



The Data Centre Life Cycle

Transforming your IT operational effectiveness



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EPI – Your Partner to Design, Build and Support Your Data Centre

At EPI we aim to transform your IT operational effectiveness in terms of cost, uptime, efficiency and environmental impact. We balance resilience, efficiency and environmental impact for every project, to give you a world-class data centre that is scalable, resilient, efficient, secure and cost-effective.

We design data centres to balance power usage with on-going energy efficiency, keeping costs as low as possible and reducing carbon footprint. We are members of the Green Grid and maintain expert knowledge of data centre industry trends.

We never forget that each site must provide a return on investment and we address costs at the design phase to control cost of ownership and provide greater profitability. Our carefully planned installations ensure successful “Day One” operation and our on-going support and maintenance services ensure business continuity and peace of mind for our customers.

Consultation and Design

EPI’s professional services manage the early stages of every project. Our experienced consultants meet each customer to discuss their technical requirements and the underlying commercial goals that drive them. With this insight, EPI can propose a data centre solution that will support the customer’s broader business objectives.

The professional services team manages each project through the planning and construction phases. Our civil, mechanical and electrical designs (based upon the Uptime Institute design standards) detail room construction, cooling infrastructure, electrical design, fire detection and suppression, security and access control, network infrastructure, and computer room equipment such as server and network racks.

Our design service does not stand still – it is always evolving and researching new technologies that will work more effectively for our customers.

Energy and Environmental Efficiency

Energy costs are a key concern for our customers. EPI can advise on energy efficiency and our data centre designs balance infrastructure resilience with power efficiency.

As companies become more concerned about their corporate social responsibility, EPI can advise on Government carbon trading schemes and the best way to engage with them.

Data Centre Specifications

A successful design should adapt to future business demands and be scalable. We address this as we plan a new data centre, along with the environmental impact and the maintenance and uptime implications for the data centre. Using these factors, we can recommend the most suitable architecture and plan for the data centre.

EPI design and build both traditional and prefabricated (transportable) data centre solutions, and we use our experience to design a data centre that will be most suited to your requirements and business objectives. If speed of deployment is critical, delivery of our Rapid Deployment Data Centre (RDDC) is within six weeks of order.



We use Computational Fluid Dynamics (CFD) modelling software to model the thermal performance of the data centre and specify the type and location of air-conditioning systems and equipment racks. We ensure that the site is fault tolerant and easily maintainable, and supply detailed site-specific drawings showing complete details of the designed data centre.

Physical Infrastructure

As work begins on site, EPI manage the ground works, the laying of foundations, drainage and construction of externally sited data centres. We install transformers, generators, condensers, chillers and their supporting infrastructure. EPI will plan services to allow for future change and growth, ensuring both cooling and power can scale without loss of resilience and efficiency.

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Air Conditioning and Cooling

EPI will recommend the most appropriate and efficient cooling infrastructure to maintain IT equipment within the manufacturer's recommended temperature limits.

EPI look for ways to optimise use of energy, using free cooling technologies where possible whilst meeting the availability requirements of the design. We compare cooling technologies and may offer more than one solution. We use our expertise in cooling technologies to ensure that the cooling systems are efficient and provide value for money over their lifetime.

Electrical Infrastructure

It is EPI's policy to help our clients to understand and measure their power usage and efficiency, and find the best way to comply with government requirements. EPI will specify, install and commission transformers, generators and UPS to power the data centre, and ensure that the installation meets the requirements of the Uptime Institute. We ensure that the electrical installation meets all legislative requirements and our engineers train to the latest IEE standards.

Operational Infrastructure

We design, install and test fire detection and fire suppression systems to protect your data centre investment. We can manage the design and installation of copper and fibre networks, and provide access control and CCTV data centre security. Our environmental, power and critical system monitoring gives you the peace of mind that your data centre is operating at optimum levels.

In all cases, we will recommend the most suitable best-of breed products for your data centre.



Project Management

EPI's experienced engineers work to the design that has been approved by the customer. EPI uses PRINCE2 project management methods to plan operations on site during the construction, testing and handover phases and to ensure that the critical building and handover phases run smoothly. We provide a site manager to take overall responsibility for all work on site, and a dedicated Health and Safety Manager. Full documentation for the design and the project time-line is provided.

Installation, Testing, Handover and Training

EPI perform tests to ensure that the new data centre meets and surpasses the customers' specifications. We perform training to ensure the customer understands and can manage the new data centre.

On-Going Support

EPI offers 24x7x365 support services for the data centre, so our customers can feel confident that their site will continue to function efficiently.

Our Remote Monitoring Centre (RMC) gives EPI the ability to monitor our clients' data centre infrastructure remotely to ensure that it is always fully operational. We work to an agreed SLA and dispatch engineers to site to resolve any issues quickly and efficiently.

We also undertake capacity planning and preventive maintenance, for example using thermal imaging and diagnostic testing to identify and address potential issues before they can affect the operation of the data centre.

Our support and maintenance services cover all aspects of the data centre including air conditioning, condensers, chillers, stand-by generators, electrical distribution, environmental monitoring, fire detection and suppression, security and UPS.

EPI – Your Partner for the Data Centre Life Cycle

We partner with our customers to develop strategic solutions that work for them, both technically and commercially, today and in the future. EPI has the necessary skills to plan ahead and build an installation that will continue to meet your needs.

We will design, build, project manage and maintain the entire data centre for you throughout its life cycle.



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