TGT
Towngas Telecom

TGT HKDC2

Towngas Telecom (TGT)

Founded in 2004, Towngas Telecom (TGT) is a wholly owned subsidiary of The Hong Kong and China Gas Company Limited (Towngas). Adopting the company's pragmatic approach to quality services, TGT is a carrier neutral telecommunication service provider with a number of world-class data centres and network infrastructures operating in Hong Kong and Mainland. Riding on the advantage of the colossal gas pipe network and synergizing it with the advanced Glass-In-Gas (GIG) European technology, TGT has also been able to provide fibre links and dedicated bandwidth services to reputable corporations, international network service providers and professional clients.

TGT currently operates two large scale data centres in Hong Kong and four in Mainland, they are located in Jinan, Dongguan, Dalian and Harbin.

Overview of TGT HKDC2

Welcome to the world-class TGT Hong Kong Data Centre 2 (TGT HKDC2), a carrier neutral data centre situated at Tseung Kwan O Industrial Estate in Hong Kong. It is a 5-floor stand-alone building with a gross area of 22,000 sq. metres. The facility is designed with an unparalleled infrastructure offering a high-availability environment with business continuity, ensuring your mission-critical operations are always secure without compromise.

TGT HKDC2 offers specialized, professional facility management services and robust network infrastructure along with a cloud computing platform specifically designed to meet the increasing demand for cloud based applications and software development.

Through the cloud computing and services platform, TGT HKDC2 is collaborating with The Hong Kong Polytechnic University and Sun Yat-sen University, also known as Zhongshan University, in supporting developers and researchers for applications and software development. The research and development centre in TGT HKDC2 aims to support their innovation and technology support programme of energy, environment and safety cloud applications.

THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

中山大學
SUN YAT-SEN UNIVERSITY

Novec 1230

Cooling Tower Water Tank

Emergency Generator

Specifications

Building and Rack

- Concrete structure with terracotta faced tile and glazing
- 5.2 metres (G/F), 4.15 metres slab to slab height
- Raised floor height available up to 450mm (1/F and 2/F); 590mm (G/F)

Power

- Utility power supply capacity of 18MW
- Technical (IT) power backup by onsite UPS and generator
- 12MW technical (IT) power
- Mechanical systems backup by generator
- Onsite diesel tanks to support 8 hours at full capacity with 24x7x365 fuel delivery

Cooling

- Chilled water cooling system
- Water cooled chiller (duty) with air cooled chiller (standby)
- Dual chilled water supply within individual floor, distribution rings
- Minimum N+1 resilience on all systems
- 14MW of total cooling provision
- Minimum N+1 of CRAC units within customer area
- Temperature and humidity with best industry accepted standards and maintained by energy efficient parameters

Fire Detection and Suppression

- Analogue addressable fire detection system in all areas
- VESDA early warning system
- Clean agent suppression system (NOVEC 1230) in technical areas

Connectivity

- Carrier neutral
- Access to multiple telecommunications providers
- Two dedicated Meet Me Room (MMR) on each floor
- Two diverse building entry points
- Diverse cable routes and pathways
- Roof space availability for satellite and antennae equipment

Service Support

- 24x7 Network Operations Centre (NOC)
- 24x7 property management team
- Monitoring of environmental conditions
- All engineering systems are monitored at 24x7

Security

- 24x7 Security Operations Centre
- Premise is monitored by CCTV surveillance with digital recording and archiving
- Perimeter Intrusion Detection System
- Mifare card readers for access control
- 24x7 secure and managed delivery and loading area

Data Centre Area

- Dedicated purpose built data halls
- 18MVA power capacity
- Power density (data hall IT load) 1.2kW/m²
- Approximately 3,000 racks of server space

Telecom Facilities

- 2 Meet Me Room (MMR) each floor
- Dual risers with network diversity
- Carrier neutral

Amenities

- 2 passenger and 1 cargo lifts
- Loading / unloading bay
- Carpark
- Business Continuity Services (BCS)
- Onsite office space
- Meeting rooms
- Dry pantry and rest lounge
- Shower room

Certificate / Compliance

- ISO/IEC 27001:2013, ISO/IEC 20000-1:2011, ISO 14001:2004
- CSA STAR Certification for Cloud Computing
- LEED GOLD Certification
- HKSAR Level II Security

LEED GOLD 2014

bsi. ISO 14001 Environmental Management | ISO 27001 Information Security Management | ISO/IEC 20000-1 Information Technology Service Management | CSA STAR Cloud Security

TGT Towngas Telecom

Prime Location

TGT HKDC1
17/F, Well Tech Centre,
9 Pat Tat Street, San Po Kong,
Hong Kong

TGT HKDC2
No.22, Chun Cheong Street,
Tseung Kwan O Industrial Estate,
Hong Kong

Major Data Centres in Hong Kong

Travel Times

20-minute Drive
Tsim Sha Tsui
Hung Hom Train Station
Hong Kong China Ferry Terminal

30-minute Drive
- Central District

40-minute Drive
- Hong Kong International Airport

50-minute Drive
- Lo Wu Station, Shenzhen, China

2 hours via High-speed Railway
- Guangzhou, China

Oil-Free Chiller

Cooling Tower

Solar Panels

Environmental Commitment

Terracotta Façade

- Good insulation and save cooling
- Self-cleaning
- Recycle and reuse
- Durable with long lasting quality

Oil-Free Chiller

- High efficiency and energy saving with low starting power
- Quiet in operation
- Elimination of oil problem
- Compact and save space

Novec1230

- Ozone friendly
- Low global warming potential
- Electrically non-conductive
- Non-corrosive for energized equipment

Green Initiatives

- Skylight is provided for office area on 3/F and 4/F
- Solar panels provide renewable energy
- Green rooftop and green wall
- Landfill gas chiller

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