Digital Hyperspace

Data Center Technical Specifications

DHI Data Center
Digital Hyperspace DC

About DHI Data Center

DHI Data Center is an investment from the GTC Fund and its co-investors to develop a greenfield Tier III + hyperscale data center in Jakarta, Indonesia with initial scale of 20MW IT load. Indonesia, in particular its capital city Jakarta, presents a very strong growth opportunity for the IDC market given its large population and booming internet activities with many cloud and OTT players indicating ample DC needs there.

The DC is proposed to locate in a well-established industrial zone in eastern Jakarta, Greenland International Industrial Center (GIIC), with land area of ~68,000 sqm which is sufficient to expand into ~80MW IDC campus ultimately and provides the flexibility to develop in phases to meet with customer needs. DC Ignite initially covers the investment and development plan for the first phase of 20MW only.
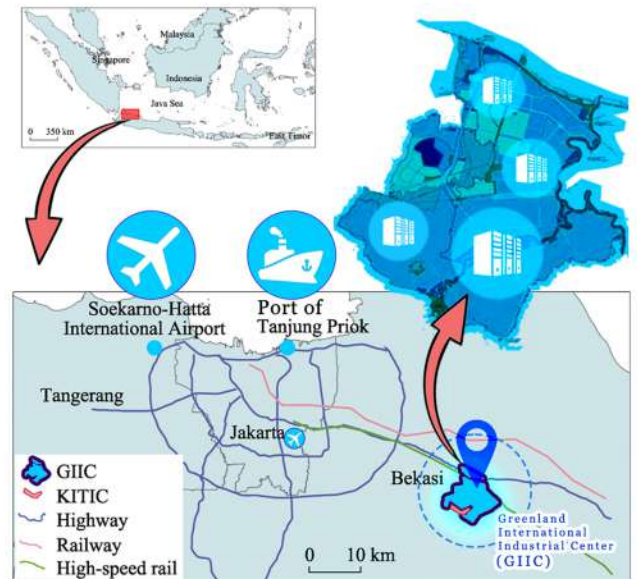
Phase I will involve the construction of basic infra-structure of the campus and one data hall block, with the first ~10MW data hall expected to be ready for service by 2024 Q4

Indonesia Data Center Benefits

● DC Building IT load of up to 20 MW and is certified with Uptime Tier III+/TCDD/TCCF Standard . Here are some of the features

● A four-storey purpose built data centre building with high GFA efficiency, yielding potentially over 2500 racks for 8 data halls

● 20 MW of IT capacity

● N+1 Water-Cooled Chillers with independent MCC power support

● Dual Water Supply; Dual incoming power feed with diverse path into the DC building

● Chilled water piping in ring circuit and main distribution piping installed outside the typical data space

● Three incoming fiber telco connection with diverse path into the campus; Two MDF rooms and two MMRs on every floor in DC building

● DCIM Monitoring

● Full coverage of security system including CCTV, Access Control, Road Blockers crash rated barriers Perimeter Intrusion Detection Systems

● N+1 backup generator Configuration

● 5 minutes thermal storage tank to keep the continuous cooling

DHI DC Location

ADJACENCIES

Digital Hyperspace DC Data Center

Building

SPACE	
Total GFA	Over 120.000 sqm
Site Location	GIIC Deltamas (GIIC Compus), Site EE/1 The 6.8 Hectare plot is in Zone EE lot 1
Colocation Space	68,000 sqm
Site Access	Direct access to the Cikampek toll road, wide primary arterial road
Building Type	4 blocks of 4-storey A four-storey purpose built data centre building with high GFA efficiency, yielding potentially over 2500 racks for 8 data halls

Facilities

Power and Cooling	
Utility Power Supply	2N
IT Load Capacity	80MW – IT Load
Day 1 IT Capacity	10 MW
Total Power Capacity	126MW or 146 MVA
Infrastructure	Tier 3+
Availability	Q4 2024
UPS (IT)	N+1 (N=3) distributed redundancy
UPS (Mechanical and BS)	N+1 (N=5) independent power support
Water cooled Chiller with thermal storage tank	N+1 (N=5)

Security	
Physical	Guard House, Fence
Human	BMS 24/7 Remote and Local Monitoring
Electronic	Full coverage of security system including CCTV, Access Control, Road Blockers Perimeter Intrusion Detection Systems

Products & Services

Data Center

* Each data center Building or Data Block will have its own Genset gantry structure

* IT Load capacity of 20 MW for each Data Block, two Data Halls for each floor with 2.5MW IT Load capacity designed for each data hall

* 150 kV self-owned substation for the campus
* Provide MMR, MDF, Loading dock, storage.

* Staging room available on each floor

* IT LV gensets will be placed on the gantry at the northern side of each DC block. MVSB, LVSB, UPS w/batteries and PDU will be placed on both sides of the DC halls.

* Roof Top – Mechanical plant (Primary Air Handling Unit to catering air to pressurize the DH, chiller water plant, AC/BS diesel genset, transformers and AC UPS (with batteries) will be placed on the roof.

Amenities

* Campus Building
* Admin building
* Parking Area
* Access Road to each data Block
* Fuel Tank for 48 Hours
* Fan Wall Unit & Hot Aisle Containment

Reliability

GIIC will provide 3 different network lines for Fibre containment pipeline network.

For Fibre/ Backbone, either GIIC's own FO network operator or any of available ISPs can be selected. (Telkom, My Republic and Moratelindo as GIIC provided)

Digital Hyperspace DC Data Center