



DCByte[®]

Market Insights: Sweden in a Nordic Perspective

PREPARED FOR

Datcenter Forum Stockholm 2024

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Meet the Team

Who We Are



Leading provider of data centre market intelligence



Premiere Analytics Platform covering over 7,000+ data centre assets worldwide



Headquartered in London
Hub offices in Singapore and Northern Virginia



30+ analysts, consultants and developers globally
18 languages spoken

Key Definitions



Live IT

Operational IT Load



Under Construction IT

IT of data halls undergoing mechanical & electrical fit-out works



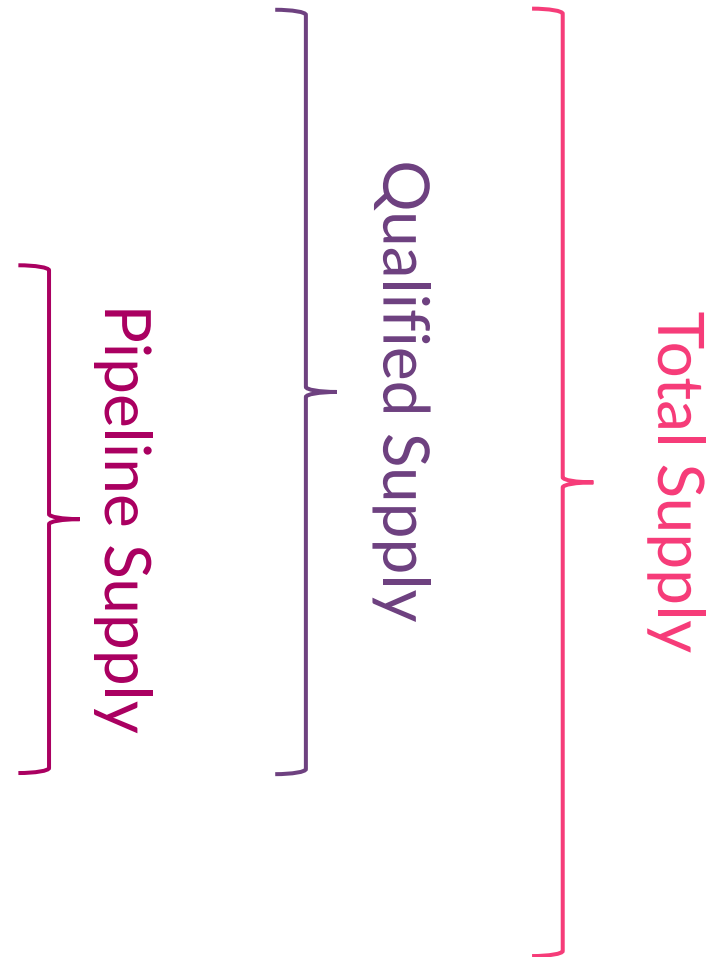
Committed IT

- Powered shells
- Projects with required elements secured but have not started building construction



Early Stage IT

Projects without all required elements secured



Sweden

Nordics site tours



EMEA

Nordics Analysis

Europe

Data Centre Emerging Markets Comparison

Brussels

Financial centre with high enterprise cloud adoption

Europe's largest market by live supply (excl. FLAP-D)

#1 Google's St Ghislain is the largest live facility in EMEA (MW)

Berlin

Political and economic centre poised for strong growth

#2 Second largest European market without a hyperscale self-build

Madrid

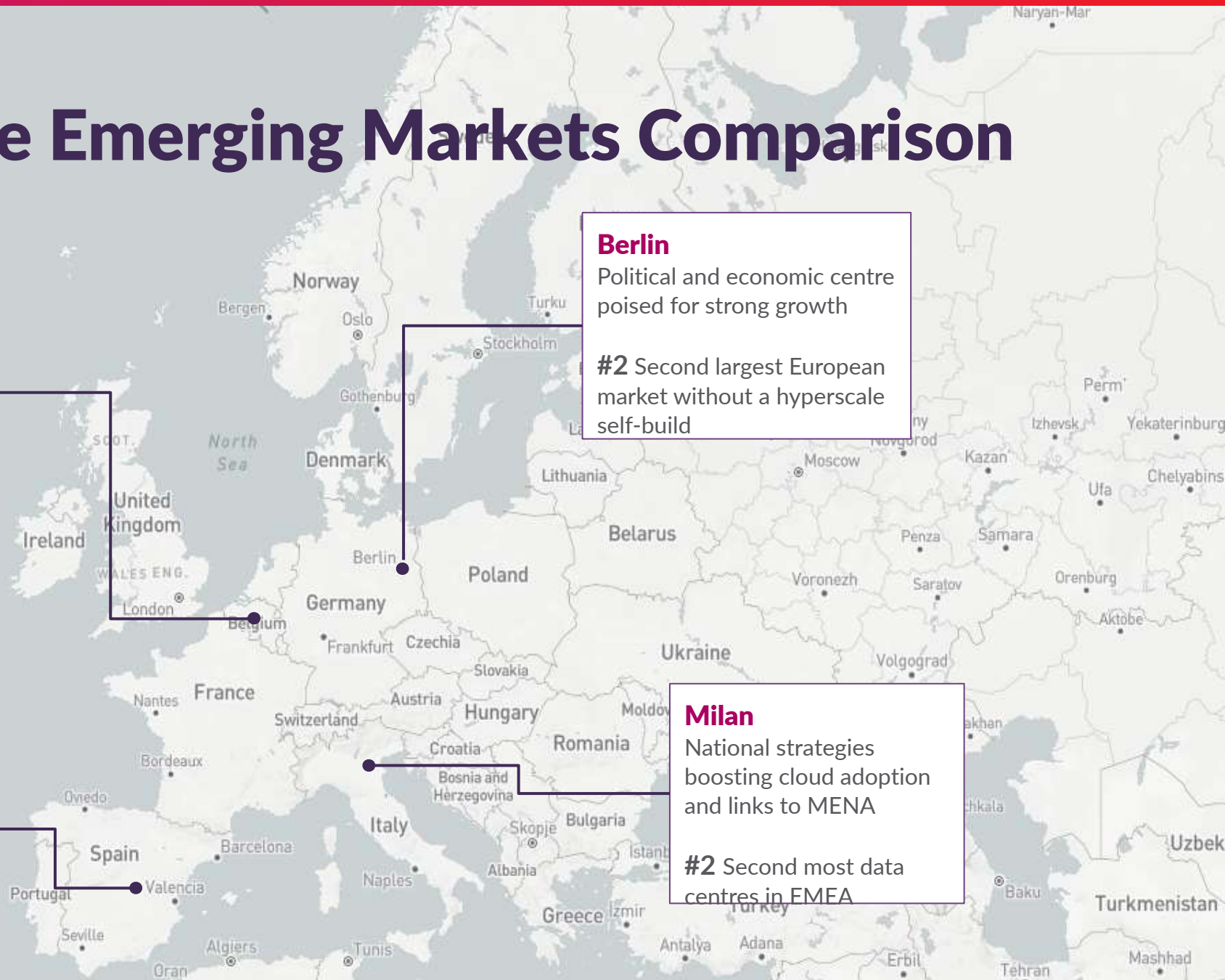
Strong connectivity options attracting colocation demand

#1 EMEA's largest colocation market outside of FLAP-D (by live capacity)

Milan

National strategies boosting cloud adoption and links to MENA

#2 Second most data centres in EMEA

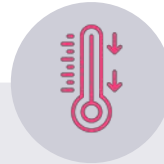


Nordics

Nordics Overview



Plentiful
renewable
energy feeding
secure grids and
low electricity
prices



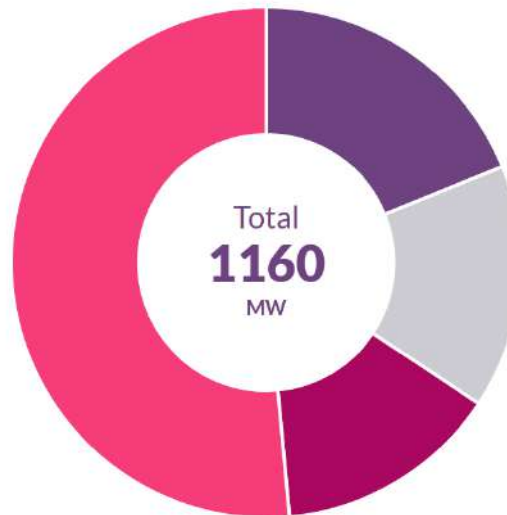
Cold climates
enabling free air
cooling,
especially further
north



Highly skilled
workforce,
digitally literate
populations,
political stability

Nordics

Norway



Local operators dominate Norwegian IT capacity, with a strong understanding of its unique challenges

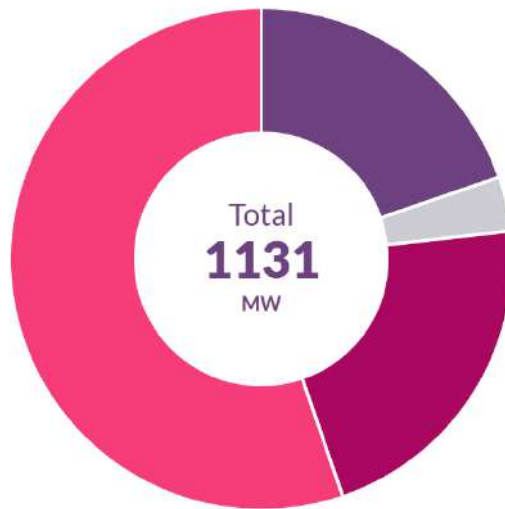
Strong growth potential given its plentiful hydropower capacity

Market data for Q3 2024



Nordics

Denmark



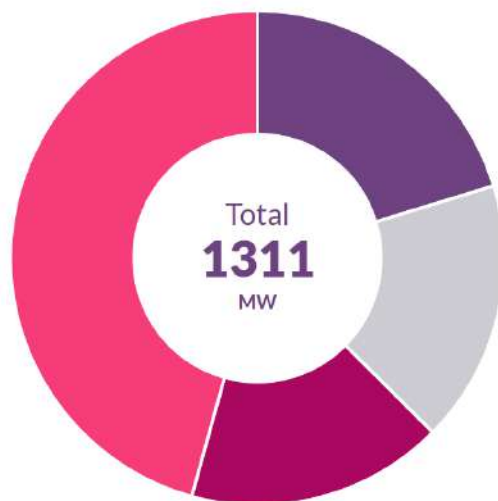
Self-build hyperscale developments have transformed Denmark's data centre landscape since 2017.

Proximity to continental Europe and flat land have enticed global cloud operators

Western Denmark is emerging as a **low-latency hub** with new subsea cable developments

Nordics

Finland



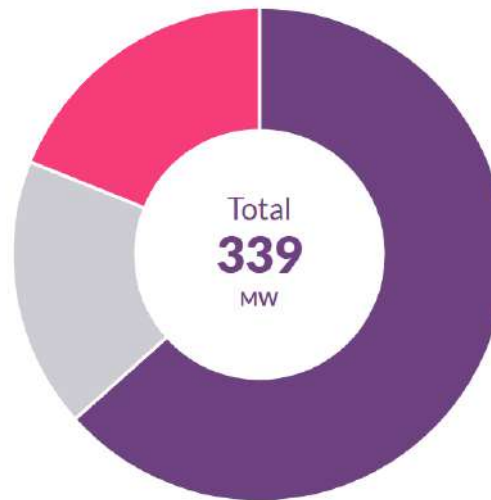
Strong power infrastructure and low electricity taxes make Finland attractive for AI applications

Advanced district heating networks, with Fortum also marketing sites recovering heat to hyperscalers

NATO and EU membership may allay fears from US operators

Nordics

Iceland



Connectivity is being remedied by subsea cable infrastructure, e.g. IRIS

Plentiful renewable energy and cold climate enable high energy efficiency

However, lack of existing power and data centre infrastructure



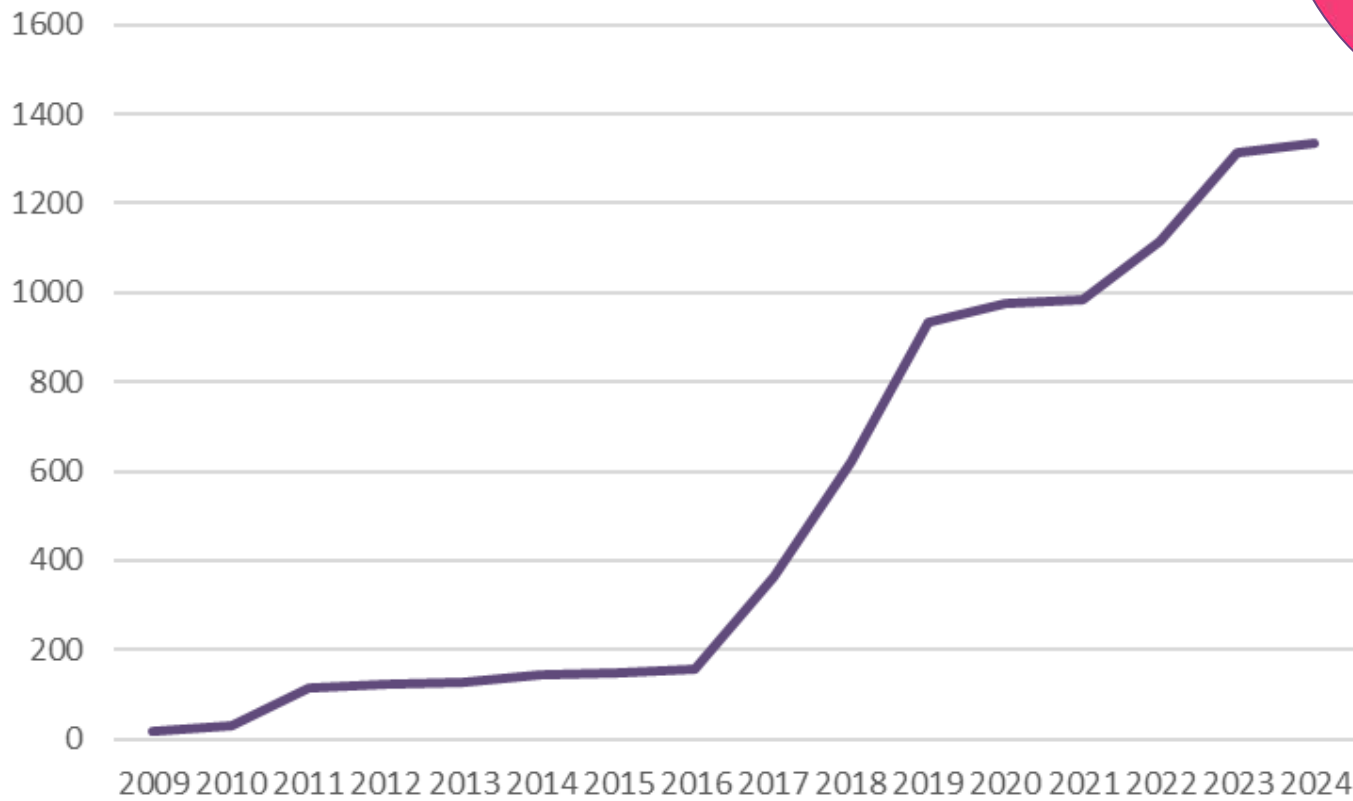
EMEA

Sweden Analysis

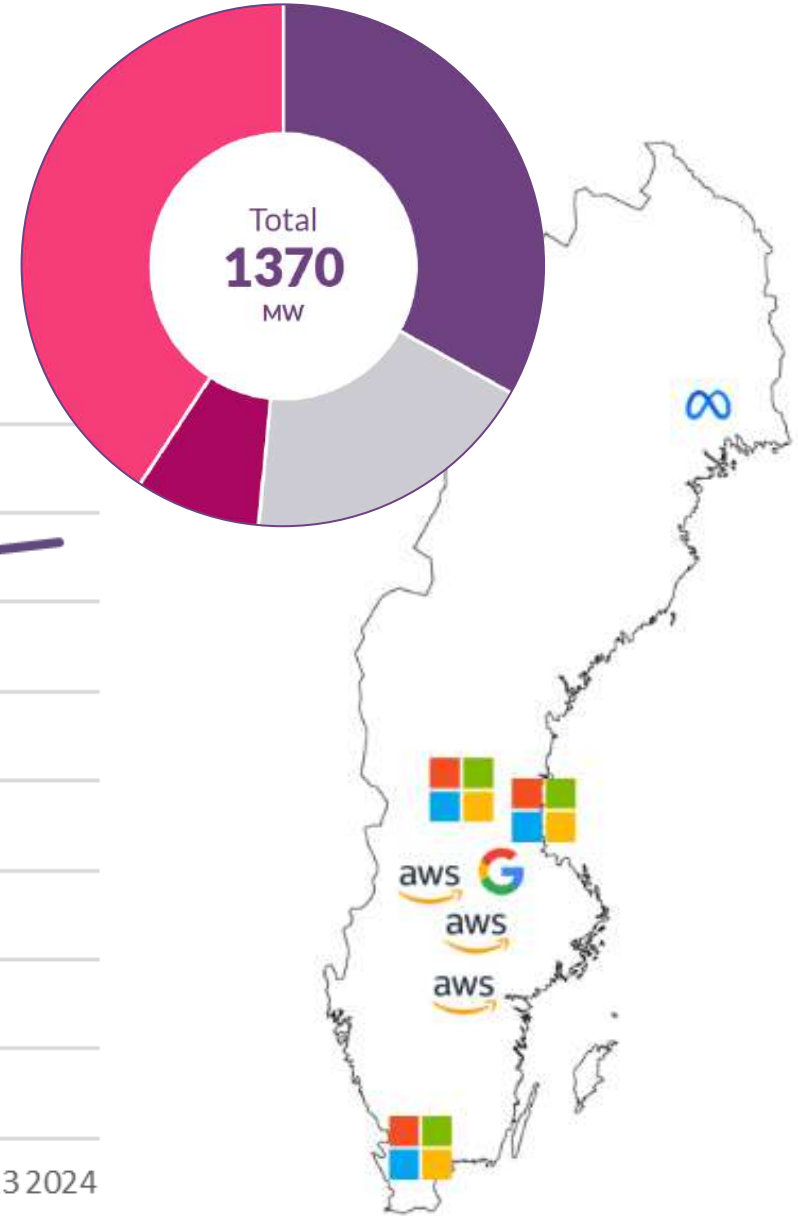
Sweden

Data centre boom

Sweden Total IT Load (MW)



Market data for Q3 2024.

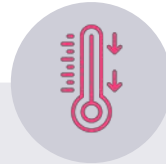


Sweden

Data Centre Boom



Plentiful
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Cold climates
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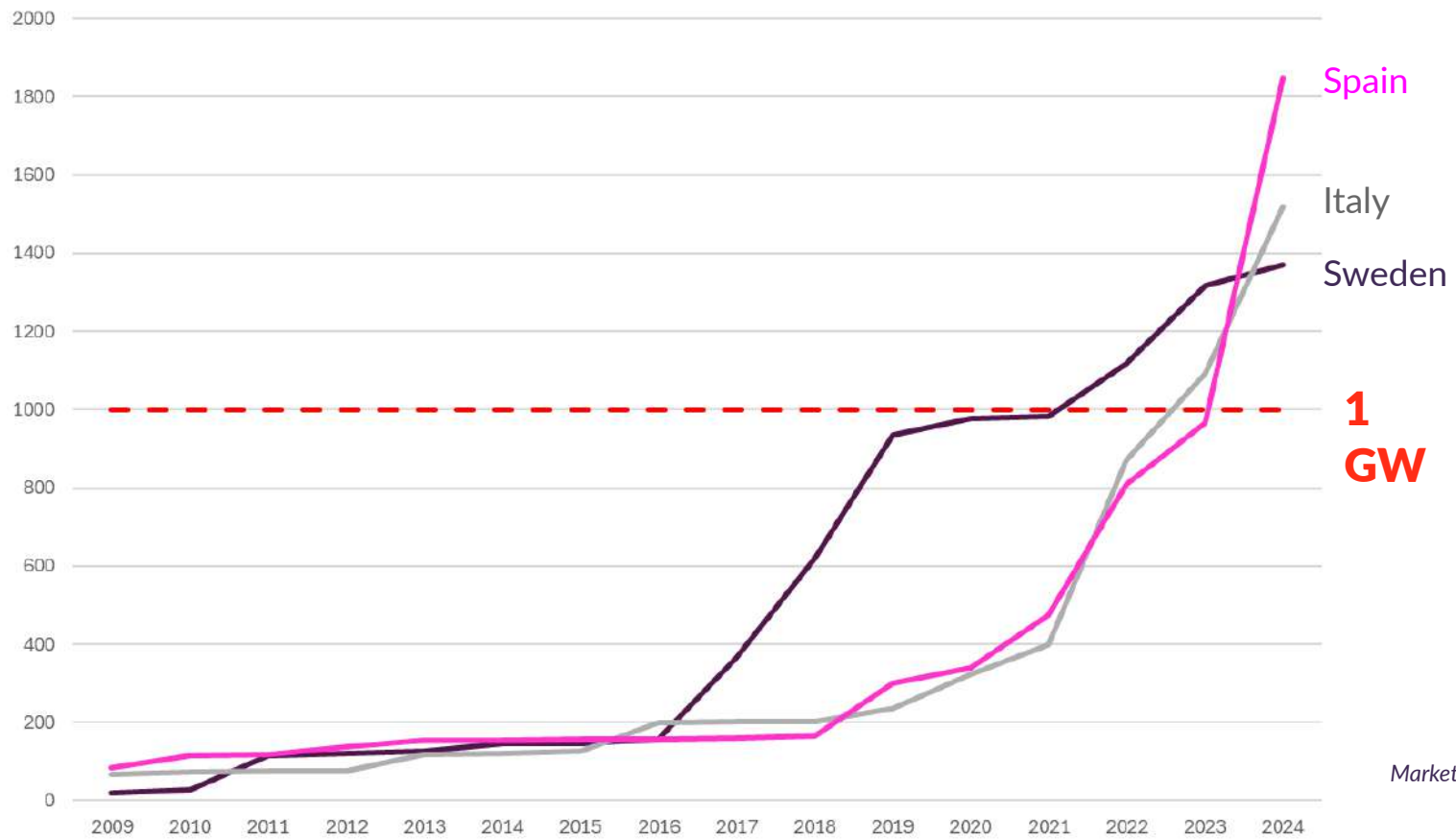


Highly skilled
workforce,
digitally literate
populations,
political stability

Sweden

National markets comparison

Total IT Capacity by Tier 2 national markets (>1GW)



Market data for Q3 2024.

Sweden

Geographical disparity

Dalarna and Gävleborg Counties: home to Microsoft, Google and EcoDataCenter and supportive of sustainable DC development

Malmö and Gothenburg: retail colocation markets primarily servicing local requirements

Northern Sweden: cold climate and cheap power but isolated location creates logistical challenges

Stockholm: excellent connectivity, limited space and still servicing local retail demand

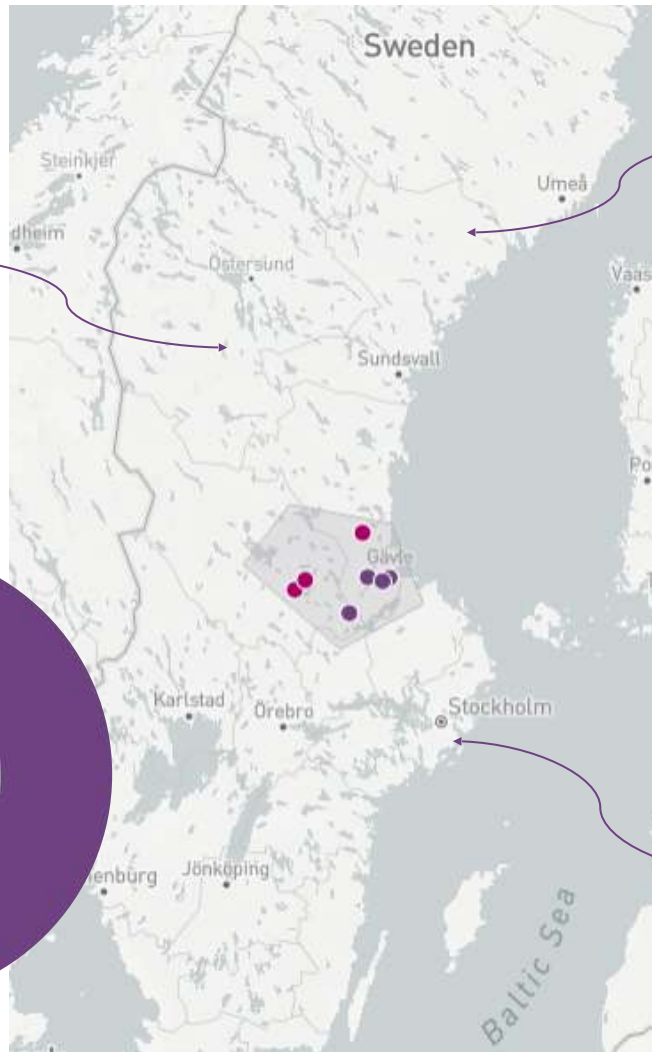


Sweden

Emerging sub-market: Dalarna and Gävleborg

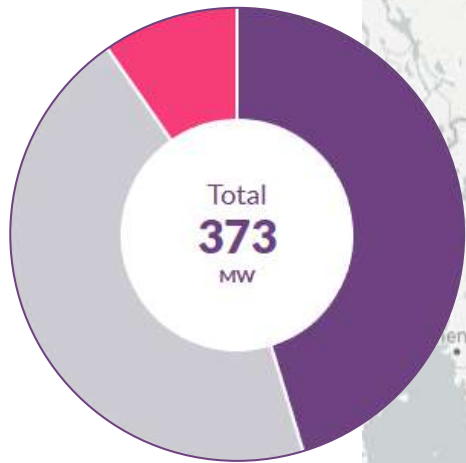
Access to **cheap and carbon-free** energy from the north

Closer than the far north to **international airports** and population centres



EcoDataCenter

Close **proximity to Stockholm** provides low latency connection to mainland Europe



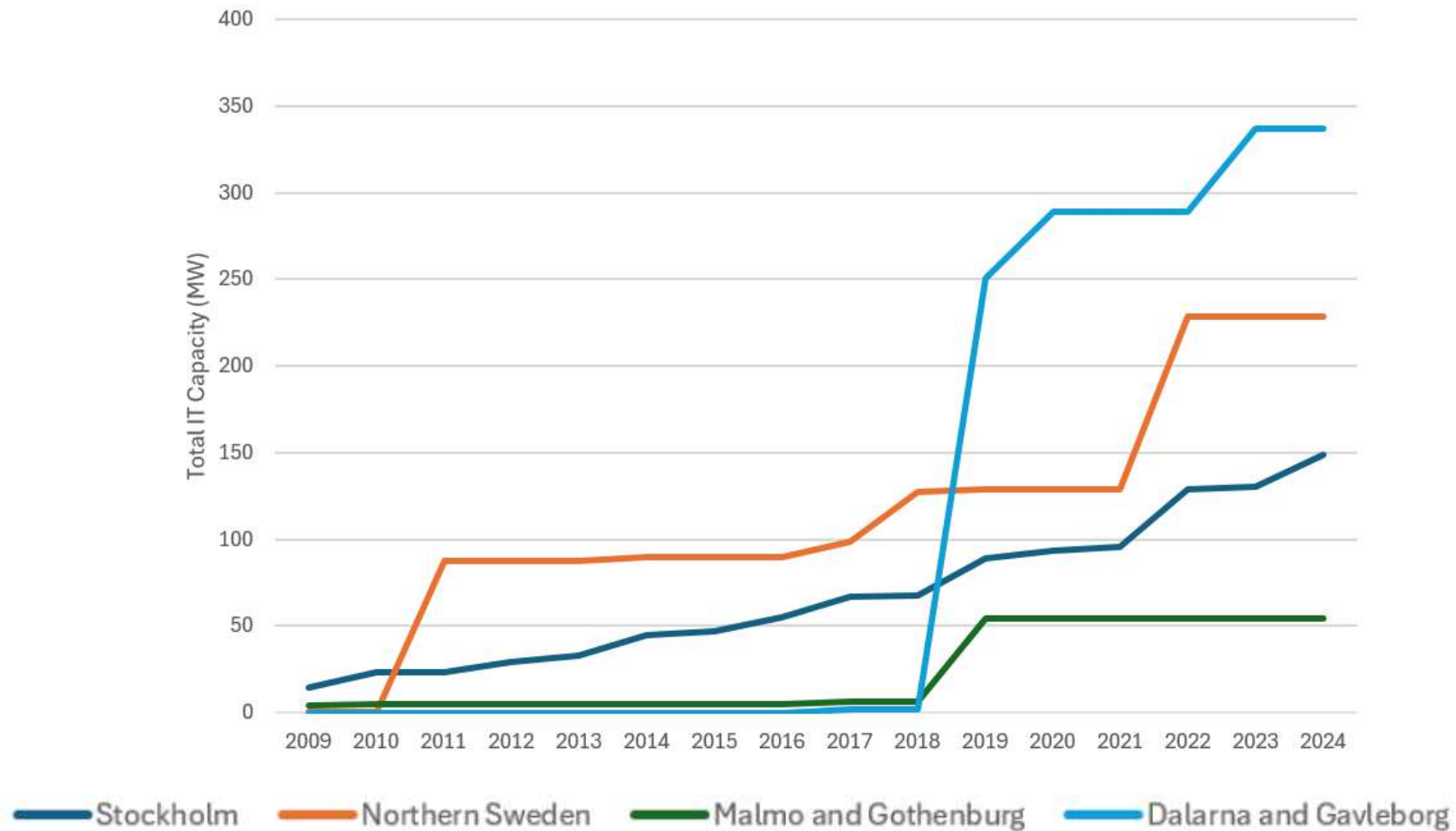
Market data for Q3 2024.



Sweden

Regional comparison

Total IT Capacity by Sweden's sub-markets



Nordics

Summary & Future Thoughts

Sweden is
adapting to cater
to new demand

Nordics possess
unique
characteristics
producing varied
data centre
markets

The Nordics are
well-suited to
hosting AI and
HPC applications

Sweden

Download Sweden Infographic



DATA CENTER FORUM POWERED BY DCByte

DATA CENTRES IN SWEDEN

SWEDEN SUPPLY GROWTH

Sweden is the largest data centre market in the Nordic region, and the only one with over 1 GW in total IT capacity. Total supply has grown at a five-year CAGR of 13.7% from 2018 to 2023.

DIVERSE POWER MIX

Sweden is a world-leader in renewable energies across the board, drawing its power from a healthy mix of hydropower, nuclear, wind and biofuels. This has led to Sweden topping the Global Sustainable Competitiveness Index every year since 2016.

MARKET LEADERBOARD

In terms of qualified IT supply, hyperscale operators dominate the market leaderboard. Growing colocation capacity has come from global operators (STACK) and Swedish operators (EcoDataCenter and Conapto).

Operator	Qualified IT MW
Microsoft	144
Amazon Web Services	96
Meta	87
EcoDataCenter	70
Northern Data	39.2
STACK Infrastructure	31.2
Conapto	25.3

*Qualified IT MW = summation of Live, Under Construction & Committed IT MW

DIGITAL ECOSYSTEM

- Ease of doing business**
2nd in the EU and ahead of all FLAP-D markets (except UK)
*World Bank Group - Doing Business 2020
- Political Stability**
3rd in the EU for political stability, behind only Luxembourg and Malta
*World Population Review 2024
- Digitalised Economy**
Sweden has the highest proportion of ICT specialists and the second highest in enterprise cloud adoption in the EU
*European Commission 2024

CLOUD HYPERSCALER AZS & MARKET CLUSTERS

Sweden is the only Nordic market where all three major cloud hyperscalers (Amazon Web Services, Google, Microsoft) have either already built or plan to build their own facilities.

- Northern Sweden** has cold climate and cheap power but isolated location creates logistical challenges
- Dalarna and Gävleborg** Counties are growing hubs home to Microsoft, Google and EcoDataCenter and supportive of sustainable DC development
- Stockholm** has excellent connectivity and waste heat reuse opportunities, servicing local colocation demand

Data capture as of Oct 2024

DATA CENTER FORUM Fuelling your data centre strategy with trusted intelligence DCByte dcbYTE.com

Thank you



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