Open Access
Data Centres BRACKENFELL

A new data centre proposition for ***Cape Town***

Open Access Data Centres' Brackenfell facility (OADC Brackenfell CPT2) is a world-class, carrier-neutral facility, delivering 5MW site load across more than 1,100m² of white space.

Profile and Location

OADC Brackenfell is a high-specification data centre, situated on a prime site, 10km from Cape Town city centre and 15km from Cape Town International Airport. There are excellent communication, transport, and airport links. Additionally, the facility provides on-site parking, private meeting rooms, work areas, and other amenities.

Transforming digital Africa

Site Features

- **Total area:** 2,000m²
- **Total technical space:** 1,500m² (over 1 floor) at maximum capacity
- **Building:** Brick-built data centre and operations building
- **Height:** 3m clear between raised floor and underside of the steel ceiling
- **Floor:** Raised floor designed at >12kN/m² UDL with floor void of 540mm
- **Access to building:** 24/7/365
- **Connectivity:** Multiple carrier Points of Presence with diverse routes

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OADC CPT2 Features

Power

- **Power feed:** up to 5MW site load, 11kV power supply with dedicated transformer and power distribution rooms
- **Power on site:** 400/230v three phase and 48v DC
- **Generators:** 100% backup of complete site using 2N, data centre continuous rated, diesel generators
  - minimum 72-hour fuel storage capacity with polishing and refuelling during use 24/7/365
  - fuel delivery callout contract in place 24/7/365
- **UPS:** modular 'hot swappable' static 2N configuration - 10-minutes autonomy
- **Grounding system:** full TNCS earth network + ground strike and building lightning protection and surge protection systems
- **Lighting:** 500Lux at working plane LED in data centre aisles
- **SLA:** guaranteed 100%

Environment

- **DC cooling capacity:** 3-7kW per rack
- **Temperature/humidity range:** ASHRAE TC9.9 Table A1
- **Cooling redundancy:** N+1 configuration

Fire protection

- **Fire detection:** latest technology, analogue addressable system with smoke detection in every room on site
- **HSSD and VESDA systems**
  - pro-active fire monitoring systems linked to gas suppression in critical areas + data halls as an early warning system
  - multi-zone monitoring in all areas
  - minimum 1-hour fire separation within facility
- **Fire suppression system:** NOVEC 1230 gas-suppression system in data halls

For more information, please contact:

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Control

- **BMS:** Independent BMS/EMS web-based system monitoring and managing all aspects of data centre infrastructure (power, a/c, fire protection, security) and customer equipment alarm
- **Customer support:** NOC manned 24/7/365
  - service desk operations and management are underpinned by our call logging system and customer extranet, which tracks customer installations, works orders and technical support provided on-site

Security

- **Multi-stage physical security and access control**
- **Physical security:** perimeter wall and fence
- **Vehicular security:** manned, secure and monitored building perimeter entrance
- **Human:** 24/7/365-manned security station
- **CCTV:** exterior, interior and data hall-specific CCTV, minimum 30 days of time-lapse digital image recording
  - biometric palm scanner at the entrance
  - photo ID access card and intruder alarm
- **Access control:** 7-level access control system with highest level to access the technical areas
  - card access proximity readers to all doors
  - monitored perimeter doors
  - anti-passback
  - customer equipment alarm
  - enhanced security options to dedicated suites
  - electronic visitor sign-in system

Connectivity

- **Carrier-neutral:** adjacent to major fibre routes and available through a range of onsite providers

Services

- Colocation (racks, cages, suites, cold aisle, power)
- Warm hands
- Connectivity
- Cross-connects
- Consultancy/bespoke design
- Insights
- Industry-leading suite of client information systems