



5 Steps to a Highly Efficient Data Center

How efficient is your data center operations? With big data, Internet of Things (IoT) and edge computing driving up data center heat density, your equipment could be at risk for outages if not managed properly.

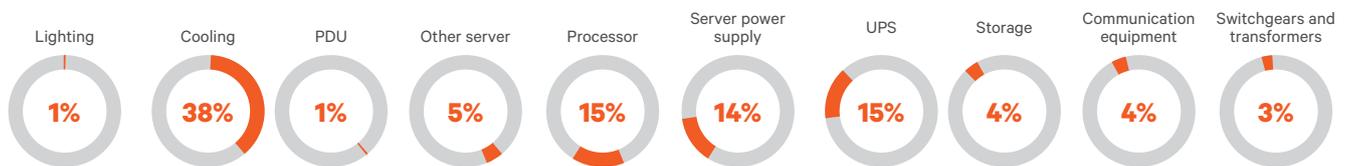
Here are 5 steps towards achieving a highly efficient data center:

1



Jumpstart Optimization

Each area of your data center facility must be assessed by a data center professional. Here is a sample performance assessment, including key areas that will be measured



2



Measure Data

Information gathered from the assessment will be analyzed by the data center professional including



By investing in an optimization service, you can get a quality survey report that gives you a professional review of your data center performance.

3



Analyzing Facts

If you want to cut down on energy costs, here are the things you can do:



Metering and Verification – Metering/monitoring provides base line pPUE (mechanical Power Usage Effectiveness) of before and after the optimization process; it also provides real time and historical kWh consumption



Air flow management (Under the floor, within the rack, hot and cold aisle configuration, return air)



CRAC unit optimization – recommissioning of CRAC units, controlling air temperature and recalibrating sensors



Identifying hot spots – Utilizing thermal scanning to identify and eliminate hot air intake

4



Improve Data Center Design

- Identify different stress points
- Suggest different air flow management as needed (ie. Containment, intelligent controls and economization)
- Regulate temperature (hot aisle/cold aisle rack arrangement and sealing cooling gaps on the data center floor)



5



Achieve Results

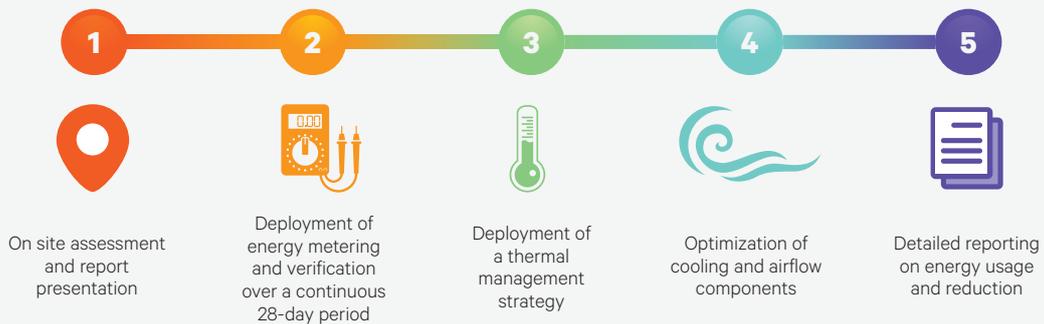
Optimization makes sure that you get the results you expect based on your budget, requirements and expectations!



VERTIV OPTIMIZATION SERVICES

Optimization services from Vertiv help organizations reduce overall cost in the data center by examining the existing cooling infrastructure and determining opportunities for energy savings within the data center. By viewing real-time energy consumption and collecting historical energy consumption patterns, experts can give you the best assessment to cut down on energy spending.

THE PROCESS



MANAGE YOUR AIRFLOW

Have the capability to optimize the cooling capacity and manage the airflow within your data center.



Multiple benchmarks have consistently delivered significant energy savings between 30% to 50% on cooling costs and reduced overall facilities power costs between 10% to 25%.

