Energy Efficient Data Center

Analysis. Planning. Operation.

■ Your Security

Data centers and IT office buildings typically waste a high amount of valuable energy! That's unnecessary - so we decided to save a lot of energy by the right analysis and strategic planning for new buildings and renovations.
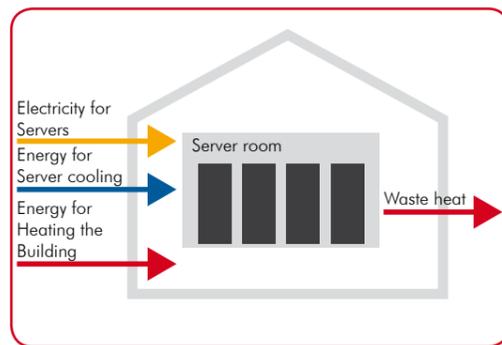
We reduce the operational costs of your servers and technical infrastructure

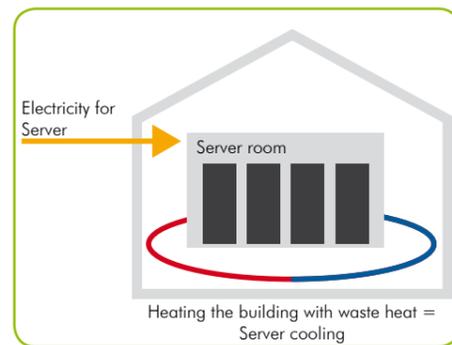to permanently ensure the profitable operation of your data center.

Play it safe. High performance, high availability (TIER I-IV) and state-of-the-art security technology are an inherent part of our concepts for energy efficient data centers.

Highest Availability.

Standard IT Office Building

Electricity for Servers
Energy for Server cooling
Server room
Energy for Heating the Building
Waste heat

Energy efficient IT Office Building

Electricity for Server
Server room
Heating the building with waste heat = Server cooling

■ The Questions are:

- How much do you pay for electricity?
- Do you know your energy saving potential?
- Can you use the waste heat of your servers?
- How do you save with Green IT?

- How do you gain independence from unstable energy markets?
- Can't you have both - security and energy efficiency?
- How do you combine economy and ecology concerning your IT?

We've got the Answers.

■ Our Know-how.

Analysis.

- Location analysis
- Thermographic imaging
- Energy flow analysis
- Security check
- Analysis of maintenance costs

Planning.

- Interdisciplinary planning of data centers
- Concepts and plans for new buildings
- Concepts and plans for optimization of existing buildings
- Planning of heating, cooling, ventilation, sanitaries, electrical engineering and IT
- Budgeting
- Risk management

Operation.

- Server housing
- Optimization of operating costs
- Continuous improvement process (CIP)
- Energy management (monitoring and controlling)
- Remote maintenance, Support

Count on our Experience.

REFERENCE

Renovation of a data center

Reduction of energy demand by 49 % concerning heating, cooling and electricity without changing the insulation of the building.

■ In a Nutshell.

- Interdisciplinary planning of data centers
- Overall concepts optimized for economic operation
- Security planning based on TIER I-IV
- Up to 80 % energy saving potential

49 % Energy saving

-58 % Energy costs

Data center   amsec (Hagenberg), Austria

New building of 'amsec' including data center

The concept of 'Servers heating an office building' was awarded the 'energy star' of Upper Austria.

- No heating costs!
- No cooling costs!
- Need of auxiliary energy reduced to a minimum

Convince Yourself.

Our archetype is the IT office building and data center amsec, located in the technology center 'Softwarepark Hagenberg' and was awarded the energy star 2007. The holistic energy concept makes it possible to heat the building exclusively with the waste heat of servers.

Visit us!

Our team of experts will be happy to provide you with information and answers.

Contact.

AMS Engineering GmbH
Softwarepark 37
4232 HAGENBERG, AUSTRIA

Tel. +43 7236 3351-0
Fax +43 7236 3351-9011

office@stiwa.com