

# Chayora Shanghai Data Centre

## Data Sheet



### Shanghai Data Centre – Site Overview

- Chayora’s Shanghai Campus is located c.80km from the Shanghai Pudong CBD
- Campus area of c.50mu / 8.5acres / 3.33 hectares
- Fully permitted, ESA power and fibre secured, ready to construct multi-phased options: construction underway
- A modular concept design based on the Chayora Standard Design developed in Tianjin is fully customisable for Built to Suit customers and larger colocation or wholesale requirements
- 120MVA / 60MVA of dual feed gross power sufficient to support 48MW+ IT load on a 2N supply
- Dual routed, independent connection power supply through separate dedicated sub-stations
- Full renewable energy options available
- Physical access control security, full infrastructure management and site operations
- Directly owned (100%) land and assets by Chayora

### Shanghai Data Centre – Design Features

- Phased development and opportunities for scalable growth to match customers’ business expansion
- ESA-assured power secured to meet customers’ immediate and future needs
- Access to Shanghai CBD via ultra-high speed connections
- Carrier neutral with a wide range of telecom services will be available from tier-one carriers as well as other tier two carriers (including China Telecom, China Mobile, China Unicom, CITIC)
- Flexibility to interconnect and cross connect within the campus
- Fully Chayora-licensed (IDC, ISP and IRCS) operations and managed to international standards in engineering, facilities, security, construction and overall performance
- Highly competitive power tariff and Total Cost of Ownership (TCO) with assured PUE
- Complete BPO (Data Centre as a Service) possible to exacting standards
- Dedicated international supply chain

### Shanghai 1 – Design Principles

Standards	Like our existing Tianjin campus, Shanghai will be Uptime Tier III & OCP READY™ accredited
Design Principles (in each of the 3 buildings)	Each floor designed to a high level of availability and flexibility. Able to seamlessly scale up from an IT load of 2 MW up to 4MW and to accommodate a minimum of 672 x 19” racks, at power density from 4kW up to 15kW/rack without special modifications. Level 1: Office & Mechanical Plant; Level 2-6: Data Centre; Level 2-6: Flexi Space / Office along perimeter; Roof: Cooling Towers
Power Density	4kW – 15kW / rack (higher densities can be accommodated)
Rack Count (Per Floor)	A minimum of 672 nos. 19” racks @ 6kW/racks (wholesale)
Floor Loading	15kN/sqm
UPS Redundancy	DR (N+1) configurable to 2N with up to 15 mins battery back-up
Generator Redundancy	N+1 with 12 Hrs diesel fuel backup (all genset based on continuous operation)
Chiller & Mechanical Cooling Redundancy	N+1 with 15 mins cooling storage backup
Power Topology for Chiller & Mechanical	2N with A & B source from UPS backed utility power, Gensets as a backup power
Environmental Envelope	Temperature: 23 – 27 deg C; Humidity: 30% – 70%
Annualized PUE	Less than 1.25 (annualised average)
Monitoring	Power / temperature monitoring @ individual rack basis
Security	Minimum 8 layers of security checks using access cards, iris scanner and video analytics
Fire Protection	Pre-action sprinkler, gas suppression and VESDA