

DCOI At-a-Glance

The goal of the U.S. Federal Data Center Optimization Initiative (DCOI) is reducing, streamlining, and making government agency data centers more energy efficient and responsible for performance. The mandate calls for automated collection and reporting of systems, software and hardware inventory, and dictates specified levels of operation. Data centers that do not comply in time will be closed.

The Facts

Requirements



9.30.2018
Compliance Deadline



INSTALL AUTOMATED ENERGY METERING
Required for continuous PUE reporting



DCIM* SOFTWARE IMPLEMENTATION
*Data Center Infrastructure Management



PUE BELOW 1.5
Or will be closed

Data Center Classifications



TIERED*
Have a separate physical space, UPS, independent cooling system & backup power generator
*PUE monitoring applies



NON-TIERED
All other sites

The Metric

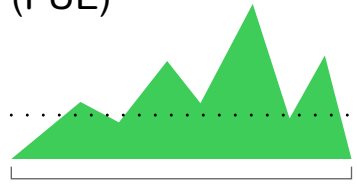
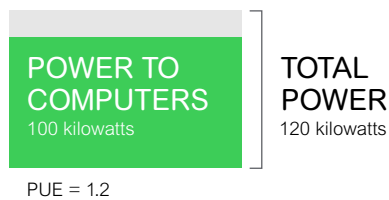
Power Usage Effectiveness (PUE)

PUE DEFINITION

The total amount of power entering a data center divided by the amount of power that actually makes it to the data center computer equipment

EXPRESSED AS A RATIO

Overall efficiency improving as the quotient decreases toward 1

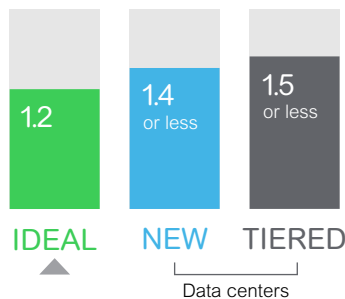


AVERAGE EFFICIENCY

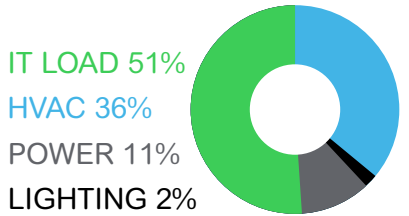
The energy consumption of a data center over a period of time is computed using the average of the data center efficiency over that period.

PUE measured instantaneously will generally NOT be equal to the annual PUE.

DCOI PUE Requirements

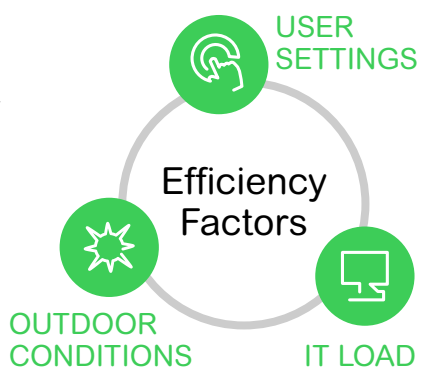
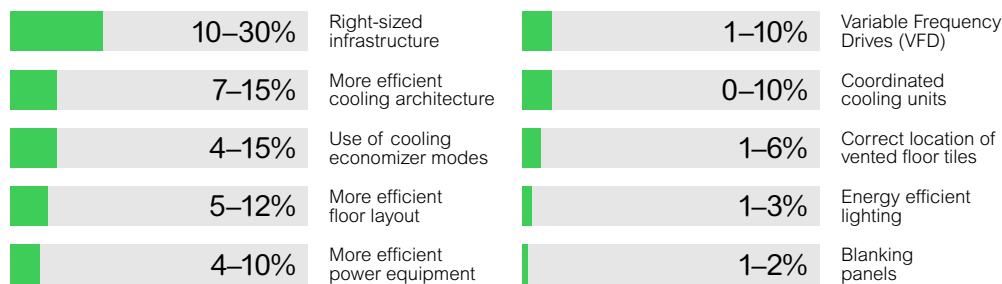


Typical Data Center Allocation (PUE=2)



The Actions

Efficiency Best Practices: Achievable Savings Examples



DCOI in Depth

Data centers play a critical role in meeting your core mission. Schneider Electric can help you operate intelligently and at maximum efficiency, within compliance. For DCOI in depth, read whitepaper: [“DCOI Compliance: A Guide to Improving PUE in U.S. Federal Data Centers.”](#)



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Business Solutions
1.800.800.0014

Enterprise Solutions
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Public Sector Solutions
1.800.800.0019

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