

## Global Cloud Data Center (IT3) - DC-C

CUSTOMIZED DATA CENTER SOLUTIONS JUST OUTSIDE MILAN

### General

- Total surface area: 13,910 m<sup>2</sup>
- Data hall surface area: 5,950 m<sup>2</sup>
- Number of independent data rooms: 8
- Number of floors rooms distributed over: 2
- ✓ Secure location in terms of earthquakes
- ✓ Secure location in terms of hydro-geological risks

### Structure

- Height of the data hall: 3.5 m
- Height of upper chamber: 1.95 m
- Height of lower chamber: 1.95 m
- Capacity of the floating floor: 2.000kg/m<sup>2</sup> (distributed load) - 1.000 kg/m<sup>2</sup> (concentrated load in one place)
- External firewalls: REI 240
- Internal firewalls: REI 120
- ✓ Double insulation
- ✓ Double loading bay

### Certification and compliance

- ✓ ANSI/TIA 942-B-2017 Rating 4 (formerly Tier 4)\*
- ✓ GO - Guarantee of Energy Origin (100% renewable)
- ✓ ISO 9001 - Quality of services offered
- ✓ ISO 14001 - Environmental management system
- ✓ ISO 27001 - IT security
- ✓ ISO 50001 - Energy management system

\*Certification process underway

### Services

- Colocation solutions: rack portions; dedicated racks; cage; dedicated rooms
- Power per rack: up to 40kW
- IT power individual room: 1 MW (powered by 2 redundant modules)
- ✓ 24h Smart hands
- ✓ 24h Remote hands&eyes
- ✓ Shared warehouses, or dedicated to individual clients
- ✓ Shared offices, or dedicated to individual clients

### Connectivity

- Point of entrance: 4
- Entrance Room: 2
- Main Distribution Area (MDA): 2
- ✓ Carrier neutral data center
- ✓ Provision of managed connectivity

### Energy

- Connection points to utilities: 1
- Total power: 8 MW IT 2N (redundant)
- UPS redundancy: 2N+1
- UPS type: double conversion static
- Individual UPS power: 500kVA
- UPS run time: 15 minutes at full power on single module in emergency conditions - 40 minutes in standard conditions
- Generator redundancy: 2N
- Generator type: diesel generator units
- Full load run time: 26h in emergency conditions, 52h in standard conditions

### Cooling

- Cooling type: Chilled water - - water to water - water to air system
- Normal mode: Geothermal system
- Redundancy of heat exchangers: 2N
- Groundwater extraction wells: 5
- Emergency mode: air/water chiller
- CRAH redundancy: 2N

### Security

- ✓ CCTV
- ✓ 24/7/365 security
- ✓ Separate parking for employees/visitors
- ✓ Vehicle bollards
- ✓ Separate entrance gates for visitors/goods
- ✓ Mantrap for visitors and goods with anti-tailgating and anti-piggybacking systems
- ✓ Network Operations Center (NOC)
- ✓ Security Operations Center (SOC)
- ✓ Facility Operations Center (FOC)
- ✓ Building Management System (BMS)

### Fire prevention

- Air replacement: 2vol/h
- Extinguishing system: inert gas
- Extinguishing gas: IG-541
- Redundancy of extinguishing cylinders: 2N
- ✓ Highly sensitive smoke detection system
- ✓ Liquid loss detection system
- ✓ Fire detection and extinguishing system in each single module
- ✓ Standalone system on every generator unit



