

## Data Centre

### Stockholm II, Sweden

Flexible, advanced  
and efficient by design.

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New available data centre capacity



# 8MW

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2.6MW of customer power to be added bringing the total customer capacity to **8MW**.

## An advanced data centre. Built to deliver maximum resilience, flexibility and choice.

At TelecityGroup, the expansion of our most advanced datacentre, Stockholm II, continues to meet growing customer demand. Work is now underway, adding more space, power, capacity and flexibility to its existing highly resilient infrastructure, superb power availability, and choice of networks.

Since opening, many of the world's leading organisations have come to rely on the facility, including financial institutions, cloud operators, content companies, music providers, energy firms, and mobile businesses. Each organisation places their trust in our onsite engineering experts to provide responsive, expert and hands-on support round the clock.

Over the coming year, we are expanding the data centre's capacity to meet growing customer demand:

- 8 megawatts (MW) of customer power.
- 8 zones in an overall size to around 5,000 square metres.
- Flexible deployment options from 3–20 kilowatts (kW) of customer power per rack.

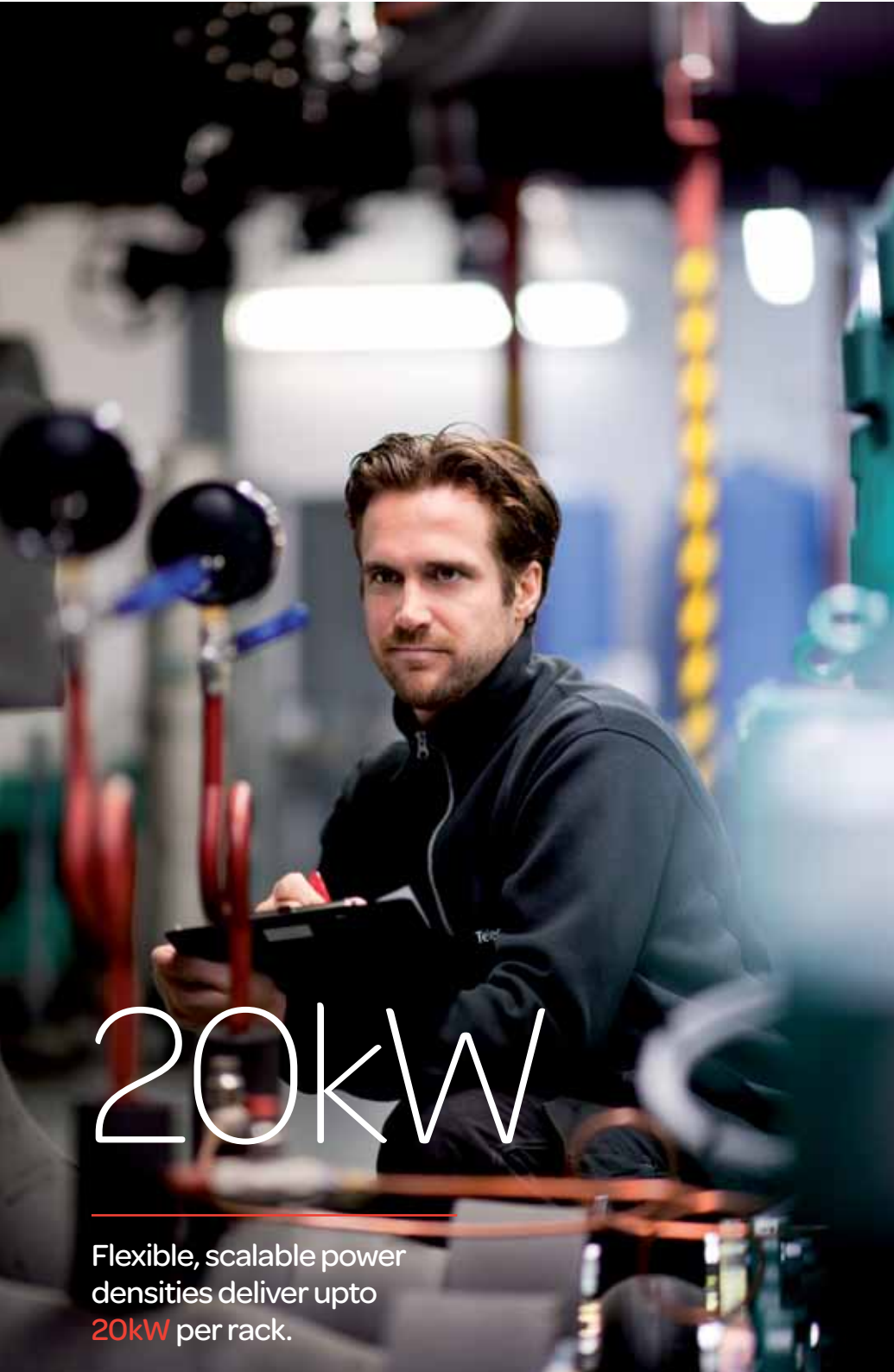
### Leading the data centre industry

The expansion plans for Stockholm II will enhance one of the most advanced and energy-efficient data centres in the Europe. As multiple award winners for data centre design, we are drawing on the knowledge and experience gained from building and operating data centres across Europe that lead the industry for resilience, connectivity, reliability and performance. Additionally, Stockholm II incorporates many new technologies and designs that place the facility at the forefront of environmental efficiency.



TeleticityGroup engineer performing a routine check

Pressure gauge



20kW

Flexible, scalable power densities deliver upto **20kW** per rack.

## A proven data centre. Expertise you can trust.

### Committing to excellence

Our data centres are certified to the following international standards:



#### ISO 27001:2005

Information Security Management.



#### ISO 9001:2008

Quality Management Systems.



#### ISO 14001:2004

Environmental Management Systems.



#### OHSAS 18001:2007

Occupational Health and Safety Management.



#### EU Code of Conduct for data centres – Corporate Status

Benchmarks for data centre efficiency and best practice.

## Stockholm II provides your business with a wide range of benefits.

### Proven track record

Telecity operates 24 datacentres in Europe; two of these are located in Stockholm. Since our first data centre opened in Stockholm we have delivered power and cooling to customers' critical IT equipment and are by far the largest provider of carrier-neutral datacentre services in Stockholm.

### Flexibility to scale to your needs

The data centre's flexible and modular design means its infrastructure can adapt exactly to your organisation's requirements. Using passive cooling, we can deliver up to 20kW of power per rack across the floor plan providing, on average, 1,5 kW per square meter. This enables the data centre to manage even the most demanding infrastructure, such as high-density blade technologies.

### Highest levels of resilience and redundancy

Stockholm II has been designed as a Tier 3 data centre, delivering high levels of resiliency and redundancy to ensure your critical systems are always available.

### Saving energy and reducing costs

The data centre's energy efficient design and use of innovative technologies help you to meet your sustainability targets and reduce the costs to your business. As energy efficiency is built into every aspect of the building, this leads to lower costs for our customers.

### Prime location

Stockholm II is situated approximately 10 minutes from central Stockholm. Because of its location Stockholm II can be used as a disaster recovery site for many Stockholm areas.

### Giving your business room to grow

Providing more datacenter space than anyone else in Stockholm, we can ensure that we can meet the requirement for your growing business, both now and in the future.

Chilled water pipes



## Resilient and redundant. A data centre you can rely on.

Designed and built by experts and based on our unrivalled engineering experience, Stockholm II is a standard-setting data centre that ensures your critical systems are always available.

### Power

Stockholm II provides robust and reliable power with flexible power densities and configuration between 2 and 20kW per rack.

- 8 MW of UPS conditioned power at N+1.
- Dual redundant 10 kV HV power system from separate grids and dual redundant feed.
- Backup diesel generation at N+1 to support site load during HV failure.
- Maximum diversity and separation of UPS system and power distribution through dedicated A & B supplies.

### Cooling

A robust HVAC system delivers stable air flow, temperature and humidity for efficient equipment operation. All major equipment in the HVAC system has a minimum of N+1 redundancy and its own dedicated back-up generators/UPS. Our design and investment in cooling systems will ensure the data centre achieves a PUE of 1.31.

- Minimum N+1 redundancy on chilled water-cooling system.
- Two independent secondary chilled water cooling systems enhance resilience.
- Close Control Units (CCUs) provide conditioned air to the data floor, at a minimum N+1 redundancy.
- Air-cooled chillers maximise the use of free cooling.
- Centrifugal chillers with variable speed compressor drives enable excellent full and part-load operation.

Sophisticated fire suppression system



#### Fire detection and suppression

Linked to our Building Management System (BMS) and monitored continuously from the network operations centre, our fire detection and suppression systems minimise the risk, and extinguish quickly to localise and prevent problems spreading.

- Very early smoke detection and alarm systems (VESDA).
- Fully addressable two-stage fire detection system that monitors the under floor, room and ceiling void space (smoke and heat).
- State-of-the-art water mist fire suppression system.
- Network monitored and fully integrated fire-protection system.

CCTV provides round the clock security for the site



#### Security and access

Stockholm II adopts a layered approach to site security and access, operating from the outer perimeter and inwards to the building. While security is robust, our robust access control procedures allow you and your nominated staff and contractors, easy access to enter the facility at all times throughout the year.

- Integrated digital video camera surveillance throughout Stockholm II exterior and interior.
- Unified security-break alarm with access monitoring.
- Secure monitored single-person entry.
- Independent client card access system.
- Continuous 24/7 manned security all year round.
- Secure managed delivery and loading bays.

Monitoring from the Network operations Centre



#### Building Management Systems (BMS)

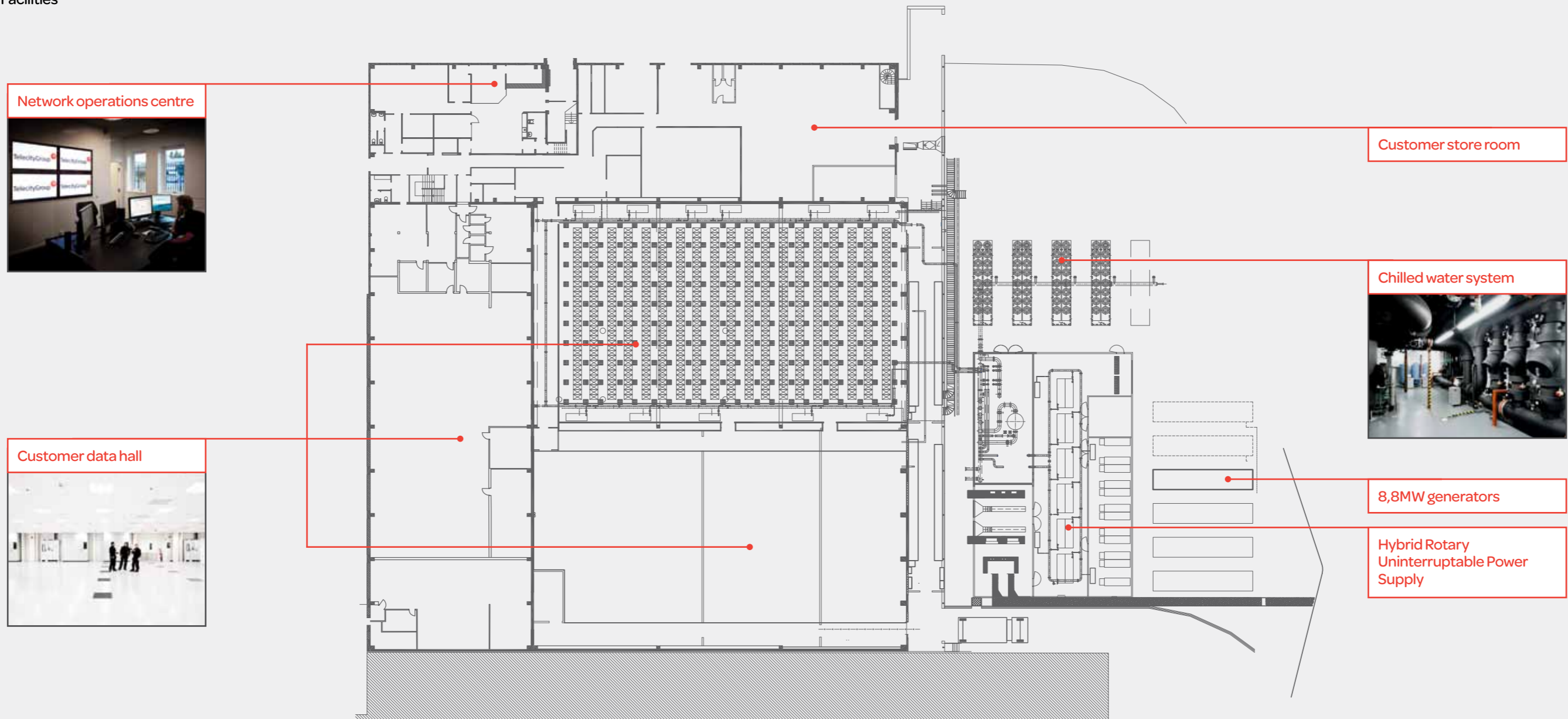
Our sophisticated BMS manage and monitor the core aspects of the data centre's mechanical and electrical infrastructure, from power supply, temperature and humidity to fire detection and suppression, and access and security.

- 24/7 monitoring by onsite personnel.
- Audio and visual alarms.
- Monitoring and managing critical parameters.
- System performance and facility data generation.
- Planned Preventative Maintenance (PPM) programmes.

# Stockholm II data centre. Giving you the flexibility to grow.

Stockholm II delivers the capacity, power, resilience, redundancy and flexibility required to support your business.

## Stockholm II Facilities



## Designed to maximise energy efficiency. Delivered to reduce costs.

Insulated chilled water pipes



At TelecityGroup, we lead the way in our environmental policies and strategies. To reinforce this commitment, we have designed Stockholm II to deliver exceptional energy efficiency that helps reduce environmental impact and business costs.

### Power Usage Effectiveness (PUE)

As Stockholm II is designed to achieve an average PUE of 1.31 at full design load, energy efficiency is at the centre of our transparent approach to charging. We build data centres to achieve maximum efficiency and reflect this reduced energy use through lower power and cooling charges to customers.

### Energy-efficient technologies

Stockholm II features many processes and technologies that increase efficiency and reduce costs.

- Maximising the use of free cooling.
- Energy efficient chillers and UPS technology.
- Extracting waste heat from the data centre to heat office space.
- Chillers with excellent 'turn-down' characteristics to match capacity with load.
- Hot and cold air segregation.
- Motion-activated light controllers that reduce energy consumption and heat load.
- Variable speed drives on the UPS.

### Setting the standards in energy efficiency

We adhere to stringent industry standards and lead the market in environmental initiatives. Our data centres are certified to the following international standards:

- ISO 14001 – an internationally-recognised accreditation for organisations that demonstrate superior environmental management.
- EU Code of Conduct for data centres - Corporate Status. Each of our data centres has been audited and is operated to the Code's best practices for maximising energy efficiency.
- We help influence both developers and end users of data centre technology through our membership of the Green Grid.
- We use energy from renewable sources.

Patching with fibre optic cables



## Unrivalled connectivity. Unparalleled choice.

A wide choice of connectivity options allows your business to connect quickly and cost effectively. It also enables you to link easily with other enterprises, helping your organisation profit from new business opportunities.

Our DWDM network also provides access to Stockholm I with over 150 additional connectivity providers.

Darkfiber providers with diverse fibre entry routes to the site can offer cost effective solutions for local tails and other fibre solutions

### Managed connectivity service with multiple carriers

You can connect directly to our IP Multihome service, which allows you to distribute content through multiple tier 1 carriers and IXPs, without the complexity of maintaining multiple contractual and peering relationships

### Peering

Connectivity to Netnod, the Swedish Internet Exchange is available onsite, bringing you global peering and connectivity options.

### Flexible and resilient connectivity infrastructure

- 'Meet me' rooms offer diverse network connectivity, enabling you to connect quickly and easily with partners and providers through cross connects.
- Diverse fibre entry points into the building.

### Customer facilities

To ensure all our customers feel comfortable when working onsite at Stockholm II, the data centre will feature:

- Well-appointed office facilities.
- Meeting rooms.
- Refreshment areas and breakout spaces with Wi-Fi.
- Build rooms.
- Free parking lot.

# Visit Stockholm II. Take the tour.

Stockholm II is an expanding facility that's primed to give your organisation the space and flexibility it needs to grow.

With Stockholm II's expansion already progressing, now's the time to see how this leading data centre in Stockholm can meet your current and future requirements.

To meet our team and take a guided tour of Stockholm II, contact us on

Tel: +46(0)8 7993800  
or email [se.info@telecity.com](mailto:se.info@telecity.com)



**TelecityGroup**   
where content meets connectivity

**Outstanding data centres.  
Expertise you can trust.**

Europe's leading provider  
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