



Pedro Teixeira

Jornadas FCCN 2022

Ursula von der Leyen: "Guerra acelera a transição ecológica"



Bruxelas anuncia pacote de investimento de 300 mil milhões para reforço Pacto Ecológico Europeu para eliminar a dependência das energias fósseis russas, objetivo reduzir as emissões poluentes em 55% até 2027

that the internet requires **70 billion kilowatt hours** per year to run.



Consumo Internet 2019 = 8 X Capacidade **Zaporizhzhia**

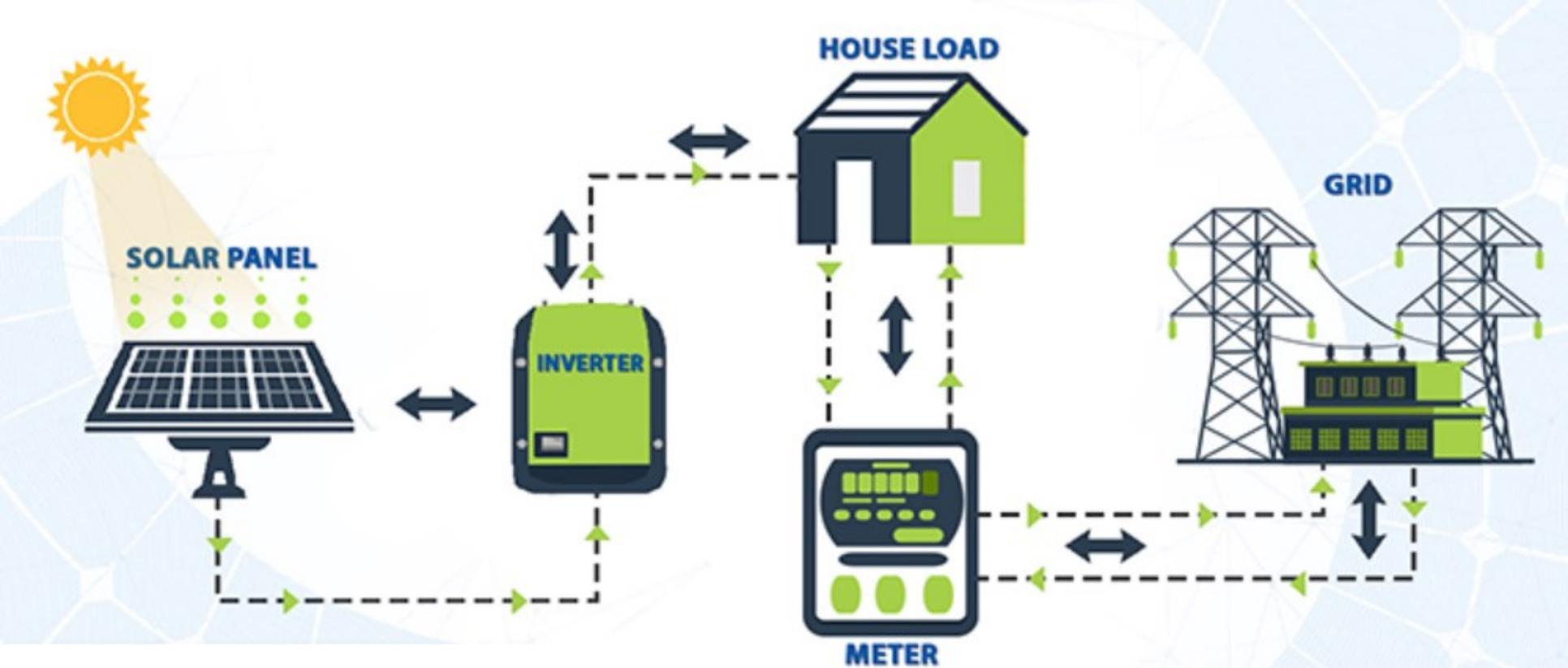


Consumo Internet 2019 = 2 X Capacidade Solar Instalada USA



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Intermitência + Auto consumo “Net Metering”



Auto consumo “Net Metering”





Produção Remota – Auto Consumo Corporativo

Intermitência =>



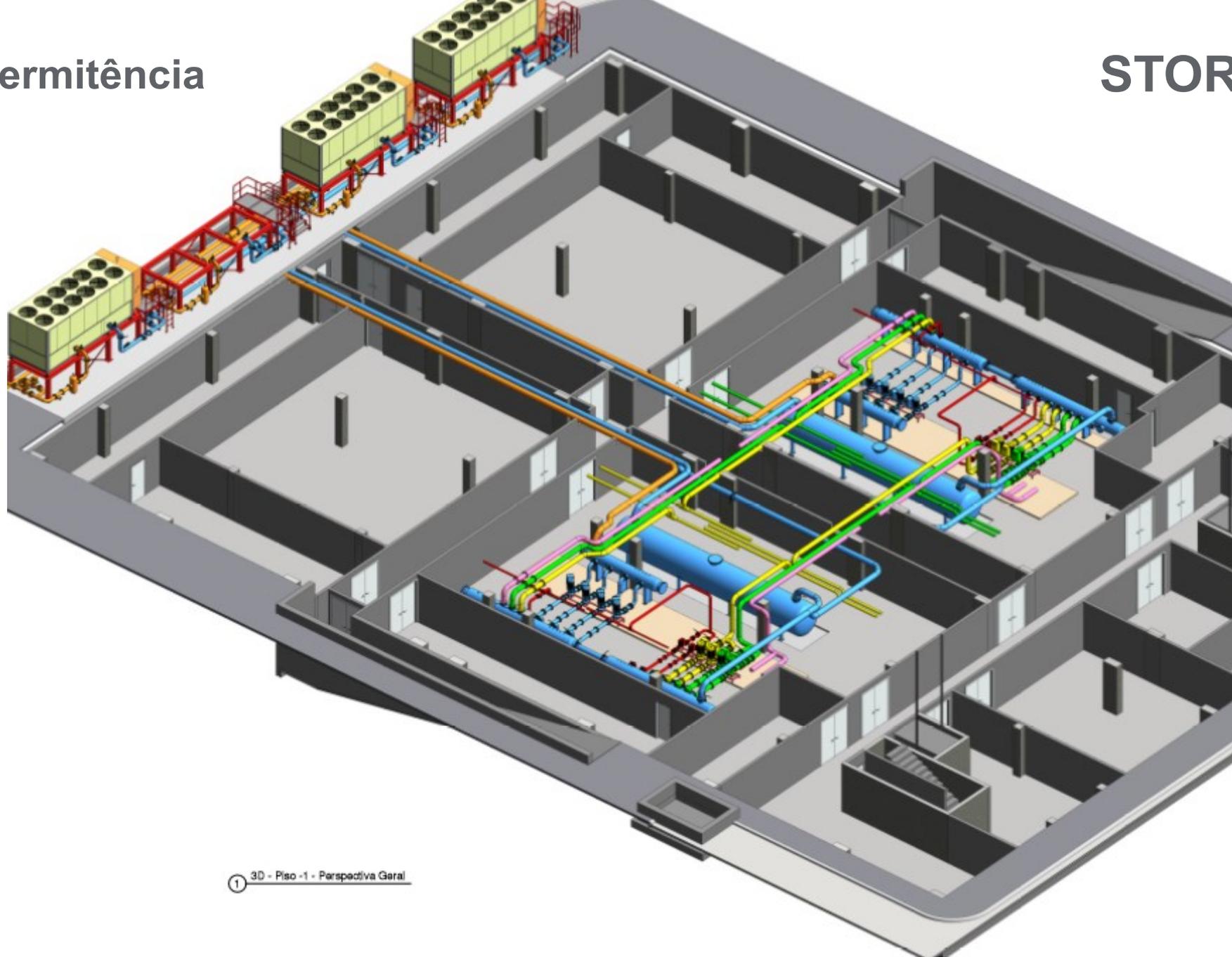
+



”STORAGE” + DESLASTRE + AUTO GERAÇÃO

Intermitência

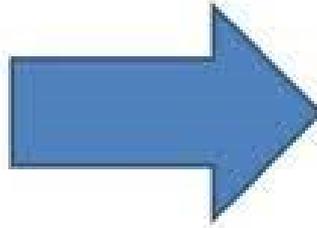
STOR



① 3D - Piso -1 - Perspectiva Geral



BAIXAR CONSUMO < CAPEX < OPEX



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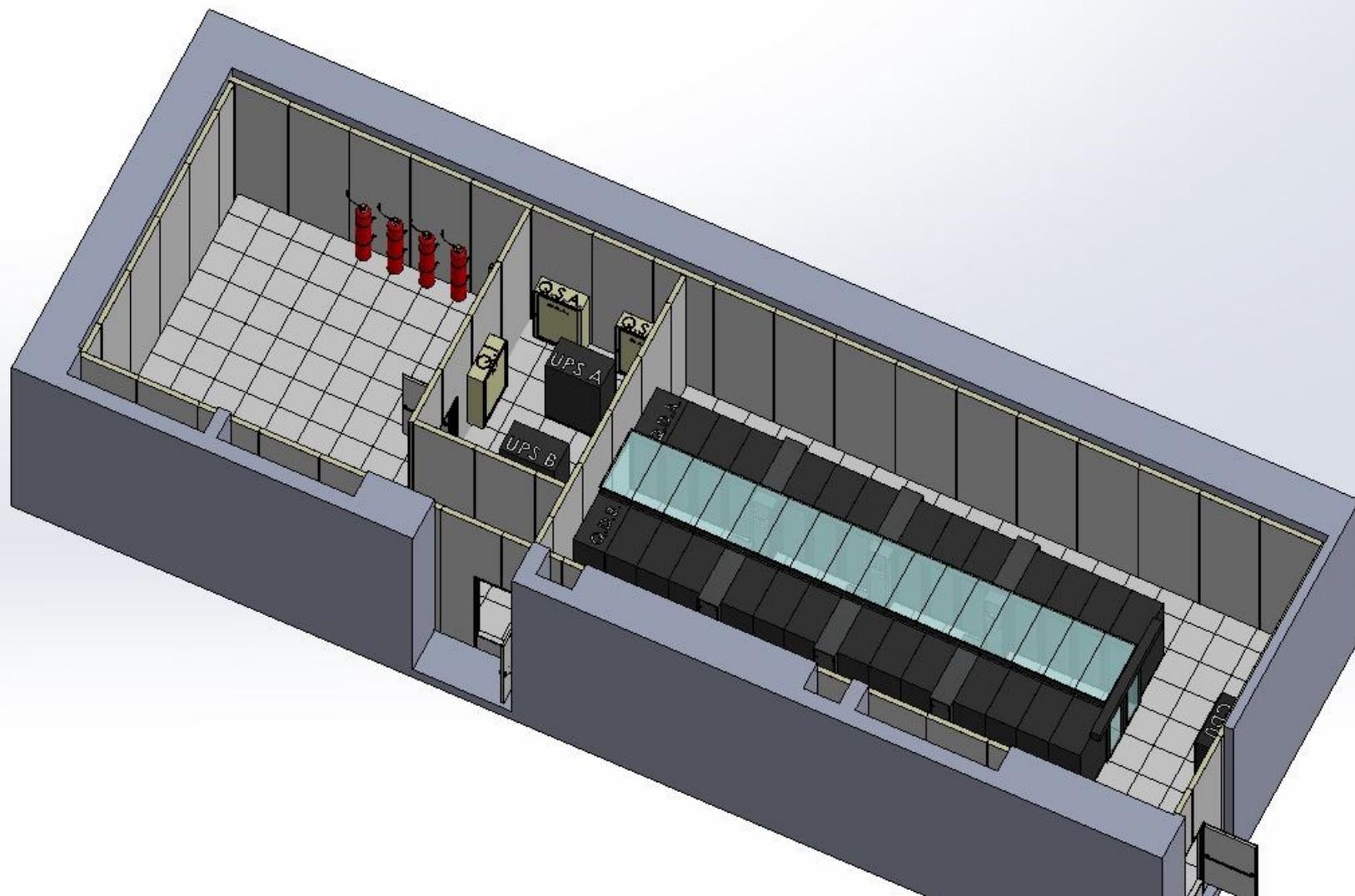


MEDIDAS URGENTES



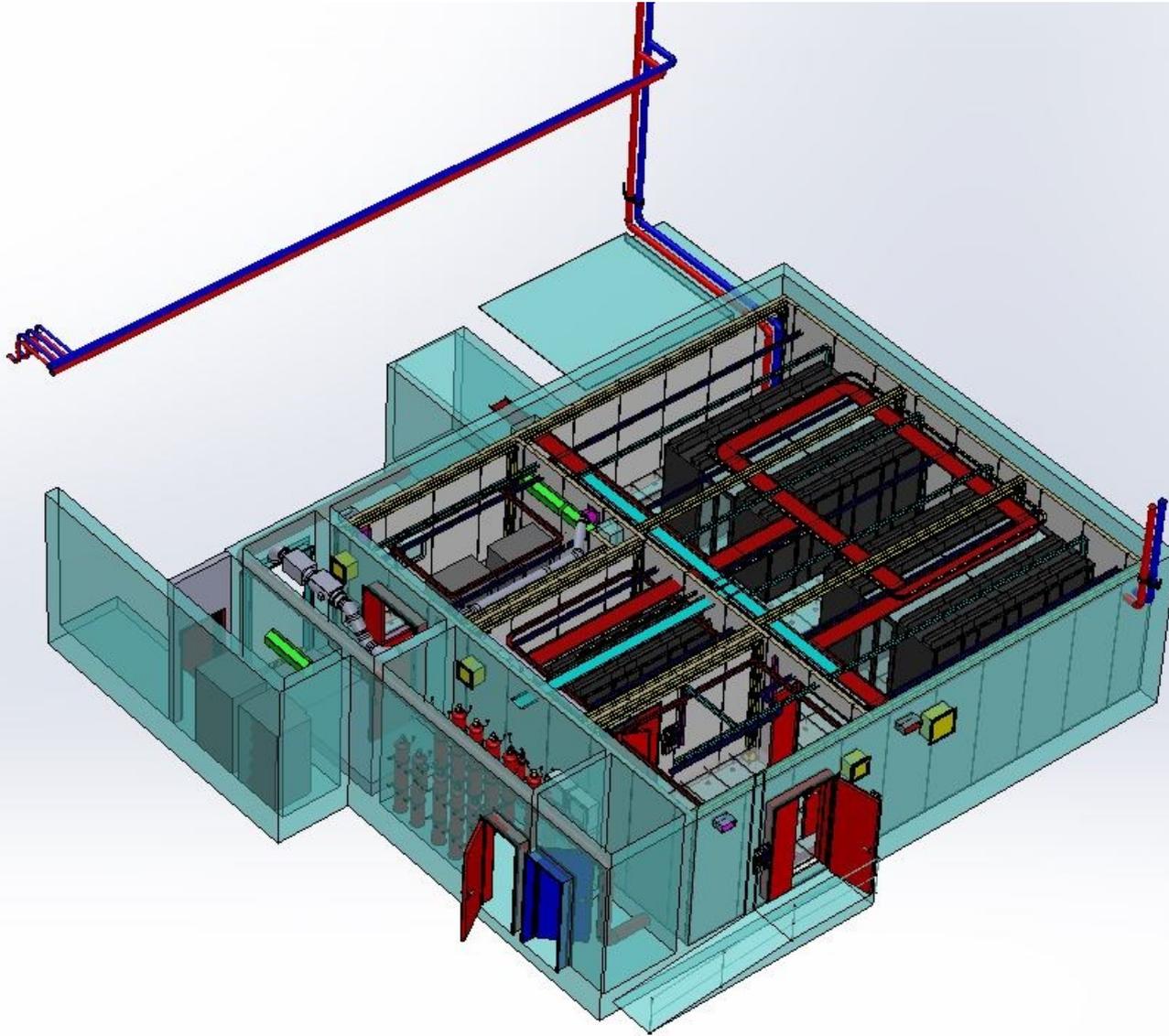


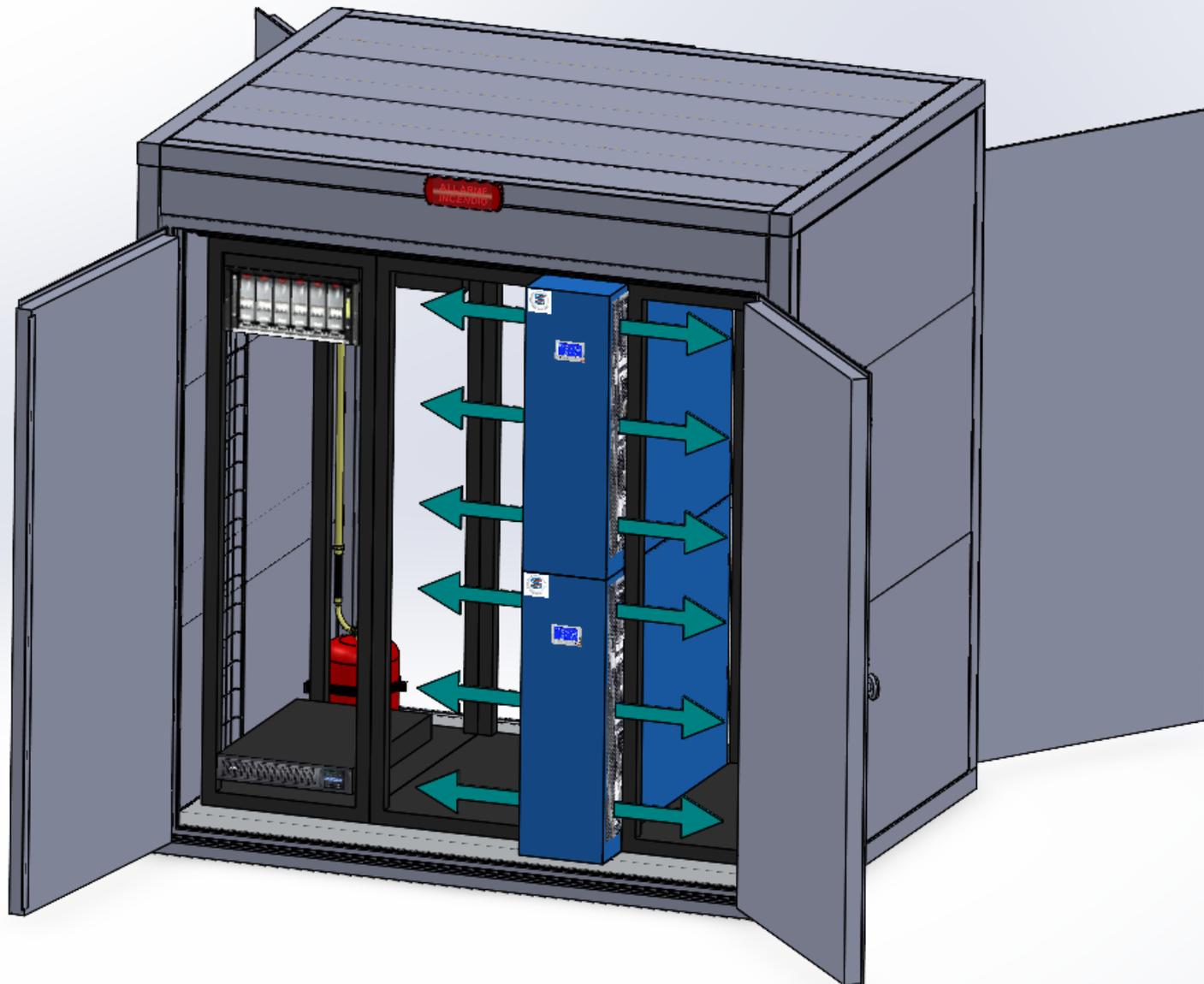
UBI
Covilhã
Portugal





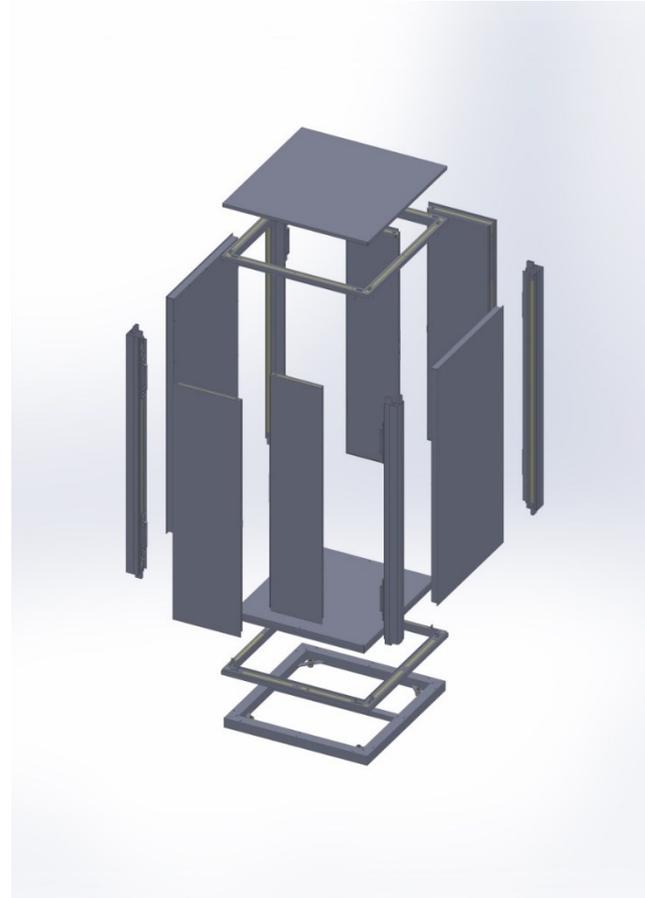
Volkswagen
Autoeuropa







RackShelter



NETZOOM ENTERPRISE for LANShark

HOME MY TASK SERVICE DESK DATA CENTER IT FACILITY INVENTORY ADMINISTRATION

Emily Riezbeck PDC - Primary Data Center

Filter Features

Data Center

Tenants: NetZoom - LANShark Systems (Licensee)

Management Units: All

Filters: No Filter (0)

HEALTH CHECK: Health, Monitor, Log

CAPACITY: Power, Thermal, Space (RU), Space (CU), Copper Ports, Fiber Ports

SERVICENOW: Create Asset

Change Management, Inventory and Audit

Data Center/Data Center/Data Center

2D 3D

Open Controls



Location : Row A100, Racks: 7, Servers: 84, Cloud VMs: 14

11:35AM 05/11/2020

DCIM / NAGIOS / ZABBIX – SNMP V3



Dashboard of Cluster A (Cluster) (administrator) - vTRACS

2019-Oct-18 16:29:36

Cluster A (Cluster)

The dashboard displays several performance metrics for Cluster A, including CPU usage, memory usage, and network activity. Each metric is represented by a gauge and a corresponding data table.

Virtual Machine Manager (administrator) - vTRACS

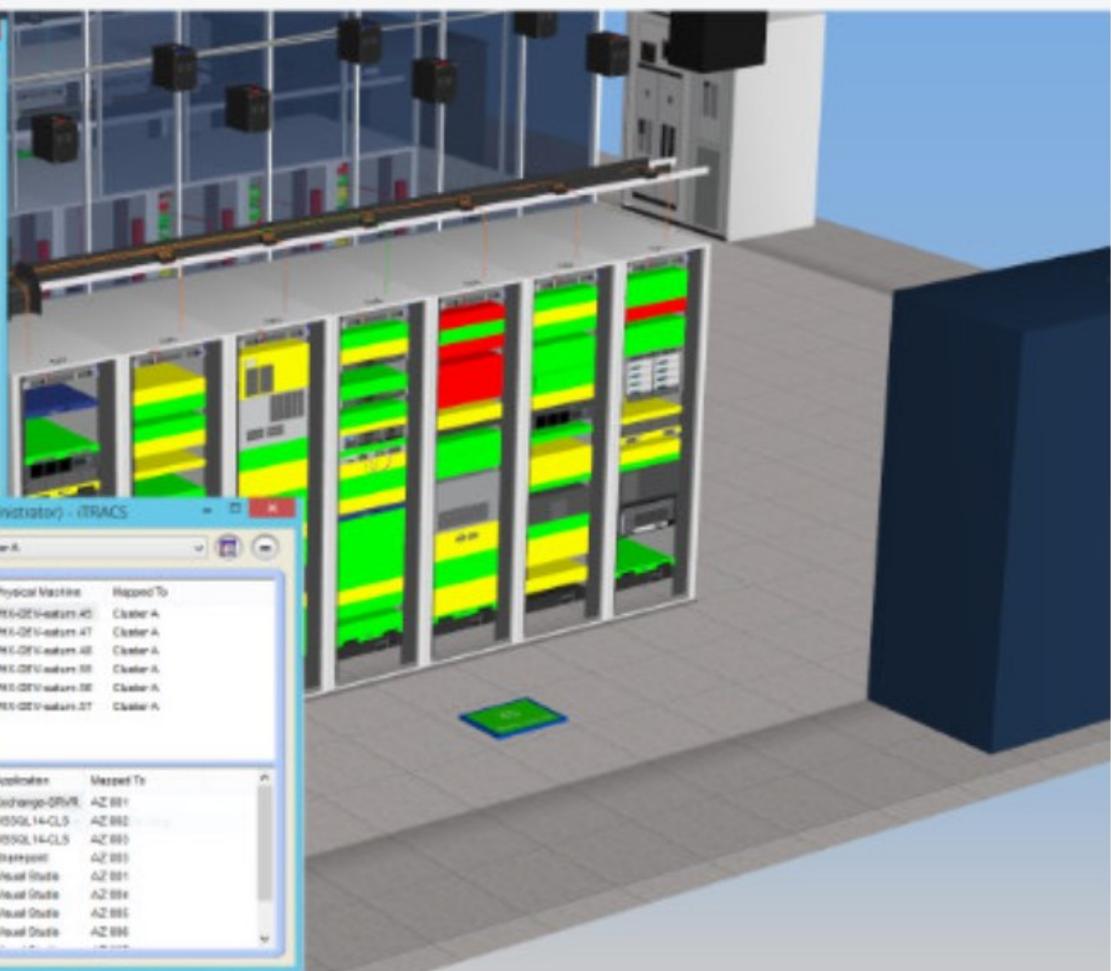
Connected Objects

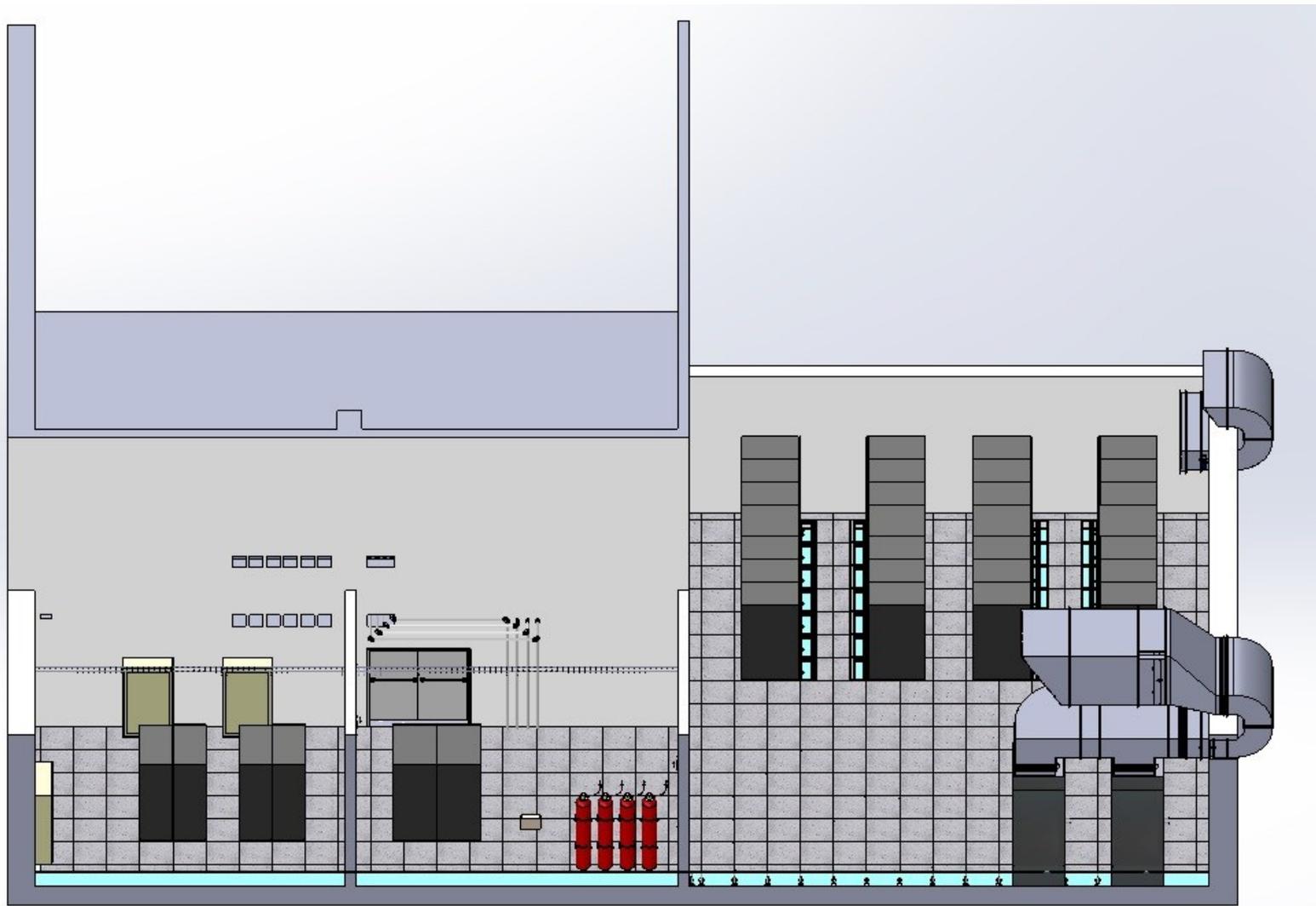
Type	Cluster
Cluster	Cluster A

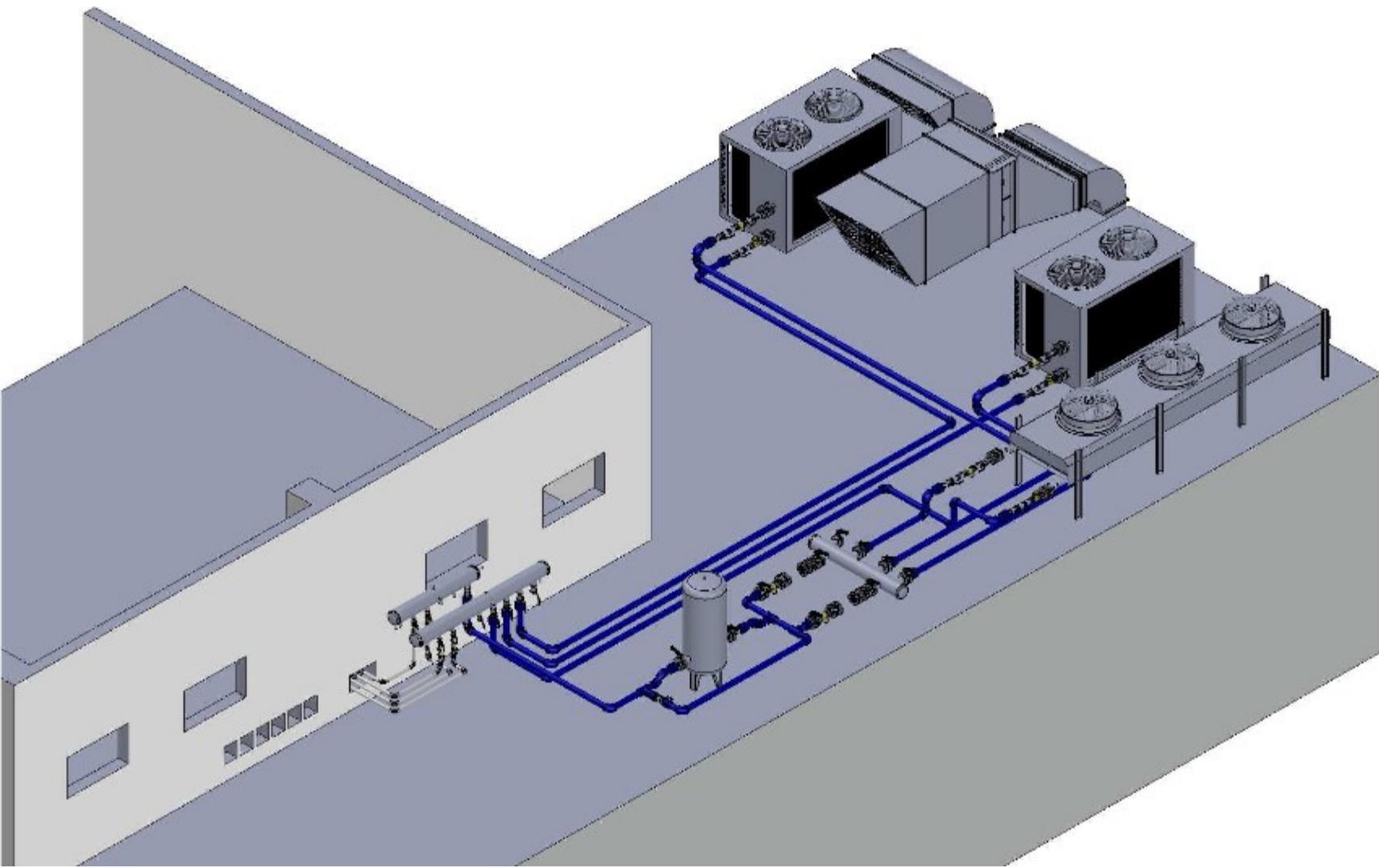
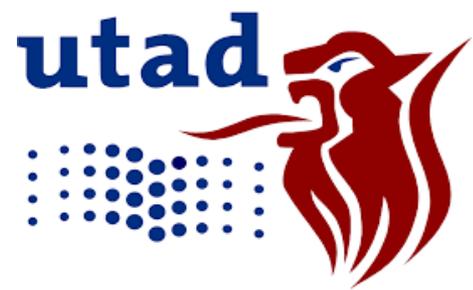
Physical Machine	Mapped To
PH1-DE1-virtual-40	Cluster A
PH1-DE1-virtual-41	Cluster A
PH1-DE1-virtual-42	Cluster A
PH1-DE1-virtual-43	Cluster A
PH1-DE1-virtual-44	Cluster A
PH1-DE1-virtual-45	Cluster A

Virtual Machine	Mapped To
AZ 901	A1 Server Hyper 1
AZ 902	A1 Server Hyper 1
AZ 903	A1 Server Hyper 1
AZ 904	A1 Server Hyper 1
AZ 905	A1 Server Hyper 1
AZ 906	A1 Server Hyper 1
AZ 907	A1 Server Hyper 1
AZ 917	A1 Server Hyper 1

Application	Mapped To
Exchange-DB/8	AZ 901
MSSQL14-CLS	AZ 902
MSSQL14-CLS	AZ 903
Sharepoint	AZ 904
Visual Studio	AZ 905
Visual Studio	AZ 906
Visual Studio	AZ 907
Visual Studio	AZ 908









FREE-COOLING INTEGRADO



EER 6,5





vs



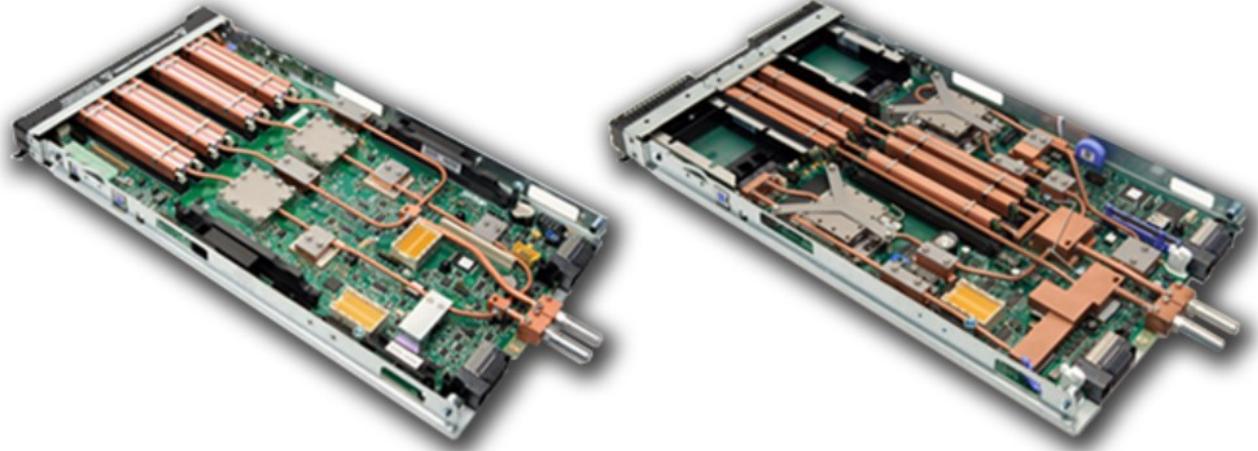
VENCEDOR DA COMPARAÇÃO

69 CARACTERÍSTICAS COMPARADAS

Intel Core i7-9750H vs Qualcomm Snapdragon 675

- ✓ Clock do GPU 495MHz mais rápido ?
845MHz vs 350MHz
- ✓ TDP 39W mais baixo ?
6W vs 45W

ASHRAE Class W4: 95-113°F



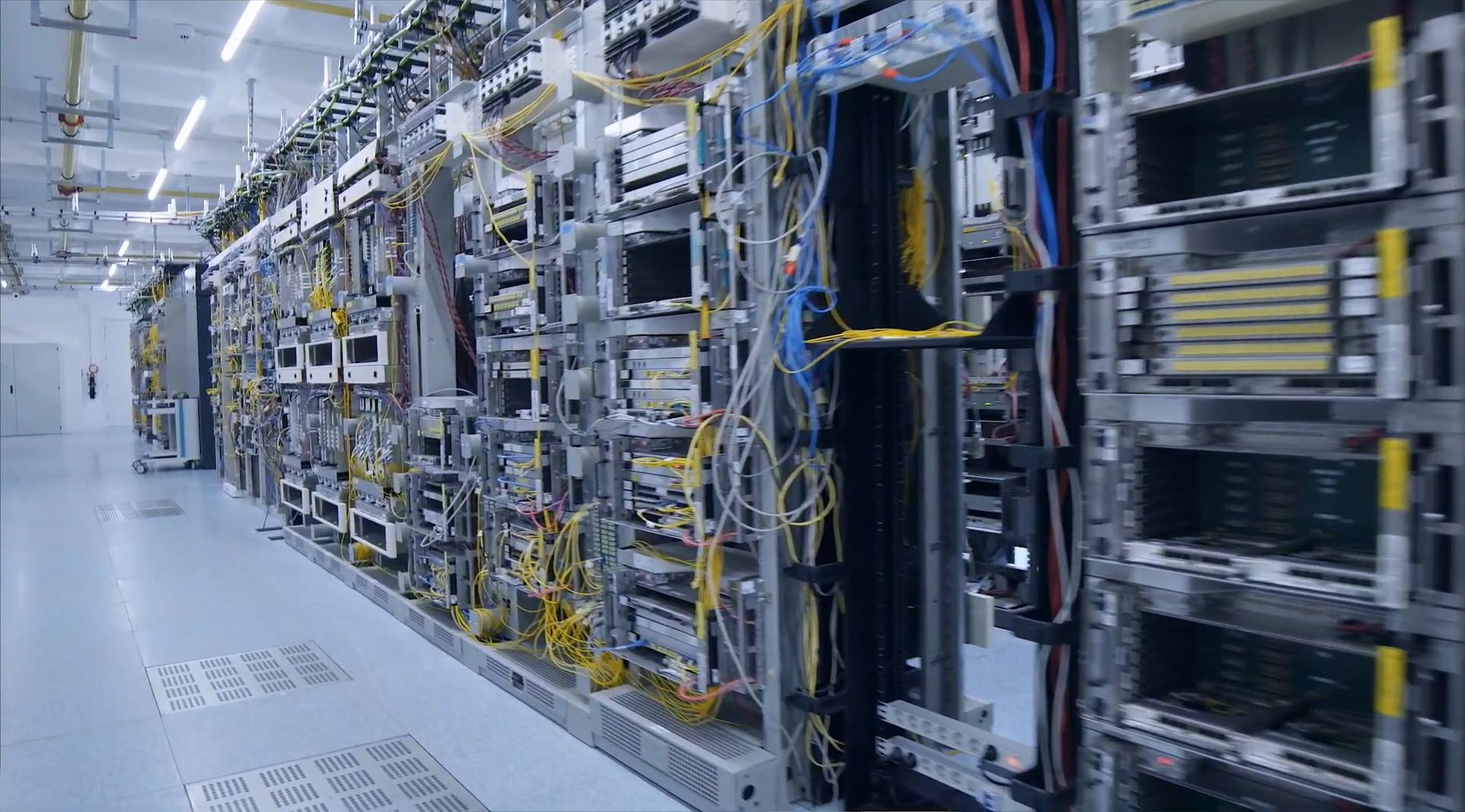
Aquasar system and direct water-cooled IBM BladeCenter QS22 and HS22.

Processors and numerous other components are water-cooled, and the server heat is utilized in the hot-water grid.



Google

HPC 100 Kw / Rack



DC / AC





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