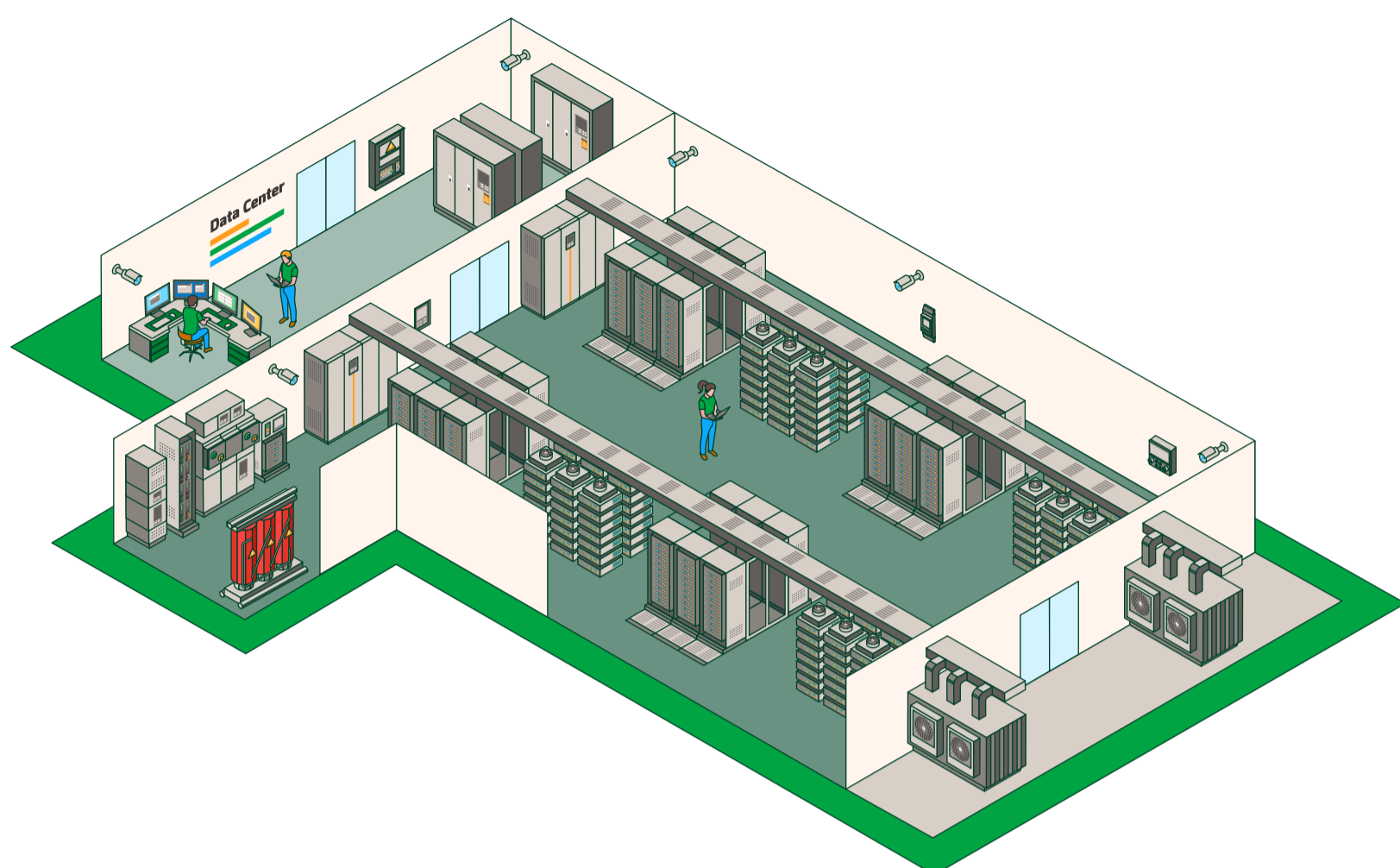# Data center

A Data Center (or Data Processing Center, DPC) is a facility specifically designed and equipped to house data servers and communications systems under appropriate security conditions to operate with no interruption of service.



## Components of a Data Center:

### Server rooms
They have standard servers and storage units. Racks are usually located in an enclosed space to allow for optimal cooling.
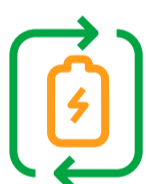
### Security
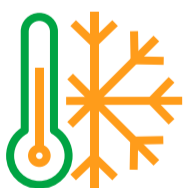Physical infrastructure (gates, video surveillance) to protect assets.

### Fire extinguishing
Special extinguishing gases to reduce the oxygen content in the air.

### Back-up generator
UPS and diesel for power supply and compensate for voltage fluctuations and distortions.

### Cooling systems
Air or water cooling, air-conditioning to the outside via heat exchangers in the ceiling.

### Control/monitoring stations
Network Operations Center (NOC).

### Meet-Me Rooms (MMR)
To enable connectivity in an easy and convenient way, by distributing it to the server room.

**Data centers work 24 x 7 x 365 ensuring supply availability. Electrical power is so key that the data centers' size is measured in MW according to its energy needs.**