

Hyperscale Data Centers in Finland: Market Shares, Strategies, and Forecasts, 2019 to 2025

Mountains of Opportunity



Picture by Susan Eustis

WinterGreen Research, Inc.

Lexington, Massachusetts

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STUDY #28255999

159 PAGES

69 TABLES AND FIGURES

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2019

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CHECK OUT THESE KEY TOPICS

Hyperscale Data Centers in Finland

Hyperscale Data Centers
Mega Data Centers
Efficient Data Centers
Google PUE of 1.1 in Finland
Finland Data Communication
World class data centers

Business Ecosystems
Networks
Colocation Service
Equipment
Round Trip Delay Table

Cloud Exchange Fabric Data
Transport
Arctic Connect Cableway

**Hyperscale Data Centers in Finland Mobile Smart Phone Network
Connectivity, Tablet Use For Mobile Computing, Internet Apps, Cloud
Computing, Management Systems**

**Hyperscale Data Centers in Finland: Market Shares, Strategies, and Forecasts,
2019 to 2025**

LEXINGTON, Massachusetts (July 19, 2019) – WinterGreen Research announces that it has published a new module **Hyperscale Data Centers in Finland: Market Shares, Strategies, and Forecasts, 2019 to 2025**. The 2019 study has 159 pages and 69 tables and figures. Growth is based on implementation energy efficient data centers. Access to locations across the world through strategically placed cables promise to make Finland the location of choice for a data center.

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Google PUE of 1.1 in Finland is unmatched anywhere else in the world. Climatic environment is an asset in Finland as data centers need cooling. Scale is everything in the era of Clos architecture of the data center and optical transceivers for inside the data center. Data moves at the speed of light around the network inside the data center so scale is important. Outside the mega data center, the charter is to leverage international cable infrastructure. Plans are attracting investment in data communications access in Finland that provides worldwide reach with millisecond data transmission anywhere.

According to Susan Eustis, principal author of the study, “The communication of data accurately is a demanding task. The data centers in Finland are poised to be world-class, supporting interconnectivity to the US, Europe, and Asia.”

The market for Hyperscale Data Centers in Finland sector at \$5 billion in 2018 is expected to be worth \$17 billion by 2025. Growth is based on implementation of streaming mobile smart phone network connectivity, tablet use for mobile computing, Internet apps, cloud computing, IoT, and business process management systems (BPM) that support collaboration. 5G processes API components to support technology innovation and change. Hyperscale data center implementation is a key aspect of those aspects of web process making IT flexible and adaptable. Finland has the land and the renewable energy capability to make data centers efficient. The cold climate is a asset when cooling heat generated by the compute infrastructure.

WinterGreen Research is an independent research organization funded by the sale of market research studies all over the world and by the implementation of ROI models that are used to calculate the total cost of ownership of equipment, services, and software. The company has 35 distributors worldwide, including Global Information Info Shop, Market Research.com, Research and Markets, and electronics.ca. It conducts its business with integrity.

The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise. Customers trust wintergreen research to work alongside them to ensure the success of the participation in a particular market segment.

WinterGreen Research supports various market segment programs; provides trusted technical services to the marketing departments. It carries out accurate market share and forecast analysis services for a range of commercial and government customers globally. These are all vital market research support solutions requiring trust and integrity.

Key Words: Hyperscale Data Centers, Mega Data Centers, Efficient Data Centers, Google PUE of 1.1 in Finland, Finland Data Communication, World class data centers, Business Ecosystems Networks, Colocation Service Equipment, Round Trip Delay Table, Cloud Exchange Fabric Data Transport, Arctic Connect Cableway,

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Companies Profiled

Market Leaders

Google
Equinix
Fujitsu
Microsoft
Telia
Tieto

Selected Market Participants

Cinia
Data Center Finland Oy
Digitice
Ficolo
Microsoft / Nokia
Amazon Web Services

Neoxen Systems
North Shore DC's
The Arctic Connect Cableway
North Shore DC Engineering
Services for International
Operators

Silent Partner Group of
Companies
TeliaSonera

Hyperscale Data Centers in Finland: Market Shares, Strategies, and Forecasts, 2019 to 2025

Report Methodology

This is the 825th report in a series of primary market research reports that provide forecasts in communications, telecommunications, the Internet, computer, software, telephone equipment, health equipment, and energy. Automated process and significant growth potential are a priority in topic selection. The project leaders take direct responsibility for writing and preparing each report.

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They have significant experience preparing industry studies. They are supported by a team, each person with specific research tasks and proprietary automated process database analytics. Forecasts are based on primary research and proprietary data bases.

The primary research is conducted by talking to customers, distributors and companies. The survey data is not enough to make accurate assessment of market size, so WinterGreen Research looks at the value of shipments and the average price to achieve market assessments. Our track record in achieving accuracy is unsurpassed in the industry. We are known for being able to develop accurate market shares and projections. This is our specialty.

The analyst process is concentrated on getting good market numbers. This process involves looking at the markets from several different perspectives, including vendor shipments. The interview process is an essential aspect as well. We do have a lot of granular analysis of the different shipments by vendor in the study and addenda prepared after the study was published if that is appropriate.

Forecasts reflect analysis of the market trends in the segment and related segments. Unit and dollar shipments are analyzed through consideration of dollar volume of each market participant in the segment. Installed base analysis and unit analysis is based on interviews and an information search. Market share analysis includes conversations with key customers of products, industry segment leaders, marketing directors, distributors, leading market participants, opinion leaders, and companies seeking to develop measurable market share.

Over 200 in depth interviews are conducted for each report with a broad range of key participants and industry leaders in the market segment. We establish accurate market forecasts based on economic and market conditions as a base. Use input/output ratios, flow charts, and other economic methods to quantify data. Use in-house analysts who meet stringent quality standards.

Interviewing key industry participants, experts and end-users is a central part of the study. Our research includes access to large proprietary databases. Literature search includes analysis of trade publications, government reports, and corporate literature.

Findings and conclusions of this report are based on information gathered from industry sources, including manufacturers, distributors, partners, opinion leaders, and users. Interview data was combined with information gathered through an extensive review of internet and printed sources such as trade publications, trade associations, company literature, and online databases. The projections contained in this report are checked from top down and bottom up analysis to be sure there is congruence from that perspective.

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The base year for analysis and projection is 2018. With 2018 data and data from several years prior to that as a baseline, market projections are developed for 2019 through 2025.

These projections are based on a combination of a consensus among the opinion leader contacts interviewed combined with understanding of the key market drivers and their impact from a historical and analytical perspective.

The analytical methodologies used to generate the market estimates are based on penetration analyses, similar market analyses, and delta calculations to supplement independent and dependent variable analysis. All analyses are displaying selected descriptions of products and services.

This research includes referencde to an ROI model that is part of a series that provides IT systems financial planners access to information that supports analysis of all the numbers that impact management of a product launch or large and complex data center. The methodology used in the models relates to having a sophisticated analytical technique for understanding the impact of workload on processor consumption and cost.

WinterGreen Research has looked at the metrics and independent research to develop assumptions that reflect the actual anticipated usage and cost of systems. Comparative analyses reflect the input of these values into models.

The variables and assumptions provided in the market research study and the ROI models are based on extensive experience in providing research to large enterprise organizations and data centers. The ROI models are useful for comparing products from different manufacturers, for example servers from different manufacturers, Systems z models from IBM, and labor costs by category around the world.

This information has been developed from WinterGreen research proprietary data bases constructed as a result of preparing market research studies that address the software, energy, healthcare, telecommunications, and hardware businesses.

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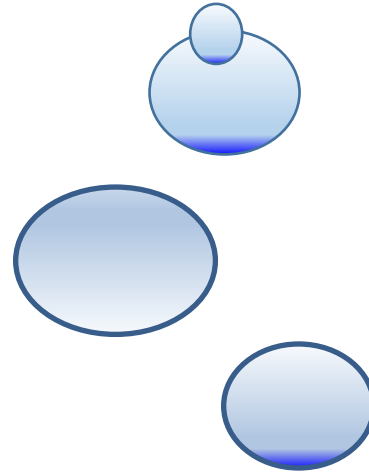
2019

Hyperscale Data Centers in Finland: Market Shares, Strategies, and Forecasts, 2019 to 2025

Executive Summary

The study is designed to give a comprehensive overview of the Hyperscale Data Centers in Finland: market segment analysis. Research represents a selection from the mountains of data available of the most relevant and cogent market materials, with selections made by the most senior analysts. Commentary on every aspect of the market from independent analysts creates an independent perspective in the evaluation of the market. In this manner the study presents a comprehensive overview of what is going on in this market, assisting managers with designing market strategies likely to succeed.

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ABOUT THE COMPANY

WinterGreen Research, research strategy relates to identifying market trends through reading and interviewing opinion leaders. By using analysis of published materials, interview material, private research, detailed research, social network materials, blogs, and electronic analytics, the market size, shares, and trends are identified. Analysis of the published materials and interviews permits WinterGreen Research senior analysts to learn a lot more about markets. Discovering, tracking, and thinking about market trends is a high priority at WinterGreen Research. As with all research, the value proposition for competitive analysis comes from intellectual input.

WinterGreen Research, founded in 1985, provides strategic market assessments in telecommunications, communications equipment, health care, Software, Internet, Energy Generation, Energy Storage, Renewable energy, and advanced computer technology. Industry reports focus on opportunities that expand existing markets or develop major new markets. The reports access new product and service positioning strategies, new and evolving technologies, and technological impact on products, services, and markets. Innovation that drives markets is explored. Market shares are provided. Leading market participants are profiled, and their marketing strategies, acquisitions, and strategic alliances are discussed. The principals of WinterGreen Research have been involved in analysis and forecasting of international business opportunities in telecommunications and advanced computer technology markets for over 30 years.

The studies provide primary analytical insight about the market participants. By publishing material relevant to the positioning of each company, readers can look at the basis for analysis. By providing descriptions of each major participant in the market, the reader is not dependent on analyst assumptions, the information backing the assumptions is provided, permitting readers to examine the basis for the conclusions.

WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises. The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise. Customers trust wintergreen research to work alongside them to ensure the success of the participation in a particular market segment.

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ABOUT THE PRINCIPAL AUTHORS

Susan Eustis, President, co-founder of WinterGreen Research is a senior analyst. She has done research in communications and computer markets and applications. She holds several patents in microcomputing and parallel processing. She has the original patents in electronic voting machines. She has new patent applications in format varying, multiprocessing, and electronic voting. She is the author of recent studies of the Solar Renewable Energy, Wind Energy, Thin Film Batteries, Business Process Management marketing strategies, Internet equipment, biometrics, a study of Internet Equipment, Worldwide Telecommunications Equipment, Top Ten Telecommunications, Digital Loop Carrier, Web Hosting, Web Services, and Application Integration markets. Ms. Eustis is a graduate of Barnard College. Worldwide Who's Who named her Top Female CEO of 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019. She has been twice featured on the cover of the Women of Distinction magazine. She was cited in a recent Time Magazine cover article and major media Washington Post, London Times, New York Times, LA Times, and WSJ articles on Youth Sports market growth. She has been quoted as a reliable industry source in Barron's and by Bloomberg relating to blockchain. She is head of the GBA blockchain group on elections systems.

About the WinterGreen Research Team: The WinterGreen Research Team is comprised of senior analysts that prepare the market research and analysis that is offered to the client and developed using an iterative process to achieve a final study. Typical projects include providing market/viability research. The team can look at how drones can be applied to critical infrastructures safety, including: type of market existing, Barriers, Forecast demand and competitors, SWOT and competitive advantages, Price Analysis, product design recommendations (marketing orientation).

Research is typically for many different regions or localities, for example EU countries including Spain, UK, Nordic, Germany, and France. Typical projects profile the United States and areas of Asia. It is common to three representative countries from South America, Brazil, Argentina, Chile, and Mexico. Representative countries from Asia APAC typically include Japan, China, India, and Australia.

Critical infrastructure safety, including: type of market existing, barriers to entry and to faithful execution of product provision, forecast of demand, market share, SWOT, competitive advantage of major competitors, identification of new technologies and new companies, price performance analysis, product design recommendations, and marketing considerations are typical topics covered.

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