

DID YOU KNOW?

Data Centers

866.624.1520
ABM.com/DataCenters



COST OF DOWNTIME

\$8,851 is the approximate cost of **one minute** of data center downtime



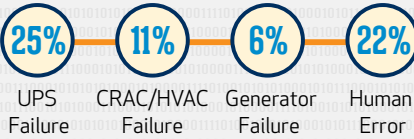
95 MINUTES duration of the average downtime incident



\$840,845 total cost at that duration and rate



CAUSE OF DOWNTIME



That's **64% of downtime** rooted in issues like:

POOR TRAINING



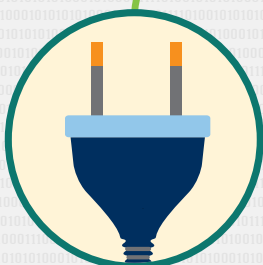
POOR MAINTENANCE



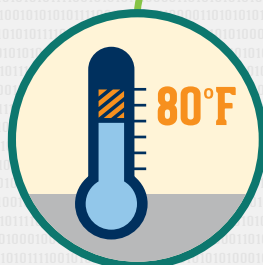
POOR EQUIPMENT



ENERGY SAVING SOLUTIONS



Studies estimate **10-30%** of servers in U.S. data centers are **zombie servers**



Look beyond a set temperature: 20% reduction in airflow nets
50% CUT IN FAN ENERGY



Preventive maintenance plans can reduce breakdowns by **70-75%**



U.S. DOE predicts **small data centers** have high savings opportunity:
20-40% LESS ENERGY USE

DATA CENTERS

There are **approximately 8.55 MILLION** Data Centers Worldwide

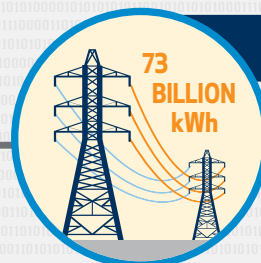


Globally, data centers **occupy** about **1.8 BILLION SQ. FT.** Which is equivalent to about **31,250 FOOTBALL FIELDS**



POWER USAGE

Data Center energy use will reach **73 BILLION kWh** a year in 2020



AVERAGE PUE (power usage effectiveness):
2007: 2.0
2016: 1.8-1.9



WHY NOT MORE CHANGE? The Department of Energy projects **45% reduction in electricity demand** by 2020 is possible.



HOW MUCH LESS COULD YOUR FACILITY USE?



SOURCES

- https://www.vertivco.com/globalassets/documents/reports/2016-cost-of-data-center-outages-11-11_51190_1.pdf
- <https://www.computerworld.com/article/3188885/data-center/data-centers-decline-as-users-turn-to-rented-servers.html>
- <https://datacenters.lbl.gov/resources/united-states-data-center-energy-usage>
- <https://blog.westerndigital.com/9-interesting-stats-on-the-growth-of-data-centers/>
- <https://datacenters.lbl.gov/sites/default/files/Small%20Data%20Centers%2C%20Large%20Energy%20Savings%20Presentation03292017.pdf>
- https://www.dudesolutions.com/Portals/5/Resources/Documents/LG_ICMA_Maintenance.pdf?ver=2016-06-14-141445-177