 13.5.2 INVESTMENT: MARKET SIZE & FORECAST
 - 13.5.3 AREA: MARKET SIZE & FORECAST
 - 13.5.4 POWER CAPACITY: MARKET SIZE & FORECAST
- 13.6 ENTERPRISE DATA CENTERS
 - 13.6.1 MARKET OVERVIEW
 - 13.6.2 INVESTMENT: MARKET SIZE & FORECAST
 - 13.6.3 AREA: MARKET SIZE & FORECAST
 - 13.6.4 POWER CAPACITY: MARKET SIZE & FORECAST

14 INFRASTRUCTURE

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- 14.1 MARKET SNAPSHOT & GROWTH ENGINE
- 14.2 MARKET OVERVIEW
- 14.3 ELECTRICAL INFRASTRUCTURE
 - 14.3.1 MARKET OVERVIEW
 - 14.3.2 MARKET SIZE & FORECAST
- 14.4 MECHANICAL INFRASTRUCTURE
 - 14.4.1 MARKET OVERVIEW
 - 14.4.2 INVESTMENT: MARKET SIZE & FORECAST
- 14.5 GENERAL CONSTRUCTION
 - 14.5.1 MARKET OVERVIEW
 - 14.5.2 INVESTMENT: MARKET SIZE & FORECAST

- 15 ELECTRICAL INFRASTRUCTURE
 - 15.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 15.2 MARKET OVERVIEW
 - 15.3 UPS SYSTEMS
 - 15.3.1 MARKET OVERVIEW
 - 15.3.2 INVESTMENT: MARKET SIZE & FORECAST
 - 15.4 GENERATORS
 - 15.4.1 MARKET OVERVIEW
 - 15.4.2 INVESTMENT: MARKET SIZE & FORECAST
 - 15.5 TRANSFER SWITCHES & SWITCHGEAR
 - 15.5.1 MARKET OVERVIEW
 - 15.5.2 INVESTMENT: MARKET SIZE & FORECAST
 - 15.6 PDUS
 - 15.6.1 MARKET OVERVIEW
 - 15.6.2 INVESTMENT: MARKET SIZE & FORECAST
 - 15.7 OTHER ELECTRICAL INFRASTRUCTURE
 - 15.7.1 MARKET OVERVIEW
 - 15.7.2 INVESTMENT: MARKET SIZE & FORECAST

- 16 MECHANICAL INFRASTRUCTURE
 - 16.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 16.2 MARKET OVERVIEW
 - 16.3 COOLING SYSTEMS
 - 16.3.1 MARKET OVERVIEW
 - 16.3.2 MARKET SIZE & FORECAST
 - 16.4 RACKS
 - 16.4.1 MARKET OVERVIEW
 - 16.4.2 INVESTMENT: MARKET SIZE & FORECAST
 - 16.5 OTHER MECHANICAL INFRASTRUCTURE
 - 16.5.1 MARKET OVERVIEW
 - 16.5.2 INVESTMENT: MARKET SIZE & FORECAST

- 17 COOLING SYSTEMS
 - 17.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 17.2 MARKET OVERVIEW

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- 17.3 CRAC & CRAH UNITS
 - 17.3.1 MARKET OVERVIEW
 - 17.3.2 MARKET SIZE & FORECAST
- 17.4 CHILLER UNITS
 - 17.4.1 MARKET OVERVIEW
 - 17.4.2 INVESTMENT: MARKET SIZE & FORECAST
- 17.5 COOLING TOWERS, CONDENSERS & DRY COOLERS
 - 17.5.1 MARKET OVERVIEW
 - 17.5.2 INVESTMENT: MARKET SIZE & FORECAST
- 17.6 ECONOMIZERS & EVAPORATIVE COOLERS
 - 17.6.1 MARKET OVERVIEW
 - 17.6.2 INVESTMENT: MARKET SIZE & FORECAST
- 17.7 OTHER COOLING UNITS
 - 17.7.1 MARKET OVERVIEW
 - 17.7.2 INVESTMENT: MARKET SIZE & FORECAST

- 18 COOLING TECHNIQUE
 - 18.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 18.2 MARKET OVERVIEW
 - 18.3 AIR-BASED COOLING
 - 18.3.1 MARKET OVERVIEW
 - 18.3.2 MARKET SIZE & FORECAST
 - 18.4 LIQUID-BASED COOLING
 - 18.4.1 MARKET OVERVIEW
 - 18.4.2 INVESTMENT: MARKET SIZE & FORECAST

- 19 GENERAL CONSTRUCTION
 - 19.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 19.2 MARKET OVERVIEW
 - 19.3 CORE & SHELL DEVELOPMENT
 - 19.3.1 MARKET OVERVIEW
 - 19.3.2 MARKET SIZE & FORECAST
 - 19.4 INSTALLATION & COMMISSIONING SERVICES
 - 19.4.1 MARKET OVERVIEW
 - 19.4.2 INVESTMENT: MARKET SIZE & FORECAST
 - 19.5 ENGINEERING & BUILDING DESIGN
 - 19.5.1 MARKET OVERVIEW
 - 19.5.2 INVESTMENT: MARKET SIZE & FORECAST
 - 19.6 FIRE DETECTION & SUPPRESSION
 - 19.6.1 MARKET OVERVIEW
 - 19.6.2 INVESTMENT: MARKET SIZE & FORECAST
 - 19.7 PHYSICAL SECURITY
 - 19.7.1 MARKET OVERVIEW
 - 19.7.2 INVESTMENT: MARKET SIZE & FORECAST
 - 19.8 DCIM/BMS SOLUTIONS
 - 19.8.1 MARKET OVERVIEW
 - 19.8.2 INVESTMENT: MARKET SIZE & FORECAST

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- 20 TIER STANDARD
 - 20.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 20.2 MARKET OVERVIEW
 - 20.3 TIER I & II
 - 20.3.1 MARKET OVERVIEW
 - 20.3.2 MARKET SIZE & FORECAST
 - 20.4 TIER III
 - 20.4.1 MARKET OVERVIEW
 - 20.4.2 INVESTMENT: MARKET SIZE & FORECAST
 - 20.5 TIER IV
 - 20.5.1 MARKET OVERVIEW
 - 20.5.2 INVESTMENT: MARKET SIZE & FORECAST
- 21 GEOGRAPHY
 - 21.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
 - 21.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
 - 21.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
 - 21.4 SUPPORT INFRASTRUCTURE: MARKET SNAPSHOT & GROWTH ENGINE
- 22 NORTH AMERICA
 - 22.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
 - 22.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
 - 22.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
 - 22.4 SUPPORT INFRASTRUCTURE: MARKET SNAPSHOT & GROWTH ENGINE
 - 22.5 MARKET OVERVIEW
 - 22.6 INVESTMENT: MARKET SIZE & FORECAST
 - 22.6.1 MARKET SIZE & FORECAST
 - 22.7 AREA: MARKET SIZE & FORECAST
 - 22.7.1 MARKET SIZE & FORECAST
 - 22.8 POWER CAPACITY: MARKET SIZE & FORECAST
 - 22.8.1 MARKET SIZE & FORECAST
 - 22.9 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 22.9.1 MARKET SIZE & FORECAST
 - 22.10 US
 - 22.10.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 22.10.2 MARKET OVERVIEW
 - 22.10.3 INVESTMENT: MARKET SIZE & FORECAST
 - 22.10.4 AREA: MARKET SIZE & FORECAST
 - 22.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 22.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 22.11 CANADA
 - 22.11.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 22.11.2 MARKET OVERVIEW
 - 22.11.3 INVESTMENT: MARKET SIZE & FORECAST
 - 22.11.4 AREA: MARKET SIZE & FORECAST
 - 22.11.5 POWER CAPACITY: MARKET SIZE & FORECAST

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22.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

23 LATIN AMERICA

23.1 INVESTMENT: SNAPSHOT & GROWTH ENGINE

23.2 AREA: SNAPSHOT & GROWTH ENGINE

23.3 POWER CAPACITY: SNAPSHOT & GROWTH ENGINE

23.4 MARKET OVERVIEW

23.5 INVESTMENT: MARKET SIZE & FORECAST

23.1 AREA: MARKET SIZE & FORECAST

23.2 POWER CAPACITY: MARKET SIZE & FORECAST

23.3 BRAZIL

23.3.1 MARKET SNAPSHOT & GROWTH ENGINE

23.3.2 MARKET OVERVIEW

23.3.3 INVESTMENT: MARKET SIZE & FORECAST

23.3.4 AREA: MARKET SIZE & FORECAST

23.3.5 POWER CAPACITY: MARKET SIZE & FORECAST

23.3.6 INFRASTRUCTURE: MARKET SIZE & FORECAST

23.4 CHILE

23.4.1 MARKET SNAPSHOT & GROWTH ENGINE

23.4.2 MARKET OVERVIEW

23.4.3 INVESTMENT: MARKET SIZE & FORECAST

23.4.4 AREA: MARKET SIZE & FORECAST

23.4.5 POWER CAPACITY: MARKET SIZE & FORECAST

23.4.6 INFRASTRUCTURE: MARKET SIZE & FORECAST

23.5 COLOMBIA

23.5.1 MARKET SNAPSHOT & GROWTH ENGINE

23.5.2 MARKET OVERVIEW

23.5.3 INVESTMENT: MARKET SIZE & FORECAST

23.5.4 AREA: MARKET SIZE & FORECAST

23.5.5 POWER CAPACITY: MARKET SIZE & FORECAST

23.5.6 INFRASTRUCTURE: MARKET SIZE & FORECAST

23.6 MEXICO

23.6.1 MARKET SNAPSHOT & GROWTH ENGINE

23.6.2 MARKET OVERVIEW

23.6.3 INVESTMENT: MARKET SIZE & FORECAST

23.6.4 AREA: MARKET SIZE & FORECAST

23.6.5 POWER CAPACITY: MARKET SIZE & FORECAST

23.6.6 INFRASTRUCTURE: MARKET SIZE & FORECAST

23.7 REST OF LATIN AMERICA

23.7.1 MARKET SNAPSHOT & GROWTH ENGINE

23.7.2 MARKET OVERVIEW

23.7.3 INVESTMENT: MARKET SIZE & FORECAST

23.7.4 AREA: MARKET SIZE & FORECAST

23.7.5 POWER CAPACITY: MARKET SIZE & FORECAST

23.7.6 INFRASTRUCTURE: MARKET SIZE & FORECAST

24 WESTERN EUROPE

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24.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
24.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
24.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
24.4 UK
24.4.1 MARKET SNAPSHOT & GROWTH ENGINE
24.4.2 MARKET OVERVIEW
24.4.3 INVESTMENT: MARKET SIZE & FORECAST
24.4.4 AREA: MARKET SIZE & FORECAST
24.4.5 POWER CAPACITY: MARKET SIZE & FORECAST
24.4.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
24.5 GERMANY
24.5.1 MARKET SNAPSHOT & GROWTH ENGINE
24.5.2 MARKET OVERVIEW
24.5.3 INVESTMENT: MARKET SIZE & FORECAST
24.5.4 AREA: MARKET SIZE & FORECAST
24.5.5 POWER CAPACITY: MARKET SIZE & FORECAST
24.5.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
24.6 FRANCE
24.6.1 MARKET SNAPSHOT & GROWTH ENGINE
24.6.2 MARKET OVERVIEW
24.6.3 INVESTMENT: MARKET SIZE & FORECAST
24.6.4 AREA: MARKET SIZE & FORECAST
24.6.5 POWER CAPACITY: MARKET SIZE & FORECAST
24.6.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
24.7 NETHERLANDS
24.7.1 MARKET SNAPSHOT & GROWTH ENGINE
24.7.2 MARKET OVERVIEW
24.7.3 INVESTMENT: MARKET SIZE & FORECAST
24.7.4 AREA: MARKET SIZE & FORECAST
24.7.5 POWER CAPACITY: MARKET SIZE & FORECAST
24.7.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
24.8 IRELAND
24.8.1 MARKET SNAPSHOT & GROWTH ENGINE
24.8.2 MARKET OVERVIEW
24.8.3 INVESTMENT: MARKET SIZE & FORECAST
24.8.4 AREA: MARKET SIZE & FORECAST
24.8.5 POWER CAPACITY: MARKET SIZE & FORECAST
24.8.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
24.9 SWITZERLAND
24.9.1 MARKET SNAPSHOT & GROWTH ENGINE
24.9.2 MARKET OVERVIEW
24.9.3 INVESTMENT: MARKET SIZE & FORECAST
24.9.4 AREA: MARKET SIZE & FORECAST
24.9.5 POWER CAPACITY: MARKET SIZE & FORECAST
24.9.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
24.10 ITALY
24.10.1 MARKET SNAPSHOT & GROWTH ENGINE

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- 24.10.2 MARKET OVERVIEW
- 24.10.3 INVESTMENT: MARKET SIZE & FORECAST
- 24.10.4 AREA: MARKET SIZE & FORECAST
- 24.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
- 24.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 24.11 SPAIN
 - 24.11.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 24.11.2 MARKET OVERVIEW
 - 24.11.3 INVESTMENT: MARKET SIZE & FORECAST
 - 24.11.4 AREA: MARKET SIZE & FORECAST
 - 24.11.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 24.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 24.12 BELGIUM
 - 24.12.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 24.12.2 MARKET OVERVIEW
 - 24.12.3 INVESTMENT: MARKET SIZE & FORECAST
 - 24.12.4 AREA: MARKET SIZE & FORECAST
 - 24.12.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 24.12.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 24.13 PORTUGAL
 - 24.13.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 24.13.2 MARKET OVERVIEW
 - 24.13.3 INVESTMENT: MARKET SIZE & FORECAST
 - 24.13.4 AREA: MARKET SIZE & FORECAST
 - 24.13.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 24.13.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 24.14 OTHER WESTERN EUROPEAN COUNTRIES
 - 24.14.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 24.14.2 MARKET OVERVIEW
 - 24.14.3 INVESTMENT: MARKET SIZE & FORECAST
 - 24.14.4 AREA: MARKET SIZE & FORECAST
 - 24.14.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 24.14.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 25 NORDIC
 - 25.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
 - 25.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
 - 25.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
 - 25.4 DENMARK
 - 25.4.1 MARKET SNAPSHOT
 - 25.4.2 MARKET OVERVIEW
 - 25.4.3 INVESTMENT: MARKET SIZE & FORECAST
 - 25.4.4 AREA: MARKET SIZE & FORECAST
 - 25.4.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 25.4.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 25.5 SWEDEN
 - 25.5.1 MARKET SNAPSHOT

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- 25.5.2 MARKET OVERVIEW
- 25.5.3 INVESTMENT: MARKET SIZE & FORECAST
- 25.5.4 AREA: MARKET SIZE & FORECAST
- 25.5.5 POWER CAPACITY: MARKET SIZE & FORECAST
- 25.5.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 25.6 NORWAY
 - 25.6.1 MARKET SNAPSHOT
 - 25.6.2 MARKET OVERVIEW
 - 25.6.3 INVESTMENT: MARKET SIZE & FORECAST
 - 25.6.4 AREA: MARKET SIZE & FORECAST
 - 25.6.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 25.6.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 25.7 FINLAND & ICELAND
 - 25.7.1 MARKET SNAPSHOT
 - 25.7.2 MARKET OVERVIEW
 - 25.7.3 INVESTMENT: MARKET SIZE & FORECAST
 - 25.7.4 AREA: MARKET SIZE & FORECAST
 - 25.7.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 25.7.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

- 26 CENTRAL & EASTERN EUROPE
 - 26.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
 - 26.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
 - 26.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
 - 26.4 MARKET OVERVIEW
 - 26.5 INVESTMENT: MARKET SIZE & FORECAST
 - 26.6 AREA: MARKET SIZE & FORECAST
 - 26.7 POWER CAPACITY: MARKET SIZE & FORECAST
 - 26.8 RUSSIA
 - 26.8.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 26.8.2 MARKET OVERVIEW
 - 26.8.3 INVESTMENT: MARKET SIZE & FORECAST
 - 26.8.4 AREA: MARKET SIZE & FORECAST
 - 26.8.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 26.8.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 26.9 POLAND
 - 26.9.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 26.9.2 MARKET OVERVIEW
 - 26.9.3 INVESTMENT: MARKET SIZE & FORECAST
 - 26.9.4 AREA: MARKET SIZE & FORECAST
 - 26.9.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 26.9.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 26.10 AUSTRIA
 - 26.10.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 26.10.2 MARKET OVERVIEW
 - 26.10.3 INVESTMENT: MARKET SIZE & FORECAST
 - 26.10.4 AREA: MARKET SIZE & FORECAST

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- 26.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
- 26.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 26.11 CZECH REPUBLIC
 - 26.11.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 26.11.2 MARKET OVERVIEW
 - 26.11.3 INVESTMENT: MARKET SIZE & FORECAST
 - 26.11.4 AREA: MARKET SIZE & FORECAST
 - 26.11.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 26.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 26.12 OTHER CENTRAL & EASTERN EUROPEAN COUNTRIES
 - 26.12.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 26.12.2 MARKET OVERVIEW
 - 26.12.3 INVESTMENT: MARKET SIZE & FORECAST
 - 26.12.4 AREA: MARKET SIZE & FORECAST
 - 26.12.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 26.12.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 27 MIDDLE EAST
 - 27.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
 - 27.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
 - 27.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
 - 27.4 MARKET OVERVIEW
 - 27.5 INVESTMENT: MARKET SIZE & FORECAST
 - 27.6 AREA: MARKET SIZE & FORECAST
 - 27.7 POWER CAPACITY: MARKET SIZE & FORECAST
 - 27.8 UAE
 - 27.8.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 27.8.2 MARKET OVERVIEW
 - 27.8.3 INVESTMENT: MARKET SIZE & FORECAST
 - 27.8.4 AREA: MARKET SIZE AND FORECAST
 - 27.8.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 27.8.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 27.9 SAUDI ARABIA
 - 27.9.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 27.9.2 MARKET OVERVIEW
 - 27.9.3 INVESTMENT: MARKET SIZE & FORECAST
 - 27.9.4 AREA: MARKET SIZE & FORECAST
 - 27.9.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 27.9.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 27.10 ISRAEL
 - 27.10.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 27.10.2 MARKET OVERVIEW
 - 27.10.3 INVESTMENT: MARKET SIZE & FORECAST
 - 27.10.4 AREA: MARKET SIZE & FORECAST
 - 27.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 27.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
 - 27.11 OMAN

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27.11.1 MARKET SNAPSHOT & GROWTH ENGINE
27.11.2 MARKET OVERVIEW
27.11.3 INVESTMENT: MARKET SIZE & FORECAST
27.11.4 AREA: MARKET SIZE & FORECAST
27.11.5 POWER CAPACITY: MARKET SIZE & FORECAST
27.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
27.12 QATAR
27.12.1 MARKET SNAPSHOT & GROWTH ENGINE
27.12.2 MARKET OVERVIEW
27.12.3 INVESTMENT: MARKET SIZE & FORECAST
27.12.4 AREA: MARKET SIZE & FORECAST
27.12.5 POWER CAPACITY: MARKET SIZE & FORECAST
27.12.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
27.13 KUWAIT
27.13.1 MARKET SNAPSHOT & GROWTH ENGINE
27.13.2 MARKET OVERVIEW
27.13.3 INVESTMENT: MARKET FORECAST & FORECAST
27.13.4 AREA: MARKET SIZE & FORECAST
27.13.5 POWER CAPACITY: MARKET SIZE & FORECAST
27.13.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
27.14 JORDAN
27.14.1 MARKET SNAPSHOT & GROWTH ENGINE
27.14.2 MARKET OVERVIEW
27.14.3 INVESTMENT: MARKET SIZE & FORECAST
27.14.4 AREA: MARKET SIZE & FORECAST
27.14.5 POWER CAPACITY: MARKET SIZE & FORECAST
27.14.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
27.15 BAHRAIN
27.15.1 MARKET SNAPSHOT & GROWTH ENGINE
27.15.2 MARKET OVERVIEW
27.15.3 INVESTMENT: MARKET SIZE & FORECAST
27.15.4 AREA: MARKET SIZE & FORECAST
27.15.5 POWER CAPACITY: MARKET SIZE & FORECAST
27.15.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
27.16 OTHER MIDDLE EASTERN COUNTRIES
27.16.1 MARKET SNAPSHOT & GROWTH ENGINE
27.16.2 MARKET OVERVIEW
27.16.3 INVESTMENT: MARKET SIZE & FORECAST
27.16.4 AREA: MARKET SIZE & FORECAST
27.16.5 POWER CAPACITY: MARKET SIZE & FORECAST
27.16.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

28 AFRICA
28.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
28.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
28.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
28.4 MARKET OVERVIEW

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28.6 AREA: MARKET SIZE & FORECAST
28.7 POWER CAPACITY: MARKET SIZE & FORECAST
28.8 SOUTH AFRICA
28.8.1 MARKET SNAPSHOT & GROWTH ENGINE
28.8.2 MARKET OVERVIEW
28.8.3 INVESTMENT: MARKET SIZE & FORECAST
28.8.4 AREA: MARKET SIZE & FORECAST
28.8.5 POWER CAPACITY: MARKET SIZE & FORECAST
28.8.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
28.9 KENYA
28.9.1 MARKET SNAPSHOT & GROWTH ENGINE
28.9.2 MARKET OVERVIEW
28.9.3 INVESTMENT: MARKET SIZE & FORECAST
28.9.4 AREA: MARKET SIZE & FORECAST
28.9.5 POWER CAPACITY: MARKET SIZE & FORECAST
28.9.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
28.10 NIGERIA
28.10.1 MARKET SNAPSHOT & GROWTH ENGINE
28.10.2 MARKET OVERVIEW
28.10.3 INVESTMENT: MARKET SIZE & FORECAST
28.10.4 AREA: MARKET SIZE & FORECAST
28.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
28.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
28.11 EGYPT
28.11.1 MARKET SNAPSHOT & GROWTH ENGINE
28.11.2 MARKET OVERVIEW
28.11.3 INVESTMENT: MARKET SIZE & FORECAST
28.11.4 AREA: MARKET SIZE & FORECAST
28.11.5 POWER CAPACITY: MARKET SIZE & FORECAST
28.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
28.12 ETHIOPIA
28.12.1 MARKET SNAPSHOT & GROWTH ENGINE
28.12.2 MARKET OVERVIEW
28.12.3 INVESTMENT: MARKET SIZE & FORECAST
28.12.4 AREA: MARKET SIZE & FORECAST
28.12.5 POWER CAPACITY: MARKET SIZE & FORECAST
28.12.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
28.13 OTHER AFRICAN COUNTRIES
28.13.1 MARKET SNAPSHOT & GROWTH ENGINE
28.13.2 MARKET OVERVIEW
28.13.3 INVESTMENT: MARKET SIZE & FORECAST
28.13.4 AREA: MARKET SIZE & FORECAST
28.13.5 POWER CAPACITY: MARKET SIZE & FORECAST
28.13.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

29 APAC

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29.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
29.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
29.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
29.4 MARKET OVERVIEW
29.5 INVESTMENT: MARKET SIZE & FORECAST
29.6 AREA: MARKET SIZE & FORECAST
29.7 POWER CAPACITY: MARKET SIZE & FORECAST
29.8 CHINA
29.8.1 MARKET SNAPSHOT & GROWTH ENGINE
29.8.2 MARKET OVERVIEW
29.8.3 INVESTMENT: MARKET SIZE & FORECAST
29.8.4 AREA: MARKET SIZE & FORECAST
29.8.5 POWER CAPACITY: MARKET SIZE & FORECAST
29.8.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
29.9 HONG KONG
29.9.1 MARKET SNAPSHOT & GROWTH ENGINE
29.9.2 MARKET OVERVIEW
29.9.3 INVESTMENT: MARKET SIZE & FORECAST
29.9.4 AREA: MARKET SIZE & FORECAST
29.9.5 POWER CAPACITY: MARKET SIZE & FORECAST
29.9.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
29.10 AUSTRALIA
29.10.1 MARKET SNAPSHOT & GROWTH ENGINE
29.10.2 MARKET OVERVIEW
29.10.3 INVESTMENT: MARKET SIZE & FORECAST
29.10.4 AREA: MARKET SIZE & FORECAST
29.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
29.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
29.11 NEW ZEALAND
29.11.1 MARKET SNAPSHOT & GROWTH ENGINE
29.11.2 MARKET OVERVIEW
29.11.3 INVESTMENT: MARKET SIZE & FORECAST
29.11.4 AREA: MARKET SIZE & FORECAST
29.11.5 POWER CAPACITY: MARKET SIZE & FORECAST
29.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
29.12 JAPAN
29.12.1 MARKET SNAPSHOT & GROWTH ENGINE
29.12.2 MARKET OVERVIEW
29.12.3 INVESTMENT: MARKET SIZE & FORECAST
29.12.4 AREA: MARKET SIZE & FORECAST
29.12.5 POWER CAPACITY: MARKET SIZE & FORECAST
29.12.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
29.13 INDIA
29.13.1 MARKET SNAPSHOT & GROWTH ENGINE
29.13.2 MARKET OVERVIEW
29.13.3 INVESTMENT: MARKET SIZE & FORECAST
29.13.4 AREA: MARKET SIZE & FORECAST

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- 29.13.5 POWER CAPACITY: MARKET SIZE & FORECAST
- 29.13.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 29.14 SOUTH KOREA
 - 29.14.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 29.14.2 MARKET OVERVIEW
 - 29.14.3 INVESTMENT: MARKET SIZE & FORECAST
 - 29.14.4 AREA: MARKET SIZE & FORECAST
 - 29.14.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 29.14.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 29.15 TAIWAN
 - 29.15.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 29.15.2 MARKET OVERVIEW
 - 29.15.3 INVESTMENT: MARKET SIZE & FORECAST
 - 29.15.4 AREA: MARKET SIZE & FORECAST
 - 29.15.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 29.15.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 29.16 REST OF APAC
 - 29.16.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 29.16.2 MARKET OVERVIEW
 - 29.16.3 INVESTMENT: MARKET SIZE & FORECAST
 - 29.16.4 AREA: MARKET SIZE & FORECAST
 - 29.16.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 29.16.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

- 30 SOUTHEAST ASIA
 - 30.1 INVESTMENT: MARKET SNAPSHOT & GROWTH ENGINE
 - 30.2 AREA: MARKET SNAPSHOT & GROWTH ENGINE
 - 30.3 POWER CAPACITY: MARKET SNAPSHOT & GROWTH ENGINE
 - 30.4 MARKET OVERVIEW
 - 30.5 INVESTMENT: MARKET SIZE & FORECAST
 - 30.6 AREA: MARKET SIZE & FORECAST
 - 30.7 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.8 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 30.9 SINGAPORE
 - 30.9.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 30.9.2 MARKET OVERVIEW
 - 30.9.3 INVESTMENT: MARKET SIZE & FORECAST
 - 30.9.4 AREA: MARKET SIZE & FORECAST
 - 30.9.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.9.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 30.10 INDONESIA
 - 30.10.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 30.10.2 MARKET OVERVIEW
 - 30.10.3 INVESTMENT: MARKET SIZE & FORECAST
 - 30.10.4 AREA: MARKET SIZE & FORECAST
 - 30.10.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.10.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

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- 30.11 MALAYSIA
 - 30.11.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 30.11.2 MARKET OVERVIEW
 - 30.11.3 INVESTMENT: MARKET SIZE & FORECAST
 - 30.11.4 AREA: MARKET SIZE & FORECAST
 - 30.11.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.11.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 30.12 THAILAND
 - 30.12.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 30.12.2 MARKET OVERVIEW
 - 30.12.3 INVESTMENT: MARKET SIZE & FORECAST
 - 30.12.4 AREA: MARKET SIZE & FORECAST
 - 30.12.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.12.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 30.13 VIETNAM
 - 30.13.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 30.13.2 MARKET OVERVIEW
 - 30.13.3 INVESTMENT: MARKET SIZE & FORECAST
 - 30.13.4 AREA: MARKET SIZE & FORECAST
 - 30.13.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.13.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST
- 30.14 OTHER SOUTHEAST ASIAN COUNTRIES
 - 30.14.1 MARKET SNAPSHOT & GROWTH ENGINE
 - 30.14.2 MARKET OVERVIEW
 - 30.14.3 INVESTMENT: MARKET SIZE & FORECAST
 - 30.14.4 AREA: MARKET SIZE & FORECAST
 - 30.14.5 POWER CAPACITY: MARKET SIZE & FORECAST
 - 30.14.6 SUPPORT INFRASTRUCTURE: MARKET SIZE & FORECAST

31 COMPETITIVE LANDSCAPE

- 31.1 ELECTRICAL INFRASTRUCTURE
- 31.2 MECHANICAL INFRASTRUCTURE
- 31.3 GENERAL CONSTRUCTION
- 31.4 DATA CENTER INVESTORS

32 KEY DATA CENTER SUPPORT INFRASTRUCTURE PROVIDERS

- 32.1 ABB
 - 32.1.1 BUSINESS OVERVIEW
 - 32.1.2 PRODUCT OFFERINGS
- 32.2 CATERPILLAR
 - 32.2.1 BUSINESS OVERVIEW
 - 32.2.2 PRODUCT OFFERINGS
- 32.3 CUMMINS
 - 32.3.1 BUSINESS OVERVIEW
 - 32.3.2 PRODUCT OFFERINGS
- 32.4 DELTA ELECTRONICS
 - 32.4.1 BUSINESS OVERVIEW

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- 32.4.2 PRODUCT OFFERINGS
- 32.5 EATON
 - 32.5.1 BUSINESS OVERVIEW
 - 32.5.2 PRODUCT OFFERINGS
- 32.6 LEGRAND
 - 32.6.1 BUSINESS OVERVIEW
 - 32.6.2 PRODUCT OFFERINGS
- 32.7 ROLLS-ROYCE
 - 32.7.1 BUSINESS OVERVIEW
 - 32.7.2 PRODUCT OFFERINGS
- 32.8 SCHNEIDER ELECTRIC
 - 32.8.1 BUSINESS OVERVIEW
 - 32.8.2 PRODUCT OFFERINGS
- 32.9 STULZ
 - 32.9.1 BUSINESS OVERVIEW
 - 32.9.2 PRODUCT OFFERINGS
- 32.10 VERTIV
 - 32.10.1 BUSINESS OVERVIEW
 - 32.10.2 PRODUCT OFFERINGS

33 OTHER DATA CENTER SUPPORT INFRASTRUCTURE PROVIDERS

- 33.1 3M
 - 33.1.1 BUSINESS OVERVIEW
 - 33.1.2 PRODUCT OFFERINGS
- 33.2 AIREDALE
 - 33.2.1 BUSINESS OVERVIEW
 - 33.2.2 PRODUCT OFFERINGS
 - 33.2.3 KEY NEWS
- 33.3 ALFA LAVAL
 - 33.3.1 BUSINESS OVERVIEW
 - 33.3.2 PRODUCT OFFERINGS
- 33.4 ASETEK
 - 33.4.1 BUSINESS OVERVIEW
 - 33.4.2 PRODUCT OFFERINGS
- 33.5 ASSA ABLOY
 - 33.5.1 BUSINESS OVERVIEW
 - 33.5.2 PRODUCT OFFERINGS
- 33.6 BLOOM ENERGY
 - 33.6.1 BUSINESS OVERVIEW
 - 33.6.2 PRODUCT OFFERINGS
- 33.7 CARRIER
 - 33.7.1 BUSINESS OVERVIEW
 - 33.7.2 PRODUCT OFFERINGS
- 33.8 CONDAIR
 - 33.8.1 BUSINESS OVERVIEW
 - 33.8.2 PRODUCT OFFERINGS
- 33.9 CORMANT

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33.9.1 BUSINESS OVERVIEW
33.9.2 PRODUCT OFFERINGS
33.10 CYBER POWER SYSTEMS
33.10.1 BUSINESS OVERVIEW
33.10.2 PRODUCT OFFERINGS
33.11 DAIKIN APPLIED
33.11.1 BUSINESS OVERVIEW
33.11.2 PRODUCT OFFERINGS
33.12 DATA AIRE
33.12.1 BUSINESS OVERVIEW
33.12.2 PRODUCT OFFERINGS
33.13 ENLOGIC
33.13.1 BUSINESS OVERVIEW
33.13.2 PRODUCT OFFERINGS
33.14 FNT SOFTWARE
33.14.1 BUSINESS OVERVIEW
33.14.2 PRODUCT OFFERINGS
33.15 GENERAC POWER SYSTEMS
33.15.1 BUSINESS OVERVIEW
33.15.2 PRODUCT OFFERINGS
33.16 GREEN REVOLUTION COOLING (GRC)
33.16.1 BUSINESS OVERVIEW
33.16.2 PRODUCT OFFERINGS
33.17 HITEC POWER PROTECTION
33.17.1 BUSINESS OVERVIEW
33.17.2 PRODUCT OFFERINGS
33.18 HONEYWELL
33.18.1 BUSINESS OVERVIEW
33.18.2 PRODUCT OFFERINGS
33.19 JOHNSON CONTROLS
33.19.1 BUSINESS OVERVIEW
33.19.2 PRODUCT OFFERINGS
33.20 KOHLER
33.20.1 BUSINESS OVERVIEW
33.20.2 PRODUCT OFFERINGS
33.21 KYOTOCOOLING
33.21.1 BUSINESS OVERVIEW
33.21.2 PRODUCT OFFERINGS
33.22 MITSUBISHI ELECTRIC
33.22.1 BUSINESS OVERVIEW
33.22.2 PRODUCT OFFERINGS
33.23 MUNTERS
33.23.1 BUSINESS OVERVIEW
33.23.2 PRODUCT OFFERINGS
33.24 NATRON ENERGY
33.24.1 BUSINESS OVERVIEW
33.24.2 PRODUCT OFFERINGS

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- 33.25 NETZOOM
 - 33.25.1 BUSINESS OVERVIEW
 - 33.25.2 PRODUCT OFFERINGS
- 33.26 NLYTE SOFTWARE
 - 33.26.1 BUSINESS OVERVIEW
 - 33.26.2 PRODUCT OFFERINGS
- 33.27 PANDUIT
 - 33.27.1 BUSINESS OVERVIEW
 - 33.27.2 PRODUCT OFFERINGS
- 33.28 PILLER POWER SYSTEMS
 - 33.28.1 BUSINESS OVERVIEW
 - 33.28.2 PRODUCT OFFERINGS
- 33.29 RITTAL
 - 33.29.1 BUSINESS OVERVIEW
 - 33.29.2 PRODUCT OFFERINGS
- 33.30 SIEMENS
 - 33.30.1 BUSINESS OVERVIEW
 - 33.30.2 PRODUCT OFFERINGS
- 33.31 TRANE (INGERSOLL RAND)
 - 33.31.1 BUSINESS OVERVIEW
 - 33.31.2 PRODUCT OFFERINGS
- 33.32 TRIPP LITE
 - 33.32.1 BUSINESS OVERVIEW
 - 33.32.2 PRODUCT OFFERINGS
- 33.33 YANMAR (HIMOINSA)
 - 33.33.1 BUSINESS OVERVIEW
 - 33.33.2 PRODUCT OFFERINGS
- 33.34 ZINCFIVE
 - 33.34.1 BUSINESS OVERVIEW
 - 33.34.2 PRODUCT OFFERINGS
 - 33.34.3 KEY NEWS

34 KEY DATA CENTER CONTRACTORS

- 34.1 AECOM
 - 34.1.1 BUSINESS OVERVIEW
 - 34.1.2 SERVICE OFFERINGS
- 34.2 ARUP
 - 34.2.1 BUSINESS OVERVIEW
 - 34.2.2 SERVICE OFFERINGS
- 34.3 CORGAN
 - 34.3.1 BUSINESS OVERVIEW
 - 34.3.2 SERVICE OFFERINGS
- 34.4 DPR CONSTRUCTION
 - 34.4.1 BUSINESS OVERVIEW
 - 34.4.2 SERVICE OFFERINGS
- 34.5 FORTIS CONSTRUCTION
 - 34.5.1 BUSINESS OVERVIEW

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- 34.5.2 SERVICE OFFERINGS
- 34.6 HOLDER CONSTRUCTION
 - 34.6.1 BUSINESS OVERVIEW
 - 34.6.2 SERVICE OFFERINGS
- 34.7 JACOBS
 - 34.7.1 BUSINESS OVERVIEW
 - 34.7.2 SERVICE OFFERINGS
- 34.8 MERCURY
 - 34.8.1 BUSINESS OVERVIEW
 - 34.8.2 SERVICE OFFERINGS
- 34.9 RED ENGINEERING
 - 34.9.1 BUSINESS OVERVIEW
 - 34.9.2 SERVICE OFFERINGS
- 34.10 ROGERS-O'BRIEN CONSTRUCTION
 - 34.10.1 BUSINESS OVERVIEW
 - 34.10.2 SERVICE OFFERINGS
- 34.11 SYSKA HENNESSY GROUP
 - 34.11.1 BUSINESS OVERVIEW
 - 34.11.2 SERVICE OFFERINGS
- 34.12 TURNER CONSTRUCTION
 - 34.12.1 BUSINESS OVERVIEW
 - 34.12.2 SERVICE OFFERINGS
- 34.13 TURNER & TOWNSEND
 - 34.13.1 BUSINESS OVERVIEW
 - 34.13.2 SERVICE OFFERINGS

35 OTHER DATA CENTER CONTRACTORS

- 35.1 ALFATECH
 - 35.1.1 BUSINESS OVERVIEW
 - 35.1.2 SERVICE OFFERINGS
- 35.2 ATKINS
 - 35.2.1 BUSINESS OVERVIEW
 - 35.2.2 SERVICE OFFERINGS
- 35.3 AURECON
 - 35.3.1 BUSINESS OVERVIEW
 - 35.3.2 SERVICE OFFERINGS
- 35.4 BASLER & HOFMANN
 - 35.4.1 BUSINESS OVERVIEW
 - 35.4.2 SERVICE OFFERINGS
- 35.5 BLUESCOPE CONSTRUCTION
 - 35.5.1 BUSINESS OVERVIEW
 - 35.5.2 SERVICE OFFERINGS
- 35.6 BRASFIELD & GORRIE
 - 35.6.1 BUSINESS OVERVIEW
 - 35.6.2 SERVICE OFFERINGS
- 35.7 CALLISONRTKL
 - 35.7.1 BUSINESS OVERVIEW

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- 35.7.2 SERVICE OFFERINGS
- 35.8 CAP INGELEC
 - 35.8.1 BUSINESS OVERVIEW
 - 35.8.2 SERVICE OFFERINGS
- 35.9 CLARK CONSTRUCTION GROUP
 - 35.9.1 BUSINESS OVERVIEW
 - 35.9.2 SERVICE OFFERINGS
- 35.10 CLIMATEC
 - 35.10.1 BUSINESS OVERVIEW
 - 35.10.2 SERVICE OFFERINGS
- 35.11 CLUNE CONSTRUCTION
 - 35.11.1 BUSINESS OVERVIEW
 - 35.11.2 SERVICE OFFERINGS
- 35.12 COWI
 - 35.12.1 BUSINESS OVERVIEW
 - 35.12.2 SERVICE OFFERINGS
- 35.13 DC PRO ENGINEERING
 - 35.13.1 BUSINESS OVERVIEW
 - 35.13.2 SERVICE OFFERINGS
- 35.14 DORNAN
 - 35.14.1 BUSINESS OVERVIEW
 - 35.14.2 SERVICE OFFERINGS
- 35.15 EDARAT GROUP
 - 35.15.1 BUSINESS OVERVIEW
 - 35.15.2 SERVICE OFFERINGS
- 35.16 EMCOR GROUP
 - 35.16.1 BUSINESS OVERVIEW
 - 35.16.2 SERVICE OFFERINGS
- 35.17 EYP MCF
 - 35.17.1 BUSINESS OVERVIEW
 - 35.17.2 SERVICE OFFERINGS
- 35.18 GENSLER
 - 35.18.1 BUSINESS OVERVIEW
 - 35.18.2 SERVICE OFFERINGS
- 35.19 FLUOR CORPORATION
 - 35.19.1 BUSINESS OVERVIEW
 - 35.19.2 SERVICE OFFERINGS
- 35.20 GILBANE BUILDING COMPANY
 - 35.20.1 BUSINESS OVERVIEW
 - 35.20.2 SERVICE OFFERINGS
- 35.21 HDR
 - 35.21.1 BUSINESS OVERVIEW
 - 35.21.2 SERVICE OFFERINGS
- 35.22 HITT CONTRACTING
 - 35.22.1 BUSINESS OVERVIEW
 - 35.22.2 SERVICE OFFERINGS
- 35.23 HOFFMAN CONSTRUCTION

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35.23.1 BUSINESS OVERVIEW
35.23.2 SERVICE OFFERINGS
35.24 ISG
35.24.1 BUSINESS OVERVIEW
35.24.2 SERVICE OFFERINGS
35.25 JE DUNN CONSTRUCTION
35.25.1 BUSINESS OVERVIEW
35.25.2 SERVICE OFFERINGS
35.26 KIRBY GROUP ENGINEERING
35.26.1 BUSINESS OVERVIEW
35.26.2 SERVICE OFFERINGS
35.27 KW ENGINEERING
35.27.1 BUSINESS OVERVIEW
35.27.2 SERVICE OFFERINGS
35.28 KW MISSION CRITICAL ENGINEERING
35.28.1 BUSINESS OVERVIEW
35.28.2 SERVICE OFFERINGS
35.29 LAING O'Rourke
35.29.1 BUSINESS OVERVIEW
35.29.2 SERVICE OFFERINGS
35.30 LINESIGHT
35.30.1 BUSINESS OVERVIEW
35.30.2 SERVICE OFFERINGS
35.31 M+W GROUP (EXYTE)
35.31.1 BUSINESS OVERVIEW
35.31.2 SERVICE OFFERINGS
35.32 MCLAREN CONSTRUCTION GROUP
35.32.1 BUSINESS OVERVIEW
35.32.2 SERVICE OFFERINGS
35.33 MORRISON HERSHFIELD
35.33.1 BUSINESS OVERVIEW
35.33.2 SERVICE OFFERINGS
35.34 MORTENSON
35.34.1 BUSINESS OVERVIEW
35.34.2 SERVICE OFFERINGS
35.35 PM GROUP
35.35.1 BUSINESS OVERVIEW
35.35.2 SERVICE OFFERINGS
35.36 QUARK
35.36.1 BUSINESS OVERVIEW
35.36.2 SERVICE OFFERINGS
35.37 ROSENDIN
35.37.1 BUSINESS OVERVIEW
35.37.2 SERVICE OFFERINGS
35.38 ROYAL HASKONINGDHV
35.38.1 BUSINESS OVERVIEW
35.38.2 SERVICE OFFERINGS

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35.39 SALUTE MISSION CRITICAL
35.39.1 BUSINESS OVERVIEW
35.39.2 SERVICE OFFERINGS
35.40 SHEEHAN NAGLE HARTRAY ARCHITECTS
35.40.1 BUSINESS OVERVIEW
35.40.2 SERVICE OFFERINGS
35.41 SKANSKA
35.41.1 BUSINESS OVERVIEW
35.41.2 SERVICE OFFERINGS
35.42 SOUTHLAND INDUSTRIES
35.42.1 BUSINESS OVERVIEW
35.42.2 SERVICE OFFERINGS
35.43 STURGEON ELECTRIC COMPANY
35.43.1 BUSINESS OVERVIEW
35.43.2 SERVICE OFFERINGS
35.44 STRUCTURE TONE
35.44.1 BUSINESS OVERVIEW
35.44.2 SERVICE OFFERINGS
35.45 SWECO
35.45.1 BUSINESS OVERVIEW
35.45.2 SERVICE OFFERINGS
35.46 THE MULHERN GROUP
35.46.1 BUSINESS OVERVIEW
35.46.2 SERVICE OFFERINGS
35.47 THE WALSH GROUP
35.47.1 BUSINESS OVERVIEW
35.47.2 SERVICE OFFERINGS
35.48 THE WEITZ COMPANY
35.48.1 BUSINESS OVERVIEW
35.48.2 SERVICE OFFERINGS
35.49 TRINITY GROUP CONSTRUCTION
35.49.1 BUSINESS OVERVIEW
35.49.2 SERVICE OFFERINGS

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