WHITEPAPER

SUSTAINABLE ACTING FOR OUR FUTURE!
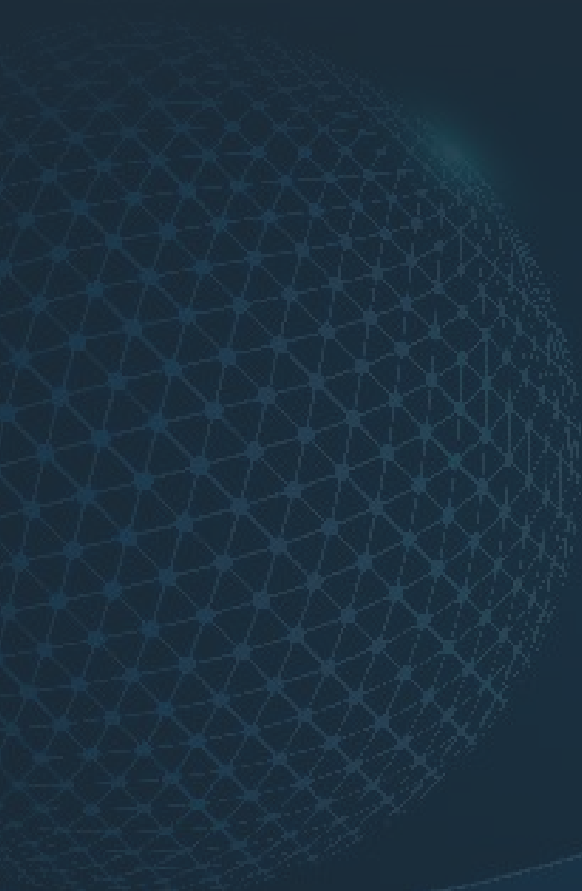
DIGITAL TRANSFORMATION ADVANCES MORE AND MORE AND INCREASES EFFICIENCY IN ENTERPRISES. SIMULTANEOUSLY, MANKIND FACES A GLOBAL CHALLENGE - **CLIMATE CHANGE!**

Consequences in the form of temperature fluctuations and increasing weather extremes can already be observed all over the world and represent genuine threats. Effective containment of the global climate crisis has become a central economic issue. In this connection, the operation of data centers also plays a decisive role.

FIS-ASP assumes responsibility and shows by what measures the largest operator of data centers in the region of Lower Franconia provides an important contribution to sustainability and today already retains tomorrow's resources.

FIS-ASP uses its company data centers to reduce its carbon footprints!

Intelligent cooling

As servers produce waste heat, data centers and server rooms need to be air-conditioned around the clock. For this reason, we use VRV systems requiring a minimum amount of energy to maintain temperatures.

This technology achieves greater sustainability and reduces CO2 emissions. Our VRV systems used are reliable and efficient solutions for technical cooling.

Furthermore, we use climate-friendly quenching gases for our data centers' extinguish-ing systems.

Renewable energy

To make an additional contribution to climate protection, we reduce our carbon footprint by exclusively purchasing sustainable electricity and, as a conse-quence, operate our data centers in an energy-efficient manner.

In doing so, we purchase electrical energy from Bavarian hydroelectric power plants of "Unterfränkische Überlandzentrale Mainfranken" (= "Lower Franconian Power Sta-tion Mainfranken"). The photovoltaic system installed on the FIS-ASP premises also pro-vides an essential contribution to sustainable power supply.

Efficient energy source

If heat that is available in any case can be used, this is particularly climate- and environment-friendly at the same time. As data centers produce warmth, FIS-ASP uses this energy source to heat its offices on the Grafenrheinfeld campus.

Furthermore, FIS-ASP invests in regional wind farms operated by "Unterfränkische Überlandzen-trale Mainfranken".

INCREASE IN EFFICIENCY

Storage systems account for almost one third of the total energy consumption of data centers. To increase efficiency, we pursue the objective of lowering the energy consumption per user. In spite of an annual performance in-crease, the energy consumption of each user continu-ously decreases each year. In 2016, the annual energy consumption still amounted to 88 kWh per user. Until 2022, it was lowered to 50,78 kWh.

An energy audit according to DIN EN 16247-1 has already proven as well that there is a high energy efficiency within the data centers and that the PUE values providing information on how much energy is consumed by a data center in relation to the consumption of its IT equipment are below the average of 1.5.

Energy consumption in kWh/user

Year	Energy consumption
2016	88 kwH
2018	64 kwH
2020	56 kwH
2022	50 kwH
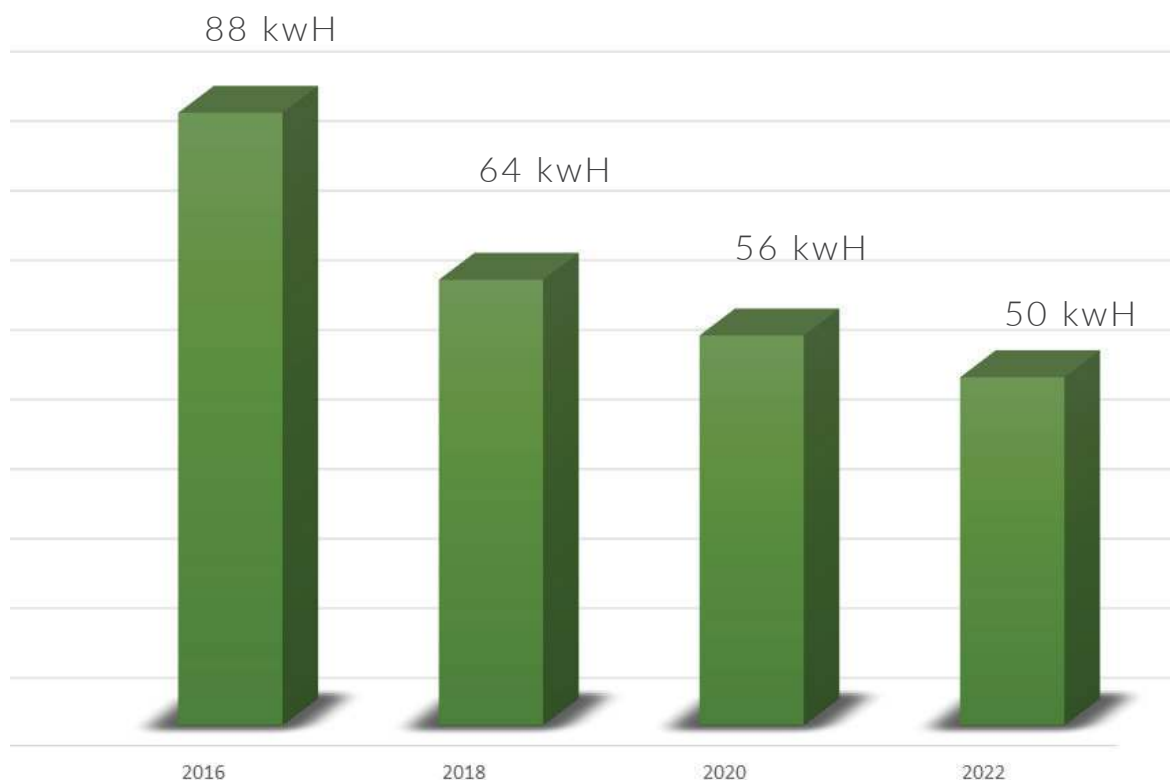
SUSTAINABLE DIGITIZATION

The FIS-ASP data centers in Germany do not only provide security. As a data center provider, we generate sustainability by combining economic efficiency with climate-friendly effects.

You can take an active part in shaping the future!

Reduce your resource consumption by relying on the FIS-ASP colocation data cen-ters. Their modules are scalable and can be flexibly used. Use our certificate for re-cording your CO_2 emmissions along your entire supply chain.

Save major efforts for ensuring physical as well as data protection security. Our comprehensive backup concept guarantees high operation and data security by using high-performance systems.

Relieve you personnel and use our know-how. We guarantee 24/7 availability of your systems and find solutions for your requirements even outside our usual business hours.

Additional aspects are cost savings and the reduction of CO_2 emissions achieved by our innovative cooling and room concepts, which considerably contribute to cli-mate neutrality and meet the increasing demand of cloud services in an en-viron-ment-friendly manner.

FIS-ASP

®