

# Go Green Let's Optimise

Powering with Green Initiatives



## The New Emphasis on Green IT

With modern solutions in virtualisation and data centre consolidation, companies are no longer facing problems in getting physical space for data centre. The new emphasis is now on green IT, where priorities are on cost reduction in energy consumption, power utilization and equipment performance.

Environmental and electrical costs and government regulations now play a more significant role in driving green initiatives such as:

- Environmental sustainability
- Power management for efficient use of energy in Data Centre
- Data centre design, layout, and location
- Green metrics, assessment tools, and methodology

## Rising Challenges

Despite the huge amounts of capital invested in data centres, significant inefficiencies exist. In addition, more advanced features are packed into servers nowadays, increasing the data centre's appetite for energy.

Companies now face new challenges in keeping the energy consumption of their data centre down. Some of the common issues faced are:

- Rising IT costs to maintain a highly powered Data Centre
- Legacy data centre is not designed to house high density equipment, resulting in overheating
- Inefficient use of space and resources within the Data Centre

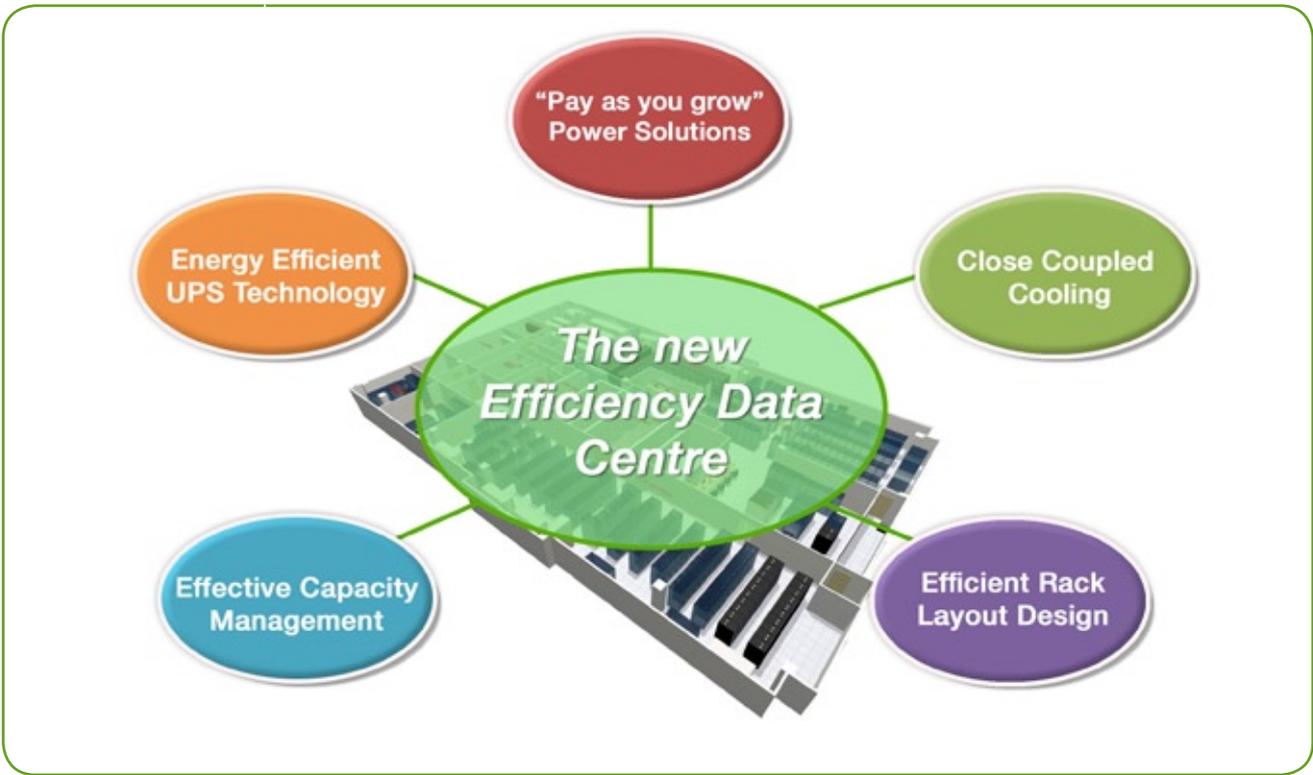
With the changing priorities to go green, IT procurement is likely to steer towards utilization of hardware that is energy saving and performance efficient.

## SOLUTION

- Audit and assessment of data centre efficiency using industry-leading metrics and measurements
- Provide consultancy services on resource capacity and optimization planning
- Design and build a green data centre based on principles of achieving the right size of power, cooling system, racking layout and monitoring tools.

## BENEFITS

- Decrease inefficiency through right sizing of power
- Eliminate unnecessary cooling energy wastage
- Right placement of racking system to ensure that data centre environment is optimised



## NCS Green Data Centre Turnkey Solution

As an independent system integrator, NCS is able to offer you the right solution to embark on “Go Green” initiatives and reduce your carbon footprints. From data collection and analysis, assessment of emerging technologies and devising best practices for data centre operations, NCS provides turnkey solution for the setup of an efficient data centre.

An audit of your data centre efficiency which includes documentation and analysis of the data centre physical infrastructure with recommendations to increase capacity, utilization and availability can be conducted using industry-led metrics such as the Green Grid standards.

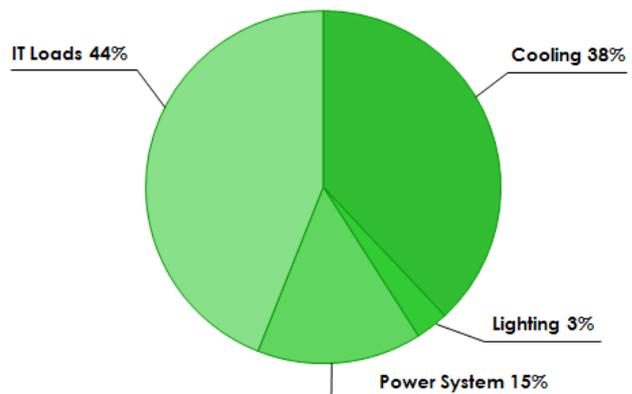
Partnering with our carefully selected vendors, NCS is able to design, install and setup your data centre facilities based on green initiatives such as:

- Right sizing of power to support IT load
  - Reduce over sizing of power, decrease inefficiency
- Right sizing of cooling to allow IT equipment to run at optimum temperature
  - Reduce over sizing cooling will prevent unnecessary cooling energy wastage not needed by the IT equipment; hence incur lower operating cost
- Right layout of racking systems and cooling technology
  - An unorganized racking system will expense additional cooling energy, resulting in wastage and incur of additional operating cost
- Right Management solutions such as monitoring, capacity and change management tools to optimize the resources at ease.



NCS will help you to save 30% of your energy:

With electricity accounting more than 50% of the operation cost in an enterprise data centre, NCS Green Data Centre solution will help you to reduce your company energy cost by 30% or more!



Typical Power Utilization In A Data Centre