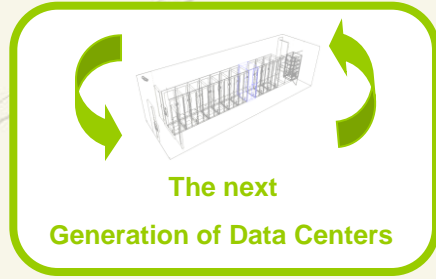


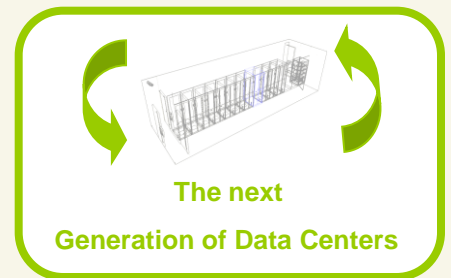
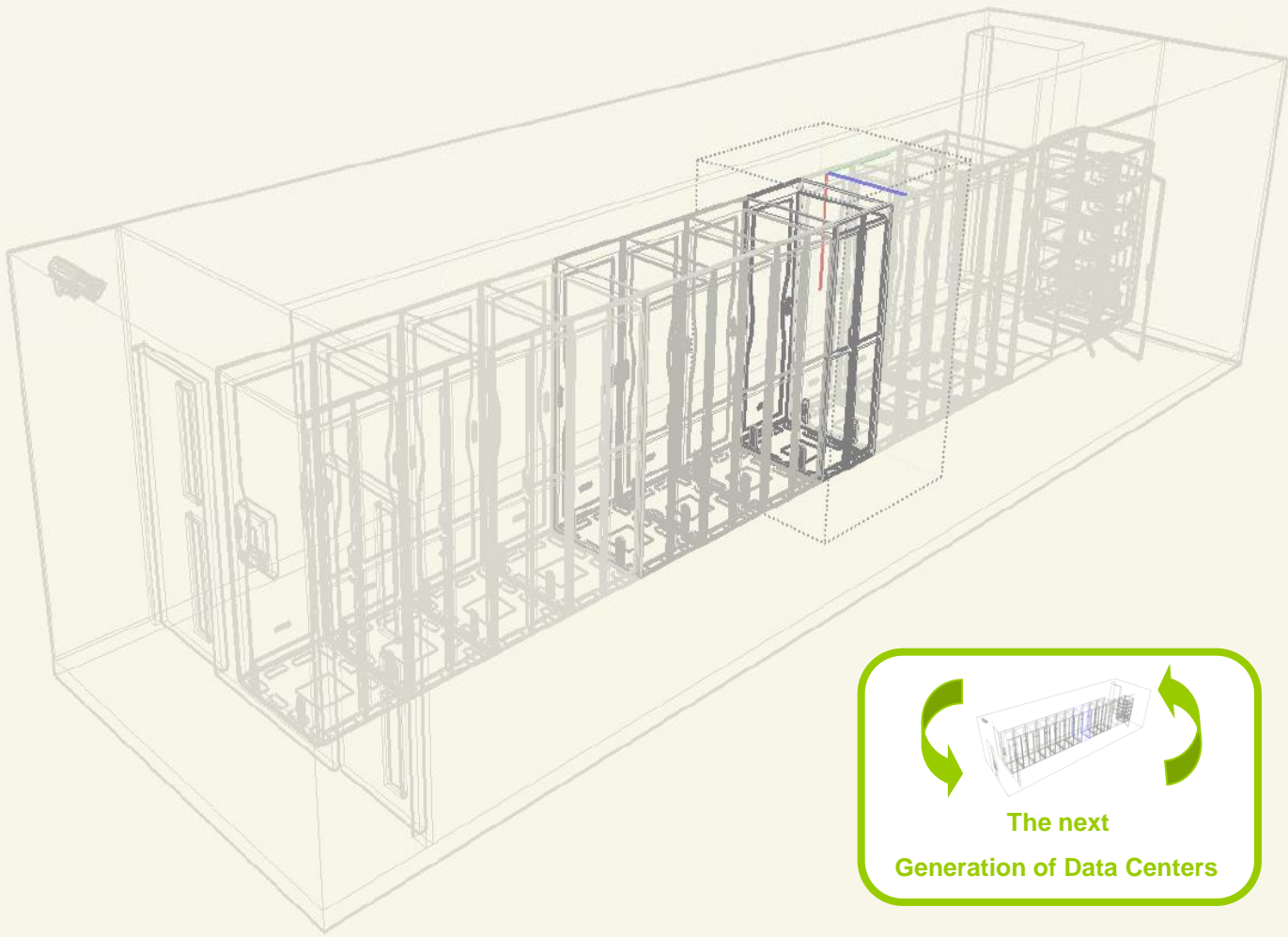
DataCenters*



The next
Generation of Data Centers

Wiegand

Wiegand
Batterie- + Elektrotechnik GmbH

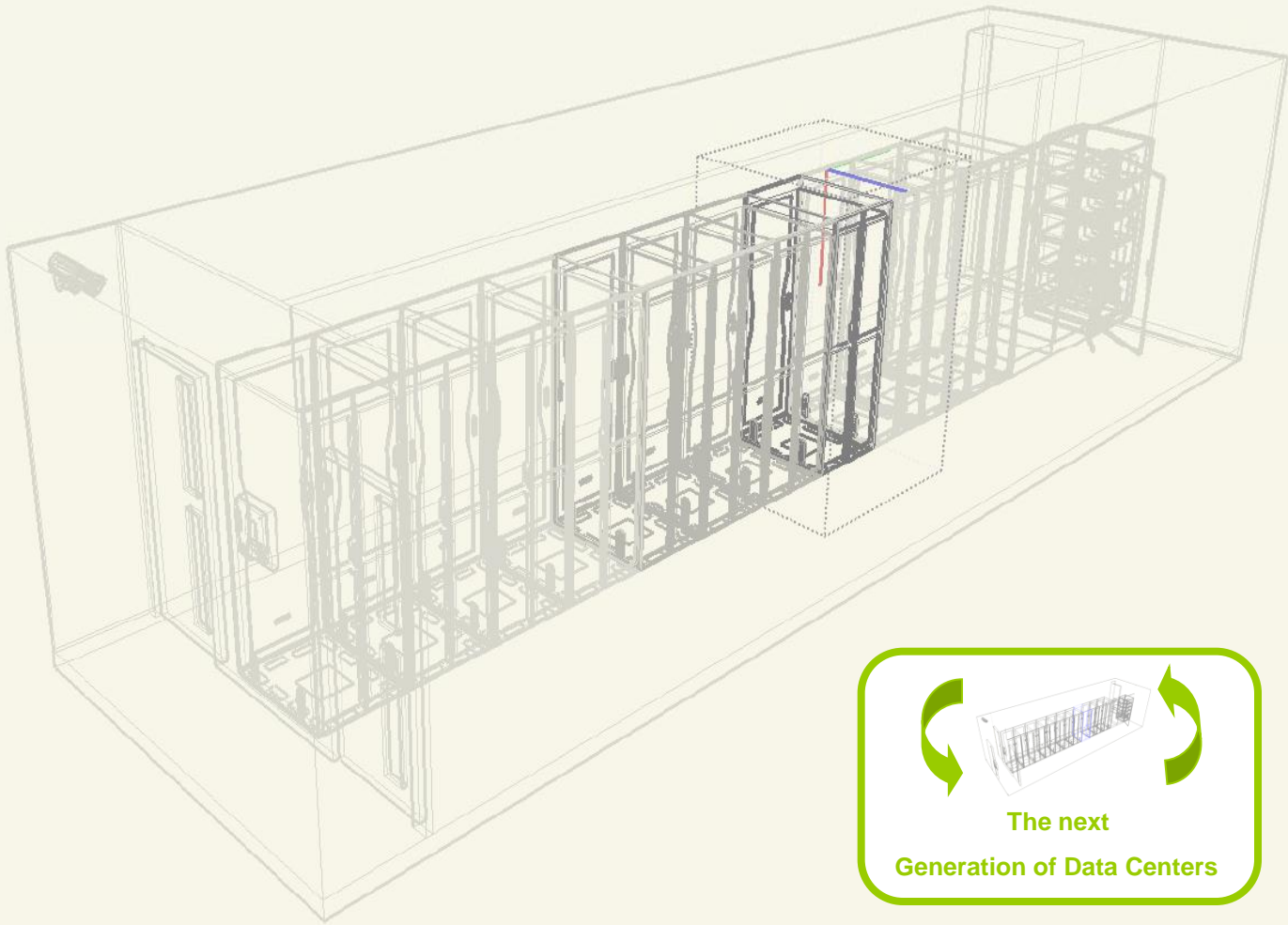


WIEGAND DataCenter *

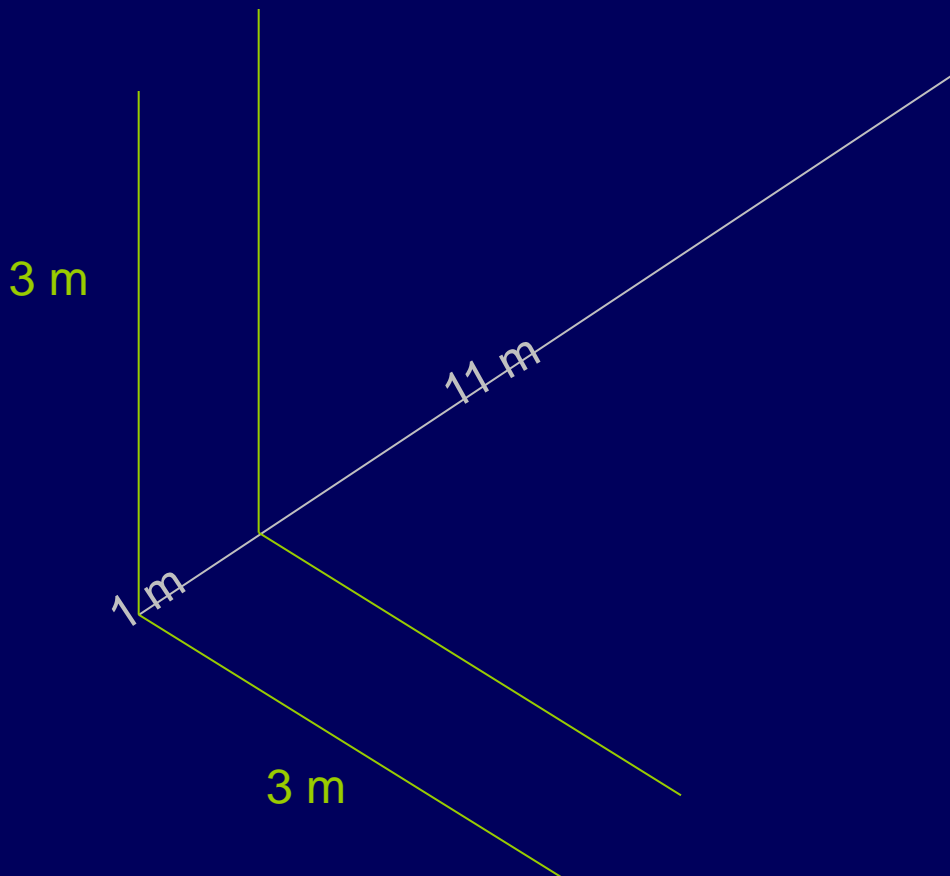
The next Generation of Green Datacenters!

- * Power Density
- * Energy Efficiency
- * Hardware Flexibility
- * High Security Standards
- * Infrastructure Redundancy
- * Geographic Flexibility
- * Short Delivery Times
- * 10 up to 20 KW per Rack
- * Easy Monitoring and Integration of DataCenter Management

*
DataCenters



DataCenter SIZE *



DataCenters *

ACCESS *

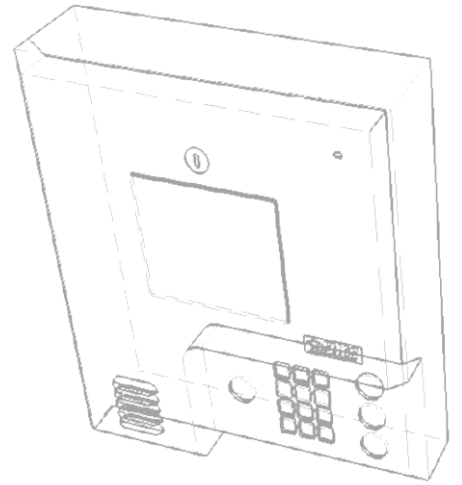
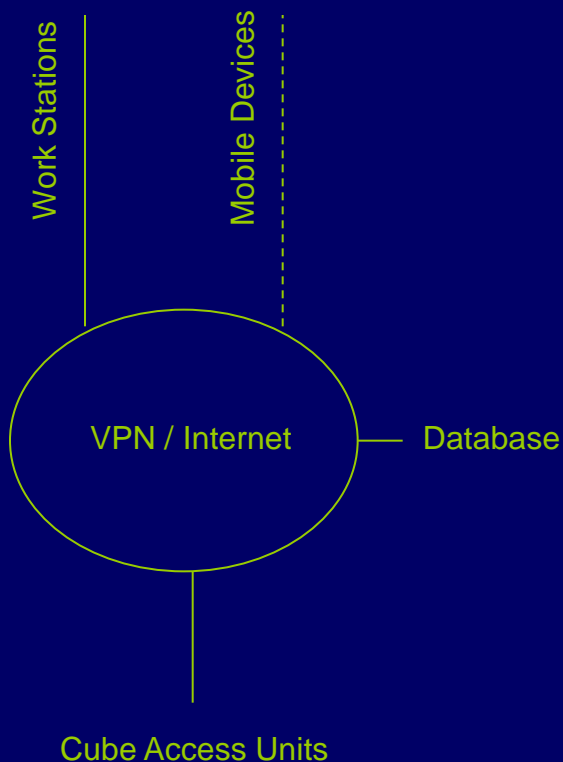
The **DataCenters** are protected by card readers and biometric finger-print scanners to guarantee high security standards.

All biometric scanners are connected to a central database which allows to manage all scan information remotely.

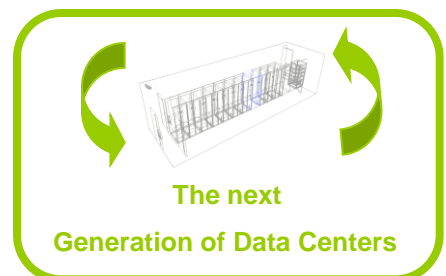
Remote door management is only one feature of the access system.

The access process will be handled via web interface and can also be displayed on mobile devices like cellphones.

Java Application



* ACCESS



SECURITY *

The **DataCenters** are secured by out- and indoor digital IP cameras which can be monitored via web interface.

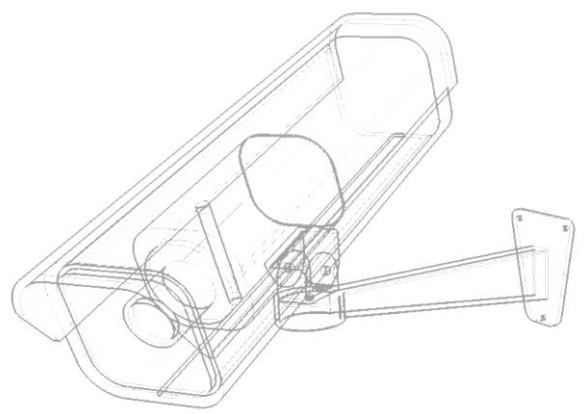
Burglar- and fire detection systems are installed in different areas inside the center.

Area 1 (Entrance)

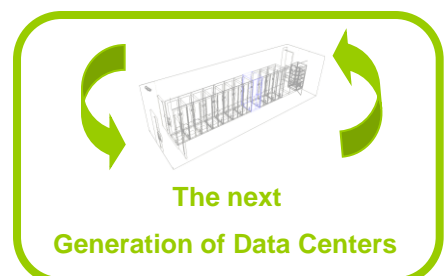
Area 2 (Cold Area)

Area 3 (Warm Area)

All important alarms will be transferred to the Management Controller IC1.



*
SECURITY



The next
Generation of Data Centers

MANAGEMENT *

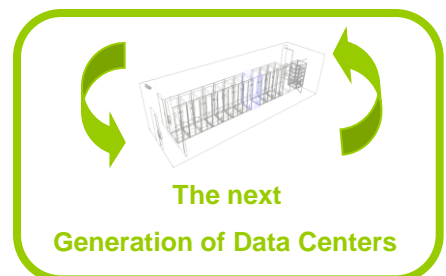
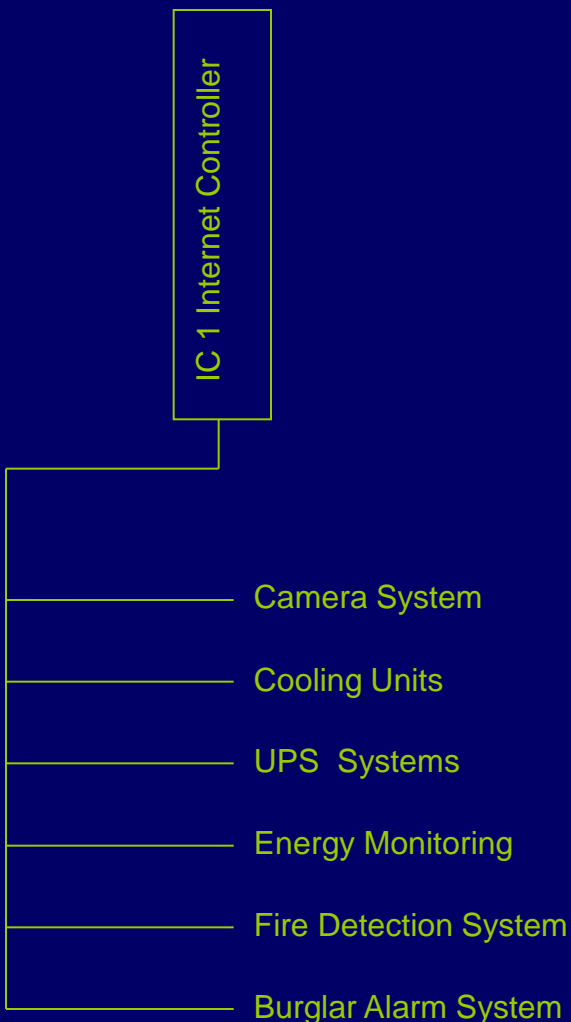
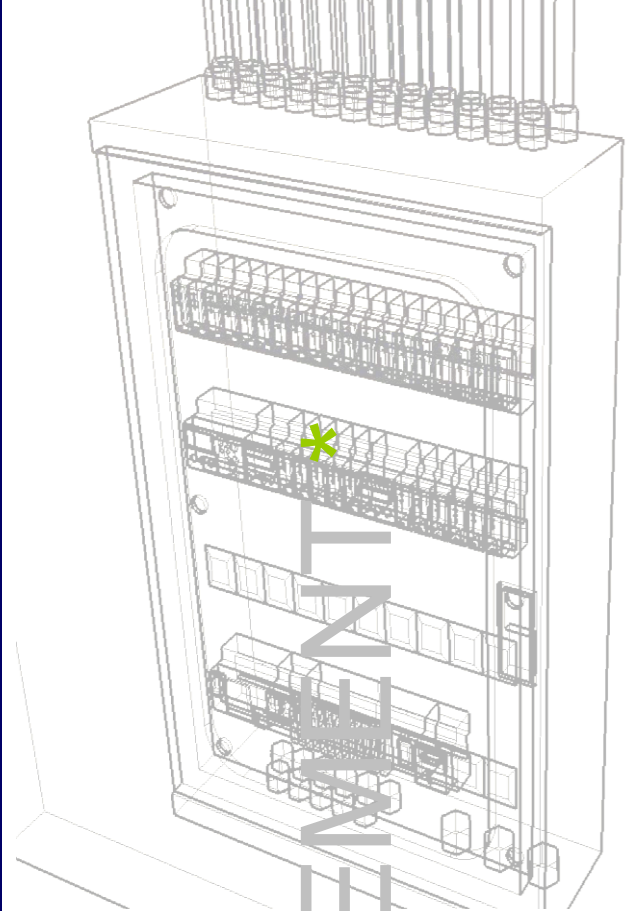
The DataCenters are monitored by IC 1 Internet Controllers to handle the complex datacenter processes.

All infrastructure parts are connected to the IC 1 device to guarantee 100% remote building monitoring!

Also the energy process is controlled and monitored by the IC 1 device!

The IC1 Controller can provide the following interfaces which allows to connect the monitoring into your existing infrastructure in 10 different languages.

IP and SNMP or E Mail



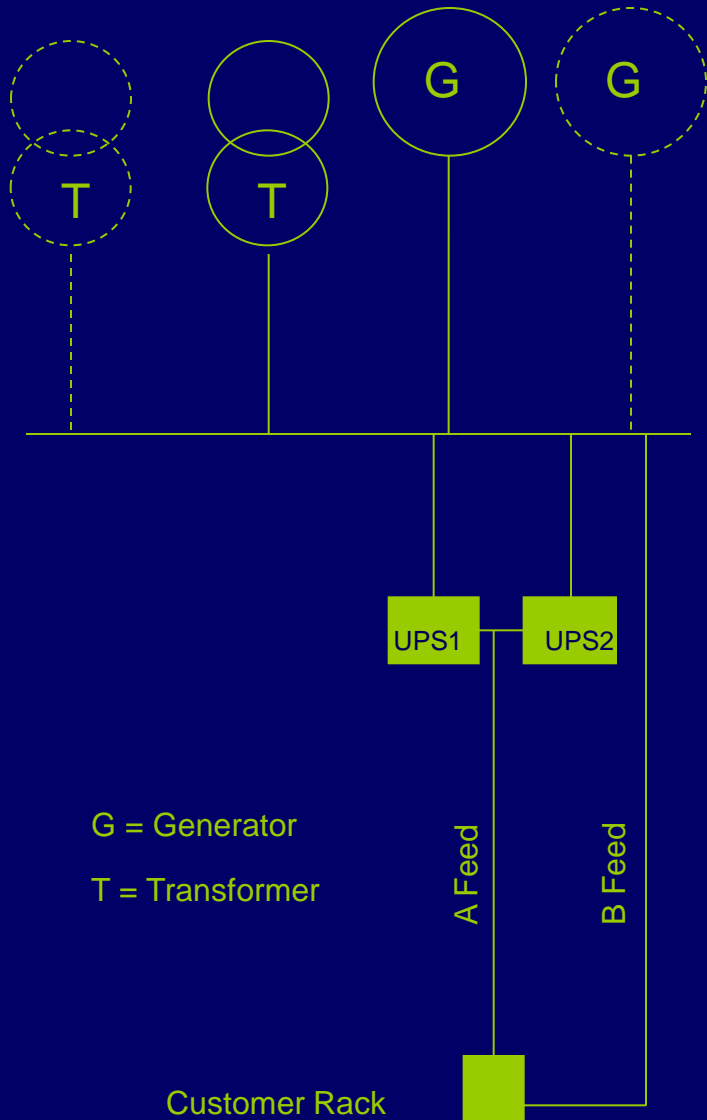
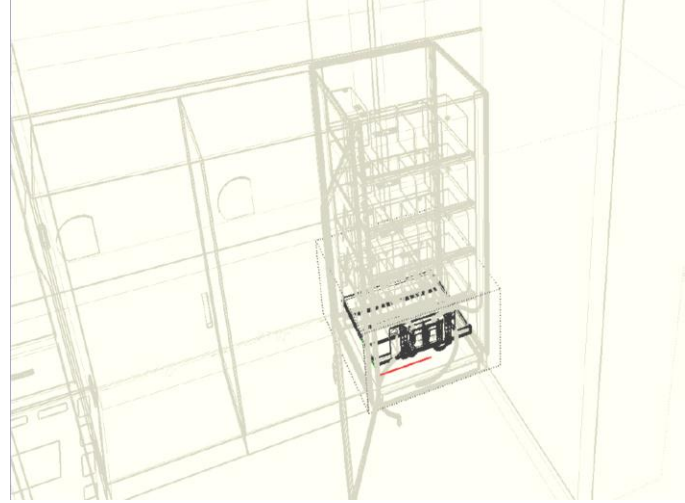
POWER *

UPS systems cover the entire DataCenter with a battery back-up of 10 min.

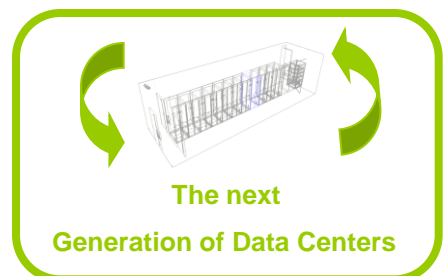
The UPS systems are operating in a N +1 mode to guarantee the highest standards.

All infrastructure parts are connected in parallel to one or more diesel generators which are located in a separate container.

The Wiegand DataCenters are available from 100KW up to 200 KW.



* POWER



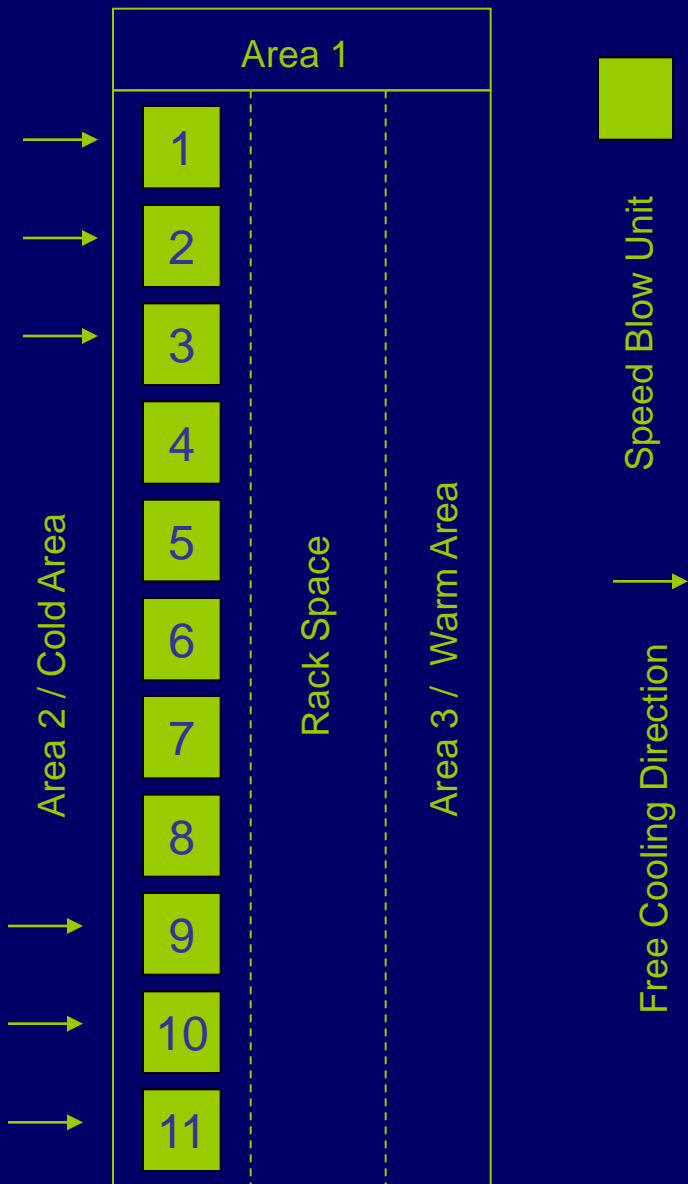
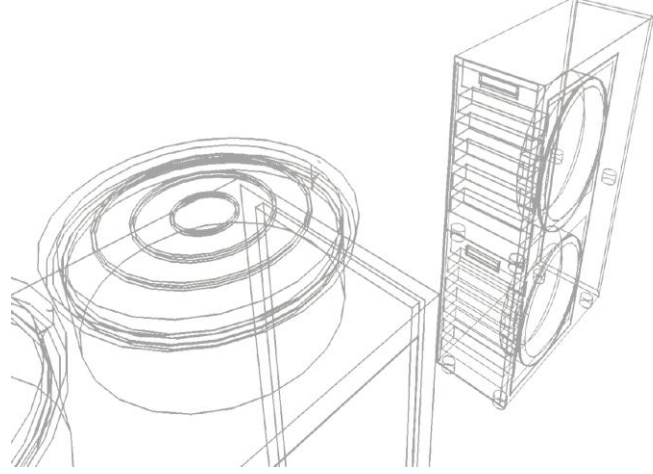
COOLING *

The **DataCenter** cooling is installed on the ceiling in area 2 (Cold Area).

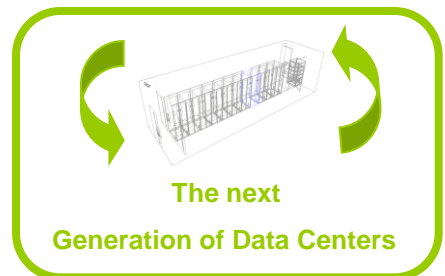
Speed blow units provide 15KW each cooling power per sqm into area 2.

The cold area 2 (36m³) will be provided by 7 - 11 speed blow units depending on the requested customer hardware power.

The integrated free cooling option allows a low electrical energy consumption for each unit during wintertime.

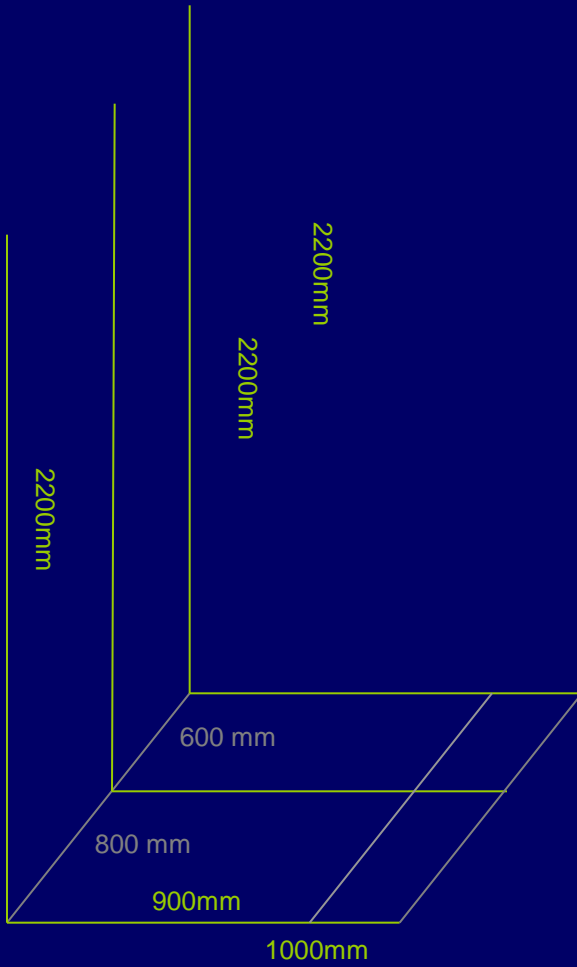


* COOLING



SPACE *

The DataCenter space management allows to place following rack sizes:

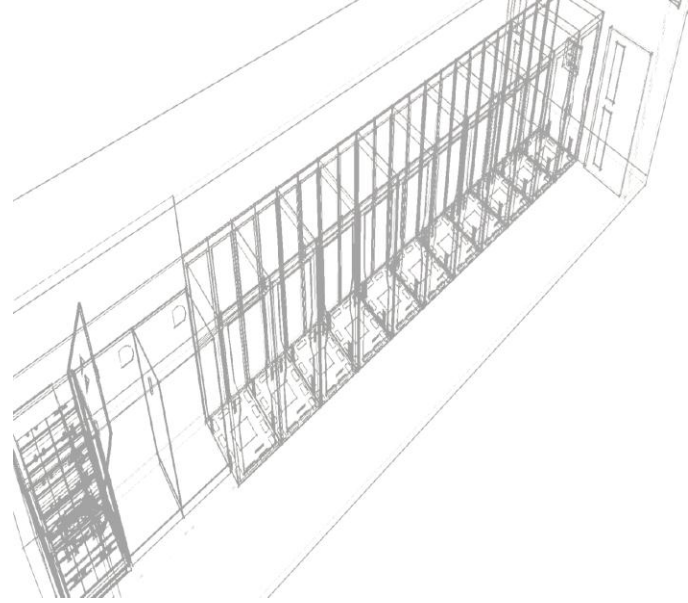


12 x 800 x 1000 x 2200

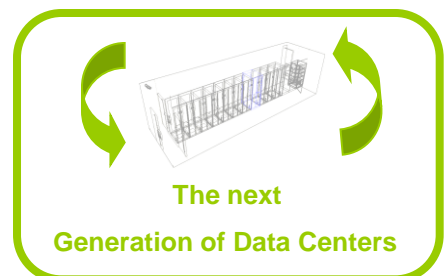
15 x 600 x 1000 x 2200

12 x 800 x 900 x 2200

15 x 600 x 900 x 2200



SPACE *

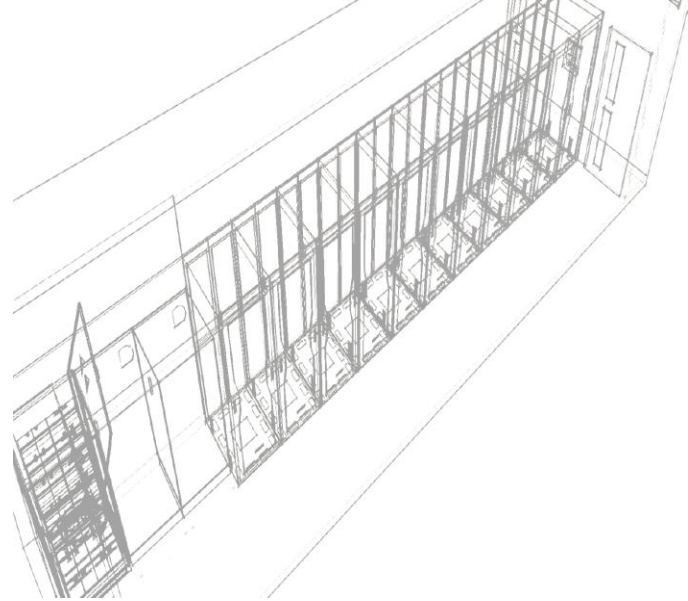
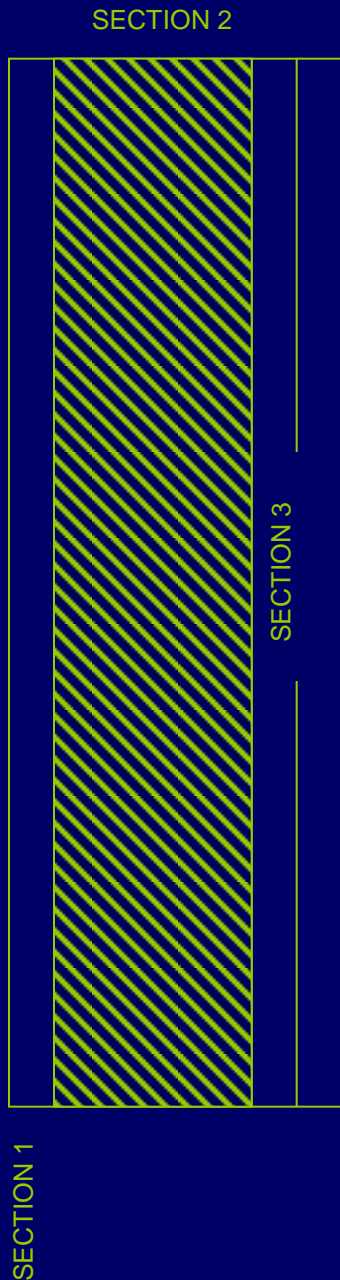


ISOLATION *

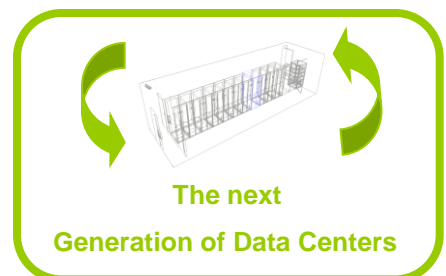
The DataCenter wall cladding is splitted into 3 different protection sections:

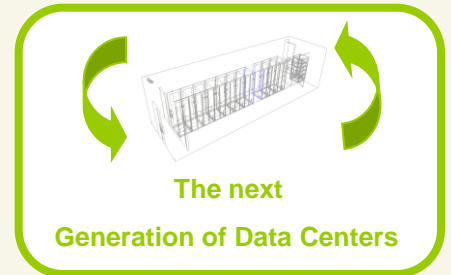
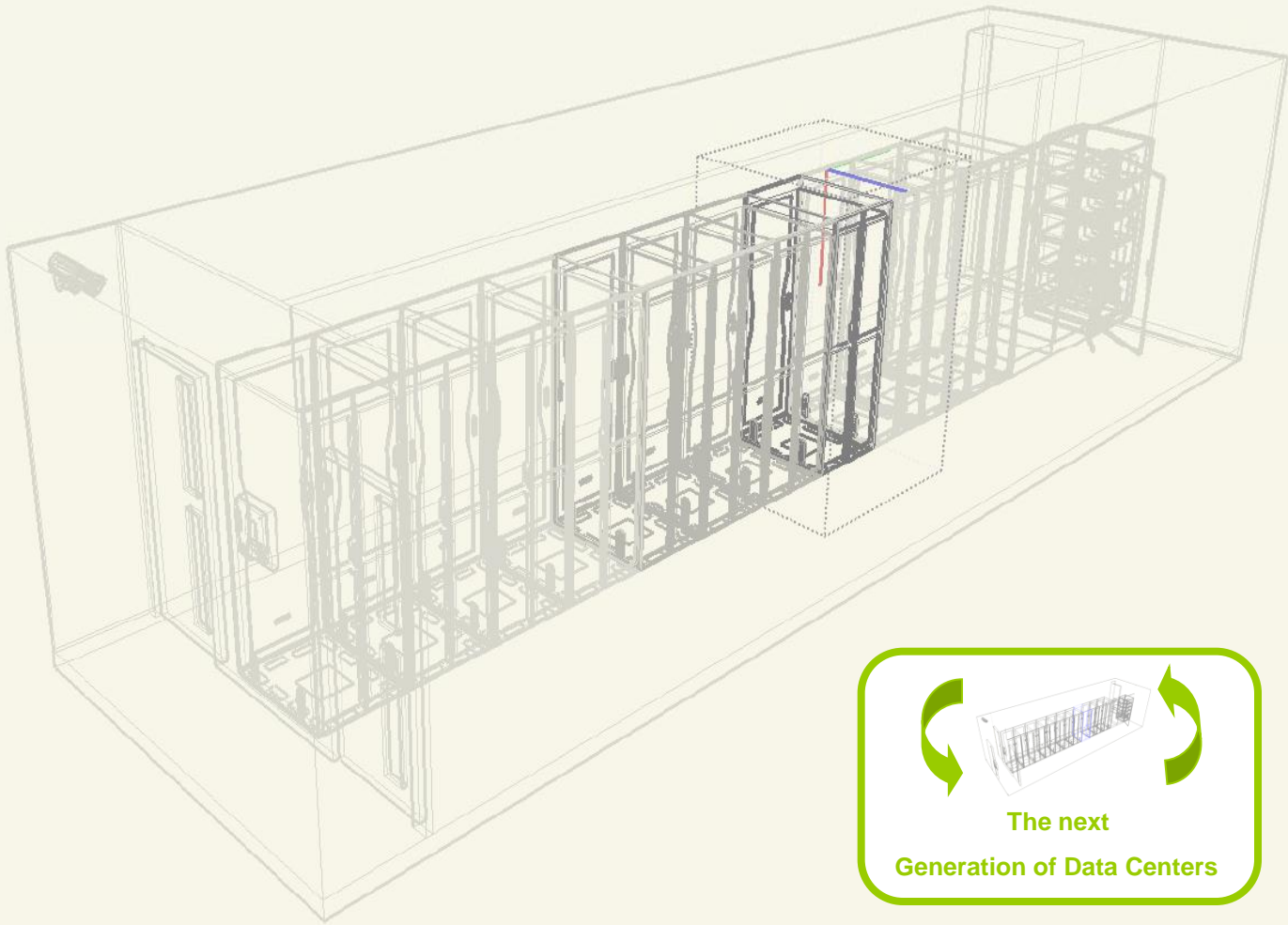
- Section 1: Steel wall outside 10 mm
- Section 2: Cooling isolation 50 mm
- Section 3: Plasterboards 20 mm each

The special developed wall cladding protects the datacenter against vandalism and other external hazards for example condensation water.



ISOLATION *





Wiegand

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DataCenters