

SWITCH DATACENTERS

Switch Datacenters designs and builds premium ultra efficient datacenters for colocation and dedicated datacenter users.

Our 3 datacenters in the Amsterdam region provide a total floor area of 24.220 m² (260.701 ft²) and 8.350 m² (89.878 ft²) of secure white space for racks and private suites.

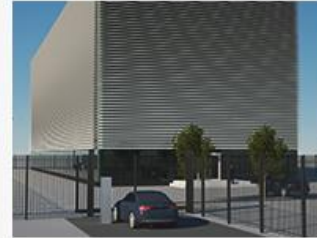
Each location is equipped with the most efficient and reliable technologies in the market making Switch Datacenters the leading provider of sustainable datacenters in The Netherlands.



Switch Datacenters AMS1
Amsterdam SouthEast



Switch Datacenters AMS2
Amsterdam region (Woerden)



Switch Datacenters AMS3
Amsterdam SouthEast district



Expansion AMS1
Switch Datacenters AMS1
Amsterdam SouthEast

HISTORY AND QUICK FACTS

- Founded in 1998 as Internet Unie
- Expanded the business with Switch Datacenters in 2009
- First datacenter opened its doors in 2011
- Second datacenter open in 2014
- Third datacenter open 2017
- Aimed at the medium and large datacenter users in Europe
- Typical customers: internet providers, IT integrators, cloud providers, telecom operators, medium and large corporations.
- Headquartered in Amsterdam
- 100% Dutch Company
- Total customers: 500+
- Cash flow positive since incorporation
- Privately owned
- In-house R&D team
- Multiple technology patents pending
- Rich on fiber networks
- High-end bandwidth partners



AMS3 (Amsterdam Z-O)

Surface: 11,000 m²

White space: 1,242 m²

Incoming Power (MVA): 10.0

AMS3 (Expansion)

Additional White space: 1,997 m²
Potential ICT capacity (MW): 5.7



AMS1 (Amsterdam Z-O)

Surface: 8,764 m²

White space: 1,815 m²

Incoming Power (MVA): 12.0

AMS1 (Expansion)

Additional White space: 1,500 m²
Potential ICT capacity (MW): 5.4



AMS 2

Surface: 5,500 m²

White space: 1,370 m²

Incoming Power (MVA): 1.8

Switch AMS1

POWER:

The power infrastructure was completely renewed in 2015 (2N design).

The facility is equipped with the following modern power technologies to meet the highest datacenter requirements:

- 2N room PDUs.
- All power equipment by Schneider Electric.
- 2N diesel generators by SDMO-Kohler.
- Power management software by Schneider Electric Power Management.
- Incoming grid capacity: 2 MVA (additional 10 MVA is pending).
- 2N Transformers: 2 x 2.5 MVA.
- 2N Master Distribution Boards: 2 x 2.5 MVA.
- 2N UPS capacity: 2 x 1.0 MW (modular extendable).
- Diesel generators: 2 x 1.0 MW (expandable).
- Expansion pending for additional capacity

COOLING

The cooling equipment was completely renewed between 2016 and 2018.

The facility is equipped with the following modern cooling technologies to meet the highest datacenter requirements:

- Cooling systems: N+1 design, indirect adiabatic cooling systems for the two computer rooms and the UPS rooms.
- Uses water evaporation as its cooling agent in warm weather and outside ambient air in cool weather.
- 24h backup water storage on site.
- Ultra low energy usage with a cooling pPUE of 1.06.
- Room 1: four air handling units with a capacity of 50,000 m³/h each.
- Room 2: up to 32 air handling units with a capacity of 20,000 m³/h each.
- UPS rooms: four air handling units with a capacity of 10,000 m³/h each.



Switch AMS2

POWER:

The facility is equipped with the following power infrastructure design to meet the highest datacenter requirements:

- 2N redundant design.
- Electrical equipment by ABB and Schneider Electric.
- Power management software by Schneider Electric Power Management.
- 2N Flywheel UPS / diesel generators (DRUPS).
- DRUPS capacity: 2 x 1 MW (Hitec).
- Incoming grid capacity: 1.75 MVA.
- 2N Transformers: 2 x 1.0 MVA.
- 2N Master Distribution Boards: 2 x 1.0 MVA.

COOLING

The cooling equipment was completely renewed in 2015.

The facility is equipped with the following modern cooling technologies to meet the highest data center requirements:

- Indirect adiabatic cooling system: N+1 design.
- Multiple air handling units with a capacity of 20,000 m³/h each.
- Uses water evaporation as its cooling agent in warm weather and ambient outside air in cool weather.
- Coolers placed on the roof of the building.
- 24 hour backup water storage on-site.
- Conventional cooling system in place for computer room as back up.
- Ultra low energy usage with a cooling pPUE of 1.06 or lower



Switch AMS3

POWER:

The facility is equipped with the following modern power technologies to meet the highest datacenter requirements:

- Distributed redundant design N+50%.
- Electrical equipment: Schneider Electric.
- Power management software by Schneider Electric Power Management.
- 2N UPS: 2x 1.5 MW.
- Incoming grid capacity: 10 MVA.
- 2N Transformers: 2 x 2.5 MVA.
- 2N Master Distribution Boards: 2 x 2.5 MVA.
- 2N Diesel generators: 2 x 2.5 MVA.
- Power distribution: 2N overhead busbars.
- Expansion pending for delivery of the additional sold capacity

COOLING

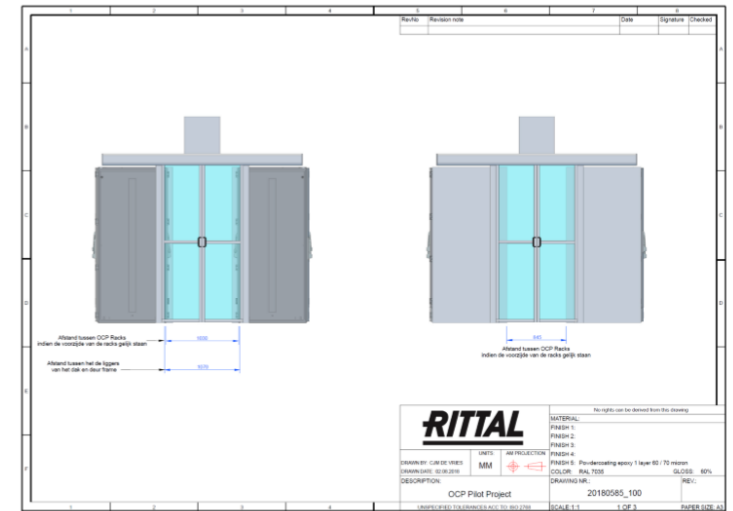
The cooling equipment was installed in 2017.

The facility is equipped with the following modern cooling technologies to meet the highest data center requirements:

- Indirect adiabatic cooling system: N+1 design.
- Multiple air handling units with a capacity of 20,000 m³/h each.
- Uses water evaporation as its cooling agent in warm weather and ambient outside air in cool weather.
- 24+ hours backup water storage on-site.
- Coolers built under datacenter floor to maximize cooling capacity per m² thus avoiding mechanical equipment in white space.
- Ultra low energy usage with a cooling pPUE of 1.04 or lower.
- 2N Water Supply with 24 hour water back up.



European OCP Experience Center in AMS1



Open Compute Project Experience Center



CIRCLE B
Revolutionary IT Infrastructures

switch  datacenters

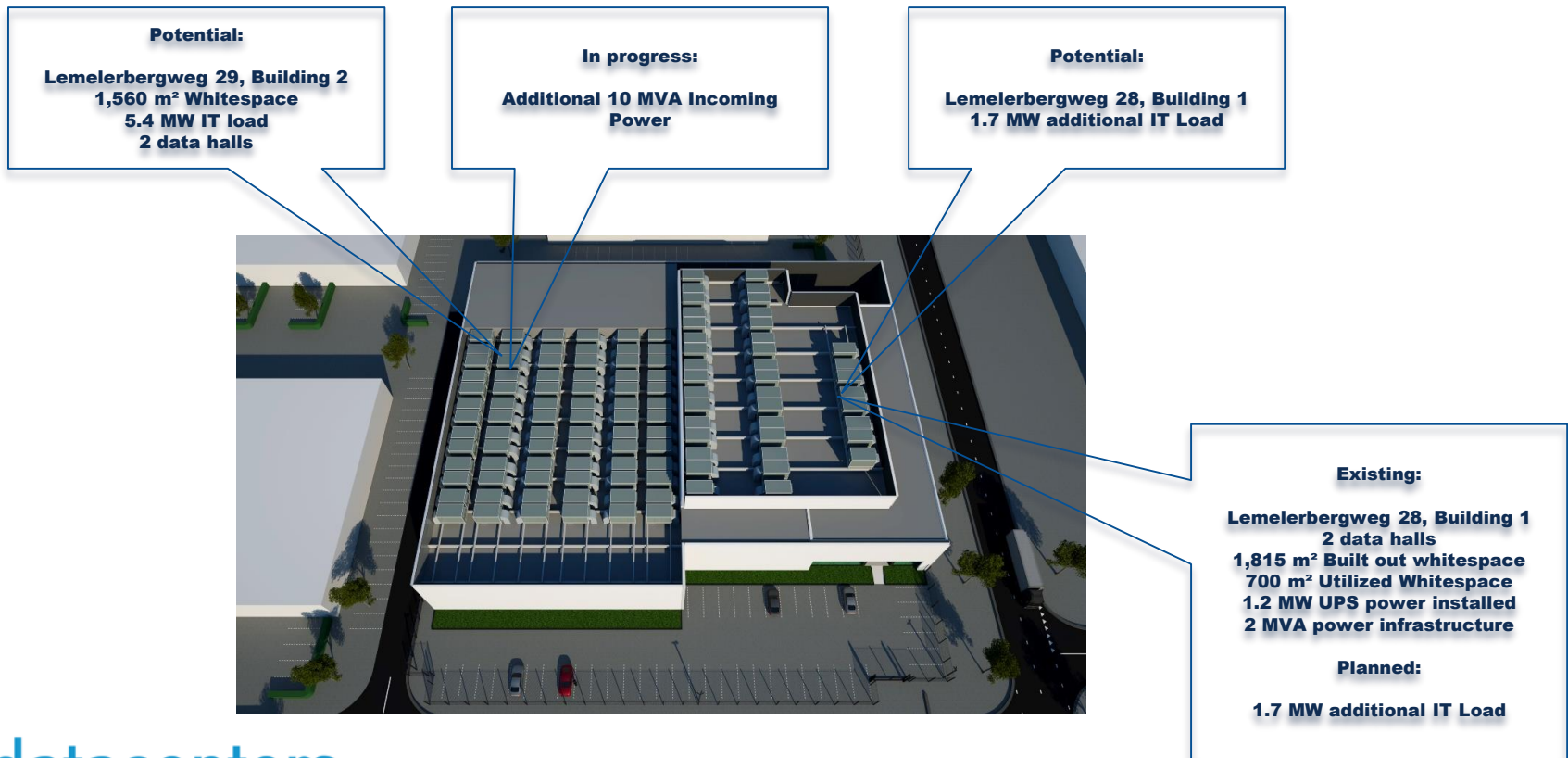


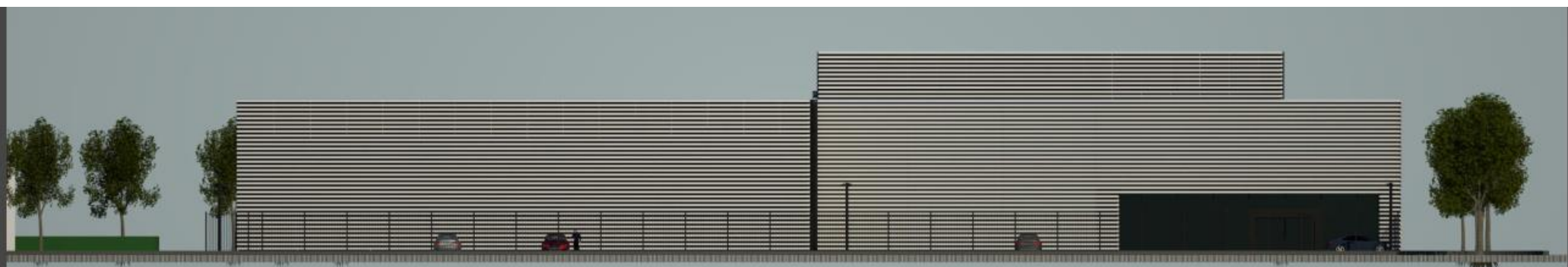
Site Extension AMS1

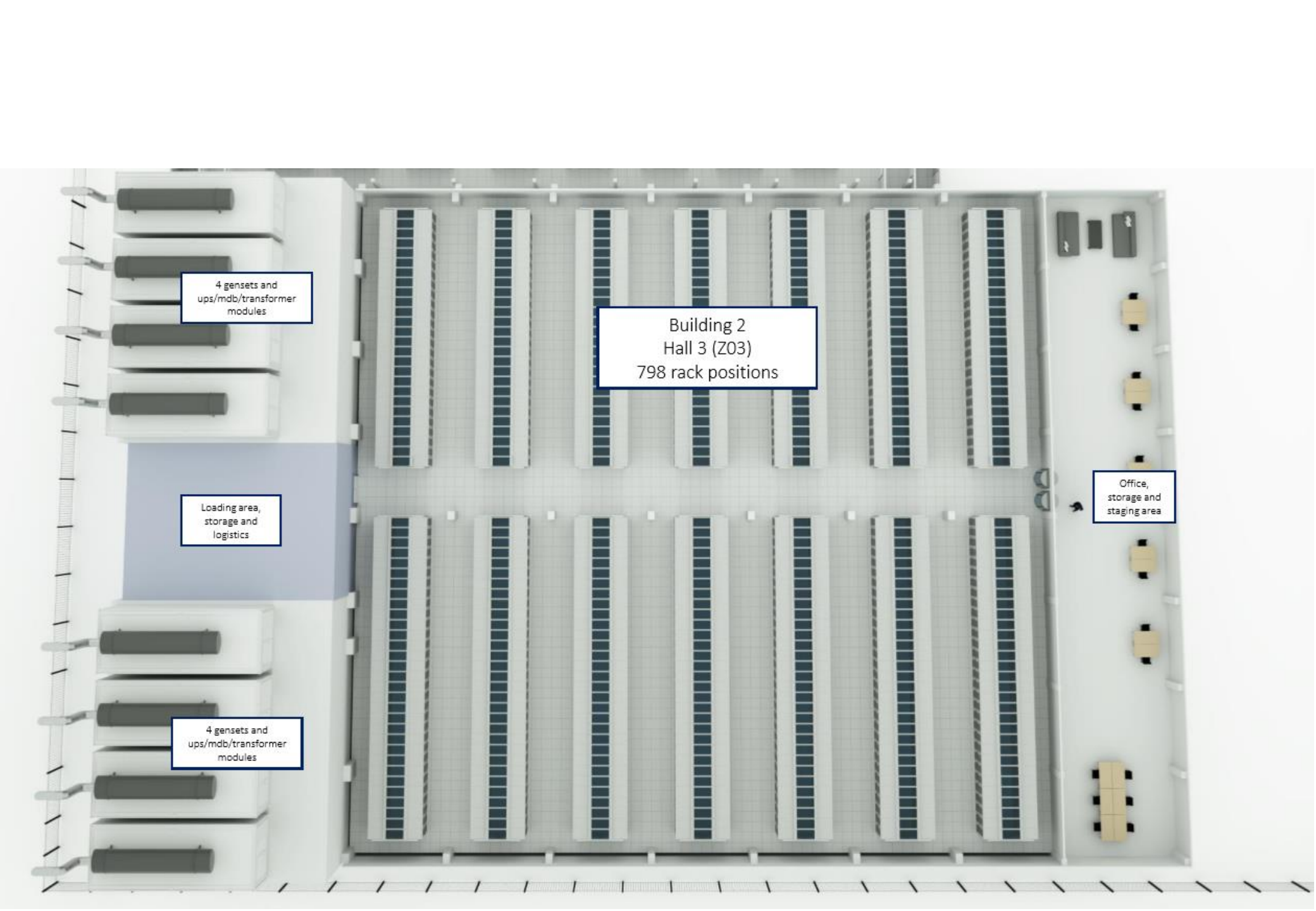
Due to the strongly increasing demand for datacenter space in AMS1, the management decided to expand the site by leasing the adjacent building at Lemelerbergweg 29 (building 2) which can accommodate an additional 1,560 m² of white space and 5.4 MW IT load making the total site potential white space 3,375 m² and total potential IT capacity 8.8 MW.



Source: Google earth photo







4 gensets and
ups/mdb/transformer
modules

Building 2
Hall 3 (Z03)
798 rack positions

Loading area,
storage and
logistics

4 gensets and
ups/mdb/transformer
modules

Office,
storage and
staging area



THANK YOU