

Fujitsu's London North Data Centre Secure, Resilient, Efficient and Green

The Fujitsu London North Data Centre (LNDC) has been designed and built to provide a highly resilient, highly secure environment that maximizes availability.

London North Data Centre

The LNDC has full N+1 redundancy on Power Distribution Units (PDUs), generators, and air conditioning units. This means there is no single point of failure thus enabling Fujitsu to offer a high availability hosting service. The data centre also incorporates extensive energy saving and green technology.

Power cost is significantly lower at the LNDC than at other current UK data centres. This is due to the PUE (Power Usage Effectiveness) being proven at 1.4 and Fujitsu having procured power, as for all our data centres, at very favourable rates.

Power Supply and Density

There is 2,917kW of power available for computer equipment and this is currently being upgraded to 3,800kW. The design load for equipment within the data halls can be zoned from 750W per m² to 1500W per m² as required. All the halls are capable of housing high density 'cubes' and non-standard computer equipment, so if there was a requirement for a high density solution, this could be implemented with no impact to the integrity of the data centre. At the appropriate time Fujitsu's data centre planners would work with clients to determine the best way to organise the technical halls.

LNDC Awards and Recognition



Since opening in June 2008, Fujitsu's London North Data Centre received widespread recognition for its achievements in service reliability, availability and energy efficiency. Through our innovative solutions and best practice standards, Fujitsu have been short listed and successful across a number of specialist awards, including:

- **2008 – Tier III facility certification** awarded by The Uptime Institute (first in Europe)
- **2011 – Gold Operational Sustainability certification** awarded by The Uptime Institute (first in Europe)
- **Most Sustainable Refurbishment** - Winner - The Sustainable Building Services Award 08
- **Innovation in the Mega Data Centre** - Winner - Data Centre Awards 2008
- **Green in the Data Centre** - Finalist - Data Centre Awards 2008
- **BP Environment Award** - Finalist - BCS IT Industry Awards 2008
- **Future Thinking & Design Concept** - Winner - Data Centre Leaders Awards 2009
- **Green Policy Solution** category for Data Centre Energy Efficiency Programme - Winner - Fujitsu Group Environmental Contribution Awards 2010

Why Choose The London North Data Centre

Classification	Certified Tier Gold III (Design, Build & Operational Sustainability certified by The Uptime Institute). The first such DC In Europe
Power (Mains and Emergency)	<p>7.5 MVA Site Load</p> <ul style="list-style-type: none"> ■ 2 x 11kV feeds ■ Each providing 7.5MVA <p>DRUPS</p> <ul style="list-style-type: none"> ■ 6 Hitec Diesel Rotary Un-interruptible Power Supplies (DRUPS) ■ Each providing 1.67MVA ■ N+2 Configuration ■ DRUPS provides all site power ■ On site fuel and water storage ■ 72hours supply at full load
Controlled Environment	<ul style="list-style-type: none"> ■ Power for all cooling systems DRUP supplied ■ 3 x 2,560kW water cooled centrifugal chillers <ul style="list-style-type: none"> ■ Variable speed drive ■ N+1 Configuration ■ Heat Rejection ■ 3 x 2,350 open circuit cooling towers ■ 3 plate heat exchangers ■ Partial free cooling
Fire Systems	<ul style="list-style-type: none"> ■ Kentec Smoke detection throughout site ■ Inert gas fire suppression system to Technical Halls (2hour fire rated construction) and electrical rooms ■ Fog, Mist and sprinkler system for mechanical plant rooms, data centre bridge and office ■ Aspirated Very Early Smoke Detection Alarm (VESDA) installed in Technical Halls and corridor floors
Building Management	<ul style="list-style-type: none"> ■ Dedicated 24x7 site operation team ■ Intelligent BMS (Trend) monitors all critical systems
Networks	<ul style="list-style-type: none"> ■ 2 communication rooms, providing diverse entry points to site ■ Fibre backbone in all halls
Security	<ul style="list-style-type: none"> ■ Stringent data centre access controls and procedures in place <ul style="list-style-type: none"> ■ Turnstile control on reception ■ Biometric access to all Technical Halls ■ Restricted levels of access ■ Vehicle and pedestrian entry points controlled and secured ■ 300 internal/external CCTV cameras ■ On Site Security guards with a dedicated 24x7 security team ■ Secure loading and delivery areas <ul style="list-style-type: none"> ■ Pre-arranged loading and deliveries ■ Electronic operated gates ■ Anti-Ram protection for exterior doors ■ Site / Perimeter electric fence

Contact

IaaS Trusted Public S5 Team
FUJITSU
E-mail: GlobalCloud@uk.fujitsu.com
Website: uk.fujitsu.com

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