

green.

GREEN ENERGY DATA CENTER

We simply care.

InterNetX
Infrastructure as a Service

GREEN MEANS SAFE

We at InterNetX want more than just to understand – we want to realize a vision. For this reason, we invested in a sustainable ecological energy concept. That makes your data safe and **100% GREEN!**

BUILDING

Efficient energy management starts with the building. If the data center meets the necessary structural requirements, an efficient and cost effective supply of energy can be provided.

Special criteria have been set when choosing the right building for the InterNetX Data Center. The former refrigerated storage building is constructed out of solid ferroconcrete and thanks to 60 centimeters thick walls particularly well insulated. The special method of construction makes the building independent from weather influences and guarantees for a constant climate control inside. Small fluctuations are balanced by the air-conditioning, which helps to minimize the energy consumption. The stable conditions helps to prolong the life of the hardware and reduce service costs.

Due to the height of the InterNetX Data Center building the temperature of the coolant can be regulated through thermal processes. In case the wind energy is insufficient, the photovoltaic power system installed on the 2,500 square meter broad roof feeds the system with additional energy.



All additionally energy needed for the InterNetX Data Center comes from water power. This makes the data center 100% CO2-neutral.



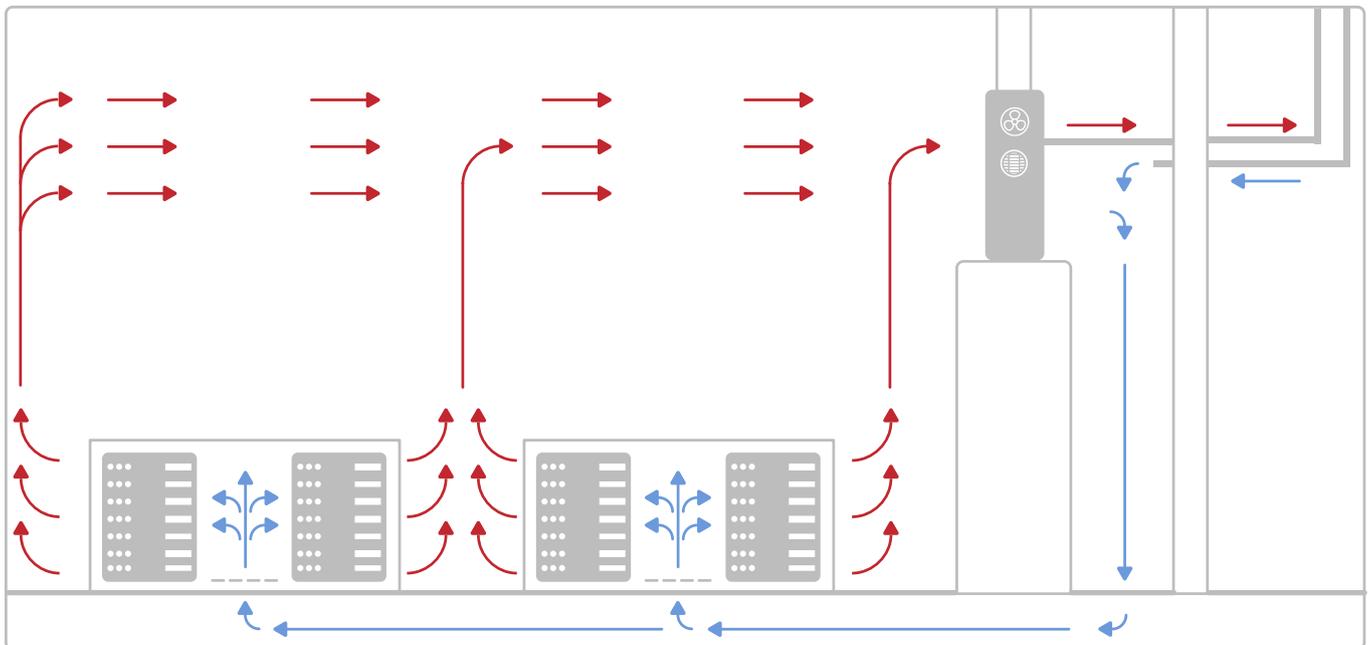
EFFICIENT CLIMATE CONTROL WITH COOLW@LLS®

The cooling of the InterNetX Data Center is provided by so called CoolW@lls®. This technology combines an intelligent system control with highly energy-efficient ventilators. In combination with disproportionately large cooling batteries the system achieves a particularly high energy efficiency.

The cooling system has been geared towards the needs of a data center. Taking physical laws into account, the cooling batteries have been placed five to eight meters above the floor. Thus, the ground floor needs not to be walked on when maintenance work occurs.

The housing of the servers and a more than 100 centimeters high double floor allows dividing the cold from the warm air. This helps to maintain an optimal airflow and to avoid hotspots at the same time.

The integral climate concept in the InterNetX Data Center was designed to reach a high energy density. Thanks to this and to the high ceiling, racks can be filled with 47 usable unit racks. The rack rows can be set close to each other, which also improves the airflow and raises the packing density and efficiency.



Graphic representation of the cold-aisle containment and room climatisation with the help of CoolW@lls®



On 1.777 sunshine hours per year energy is generated on the roof of the data center.



The thermal current on the data center roof is used to cool plant and equipment.



Additional energy requirements are completely generated through water power.

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