

Server room services

Solutions from a single source.

Power without interruption

Our passion for over 20 years.

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EPS - A COMPANY WITH A HISTORY

Step towards the future

It was over 25 years ago that our Managing Director, Josef Frühwirth, decided to set up his own business as a provider of complete solutions for server rooms and UPS systems. His many years of experience in the electrical engineering sector and his knowledge from his time at the technical evening school helped him to take his first steps in the entrepreneurial world. The office in Maria Anzbach was soon opened and our colleague Karin was hired as the first employee at EPS.

Growth and site expansions

Over the years, EPS continued to grow with its customers, partners and employees. An important milestone followed in 2010: we relocated the branch office in Groß Gerungs to a modern building with a photovoltaic system and its own small server room. This construction project was honoured with a nomination for the „Helios“ energy efficiency award in 2015 - which naturally makes us very proud. In 2012, we expanded our locations with a branch in Germany and founded EPS Rechenzentrum Infrastruktur GmbH. Today, we are already more than 50 different personalities in all our companies.



**PEOPLE
FIRST!**

Energy efficiency and sustainability

In 2010, we were recognised as a Climate Alliance company. EPS has signed a binding agreement on targets and measures and has committed itself to continuing to make a special effort to protect the climate. We received a further award in the area of energy efficiency for our sustainable construction methods at the Groß Gerungs site and for our energy-efficient in-house server room.

DIN EN ISO 9001:2015 and TQMi

The highlight of 2016 was the successful ISO 9001:2015 certification of our company. We are also certified in accordance with TQMi (integral Total Quality Management), ensuring the highest quality for our customers.

Outlook and future

What will the near future hold for us? One thing is certain - and we already know this today - that as a company, as a team and as individuals, we will continue to do everything we can to offer our customers and partners innovative and sustainable server room solutions. Honest solutions, fair prices and flexible service will continue to be associated with us for many years to come.

SERVER ROOM PLANNING AND CONSTRUCTION

Solutions from a single source

Planning server rooms and data centres

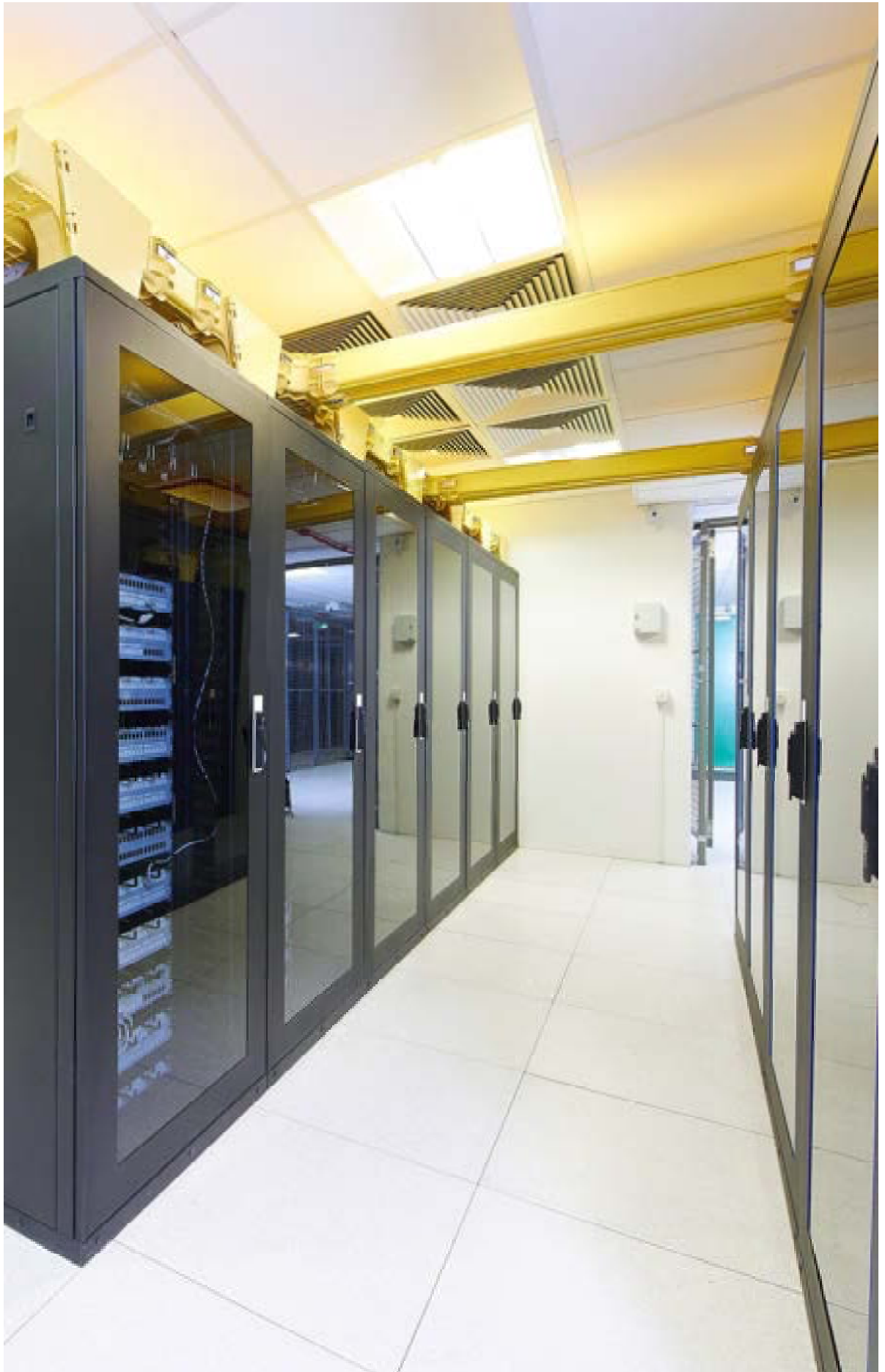
When setting up or expanding an IT room, the consultation and planning phase is an important basis for a modern and sustainable solution. The server room concept should fulfil your requirements and comply with all current standards and regulations. We are guided by the standards in the data centre and electrical engineering sector (e.g. EN ÖVE standards, ÖVE E8001, DIN, VDE, VDMA, VdS guidelines and many more). During the planning phase, we record your current situation and carry out an exact data centre site survey and requirements analysis.

We take all local conditions into account in the concept. Our data centre experts have extensive specialist knowledge and will support you right from the start. You will receive comprehensive documentation in which you can see all the interfaces and the project schedule.

- On-site inspection, consultation and stocktaking
- Planning and design of the room, cables, IT infrastructure, etc.
- Project management incl. drawings and circuit diagrams
- Checking and controlling the server room concept
- Based on DIN EN 50600 (data centre standard)
- Documentation and presentation incl. schedule

Assembly and construction of server rooms

Once the concept has been approved and all materials have been identified, we take over the construction of your data centre for you. Our own team of technicians will build your IT room and install all agreed components within a few weeks (depending on size and scope). This starts with the lighting, cabling, through to UPS systems, emergency power generators, fire protection measures, access systems and much more. Once all connections and systems have been installed in a professional and standardised manner, we put the entire IT infrastructure into operation for you. Our fitters are always up to date with the latest technology thanks to regular training and will support you throughout the entire project.



1-DAY SERVER ROOM CHECK for more safety and energy efficiency

Review and optimisation of the data centre

Once an IT room has been commissioned, the holistic attention to the solution often ends. In most cases, internal checks are carried out at regular intervals, often by the company's own team. For reliable and highly available server room operation, an inspection by external and independent experts is essential.

Utilising optimisation potential

By means of an on-site inspection, your server room is assessed by our experts according to defined quality characteristics. We take a close look at the various aspects of data centre operation: e.g. operating processes, physical protection, energy and air conditioning supply, monitoring and surveillance through to energy efficiency. The data centre analysis is carried out with regard to the individual requirements for availability and protection of the server room

You receive a holistic assessment of the operational security and energy efficiency of your data centre. We derive existing optimisation potential from the strengths and weaknesses and identify measures.



Contents of the server room check

- Organisation and processes
- Geography and environment
- Fire hazard and fire protection
- Water hazard and water protection
- Access and burglary protection
- Order and cleanliness
- Energy supply
- Refrigeration, air conditioning and air flow
- Network cabling, data connection
- Energy efficiency (energy monitoring and management, refrigeration, air conditioning, air flow)
- Monitoring or surveillance

Benefits and features

- Efficient brief analysis
- Holistic evaluation of server room operation
- Evaluation based on the individual requirements of the client
- Implementation by experienced data centre specialists
- Clear presentation of results
- Identifying weak points and risks
- Basis for investment decisions
- Recommendations for optimising energy consumption and costs

These are our services:

- ✓ Efficient brief analysis with result presentation
- ✓ Holistic evaluation of your server room operation
- ✓ Overview of vulnerabilities and risks
- ✓ Support with investment decisions
- ✓ Recommendations for optimising energy consumption and costs





ENERGY EFFICIENCY ANALYSIS

Sustainability for the server room

Energy efficiency

Operating and energy costs are of great importance for all branches of industry. These factors also pose major challenges for operators in the energy-intensive data centre and IT sector. In addition to the cost aspect, the negative environmental impact also plays a key role. Many companies are therefore constantly looking for measures to sustainably reduce their energy costs and thus increase operational efficiency and energy efficiency.

Energy efficiency analysis process

As a provider of complete data centre solutions, we are also dedicated to increasing the energy efficiency of existing properties. Proven methods and technologies are combined with innovative solutions and organisational processes. The aim of the energy efficiency analysis is to achieve sustainable cost savings. Once the concept has been completed, you can identify optimisation potential and proposals for your data centre or company. This enables energy costs and consumption to be reduced systematically and in a targeted manner.

Effectiveness measurements

We support you in advising and selecting the energy efficiency measures to be implemented. We are also happy to take on the project management and realisation of the concept for you. After completion, we will check the effectiveness of the implemented measures by means of appropriate measurements and advise you on the introduction of your energy management, including energy monitoring. You will receive comprehensive documentation and a professional concept for your data centre.



Your benefits from the energy efficiency concept

- Reduction in energy and operating costs
- Increasing efficiency and cost-effectiveness
- Improving the environmental balance
- Support for related marketing measures (optional: certification)

Content of the analysis



Organisation and processes

Energy monitoring and energy management
Responsibilities
Continuous improvement process



Air conditioning

Needs-based configuration and utilisation of the existing infrastructure
Optimised load distribution
Air routing in the IT area (air conditioning units, EC fan control, enclosure, raised floor, etc.)
Use of free and adiabatic cooling
Optimised temperatures in terms of reliability and energy efficiency
Control of humidity values according to ASHRAE recommendation



Power supply and UPS systems

Optimum configuration and utilisation in terms of availability and energy efficiency



Use of waste heat from the data centre



DIN EN 50600 CHECK & CERTIFICATION

Inspection according to the RZ standard

Structure and contents of EN 50600

The RZ standard is divided into four sections:

Part 1: General concept

Part 2: Physical aspects from structural issues of the building to energy, cabling and safety aspects

Part 3: Management

Part 4: Efficiency aspects such as KPIs, energy consumption and renewable energies

EN 50600 Check and analysis

Do you have an existing data centre or are you planning a new one? Or would you like to bring your IT infrastructure up to the latest state of the art? Then we recommend the EN 50600 check with comprehensive conceptualisation. The process is divided into three points:

1. on-site workshop with recording of the current status

- Exchange of information between all responsible parties
- Definition of the task and requirements
- Discussion and review of all documents
- IT requirements and IT infrastructure
- Legal provisions, standards and guidelines
- Need for protection

2. Risk and location analysis

- Risk identification
- Risk analysis
- Risk assessment

3. Concept development

- Comprehensive concept for the data centre and IT infrastructure
- in electronic form with various sketches and drawings
- Rough cost estimate
- Orientation according to DIN EN 50600



Sound basis for decision-making

The concept provides operators with a sound basis for decision-making and is already suitable as an important overview of all expected measures and investments in the initial planning phase of a server room. This is also the ideal preparation for subsequent certification by an independent testing institute.



CERTIFICATION ACCORDING TO DIN EN 50600 by an independent testing institute

Certification of the data centre according to DIN EN 50600

Do you want even more security? And gain a competitive advantage? Then we recommend that you have your data centre certified in accordance with DIN EN 50600 by an independent certification institute. Once the eligibility for certification has been determined, the audit preparation, the audit of the plans, the audit of the construction and the audit of the data centre according to various requirements follow. We are happy to support you with the organisation and preparation before, during and after the procedure. However, the testing and certification procedure may only be carried out by an independent certification institute

Your benefits from DIN EN 50600 certification

- Improve the physical security and security of supply of your data centre
- Reduction of failures and malfunctions
- Uncovering potential for improvement
- Reduction in operating costs through greater efficiency
- Securing competitive advantages by complying with the European normative basis
- Increasing security and in the planning of new data centres
- Ensuring and improving internal project quality



Benefit in the long term and increase security

Whichever option you choose: Your data centre must offer maximum availability and reliability. Regular inspections by experts are essential for this. This creates new impetus for your data centre infrastructure and you benefit in the long term.

SERVICE AND MAINTENANCE

Maintenance for your server room

Customised protection for your IT infrastructure

For us, the customer relationship does not end with the completion of the project. We always endeavour to check and maintain your systems and components on a regular basis. Our flexible server room service packages offer you the right protection for your requirements. Our service team will help you to ensure an adequate level of security for your operations - for many years to come.



24h service
Telephone
hotline



preventive
maintenance



guaranteed
response time



customer
orientated
service

FULL MAINTENANCE Carefree package

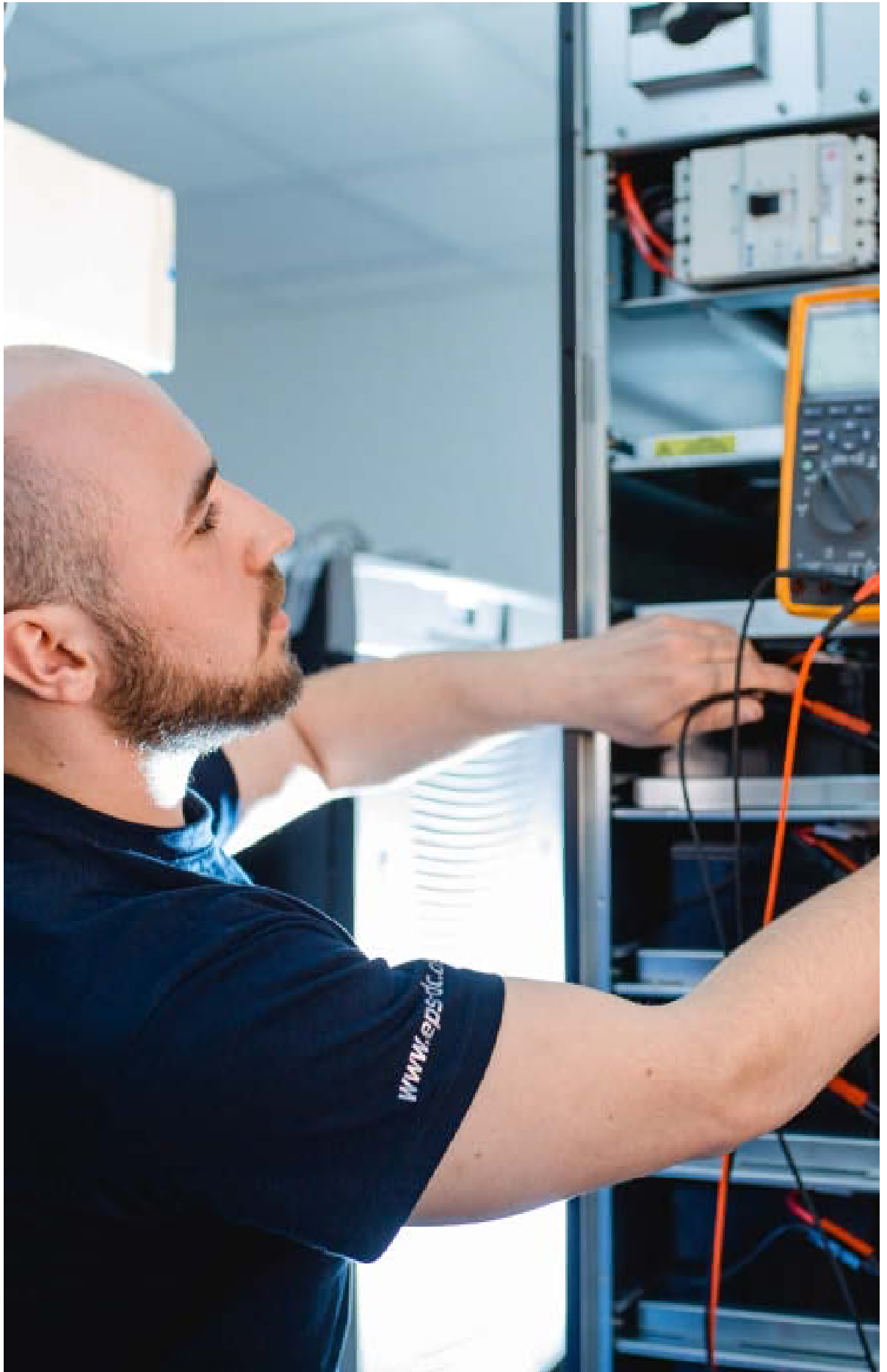
- 24 hour service hotline
- Guaranteed response time
- Preventive maintenance, every 12 months
- All spare parts included
- Battery system service
- Battery replacement included
- All labour and travelling time for preventive maintenance included

PARTIAL MAINTENANCE Power package

- 24 hour service hotline
- Guaranteed response time
- Preventive maintenance, every 12 months
- All spare parts included
- Battery system service
- All labour and travelling time for preventive maintenance included

BASIC MAINTENANCE Basic package

- 24 hour service hotline
- Guaranteed response time
- Preventive maintenance, every 12 months
- Battery system service
- All labour and travelling time for preventive maintenance included







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