Sustainability Days

Vincent Barro : VP DACH Secure Power & DC
Digital transformation is accelerating and Data Centers are the heart of it
Data Centers need to evolve to meet the needs of this digital transformation

- 500% Growth in global data generated by 2025²
- 50% Increase in electrical footprint of all data centers by 2025¹
- 75% of data will be processed at Edge by 2025⁴
- 24% of executive's report that over 50% or more of their data centers will be self-configuring by 2025³

¹ Schneider analysis, IDC 2019, Forbes Insights 2020, Gartner 2018
² IDC 2019
³ Forbes Insights 2020
⁴ Gartner 2018
To support the acceleration of digital transformation the Data Center architecture is increasingly hybrid, all work together.
Data Centers of the future is our VISION where:

- Sustainability
- Efficiency
- Adaptability
- Resiliency
Sustainable

Meet the business needs responsibly, without compromising the future

- Carbon strategy consulting
- Renewable energy sourcing
- Resource-efficient designs
- Resource management
- Circular materials inc. batteries
- Carbon efficient supply chain consulting
To decarbonize the grid, we must focus in 3 areas:

- Deliver the broadest portfolio of connected offers
- Design and package integrated systems in innovative ways
- Increase availability and efficiency with leading software and services
A connected infrastructure for more Efficiency

Monitoring and Dispatch
Asset Advisor

Resource Advisor
Building Advisor
Power Advisor
IT Advisor

IT Expert
Power Monitoring Expert
AVEVA Unified Operations Center
Security Expert
Building Operations
Power SCADA Operations

Life Is On | Schneider Electric
integrates connected products, software and services across Power, Cooling and the IT room
Management can be done at the data center level and across the entire data center architecture.
The data collected across Power, Cooling and the IT room turns into analytics and recommendations with linkage to service network.

**Experts & Advisors**

- **Connect**: Devices from multiple vendors and across different locations.
- **Collect**: Data across multiple sites and multiple domains.
- **Analyze**: Data and convert it to actionable insight.
- **Take Action**: With real-time information and business logic.

**Insights**

**CLOSE THE LOOP**
A dedicated solution for each cooling challenge and higher density

Pre-integrated racks in HyperPOD

CRAH 3 families
20 to 280 kW/unit
FanWall
Up to 400 kW/unit

Close Coupled In Row Cooling
2 CW frames up to 70 kW/unit

Liquid Cooling
POD 30-40 kW/rack

Air Cooled and Free Cooling Chiller
400-2000 kW/unit

Air Cooled Chiller
40-400 kW/unit

Access Floor

Mix of density with chilled water systems and different room precision cooling system

Alternative Trim Chiller 800-1250 kW

Alternative Water Cooled Chiller
2 families
200-2200 kW

POD 30-40 kW/rack

Refrigerants future-ready