

LON1

CyrusOne Data Center

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United Kingdom



Introduction

Strategically located in Slough, one of the UK's premier data center locations, CyrusOne LON1 delivers 8.72MW of IT power to 4,309 sqm (46,382 sq ft) of world-class technical space.

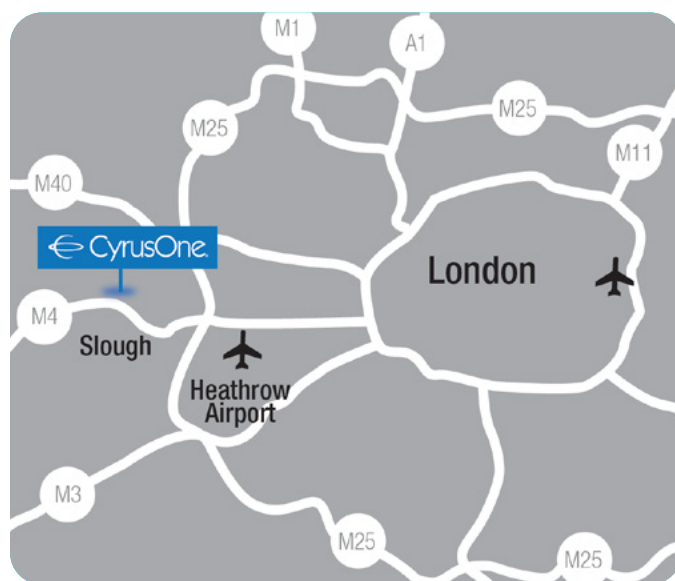
The facility is purpose-built, offering industry leading energy efficiencies, the latest Indirect Adiabatic Cooling technology, uniquely low PUEs, multilayer security and carrier neutrality with diverse routes and Tier III+ level of resilience.





Overview

- Active/Active dual redundant power supplies of 15 MVA
- Fully flexible solutions with IT power of 2,000W/sq m (186W/sq ft) and higher if required
- Highly resilient, concurrently maintainable power and cooling to Tier III+
- Carrier neutrality and diverse fiber connectivity
- 4,309 sq m (46,382 sq ft) of technical space within one building on two floors
- Onsite electric vehicle charging points
- Dedicated UPS plant to each data hall
- Ultra-low PUE through the use of Indirect Adiabatic Air Cooling
- Rainwater recovery
- 1,400 mm return air plenum with 4,400 mm clear height in the data hall
- Secure managed delivery bay with 3-tonne goods lifts
- Floor loading 10kN per sq m
- Multilayer industry leading levels of physical and electronic security
- 24/7 year round onsite support



Technical Specifications

POWER

- Mains power supplied via 100%-rated A&B 33 kV incomers diversely routed Active / Active with a capacity of 15 MVA
- All IT power metered and charged as consumed at dedicated MV and LV meters
- N+N power solutions dedicated to each hall, with separate UPS strings
- Minimum N+N UPS with 10-minute battery back-up as standard
- Fully rated N+1 MV back-up generators with 48-hour fuel autonomy at full load, capable of continuous running
- Refueling contracts to ensure timely replacement

COOLING

- N+1 adiabatic cooling plant, dedicated to each hall
- Cooling infrastructure individually managed and linked to BMS
- Dedicated Pressurisation AHU's at N+N to each hall
- Independently regulated temperature and humidity to each space

CONNECTIVITY

- Carrier neutral access via diverse active A+B Meet Me Rooms to multiple telecommunication providers including Zayo, Cogent Communications, euNetworks, CenturyLink.
- BT, Virgin Media, Colt, KCOM, SSE Telecoms, Vodafone, Verizon and GTT telecommunication providers are also within 100 meters of the facility with potential for quick deployment.
- IBM Cloud on-ramp available onsite
- Megaport point of presence available onsite providing network access to services without a cloud on-ramp
- Strict cable management policy

ENERGY EFFICIENCY

- Scalable UPS capable of ECO or sequence operation, with highly efficient UPS modules
- Scalable Indirect Adiabatic Cooling Units with free cooling capacity
- Variable speed drive adiabatic fans
- ASHRAE T9 hall conditions
- Air cooled plant rooms with variable speed fans
- Indirect Adiabatic Cooling Units supply temperature control, with Hot Aisle Containment
- LED lighting with microwave detection
- Rainwater recovery for reduced water usage
- Energy efficiency based control algorithms for optimum energy usage
- Ultra-low PUE through the use of Indirect Adiabatic Cooling

FIRE DETECTION AND SUPPRESSION

Data halls and critical A&B plant rooms are constructed from one hour fire rated enclosures to create separate fire zones

- Three stage fire detection systems into data halls and UPS plant areas
- VESDA (Very Early Smoke Detection Apparatus)
- Fire detection in all rooms and in voids as required
- Gas suppression to data halls and UPS rooms with dedicated bottles
- Double knock approach gas suppression to all areas, single zone activation
- Fire detection and suppression systems interconnected to central BMS

SECURITY

- 3 metre high secure perimeter fence
- External CCTV and Geoquip trembler wire to fence
- Vehicle lock to site entrance with dual gates and rising bollards
- 24/7 year round on-site security located in secure control room
- Extensive CCTV and access control throughout the facility
- Progressive layers of security to restrict access through the site
- Mantraps with biometric readers into data halls can be provided if required

BUILDING & ENERGY MANAGEMENT SYSTEM (BMS & EMS)

- Power and building monitoring systems to provide alarms
- Power surge management
- Dedicated 24/7 year round facilities management team
- 24/7 year round on-site M&E engineers undertaking Planned Preventative Maintenance (PPM) programmes
- Real-time monitoring of electrical and mechanical systems

STATE OF THE ART ENGINEERING

- Air-cooled UPS modules
- Sequence and variable mode UPS modules, dedicated to each tenant/hall
- Dedicated main plant for each customer
- Integrated A&B MV Infrastructure and MV generators for increased resilience
- Phasing to allow for subtle changes in each hall/tenant specification/requirements
- Remote intelligence control algorithms to remove reliance on central BMS

REGULATORY COMPLIANCE CERTIFICATION

- ISO 9001: Quality Management
- ISO 14001: Environmental Management
- ISO 45001: Occupational Health and Safety
- ISO 27001: Information Security Management
- SOC2: System and Organization Control
- PCI: Payment Card Data Security Standard

Site Plan

