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facility overview

Global Switch House is Europe's largest purpose-built data centre, offering scalable, resilient space solutions. The facility is situated within close proximity to the main fibre route, and is underpinned by a minimum N+1 standard for power and cooling systems, delivering an optimal operating environment to clients 24x7.

technical specifications

building

gross area 65,543m² (705,498ft²)

- structure**
- Steel frame, concrete floors, metal faced cladding and glazing
 - Typical floor loading of 10kN/m²
 - 5m slab to slab height equating to 4.25m clear height to underside of deepest beam
 - Raised floors with anti-static tiles and a minimum height of 600mm installed in fully fitted areas, providing minimum clear height of 3.65m to underside of deepest beam
 - Column spacing primarily based on a 6m grid

- additional info**
- Passenger lifts x 6 (8 people max per lift)
 - Goods lift (7.5 tonnes)

power (mains and emergency)

- Minimum N+1 redundancy on power supply
- Mains power supplied via 2 x 132kV incomers
- Diverse A&B supply, distributed via 11kV ring main units
- 3.1MW of power per floor plate
- Power/cooling systems supported by up to 33 no-break Rotary Diesel UPS sets
- On-site diesel tanks (4 x 119,000 litres) support 50 hours at full capacity with 8 hour, 24x7 fuel delivery callout contract in place

controlled environment

- Minimum N+1 resilience on chilled water cooling system
- Temperature in technical space maintained at 22°C (+/-2°C)
- Humidity range of 50% (+/-10%) in technical areas
- Up to 25 air cooled chillers installed, supplying 1.4MW of cooling per chiller
- Close control units (CCUs) provide conditioned air to technical space
- Diverse chilled water distribution pipe work (ring main type) throughout facility

fire detection and suppression

- Analogue addressable fire detection system in all areas (smoke and heat) with manual break-glass units
- Very early smoke detection and alarm system (VESDA) in the return air-flow of CCUs
- Gas suppression system using centrally stored Inergen to technical and selected landlord areas
- Sprinklers in corridors and selected plant rooms, with water ingress protection and monitoring provided where required
- Dry risers to all floors
- Smoke and gas extraction

telecommunications

- Access to multiple telecommunications providers located in dedicated Meet Me Rooms (MMRs), via diverse dedicated connections
- Diverse cable entry points (x4) with combination of 110mm ducts and 32mm sub ducts
- Basket trays in three-sided format to all data risers – fully access controlled
- Multiple connection points to each suite
- Roof space availability for satellite & antennae equipment within Global Switch London campus

building management

- Dedicated 24x7 facilities management team
- BMS system monitors M&E operation within facility to:
 - ensure stability of the environment
 - monitor key electrical and mechanical systems
 - enable interface between key systems
 - provide data gathering
 - interlink life safety systems in the event of fire alarm activation

security

- Premises Controllers manage facility security 24x7
- Access control using proximity card readers
- Intruder alarms to all areas with external infra-red barrier
- Multiple CCTV cameras (interior and exterior)
- Secure managed delivery and loading area

ancillary services

- Private office space can be fitted out to customer specification
- Bookable conference rooms available in landlord area

**For further information please contact our London sales team:
+44 (0)20 7473 9002 or londonsales@globalswitch.com**