

NHP Data Centre Solutions

Blueprint Engineering Service (BES)



Engineering and design services that bring a fresh approach to achieving a flexible, scalable and cost effective data centre solution.

NHP Data Centre Solutions – Blueprint Engineering Services



NHP's BES strategy will reduce upfront design time and cost by utilising the expertise of NHP to quickly and efficiently take the requirements of the data centre operational characteristics and convert this into a flexible, adaptable and scalable data centre solution – tailored specifically for you.

Background

Poor initial design often results in data centres failing to achieve their expected operational efficiencies and capacity targets. It is therefore vital that the operational specification that is developed defines the functional performance, efficiency and overall success of the data centre.

If the design and operational specification is not 100% defined upfront by removing all aspects of hidden complexity, then physical changes and/or software modifications are time consuming and costly once construction and commissioning commence.

NHP's Blueprint Engineering Service (BES)

Blueprint Engineering Service (BES) is a suite of value-add engineering and design services delivered by NHP to assist consulting engineers and end users develop customised solutions for data centres. BES is available for new data centre designs/developments and also for existing data centre sites undergoing retrofit and/or upgrade. BES can be tailored to suit both 'Design & Construct' and 'Construct' models depending upon your specific requirements.

BES provides service, design and engineering advice for data centres across NHP's Data Centre Ecosystem application segments. These include:

- Power Distribution & Protection
- Power Quality
- Climate Control
- Energy Management
- Renewable Energy
- Physical Infrastructure (i.e white space and layouts)

All BES solutions offered by NHP are accompanied with a professional, customised report including recommendations and considerations as agreed in the Scope of Works originally developed.

NHP Blueprint Engineering Services – Flexible, Adaptable and Scalable

DISCOVERY:

No obligation kick-off meeting to establish client requirements.

WORKSHOP:

For complex BES requirements, a discovery workshop is held with the client.

NHP Data Centre Solutions – Blueprint Engineering Services



Much like NHP's Data Centre Solution which offers flexibility and scalability, NHP BES is the same. With flexible packages and services, NHP BES' are tailored to suit your specific requirements and needs. Some of the popular BES solutions available include:

Capacity Profiling

Document topology and functionality, monitor power consumption parameters, assess capacity utilisation, identify when growth will exceed capacity, highlight efficiency improvements, review business growth projections and concept design creation

Efficiency Assessments

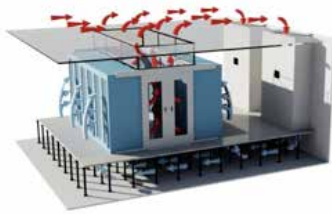
Document topology and functionality, evaluate and review areas of consumption elements and wastage, compare against industry benchmarks, recommend retrofit/ upgrades of equipment and concept design creation.

Resilience Audits

Recommend best practice installation topologies, document critical infrastructure elements, compare against business requirements, analyse fault tolerance performance, diagnose and report on key risk elements, recommended improvements options.

Data Hall / White Space Rack Configuration

Design of topologies and arrangements producing maximum airflow through installed equipment and acoustic consideration to reduce noise and vibration. Cabling and distribution strategies are investigated to achieve maximum density whilst taking into account floor tile placement and openings.



SCOPE:

Development of a formal scope of work is based on the discovery session outcomes.

ACCEPTANCE:

Client acceptance of the scope of works.

DELIVERY:

Delivery and presentation of the complete BES report.



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