

# Western Europe and Nordic Data Center Market - 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 Western Europe and Nordic Data Center Market Report

The Western Europe and Nordic data center market by investment is expected to grow at a CAGR of approx. 4% during the period 2020–2026.

The market witnessed supply chain-related challenges in Q1 and Q2 2020 for both IT infrastructure and support infrastructure providers. However, these recovered in Q3 2020. The market growth was aided by previously announced projects and expansions of facilities in a few locations where data centers were deemed essential services. A majority of the demand for data center services is contributed by cloud-based service providers.

The following factors are likely to contribute to the growth of western Europe and Nordic data center market during the forecast period:

5G boosting Edge Data Center Investments

Growing Procurement of Renewable Energy

Innovative UPS Battery Technology

Increased Adoption of 200/400 GBE Switch Ports

The study considers the present scenario of Western Europe and Nordic 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.

Western Europe And Nordic Data Center Market Segmentation

The Western Europe and Nordic 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. In 2020, the IT infrastructure adoption among newly established and existing data centers grew significantly. Germany is the leading market in the IT infrastructure spending, followed by the UK, the Netherlands, France, and Ireland. The emergence of software-defined architectures and converged infrastructure expects to drive the IT infrastructure solutions market in Western Europe. Similarly, the increasing adoption of cloud computing services in the Nordic region leads to increased procurement of IT infrastructure components. Finland, Sweden, and Denmark are the leading contributors to cloud adoption, with 50% of enterprises using cloud computing services.

Several Western Europe facilities have adopted flexible designs to facilitate dual power feeds, 2N redundant UPS and PDU systems, and N+1 generators. The growth of lithiumion UPS systems is aided by benefits such as reducing the OPEX through lower maintenance costs and decreasing UPS battery failure chances. Vendors are continuously coming out with innovative UPS solutions to boost efficiency and reduce cost. The construction of large and mega data center facilities in Western Europe and Nordics is likely to aid the generators market. DRUPS solutions are likely to witness high demand among data centers, with multiple modules having the capacity of up to 2 MW in N+N redundant configurations.

Several Western Europe data centers support free cooling systems that include adiabatic coolers, evaporative coolers, and free cooling chiller systems. Water-based cooling includes water-treatment plants and systems that can aid water consumption by up to 20%. Most operators procure 45U–52U rack cabinets. The procurement of 42U racks is declining in the market.

Western Europe is the most active market for data center construction in Europe. The increase in data center demand has increased revenue opportunities for contractors and sub-contractors in the industry. A significant data center construction in the region is managed by Europe-based construction service providers, including architects and



engineering firms. However, the non-availability of skilled workforce to handle multiple hyperscale projects is a major challenge for several contractors in the region. Hyperscale data center development will be a major boost for contractors and subcontractors operating in the Nordic region. Most hyperscale projects are built in collaboration with global data center construction contractors and sub-contractors.

Western Europe and Nordic data center market size by tier standards is expected to reach approx. USD 12 billion by 2026, growing at a CAGR of over 5%. There are 112 Tier III certified facilities in Western Europe and Nordic region, with the UK, Spain, Italy, and Lithuania leading the list. Most new data centers are designed to be of Tier III standards with a minimum of N+1 redundancy. The European region hosts around 50 facilities that are Tier IV certified facilities. Denmark, France, Greece, Italy, Luxembourg, the Netherlands, Norway, Spain, Switzerland, and the UK have several Tier IV facilities. These facilities are equipped with at least 2N+1 redundancy in the infrastructure that makes the facility fault-tolerant, with UPS systems and PDUs having 2N+2 redundancy. Facebook, Apple, Google, and Microsoft are major hyperscale developers.

By IT Infrastructure	
Servers	
Storage	
Network	
By Electrical Infrastructure	
UPS Sys	tems
Generato	ors
Transfer	Switches and Switchgears
PDUs	
Other Ele	ectrical Infrastructures



# By Mechanical Infrastructure

Cooling Systems

**CRAC & CRAH Units** 

**Chiller Units** 

Cooling Towers, Dry Coolers, & Condensers

Economizers and Evaporative Coolers, and Other Units

Racks

Other Mechanical Infrastructure

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 Standar	rds
Tier I &	II
Tier III	
Tier IV	
INSIGHTS BY	GEOGRAPHY
of cloud service businesses. The will fuel the gro- centers are buil	urope data center market is likely to witness growth due to the adoption es among SMEs, with the increased interest in the digitalization of e demand for smart devices, coupled with growing internet penetration, with and corresponding infrastructure in the region. Western Europe data it to support OCP rack infrastructure solutions. The UK, the Netherlands, France are the leading destinations for data center development.
By Geography	
Western Europe	
ı	UK
	Germany
!	France
İ	Netherlands
İ	Ireland
J	Belgium
;	Switzerland

Luxembourg



Italy	
Spain	
Other Western European Countries	
Nordic	
Denmark	
Norway	
Sweden	
Finland & Iceland	

#### INSIGHTS BY VENDORS

Western Europe and Nordic data center market consists of several IT infrastructure, electrical, mechanical, and general construction service providers. Huawei Technologies, Super Micro Computers, Atos, and NEC are the major IT infrastructure vendors. Atos experiences strong demand for its infrastructure solutions in the Western Europe and Nordics markets. The data center market by electrical infrastructure has become competitive due to increased interest displayed by operators in procuring energy-efficient infrastructure solutions. Several data center requirements from service operators prompt vendors to develop innovative products with over 90% efficiency in performing data center operations and reducing OPEX by up to 50%. The Western Europe and Nordics data center market comprises several local and global construction contractors, architectural and engineering firms, physical security vendors, and DCIM solutions providers. Revenue opportunities for vendors are high due to the growing construction of hyperscale data centers.

Key Data Center Critical (IT) Infrastructure Providers

Arista Networks

Atos



Broadcom
Cisco Systems
Dell Technologies
Extreme Networks
Huawei Technologies
Hewlett Packard Enterprise (HPE)
Hitachi Vantara
IBM
Inspur
Inventec
Juniper Networks
Lenovo
MiTAC Holdings
NEC Corporation
NetApp
Oracle
Pure Storage
Quanta Computer (Quanta Cloud Technology)
Super Micro Computer



Wistron (Wiwynn)

Key Data Center Support Infrastructure Providers	
ABB	
Airedale Conditioning Systems	
Asetek	
Alfa Laval	
Assa Abloy	
Bosch Security Systems (Robert Bosch)	
Caterpillar	
Cummins	
Delta Electronics	
Eaton	
HITEC Power Protection	
KOHLER-SDMO	
Legrand	

Mitsubishi Electric Corporation

Nlyte Software

Piller Power Systems

Rolls-Royce Power Systems



	Rittal
	Riello Elettronica (Riello UPS)
	Schneider Electric
	STULZ
	Socomec
	Trane Technologies
	Vertiv Group
Key Data Center Investors	
	acens Technologies
	Adam
	Aruba
	Bahnhof
	CyrusOne
	Colt Data Center Services (Colt DCS)
	Digital Realty
	DigiPlex
	DATA4 Smart Data Centers
	Equinix
	Echelon Data Centers



EcoDataCenter

	Facebook
	Google
	Global Switch
	GlobalConnect
	Green Mountain
	Iron Mountain
	Microsoft
	Nexica - Econocom Group
	NTT Global Data Centers
	QTS Realty Trust
	VIRTUS Data Centres
	Telecom Italia Sparkle
	T5 Data Centers
	Vantage Data Centers
Key Co	onstruction Constructors
	AECOM
	Arup Group
	Bouygues Construction



CapIngelec
DPR Construction
Deerns
Fluor Corporation
Future-Tech
HDR Architecture
ISG
Jones Engineering
Kirby Group
Linesight
Mercury Engineering
Mace Group
M+W Group (Exyte)
Metnor Construction
RED-Engineering
Structure Tone
Winthrop Engineering and Contracting

# **KEY QUESTIONS ANSWERED**

- 1. How big is Western Europe and Nordic data center market?
- 2. What are the upcoming industry applications for data centers?



- 3. Which are the major IT companies operating in the Western Europe and Nordic data center market?
- 4. What are the top trends driving the Western Europe and Nordic data center market?
- 5. Which segments are expected to grow at the fastest CAGR during the forecast period?
- 6. How does COVID-19 affect the data center market landscape?



# **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 Electricity Pricing in Western Europe And The Nordics
- 7.2 Data Center Site Selection Criteria
  - 7.2.1 Key
- 7.3 Submarine Cables



#### **8 MARKET OPPORTUNITIES & TRENDS**

- 8.1 5G To Boost Edge Data Center Investments
- 8.2 Growing Procurement of Renewable Energy
- 8.3 Innovative Ups Battery Technology
- 8.4 Adoption of District Heating By Data Centers
- 8.5 Increased Adoption Of 200/400 GBE Switch Ports

#### 9 MARKET ENABLERS

- 9.1 Covid-19 Enhancing Data Center Demand
- 9.2 Cloud Adoption Driving The Data Center Market
- 9.3 Increasing Demand For Big Data & lot Investments
- 9.4 Rise In Colocation Investments
- 9.5 M&As Fueling Data Center Growth
- 9.6 Tax Incentives Increasing Data Center Investments
- 9.7 Data Regulations Increasing Cloud & Colocation Data Center Investments

#### 10 MARKET RESTRAINTS

- 10.1 Increased Power & Network Outages
- 10.2 Security Challenges In Data Centers
- 10.3 Lack Of Skilled Workforce
- 10.4 Rising Carbon Emissions From Data Centers
- 10.5 Location Constraints For Data Center Construction

# 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 & Switchgears
  - 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 Economizers & Evaporative Coolers
  - 16.5.1 Market Overview
  - 16.5.2 Market Size & Forecast
- 16.6 Other Cooling Units



16.6.1 Market Overview

16.6.2 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 Building & Engineering 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 Market Snapshot & Growth Engine

# 21 WESTERN EUROPE

21.1 Investment: Snapshot & Growth Engine

21.2 Area: Snapshot & Growth Engine

21.3 Power Capacity: Snapshot & Growth Engine

21.4 Market Overview

21.5 Investment

21.5.1 Market Size & Forecast

21.6 Area

21.6.1 Market Size & Forecast

21.7 Power Capacity

21.7.1 Market Size & Forecast

21.8 IT Infrastructure

21.8.1 Market Size & Forecast

21.9 Support Infrastructure

21.9.1 Market Size & Forecast

21.10 UK

21.10.1 Market Overview

21.10.2 Investment: Market Size & Forecast

21.10.3 Area: Market Size & Forecast

21.10.4 Power Capacity: Market Size & Forecast

21.10.5 Support Infrastructure: Market Size & Forecast

21.11 Germany

21.11.1 Market Overview

21.11.2 Investment: Market Size & Forecast

21.11.3 Area: Market Size & Forecast

21.11.4 Power Capacity: Market Size & Forecast

21.11.5 Support Infrastructure: Market Size & Forecast



#### 21.12 Netherlands

- 21.12.1 Market Overview
- 21.12.2 Investment: Market Size & Forecast
- 21.12.3 Area: Market Size & Forecast
- 21.12.4 Power Capacity: Market Size & Forecast
- 21.12.5 Support Infrastructure: Market Size & Forecast

#### 21.13 France

- 21.13.1 Market Overview
- 21.13.2 Investment: Market Size & Forecast
- 21.13.3 Area: Market Size & Forecast
- 21.13.4 Power Capacity: Market Size & Forecast
- 21.13.5 Support Infrastructure: Market Size & Forecast
- 21.14 Ireland
  - 21.14.1 Market Overview
  - 21.14.2 Investment: Market Size & Forecast
  - 21.14.3 Area: Market Size & Forecast
  - 21.14.4 Power Capacity: Market Size & Forecast
  - 21.14.5 Support Infrastructure: Market Size & Forecast

# 21.15 Belgium

- 21.15.1 Market Overview
- 21.15.2 Investment: Market Size & Forecast
- 21.15.3 Area: Market Size & Forecast
- 21.15.4 Power Capacity: Market Size & Forecast
- 21.15.5 Support Infrastructure: Market Size & Forecast

#### 21.16 Switzerland

- 21.16.1 Market Overview
- 21.16.2 Investment: Market Size & Forecast
- 21.16.3 Area: Market Size & Forecast
- 21.16.4 Power Capacity: Market Size & Forecast
- 21.16.5 Support Infrastructure: Market Size & Forecast

# 21.17 Luxembourg

- 21.17.1 Market Overview
- 21.17.2 Investment: Market Size & Forecast
- 21.17.3 Area: Market Size & Forecast
- 21.17.4 Power Capacity: Market Size & Forecast
- 21.17.5 Support Infrastructure: Market Size & Forecast

# 21.18 Italy

- 21.18.1 Market Overview
- 21.18.2 Investment: Market Size & Forecast



21.18.3 Area: Market Size & Forecast

21.18.4 Power Capacity: Market Size & Forecast

21.18.5 Support Infrastructure: Market Size & Forecast

21.19 Spain

21.19.1 Market Overview

21.19.2 Investment: Market Size & Forecast

21.19.3 Area: Market Size & Forecast

21.19.4 Power Capacity: Market Size & Forecast

21.19.5 Support Infrastructure: Market Size & Forecast

21.20 Other Western European Countries

21.20.1 Market Overview

21.20.2 Investment: Market Size & Forecast

21.20.3 Area: Market Size & Forecast

21.20.4 Power Capacity: Market Size & Forecast

21.20.5 Support Infrastructure: Market Size & Forecast

# 22 NORDIC REGION

22.1 Investment: Snapshot & Growth Engine

22.2 Area: Snapshot & Growth Engine

22.3 Power Capacity: Snapshot & Growth Engine

22.4 Market Overview

22.5 Investment

22.5.1 Market Size & Forecast

22.6 Area

22.6.1 Market Size & Forecast

22.7 Power Capacity

22.7.1 Market Size & Forecast

22.8 IT Infrastructure

22.8.1 Market Size & Forecast

22.9 Support Infrastructure

22.9.1 Market Size & Forecast

22.10 Denmark

22.10.1 Market Overview

22.10.2 Investment: Market Size & Forecast

22.10.3 Area: Market Size & Forecast

22.10.4 Power Capacity: Market Size & Forecast

22.10.5 Support Infrastructure: Market Size & Forecast

22.11 Norway



- 22.11.1 Market Overview
- 22.11.2 Investment: Market Size & Forecast
- 22.11.3 Area: Market Size & Forecast
- 22.11.4 Power Capacity: Market Size & Forecast
- 22.11.5 Support Infrastructure: Market Size & Forecast
- 22.12 Sweden
  - 22.12.1 Market Overview
  - 22.12.2 Investment: Market Size & Forecast
  - 22.12.3 Area: Market Size & Forecast
  - 22.12.4 Power Capacity: Market Size & Forecast
  - 22.12.5 Support Infrastructure: Market Size & Forecast
- 22.13 Finland & Iceland
  - 22.13.1 Market Overview
  - 22.13.2 Investment: Market Size & Forecast
  - 22.13.3 Area: Market Size & Forecast
  - 22.13.4 Power Capacity: Market Size & Forecast
  - 22.13.5 Support Infrastructure: Market Size & Forecast

#### 23 COMPETITIVE LANDSCAPE

- 23.1 IT Infrastructure
  - 23.1.1 Server Infrastructure
  - 23.1.2 Storage Infrastructure
- 23.1.3 Network Infrastructure
- 23.2 Electrical Infrastructure
- 23.3 Mechanical Infrastructure
- 23.4 General Construction

# 24 PROMINENT CRITICAL (IT) INFRASTRUCTURE PROVIDERS

- 24.1 Arista Networks
  - 24.1.1 Business Overview
  - 24.1.2 Product Offerings
- 24.2 Atos
  - 24.2.1 Business Overview
- 24.2.2 Product Offerings
- 24.3 Broadcom
  - 24.3.1 Business Overview
  - 24.3.2 Product Offerings



- 24.3.3 Key News
- 24.4 CISCO Systems
  - 24.4.1 Business Overview
  - 24.4.2 Product Offerings
- 24.5 Dell Technologies
  - 24.5.1 Business Overview
  - 24.5.2 Product Offerings
- 24.6 Extreme Networks
  - 24.6.1 Business Overview
  - 24.6.2 Product Offerings
- 24.7 Huawei Technologies
  - 24.7.1 Business Overview
  - 24.7.2 Product Offerings
  - 24.7.3 Key News
- 24.8 Hewlett Packard Enterprise (HPE)
  - 24.8.1 Business Overview
  - 24.8.2 Product Offerings
  - 24.8.3 Key News
- 24.9 Hitachi Vantara
  - 24.9.1 Business Overview
  - 24.9.2 Product Offerings
- 24.10 IBM
  - 24.10.1 Business Overview
  - 24.10.2 Product Offerings
- **24.11 INSPUR** 
  - 24.11.1 Business Overview
  - 24.11.2 Product Offerings
  - 24.11.3 Key News
- 24.12 Inventec
  - 24.12.1 Business Overview
  - 24.12.2 Product Offerings
- 24.13 Juniper Networks
  - 24.13.1 Business Overview
  - 24.13.2 Product Offerings
- 24.14 Lenovo
  - 24.14.1 Business Overview
  - 24.14.2 Product Offerings
- 24.15 MITAC Holdings
- 24.15.1 Business Overview



24.15.2 Products Offerings

24.16 NEC Corporation

24.16.1 Business Overview

24.16.2 Product Offerings

**24.17 NETAPP** 

24.17.1 Business Overview

24.17.2 Product Offerings

24.18 Oracle

24.18.1 Business Overview

24.18.2 Product Offerings

24.19 Pure Storage

24.19.1 Business Overview

24.19.2 Product Offerings

24.20 Quanta Computer (Quanta Cloud Technology)

24.20.1 Business Overview

24.20.2 Product Offerings

24.21 Super Micro Computer

24.21.1 Business Overview

24.21.2 Product Offerings

24.22 Wistron (WIWYNN)

24.22.1 Business Overview

24.22.2 Product Offerings

# 25 PROMINENT SUPPORT INFRASTRUCTURE PROVIDERS

25.1 ABB

25.1.1 Business Overview

25.1.2 Product Offerings

25.2 Airedale International

25.2.1 Business Overview

25.2.2 Product Offerings

25.2.3 Key News

**25.3 ASETEK** 

25.3.1 Business Overview

25.3.2 Product Offerings

25.4 Alfa Laval

25.4.1 Business Overview

25.4.2 Product Offerings

25.5 Assa Abloy



- 25.5.1 Business Overview
- 25.5.2 Product Offerings
- 25.6 Bosch Security Systems (ROBERT BOSCH)
  - 25.6.1 Business Overview
  - 25.6.2 Product Offerings
- 25.7 Caterpillar
  - 25.7.1 Business Overview
  - 25.7.2 Product Offerings
- 25.8 Cummins
  - 25.8.1 Business Overview
  - 25.8.2 Product Offerings
- 25.9 Delta Electronics
- 25.9.1 Business Overview
- 25.9.2 Product Offerings
- 25.10 Eaton
  - 25.10.1 Business Overview
  - 25.10.2 Product Offerings
  - 25.10.3 Key News
- 25.11 Hitec Power Protection
  - 25.11.1 Business Overview
  - 25.11.2 Product Offerings
- 25.12 Kohler-SDMO
  - 25.12.1 Business Overview
  - 25.12.2 Product Offerings
- 25.13 Legrand
  - 25.13.1 Business Overview
  - 25.13.2 Product Offerings
- 25.14 Mitsubishi Electric Corporation
  - 25.14.1 Business Overview
  - 25.14.2 Product Offerings
- 25.15 Nlyte Software
  - 25.15.1 Business Overview
  - 25.15.2 Product Offerings
- 25.16 Piller Power Systems
  - 25.16.1 Business overview
  - 25.16.2 Product offerings
  - 25.16.3 Key news
- 25.17 Rolls-Royce Power Systems
  - 25.17.1 Business Overview



25.17.2 Product Offerings

25.17.3 Key News

25.18 Rittal

25.18.1 Business Overview

25.18.2 Product Offerings

25.19 Riello Elettronica (RIELLO UPS)

25.19.1 Business Overview

25.19.2 Product Offerings

25.20 Schneider Electric

25.20.1 Business Overview

25.20.2 Product Offerings

25.21 STULZ

25.21.1 Business Overview

25.21.2 Product Offerings

25.22 Socomec

25.22.1 Business Overview

25.22.2 Product Offerings

25.22.3 Key News

25.23 Trane Technologies (INGERSOLL RAND)

25.23.1 Business Overview

25.23.2 Product Offerings

25.24 Vertiv Group

25.24.1 Business Overview

25.24.2 Product Offerings

#### 26 PROMINENT CONSTRUCTION CONTRACTORS

**26.1 AECOM** 

26.1.1 Business Overview

26.1.2 Service Offerings

26.2 ARUP Group

26.2.1 Business Overview

26.2.2 Service Offerings

26.3 Bouygues Construction

26.3.1 Business Overview

26.3.2 Service Offerings

26.4 Capingelec

26.4.1 Business Overview

26.4.2 Service Offerings



- 26.5 DPR Construction
  - 26.5.1 Business Overview
  - 26.5.2 Service Offerings
- 26.6 Deerns
  - 26.6.1 Business Overview
- 26.6.2 Service Offerings
- 26.7 Fluor Corporation
  - 26.7.1 Business Overview
  - 26.7.2 Service Offerings
- 26.8 Future-Tech
  - 26.8.1 Business Overview
  - 26.8.2 Service Offerings
- 26.9 HDR Architecture
  - 26.9.1 Business Overview
  - 26.9.2 Service Offerings
- 26.10 ISG
  - 26.10.1 Business Overview
  - 26.10.2 Service Offerings
- 26.11 Jones Engineering Group
  - 26.11.1 Business Overview
  - 26.11.2 Service Offerings
- 26.12 Kirby Group Engineering
  - 26.12.1 Business Overview
  - 26.12.2 Service Offerings
- 26.13 Linesight
  - 26.13.1 Business Overview
  - 26.13.2 Service Offerings
- 26.14 Mercury Engineering
  - 26.14.1 Business Overview
  - 26.14.2 Service Offerings
- 26.15 MACE Group
  - 26.15.1 Business Overview
  - 26.15.2 Service Offerings
- 26.16 M+W GROUP (EXYTE)
  - 26.16.1 Business Overview
  - 26.16.2 Service Offerings
- 26.17 Metnor Construction
  - 26.17.1 Business Overview
  - 26.17.2 Service Offerings



#### 26.18 RED

26.18.1 Business Overview

26.18.2 Service Offerings

26.19 Structure Tone

26.19.1 Business Overview

26.19.2 Service Offerings

26.20 Winthrop Engineering

26.20.1 Business Overview

26.20.2 Service Offerings

# **27 PROMINENT DATA CENTER INVESTORS**

# 27.1 ACENS Technologies

27.1.1 Business Overview

27.1.2 Service Offerings

27.2 ADAM

27.2.1 Business Overview

27.2.2 Service Offerings

**27.3 ARUBA** 

27.3.1 Business Overview

27.3.2 Service Offerings

27.4 BAHNHOF

27.4.1 Business Overview

27.4.2 Service Offerings

27.5 Cyrusone

27.5.1 Business Overview

27.5.2 Service Offerings

27.5.3 Key News

27.6 Colt Data Centre Services (COLT DCS)

27.6.1 Business Overview

27.6.2 Service Offerings

27.7 Digital Realty

27.7.1 Business Overview

27.7.2 Service Offerings

27.7.3 Key News

27.8 Digiplex

27.8.1 Overview

27.8.2 Service Offerings

27.9 DATA4



- 27.9.1 Business Overview
- 27.9.2 Service Offerings
- 27.10 Equinix
  - 27.10.1 Business Overview
  - 27.10.2 Service Offerings
  - 27.10.3 Key News
- 27.11 Echelon Data Centres
  - 27.11.1 Business Overview
  - 27.11.2 Service Offerings
- 27.12 Ecodatacenter
  - 27.12.1 Business Overview
  - 27.12.2 Service Offerings
- 27.13 Facebook
  - 27.13.1 Business Overview
  - 27.13.2 Service Offerings
- 27.14 Google
  - 27.14.1 Business Overview
  - 27.14.2 Service Offerings
- 27.15 Global Switch
  - 27.15.1 Business Overview
  - 27.15.2 Service Offerings
  - 27.15.3 Key News
- 27.16 GlobalConnect
  - 27.16.1 Business Overview
  - 27.16.2 Service Offerings
- 27.17 Green Mountain
  - 27.17.1 Business Overview
  - 27.17.2 Service Offerings
- 27.18 Iron Mountain (IO)
  - 27.18.1 Business Overview
  - 27.18.2 Service Offerings
- 27.19 Microsoft
  - 27.19.1 Business Overview
  - 27.19.2 Service Offerings
- 27.20 Nexica Econocom Group
  - 27.20.1 Business Overview
  - 27.20.2 Service Offerings
- 27.21 NTT Global Data Centers
  - 27.21.1 Business Overview



27.21.2 Service Offerings

27.22 QTS Realty Trust

27.22.1 Business Overview

27.22.2 Service Offerings

27.22.3 Key News

27.23 Virtus Data Centres

27.23.1 Business Overview

27.23.2 Service Offerings

27.23.3 Key News

27.24 Telecom Italia Sparkle

27.24.1 Business Overview

27.24.2 Service Offerings

27.25 T5 Data Centers

27.25.1 Business Overview

27.25.2 Service Offerings

27.26 Vantage Data Centers

27.26.1 Business Overview

27.26.2 Service Offerings

27.26.3 Key News

# **28 REPORT SUMMARY**

28.1 Key Takeaways

#### 29 QUANTITATIVE SUMMARY

- 29.1 Data Center Market In Western Europe And The Nordics
  - 29.1.1 Overall Market
  - 29.1.2 Overall Market (Including IT Infrastructure)
  - 29.1.3 Infrastructure: Market Size & Forecast
  - 29.1.4 IT Infrastructure: Market Size & Forecast
  - 29.1.5 Electrical Infrastructure: Market Size & Forecast
  - 29.1.6 Mechanical Infrastructure: Market Size & Forecast
  - 29.1.7 Cooling Systems: Market Size & Forecast
  - 29.1.8 Cooling Techniques: Market Size & Forecast
  - 29.1.9 General Construction: Market Size & Forecast
  - 29.1.10 Tier Standards: Market Size & Forecast
- 29.2 Geography
- 29.2.1 Investment by Region



- 29.2.2 Area by Region
- 29.2.3 Power Capacity by Region
- 29.3 Western Europe
  - 29.3.1 Overall Market Size
  - 29.3.2 Market by Infrastructure
- 29.4 UK
  - 29.4.1 Overall Market Size
  - 29.4.2 Market by Infrastructure
- 29.5 Germany
  - 29.5.1 Overall Market Size
  - 29.5.2 Market By Infrastructure
- 29.6 Netherlands
  - 29.6.1 Overall Market Size
  - 29.6.2 Market By Infrastructure
- 29.7 France
  - 29.7.1 Overall Market Size
  - 29.7.2 Market by Infrastructure
- 29.8 Ireland
  - 29.8.1 Overall Market Size
  - 29.8.2 Market By Infrastructure
- 29.9 Switzerland
  - 29.9.1 Overall Market Size
  - 29.9.2 Market By Infrastructure
- 29.10 Belgium
  - 29.10.1 Overall Market Size
  - 29.10.2 Market by Infrastructure
- 29.11 Luxembourg
  - 29.11.1 Overall Market Size
  - 29.11.2 Market By Infrastructure
- 29.13 Italy
  - 29.13.1 Overall Market Size
  - 29.13.2 Market By Infrastructure
- 29.14 Spain
  - 29.14.1 Overall Market Size
  - 29.14.2 Market by Infrastructure
- 29.15 Other Western European Countries
  - 29.15.1 Overall Market Size
  - 29.15.2 Market By Infrastructure
- 29.16 Nordics



- 29.16.1 Overall Market Size
- 29.16.2 Market By Infrastructure
- 29.17 Denmark
  - 29.17.1 Overall Market Size
  - 29.17.2 Market by Infrastructure
- 29.18 Norway
  - 29.18.1 Overall Market Size
  - 29.18.2 Market By Infrastructure
- 29.19 Sweden
  - 29.19.1 Overall Market Size
  - 29.19.2 Market By Infrastructure
- 29.20 Finland & Iceland
  - 29.20.1 Overall Market Size
  - 29.20.2 Market by Infrastructure

# **30 APPENDIX**

30.1 Abbreviations



# **List Of Exhibits**

#### LIST OF EXHIBITS

Exhibit 1 Segmentation of Data Center Market in Western Europe and the Nordics

Exhibit 2 Market Size Calculation Approach 2020

Exhibit 3 Average Electricity Pricing in Western Europe and the Nordics 2020 (per kWh)

Exhibit 4 Impact of 5G To Boost Edge Data Center Investments

Exhibit 5 Impact of Growing Procurement of Renewable Energy

Exhibit 6 Renewable Energy Purchases by Data Center Providers in Europe in 2020

Exhibit 7 Impact of Innovative UPS Battery Technology

Exhibit 8 Impact of Adoption of District Heating by Data Centers

Exhibit 9 Impact of Increased Adoption of 200/400 GBE Switch Ports

Exhibit 10 Impact of COVID-19 Enhancing Data Center Demand

Exhibit 11 Impact of Cloud Adoption Driving the Data Center Market

Exhibit 12 Impact of Increasing Demand for Big Data & IoT Investments

Exhibit 13 Impact of Rise in Colocation Investments

Exhibit 14 Number of Colocation Projects by Western Europe and the Nordics (2020)

Exhibit 15 Impact of M&As Fueling Data Center Growth

Exhibit 16 Impact of Tax Incentives Increasing Data Center Investments

Exhibit 17 Impact of Data Regulation Increasing the Cloud & Colocation Data Center Investments

Exhibit 18 Impact of Increased Power & Network Outages

Exhibit 19 Impact of Security Challenges in Data Center

Exhibit 20 Impact of Lack of Skilled Workforce

Exhibit 21 Impact of Rising Carbon Emissions from Data Centers

Exhibit 22 Impact of Location Constraints for Data Center Construction

Exhibit 23 Data Center Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Exhibit 24 Western Europe and the Nordics: IT Infrastructure & Support Infrastructure 2020;2026 (\$ billion)

Exhibit 25 Data Center Market in Western Europe and the Nordics by Area 2020?2026 (million square feet)

Exhibit 26 Data Center Market in Western Europe and the Nordics by Power Capacity 2020;2026 (MW)

Exhibit 27 Five Forces Analysis 2020

Exhibit 28 Incremental Growth by Infrastructure 2020 & 2026

Exhibit 29 Data Center Market in Western Europe and the Nordics by Infrastructure

Exhibit 30 Data Center IT Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ billion)



Exhibit 31 Data Center Electrical Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Exhibit 32 Data Center Mechanical Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Exhibit 33 Data Center General Construction Market in Western Europe and the Nordics 2020;2026 (\$ billion)

Exhibit 34 Incremental Growth by IT Infrastructure 2020 & 2026

Exhibit 35 Data Center Server Infrastructure Market in Western Europe and the Nordics 2020–2026 (\$ billion)

Exhibit 36 Data Center Storage Infrastructure Market in Western Europe and the Nordics 2020–2026 (\$ billion)

Exhibit 37 Data Center Network Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Exhibit 38 Incremental Growth by Electrical Infrastructure 2020 & 2026

Exhibit 39 Data Center UPS Systems Market in Western Europe and the Nordics 2020?2026 (\$ million)

Exhibit 40 Data Center Generator Market in Western Europe and the Nordics 2020?2026 (\$ million)

Exhibit 41 Data Center Transfer Switches & Switchgears Market in Western Europe and the Nordics 2020?2026 (\$ million)

Exhibit 42 Data Center PDUs Market in Western Europe and the Nordics 2020?2026 (\$ million)

Exhibit 43 Data Center Other Electrical Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ million)

Exhibit 44 Incremental Growth by Mechanical Infrastructure 2020 & 2026

Exhibit 45 Data Center Cooling Systems Market in Western Europe and the Nordics 2020?2026 (\$ million)

Exhibit 46 Data Center Racks Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 47 Data Center Other Mechanical Infrastructure Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 48 Incremental Growth by Cooling Systems 2020 & 2026

Exhibit 49 Data Center CRAC & CRAH Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 50 Data Center Chiller Units Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 51 Data Center Cooling Towers, Condensers & Dry Coolers Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 52 Data Center Economizers & Evaporative Coolers Market in Western Europe



and the Nordics 2020–2026 (\$ million)

Exhibit 53 Data Center Other Cooling Units Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 54 Incremental Growth by Cooling Technique 2020 & 2026

Exhibit 55 Data Center Air-Based Cooling Techniques Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 56 Data Center Liquid-Based Cooling Technique Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 57 Incremental Growth by General Construction 2020 & 2026

Exhibit 58 Data Center Core & Shell Development Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 59 Data Center Installation & Commissioning Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 60 Data Center Building & Engineering Design Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 61 Data Center Physical Security Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 62 Data Center DCIM/BMS Market in Western Europe and the Nordics 2020–2026 (\$ million)

Exhibit 63 Incremental Growth by Tier Standards 2020 & 2026

Exhibit 64 Overview of Tier Standards

Exhibit 65 Number of Uptime Institute Certified Data Centers in Western Europe and the Nordics

Exhibit 66 Tier I & Tier II Data Center Market in Western Europe and the Nordics 2020–2026 (\$ billion)

Exhibit 67 Tier III Data Center Market in Western Europe and the Nordics 2020–2026 (\$ billion)

Exhibit 68 Tier IV Data Center Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Exhibit 69 Incremental Growth by Geography 2020 & 2026

Exhibit 70 Incremental Growth in Western Europe by Investment 2020 & 2026

Exhibit 71 Incremental Growth in Western Europe by Area 2020 & 2026

Exhibit 72 Incremental Growth in Western Europe by Power Capacity 2020 & 2026

Exhibit 73 Data Center Market in Western Europe 2020?2026 (\$ billion)

Exhibit 74 IT Infrastructure vs Support Infrastructure in Western Europe 2020?2026 (\$billion)

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

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



Exhibit 77 Data Center IT Infrastructure Market in Western Europe 2020–2026 (\$ billion)

Exhibit 78 Data Center Support Infrastructure Market in Western Europe 2020?2026 (\$billion)

Exhibit 79 Data Center Market in the UK 2020?2026 (\$ million)

Exhibit 80 Data Center Market in the UK by Area 2020?2026 (million square feet)

Exhibit 81 Data Center Market in the UK by Power Capacity 2020?2026 (MW)

Exhibit 82 Data Center Support Infrastructure Market in the UK 2020?2026 (\$ million)

Exhibit 83 Data Center Market in Germany 2020?2026 (\$ million)

Exhibit 84 Data Center Market in Germany by Area 2020?2026 (million square feet)

Exhibit 85 Data Center Market in Germany by Power Capacity 2020?2026 (MW)

Exhibit 86 Data Center Support Infrastructure Market in Germany 2020?2026 (\$ million)

Exhibit 87 Data Center Market in the Netherlands 2020?2026 (\$ million)

Exhibit 88 Data Center Market in the Netherlands by Area 2020?2026 (million square feet)

Exhibit 89 Data Center Market in the Netherlands by Power Capacity 2020?2026 (MW)

Exhibit 90 Data Center Support Infrastructure Market in the Netherlands 2020?2026 (\$ million)

Exhibit 91 Data Center Market in France 2020?2026 (\$ million)

Exhibit 92 Data Center Market in France by Area 2020?2026 (million square feet)

Exhibit 93 Data Center Market in France by Power Capacity 2020?2026 (MW)

Exhibit 94 Data Center Support Infrastructure Market in France 2020?2026 (\$ million)

Exhibit 95 Data Center Market in Ireland 2020?2026 (\$ million)

Exhibit 96 Data Center Market in Ireland by Area 2020?2026 (million square feet)

Exhibit 97 Data Center Market in Ireland by Power Capacity 2020?2026 (MW)

Exhibit 98 Data Center Support Infrastructure Market in Ireland 2020?2026 (\$ million)

Exhibit 99 Data Center Market in Belgium 2020?2026 (\$ million)

Exhibit 100 Data Center Market in Belgium by Area 2020?2026 (million square feet)

Exhibit 101 Data Center Market in Belgium by Power Capacity 2020?2026 (MW)

Exhibit 102 Data Center Support Infrastructure Market in Belgium 2020?2026 (\$ million)

Exhibit 103 Data Center Market in Switzerland 2020?2026 (\$ million)

Exhibit 104 Data Center Market in Switzerland by Area 2020?2026 (million square feet)

Exhibit 105 Data Center Market in Switzerland by Power Capacity 2020?2026 (MW)

Exhibit 106 Data Center Support Infrastructure Market in Switzerland 2020?2026 (\$ million)

Exhibit 107 Data Center Market in Luxembourg 2020?2026 (\$ million)

Exhibit 108 Data Center Market in Luxembourg by Area 2020?2026 (million square feet)

Exhibit 109 Data Center Market in Luxembourg by Power Capacity 2020?2026 (MW)

Exhibit 110 Data Center Support Infrastructure Market in Luxembourg 2020?2026 (\$ million)



- Exhibit 111 Data Center Market in Italy 2020?2026 (\$ million)
- Exhibit 112 Data Center Market in Italy by Area 2020?2026 (million square feet)
- Exhibit 113 Data Center Market in Italy by Power Capacity 2020?2026 (MW)
- Exhibit 114 Data Center Support Infrastructure Market in Italy 2020?2026 (\$ million)
- Exhibit 115 Data Center Market in Spain 2020?2026 (\$ million)
- Exhibit 116 Data Center Market in Spain by Area 2020?2026 (million square feet)
- Exhibit 117 Data Center Market in Spain by Power Capacity 2020?2026 (MW)
- Exhibit 118 Data Center Support Infrastructure Market in Spain 2020?2026 (\$ million)
- Exhibit 119 Data Center Market in Other Western European Nations 2020?2026 (\$ million)
- Exhibit 120 Data Center Market in Other Western European Countries by Area 2020?2026 (million square feet)
- Exhibit 121 Data Center Market in Other Western European Countries by Power Capacity 2020?2026 (MW)
- Exhibit 122 Data Center Support Infrastructure Market in Other Western European Countries 2020?2026 (\$ million)
- Exhibit 123 Incremental Growth in Nordics by Investment 2020 & 2026
- Exhibit 124 Incremental Growth in Nordics by Area 2020 & 2026
- Exhibit 125 Incremental Growth in Nordics by Power Capacity 2020 & 2026
- Exhibit 126 Data Center Market in the Nordics 2020–2026 (\$ billion)
- Exhibit 127 IT Infrastructure vs. Support Infrastructure in the Nordics 2020–2026 (\$billion)
- Exhibit 128 Data Center Market in the Nordics by Area 2020–2026 (million square feet)
- Exhibit 129 Data Center Market in the Nordics by Power Capacity 2020–2026 (MW)
- Exhibit 130 Data Center IT Infrastructure Market in the Nordics 2020–2026 (\$ billion)
- Exhibit 131 Data Center Support Infrastructure Market in the Nordics 2020?2026 (\$billion)
- Exhibit 132 Data Center Market in Denmark 2020?2026 (\$ million)
- Exhibit 133 Data Center Market in Denmark by Area 2020?2026 (million square feet)
- Exhibit 134 Data Center Market in Denmark by Power Capacity 2020?2026 (MW)
- Exhibit 135 Data Center Support Infrastructure Market in Denmark 2020?2026 (\$ million)
- Exhibit 136 Data Center Market in Norway 2020?2026 (\$ million)
- Exhibit 137 Data Center Market in Norway by Area 2020?2026 (million square feet)
- Exhibit 138 Data Center Market in Norway by Power Capacity 2020?2026 (MW)
- Exhibit 139 Data Center Support Infrastructure Market in Norway 2020?2026 (\$ million)
- Exhibit 140 Data Center Market in Sweden 2020?2026 (\$ million)
- Exhibit 141 Data Center Market in Sweden by Area 2020?2026 (million square feet)
- Exhibit 142 Data Center Market in Sweden by Power Capacity 2020?2026 (MW)



Exhibit 143 Data Center Support Infrastructure Market in Sweden 2020?2026 (\$ million)

Exhibit 144 Data Center Market in Finland & Iceland 2020?2026 (\$ million)

Exhibit 145 Data Center Market in Finland & Iceland by Area 2020?2026 (million square feet)

Exhibit 146 Data Center Market in Finland & Iceland by Power Capacity 2020?2026 (MW)

Exhibit 147 Data Center Support Infrastructure Market in Finland & Iceland 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 List of Submarine Fiber Cable Projects

Table 5 Impact of COVID-19 in the Data Center Market in 2020

Table 6 M&A Activities in 2020

Table 7 Data Center Market in Western Europe and the Nordics 2020?2026

Table 8 Western Europe and the Nordics Data Center IT Infrastructure & Support Infrastructure Market 2020;2026 (\$ billion)

Table 9 Data Center Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Table 10 Data Center IT Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ billion)

Table 11 Data Center Electrical Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ million)

Table 12 Data Center Mechanical Infrastructure Market in Western Europe and the Nordics 2020?2026 (\$ million)

Table 13 Data Center Cooling Systems Market in Western Europe and the Nordics 2020?2026 (\$ million)

Table 14 Data Center Cooling Techniques Market in Western Europe and the Nordics 2020?2026 (\$ million)

Table 15 Data Center General Construction Market in Western Europe and the Nordics 2020?2026 (\$ million)

Table 16 Data Center Market in Western Europe and the Nordics by Tier Standards 2020;2026 (\$ billion)

Table 17 Data Center Market in Western Europe and the Nordics by Investment 2020?2026 (\$ billion)

Table 18 Data Center Market in Western Europe and the Nordics by Area 2020?2026 (million square feet)

Table 19 Data Center Market in Western Europe and the Nordics by Power Capacity 2020?2026 (MW)

Table 20 Data Center Market in Western Europe 2020?2026

Table 21 Data Center Infrastructure Market in Western Europe 2020?2026 (\$ billion)

Table 22 Data Center Market in the UK 2020?2026

Table 23 Data Center Infrastructure Market in the UK 2020?2026 (\$ million)



- Table 24 Data Center Market in Germany 2020?2026
- Table 25 Data Center Infrastructure Market in Germany 2020?2026 (\$ million)
- Table 26 Data Center Market in the Netherlands 2020?2026
- Table 27 Data Center Infrastructure Market in the Netherlands 2020?2026 (\$ million)
- Table 28 Data Center Market in France 2020?2026
- Table 29 Data Center Infrastructure Market in France 2020?2026 (\$ million)
- Table 30 Data Center Market in Ireland 2020?2026
- Table 31 Data Center Infrastructure Market in Ireland 2020?2026 (\$ million)
- Table 32 Data Center Market in Switzerland 2020?2026
- Table 33 Data Center Infrastructure Market in Switzerland 2020?2026 (\$ million)
- Table 34 Data Center Market in Belgium 2020?2026
- Table 35 Data Center Infrastructure Market in Belgium 2020?2026 (\$ million)
- Table 36 Data Center Market in Luxembourg 2020?2026
- Table 37 Data Center Infrastructure Market in Luxembourg 2020?2026 (\$ million)
- Table 38 Data Center Market in Italy 2020?2026
- Table 39 Data Center Infrastructure Market in Italy 2020?2026 (\$ million)
- Table 40 Data Center Market in Spain 2020?2026
- Table 41 Data Center Infrastructure Market in Spain 2020?2026 (\$ million)
- Table 42 Data Center Market in Other Western European Countries 2020?2026
- Table 43 Data Center Infrastructure Market in Other Western European Countries 2020?2026 (\$ million)
- Table 44 Data Center Market in the Nordics 2020?2026
- Table 45 Data Center Infrastructure Market in the Nordics 2020?2026 (\$ billion)
- Table 46 Data Center Market in Denmark 2020?2026
- Table 47 Data Center Infrastructure Market in Denmark 2020?2026 (\$ million)
- Table 48 Data Center Market in Norway 2020?2026
- Table 49 Data Center Infrastructure Market in Norway 2020?2026 (\$ million)
- Table 50 Data Center Market in Sweden 2020?2026
- Table 51 Data Center Infrastructure Market in Sweden 2020?2026 (\$ million)
- Table 52 Data Center Market in Finland & Iceland 2020?2026
- Table 53 Data Center Infrastructure Market in Finland & Iceland 2020?2026 (\$ million)



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